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Phase 1 Final Draft Report Vol. 2 Pt. 1

Aquatic Habitat & Instream Flow Project

ADF & G / Su Hydro 1981

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Phase 1 Final Draft Report Vol. 2 Pt. 1
Aquatic Habitat & Instream Flow Project
ADF & G / Su Hydro 1981

by

Alaska Department of Fish and Game
Susitna Hydro Aquatic Studies
2207 Spenard Road
Anchorage, Alaska 99503

for

Acres American Incorporated
Liberty Bank Building, Main at Court
Buffalo, New York 14202

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PLANIMETRIC MAP SYMBOLS LEGEND


silt


sand


gravel


rubble


cobble


boulder


rock outcrop

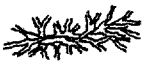

cliff

cut bank

undercut bank

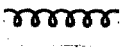

log


debris pile


beaver dam

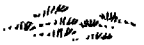
flow direction


eddy


mixing zone


spawning redd

spawning area


grass


trees


shrubs


aquatic vegetation


overhanging vegetation


SU HYDRO site marker


Hydrolab sample site


USGS sample site


staff gage site


thermograph (intragravel)


thermograph (surface)

site boundary

PLANIMETRIC MAP SYMBOLS LEGEND (cont.)


riffle

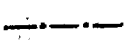

pool


spring

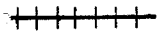
high water

o o o o low water

water's edge


dewatered channel

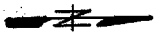

bridge

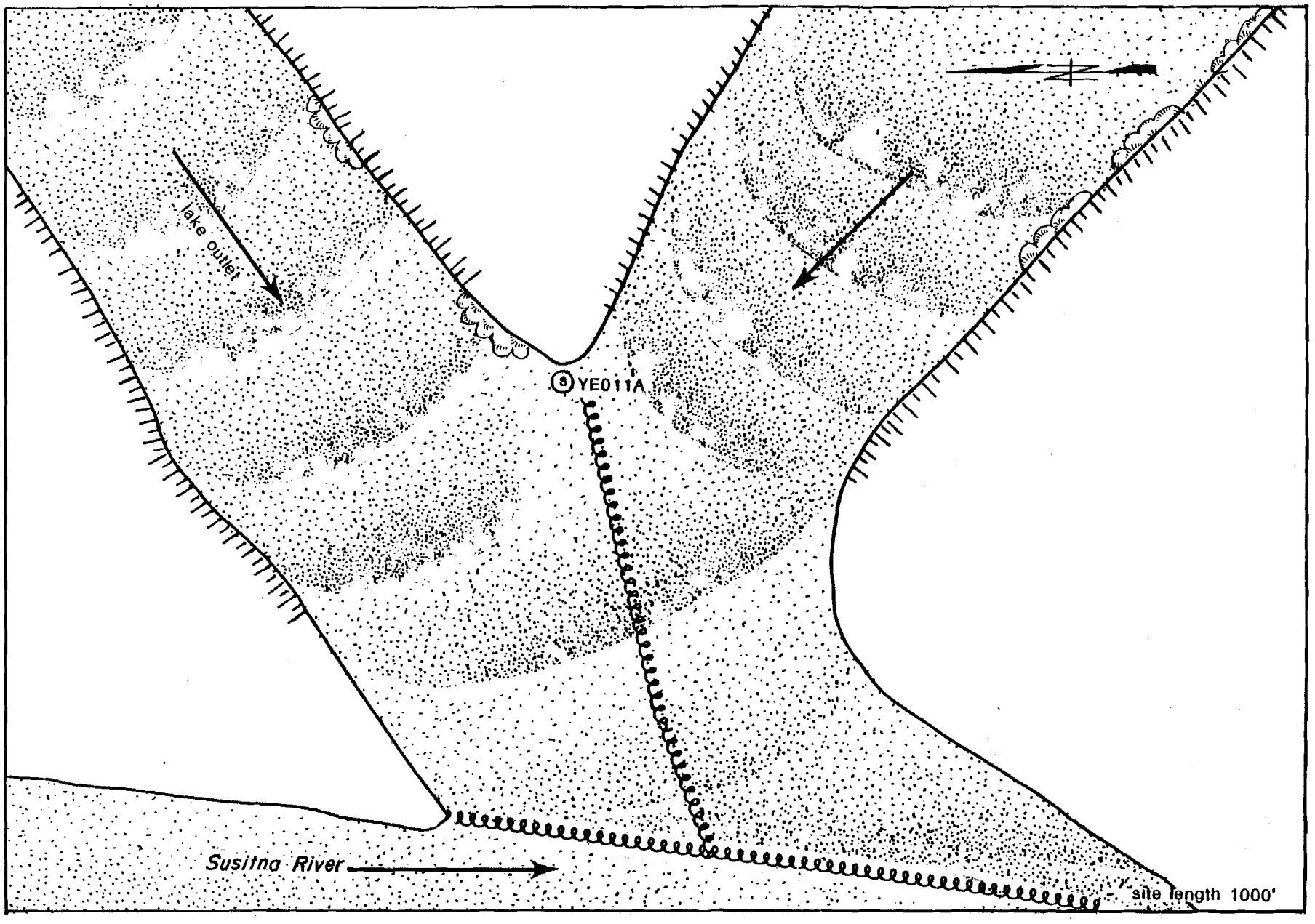

railroad


river mile


TBM (ADF&G)


LRX (R&M)


true north



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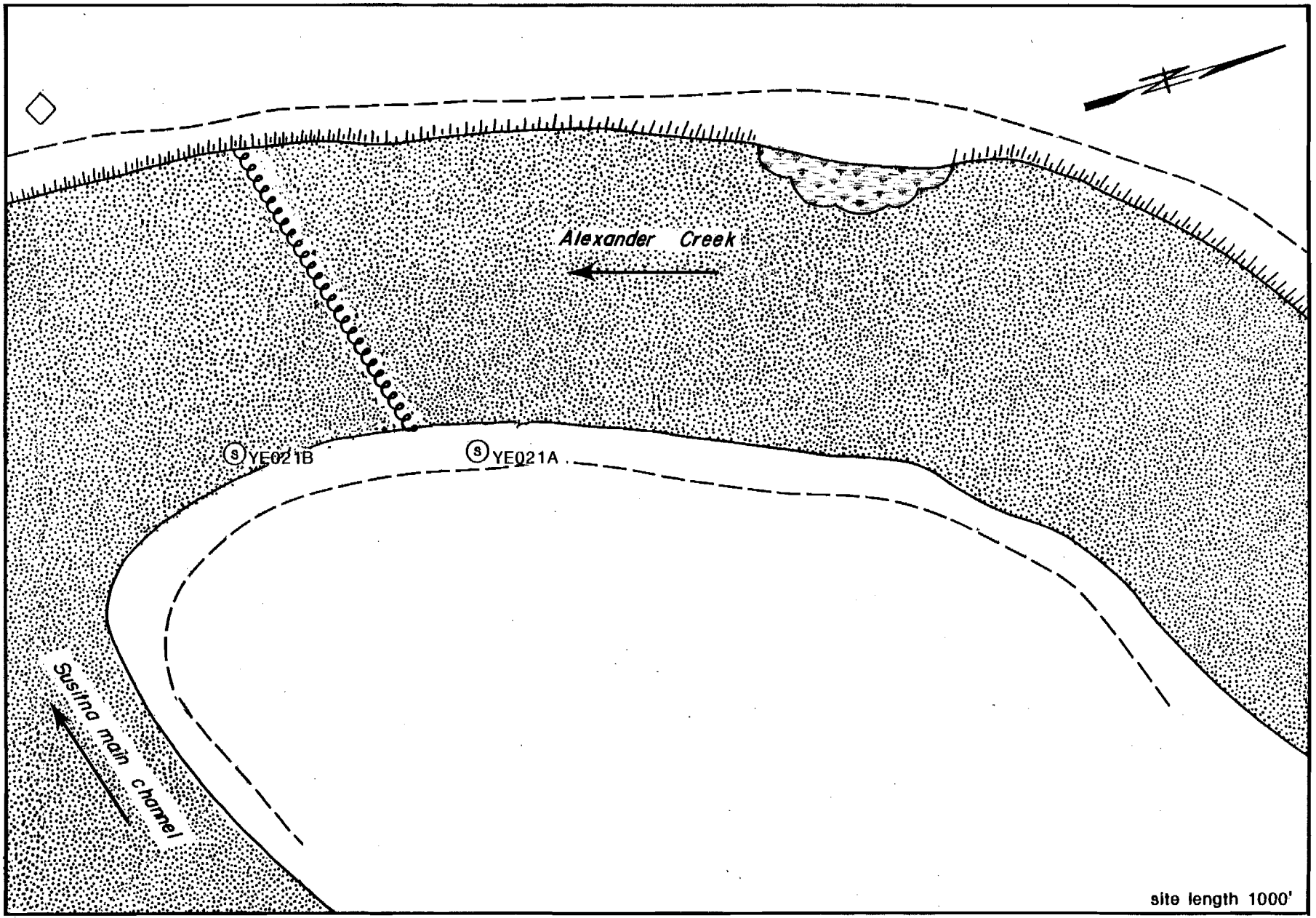

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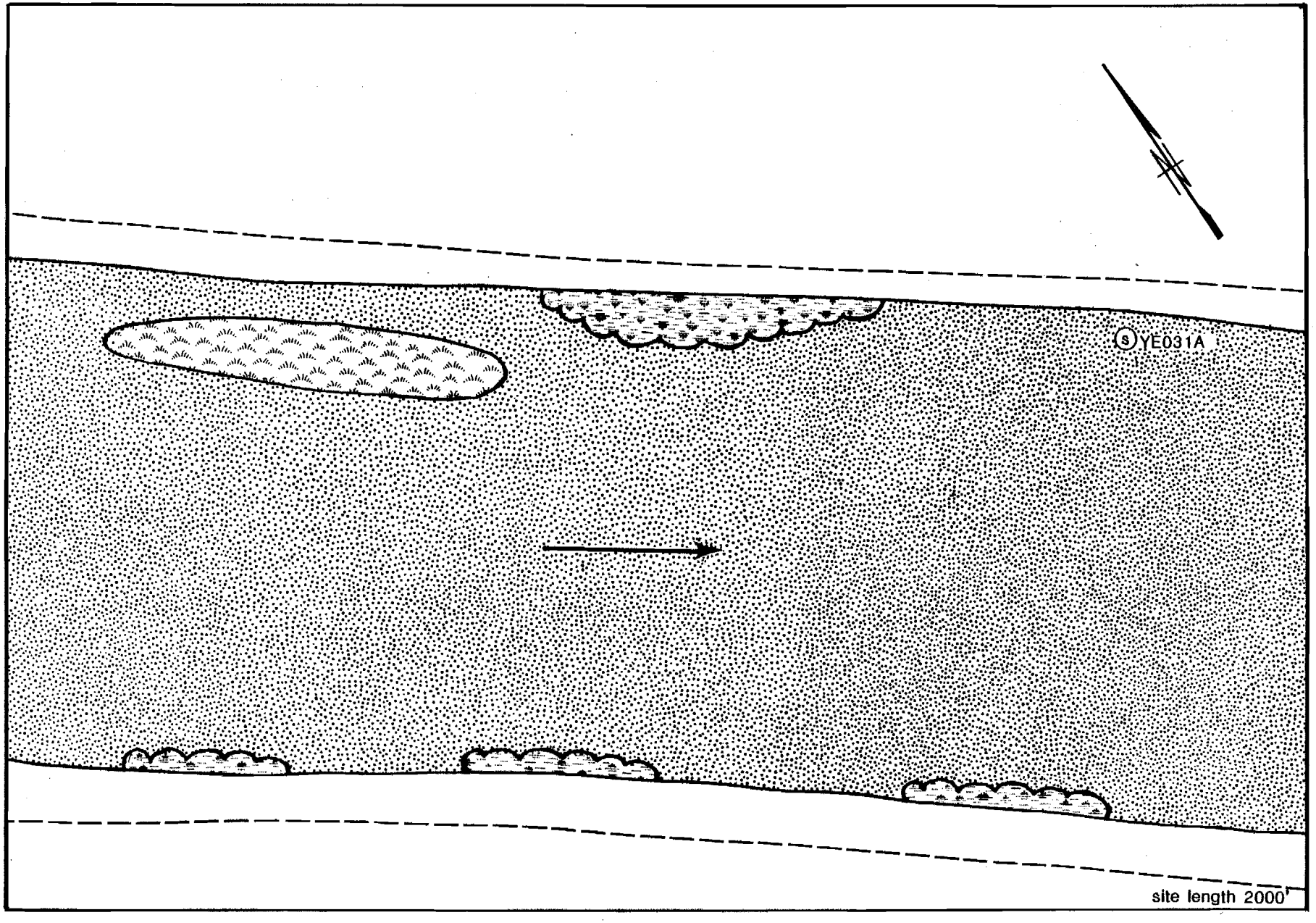

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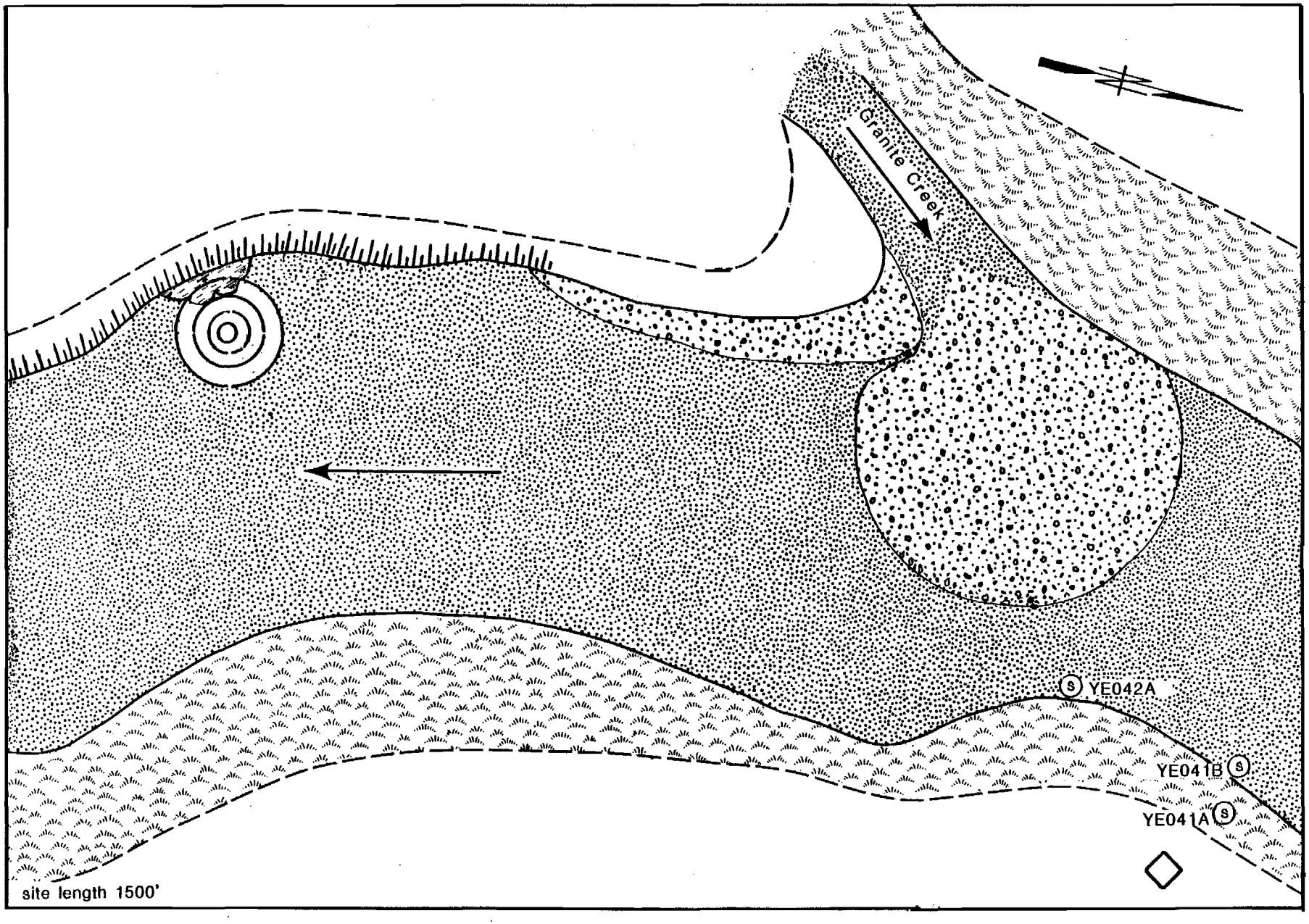

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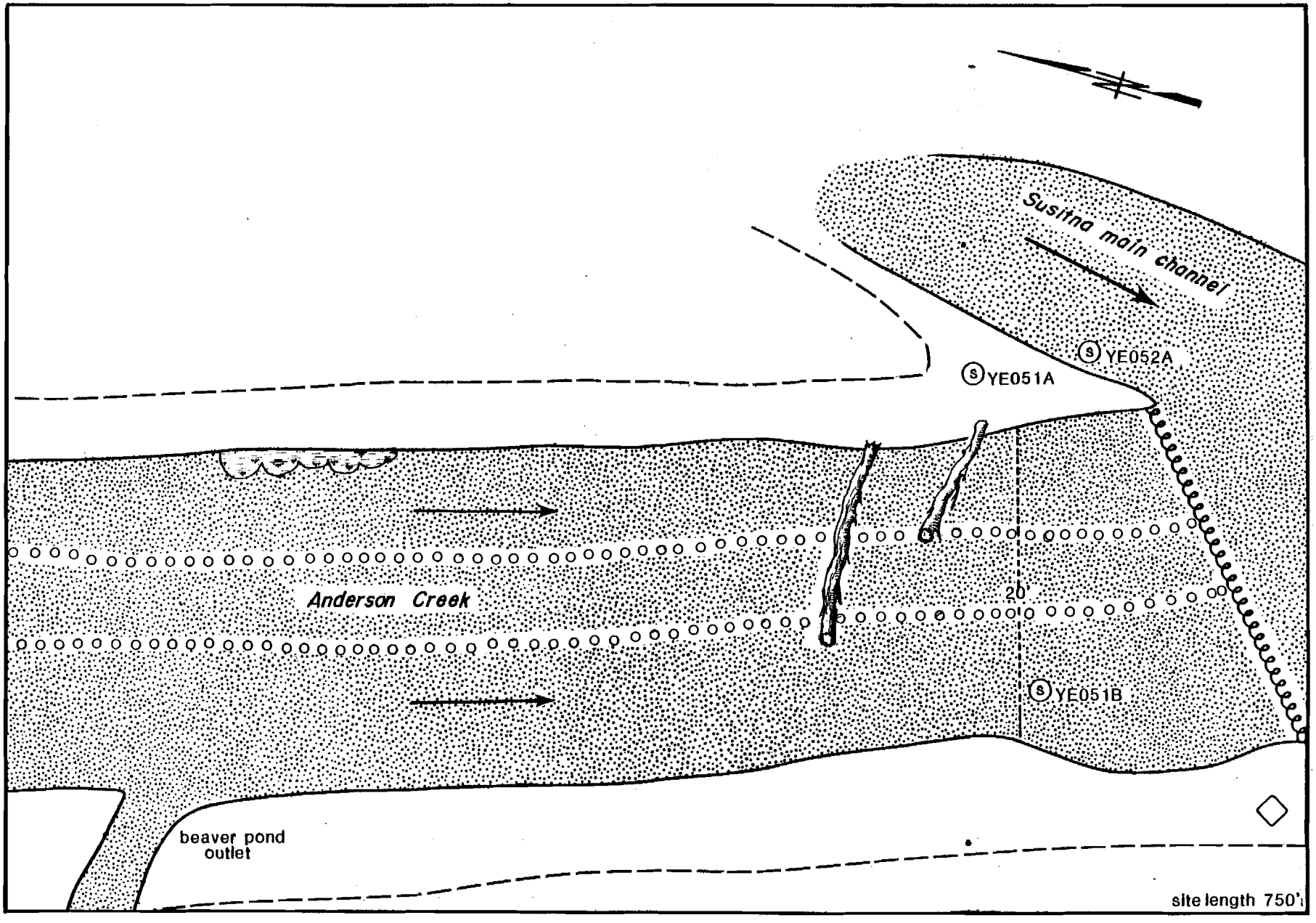

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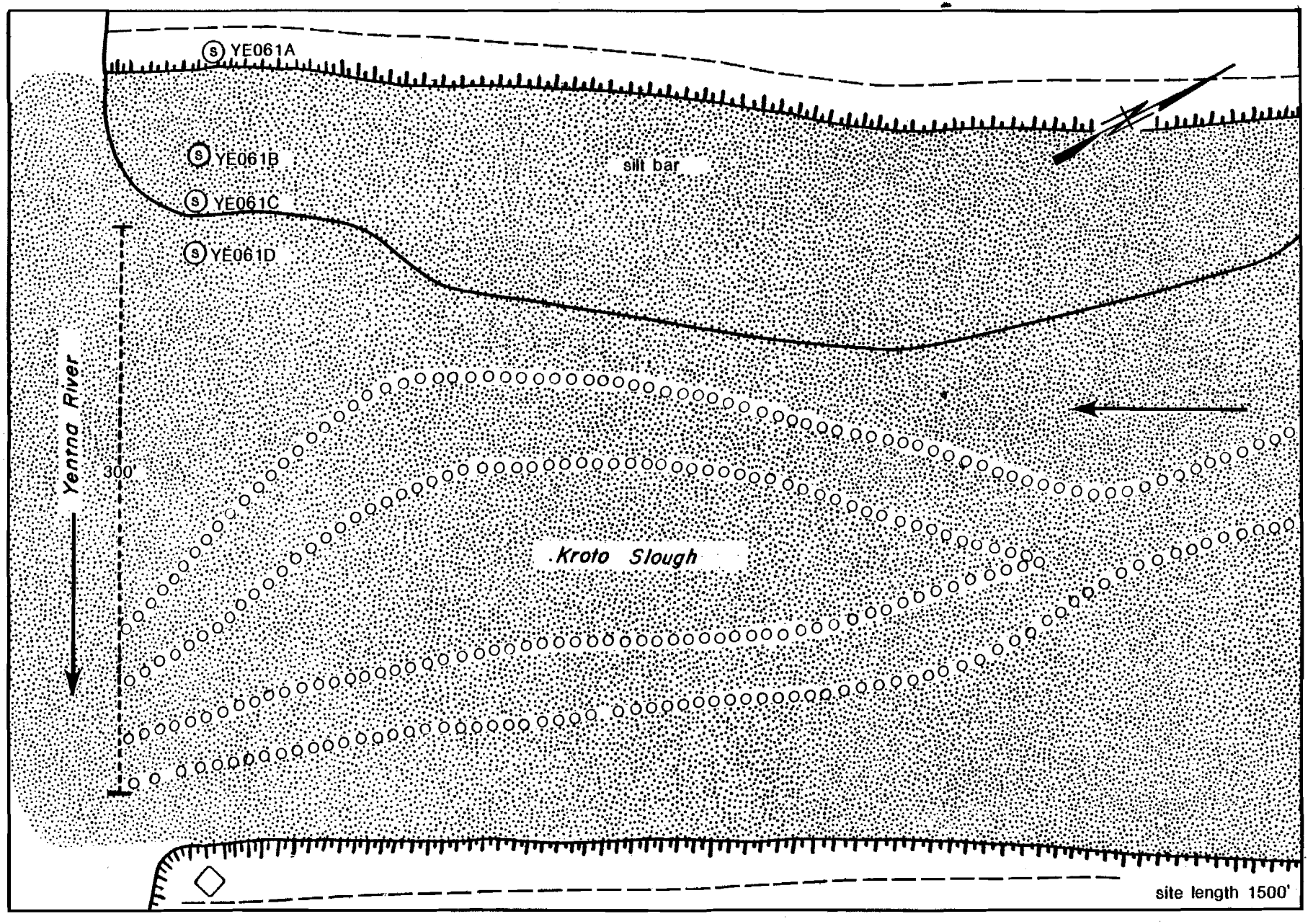

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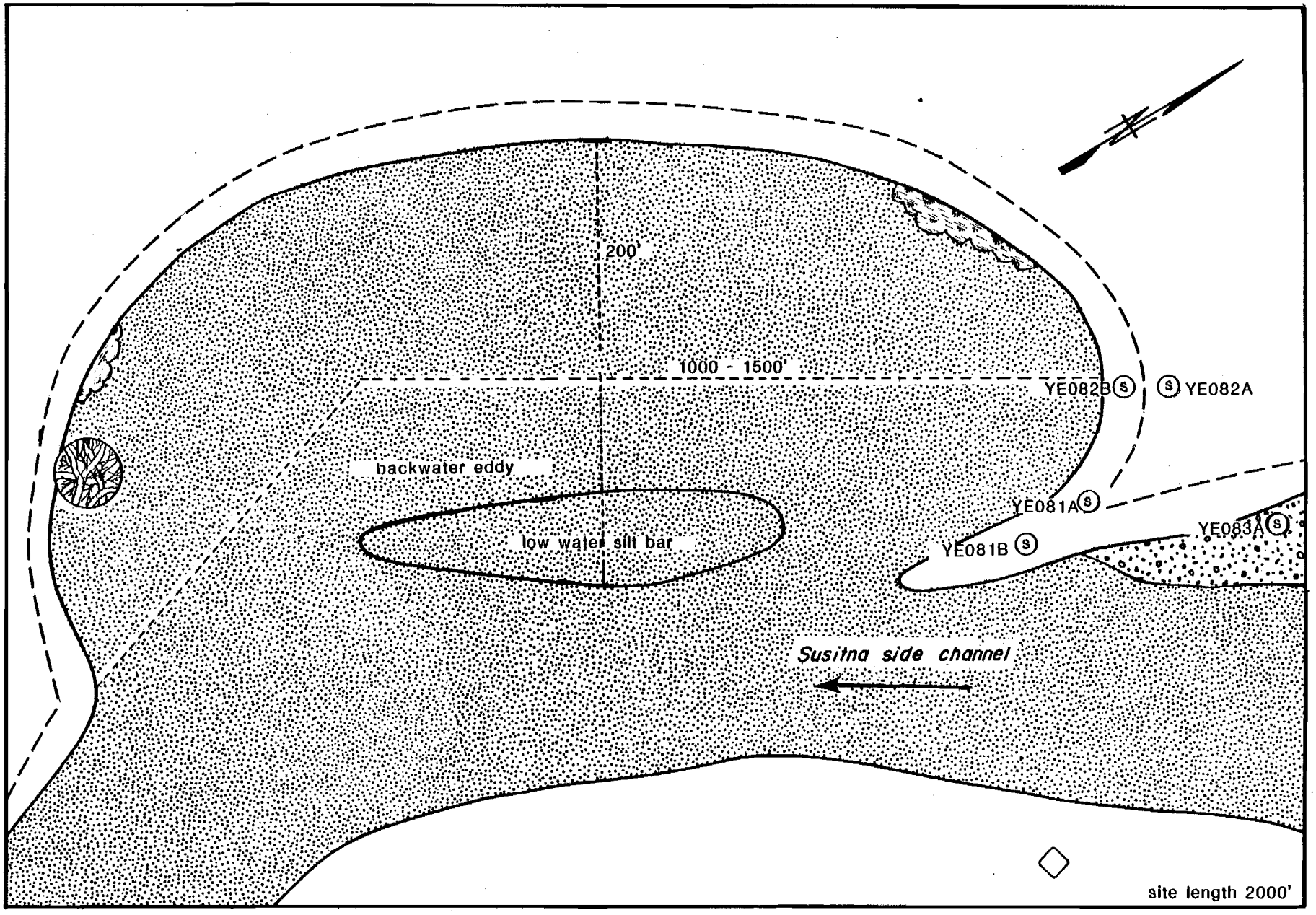

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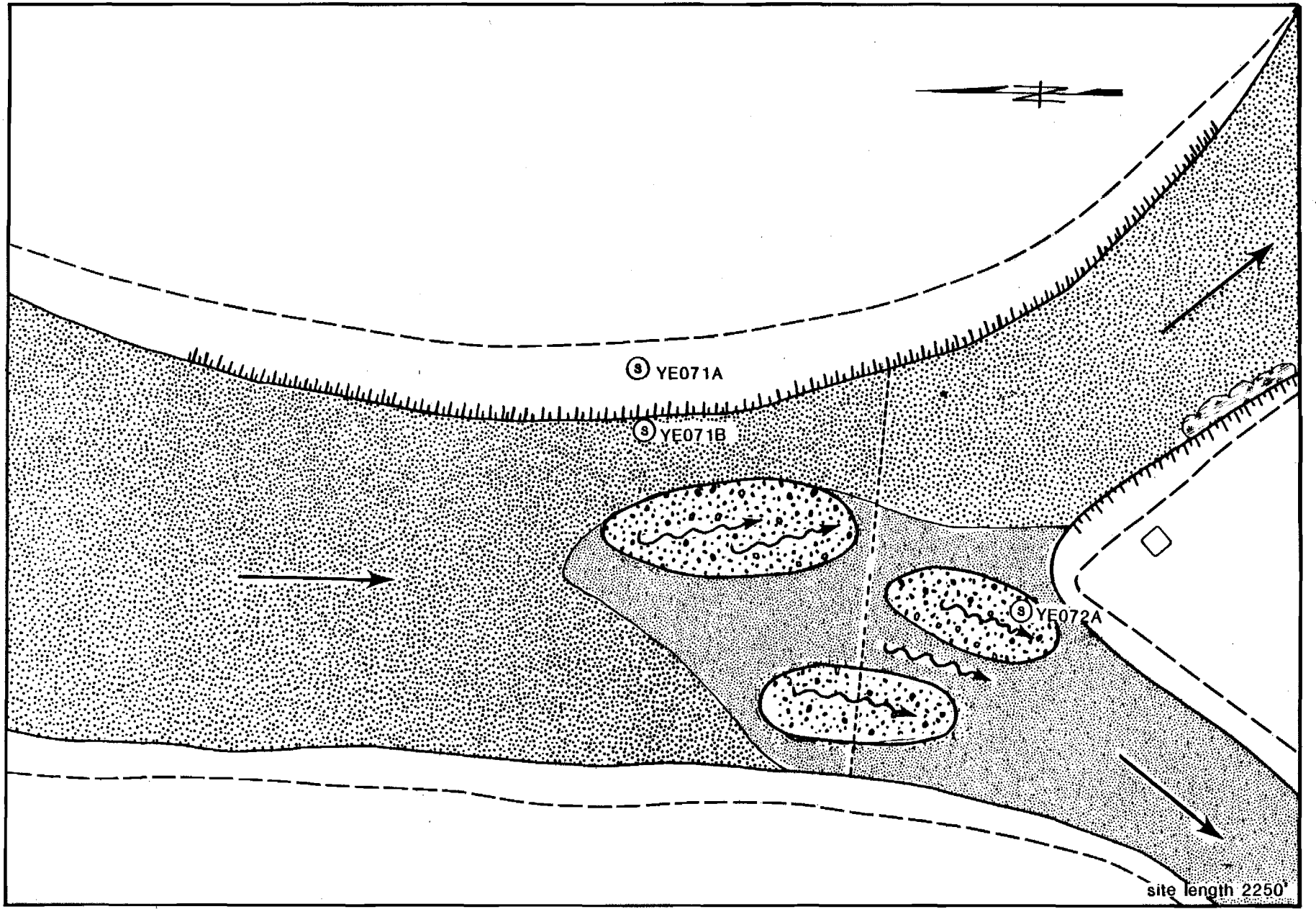

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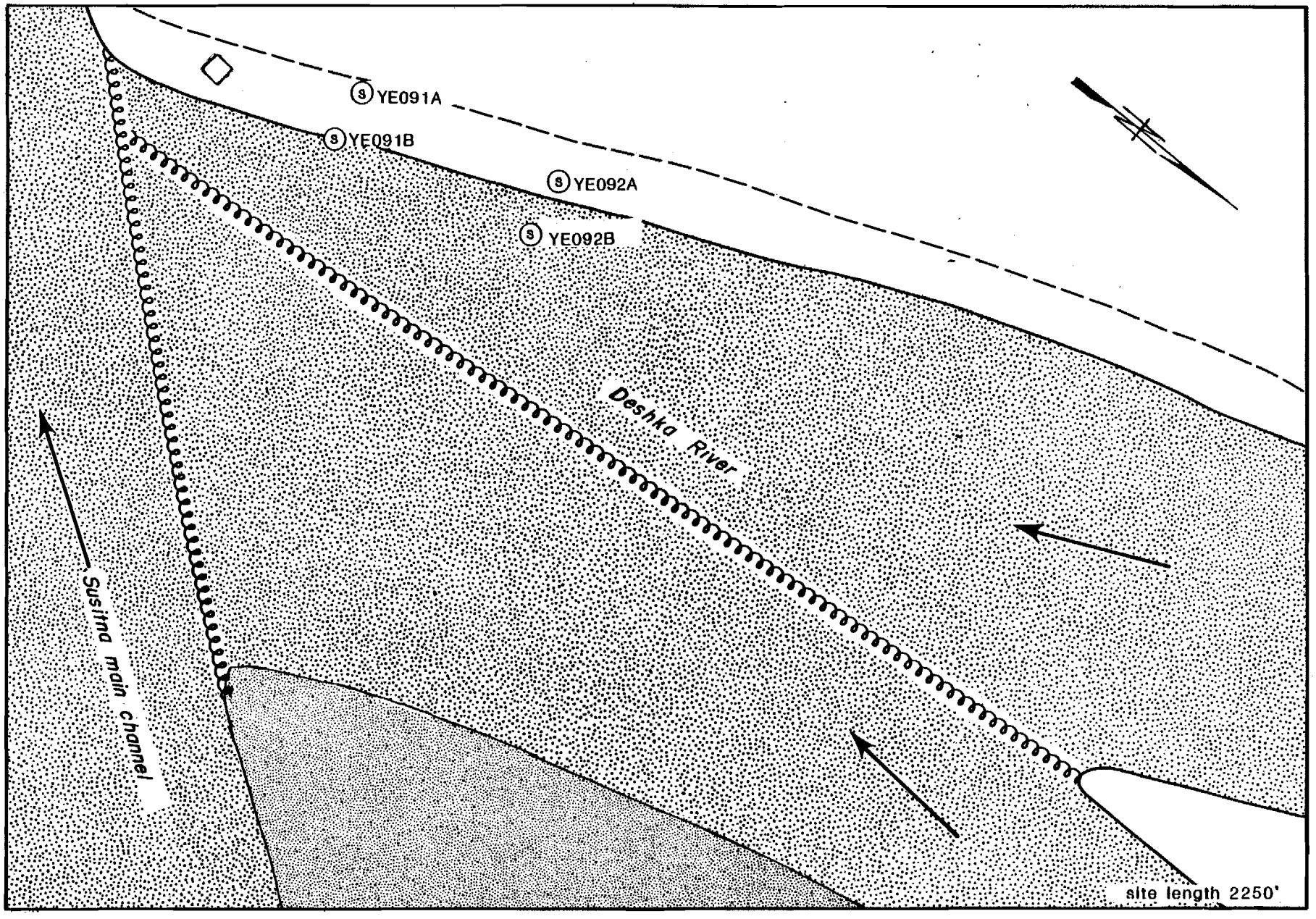

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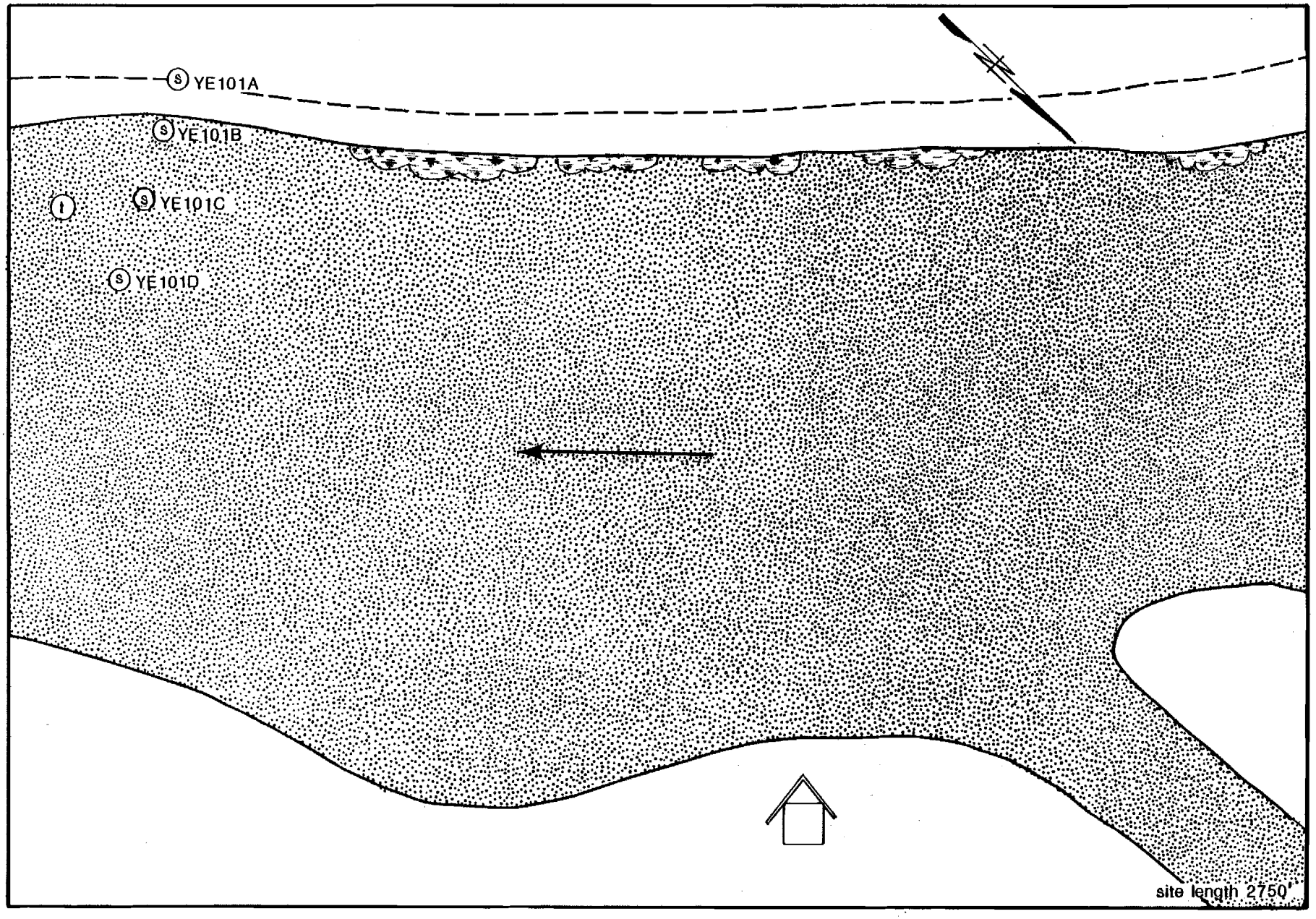

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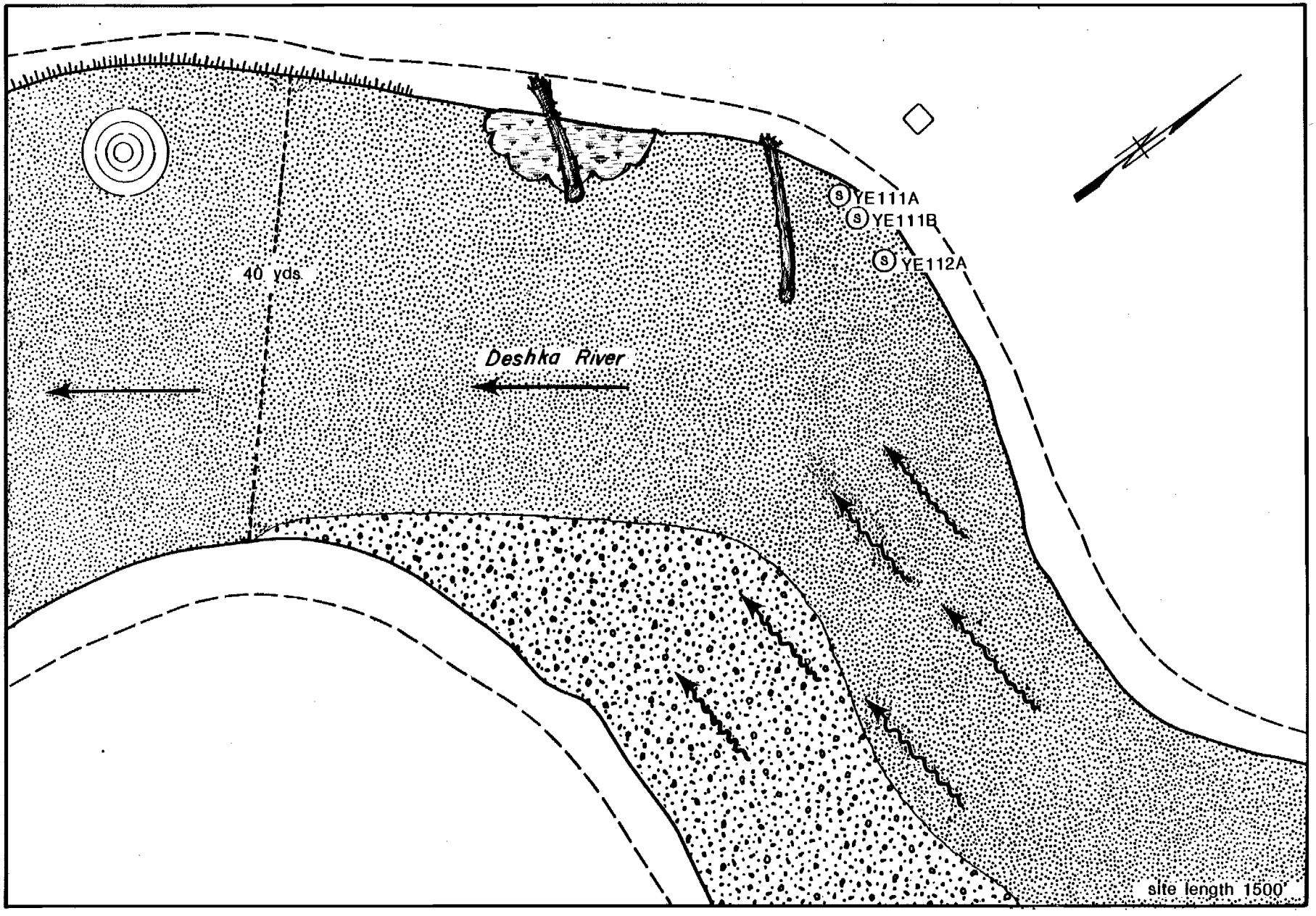

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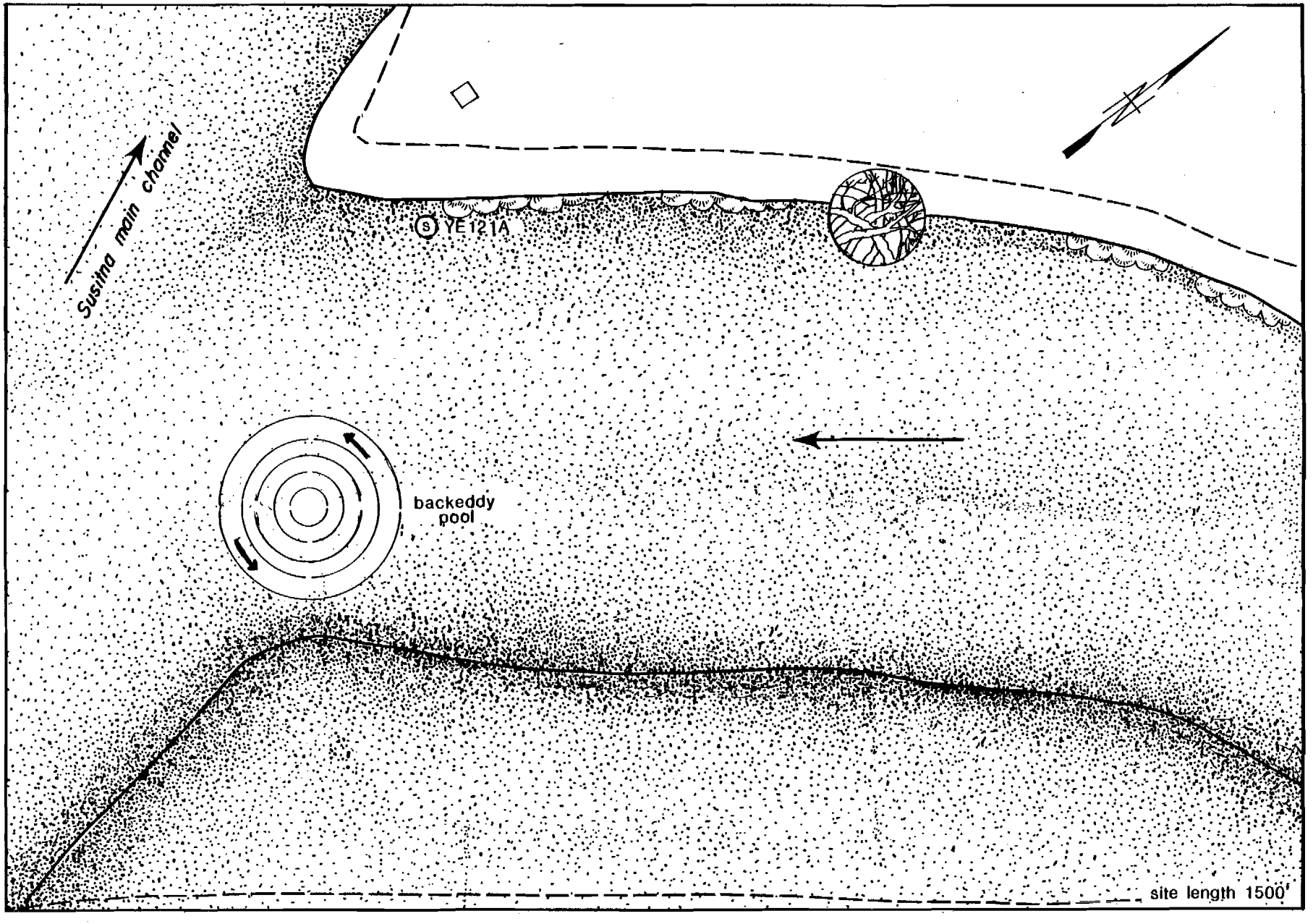

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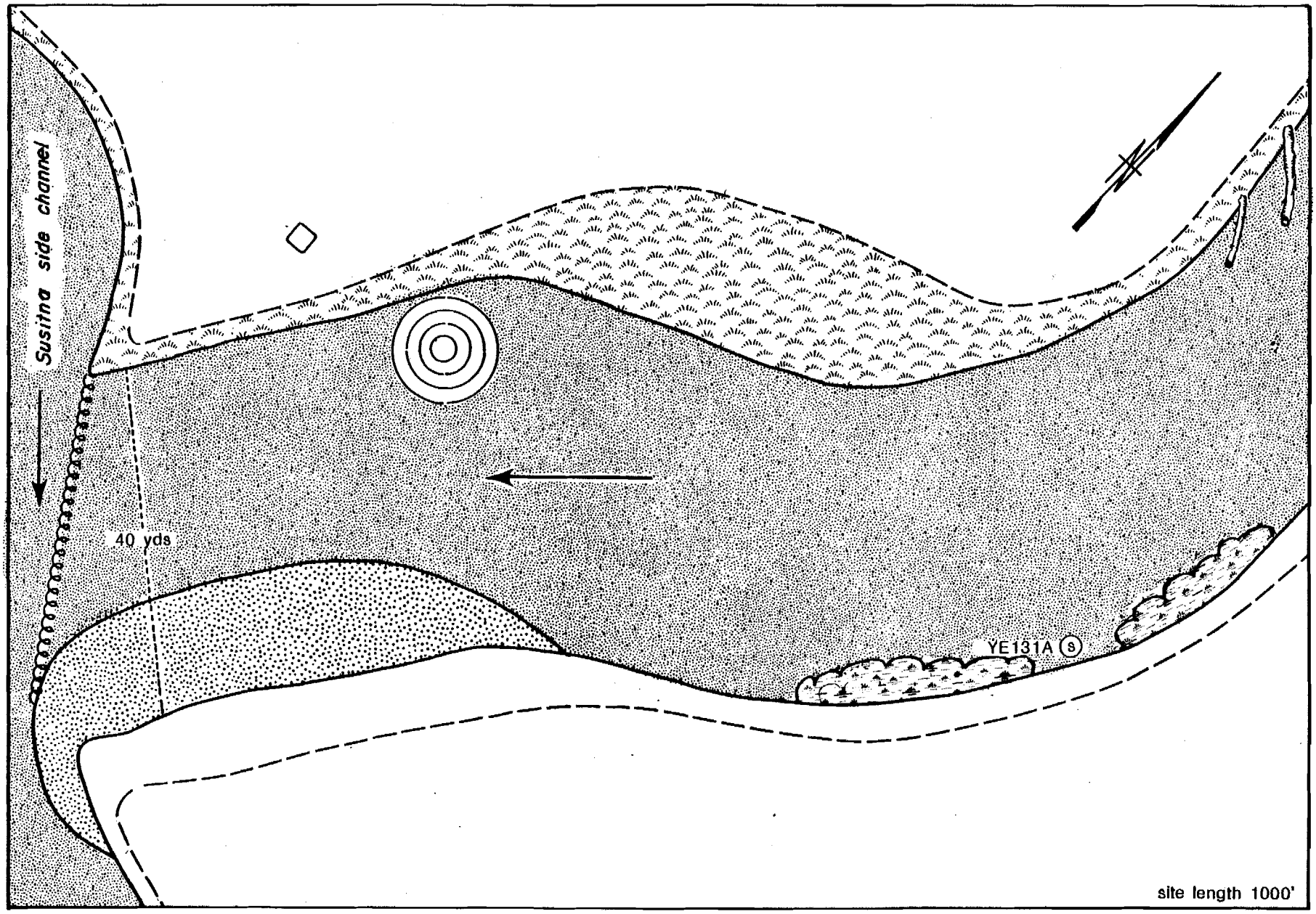

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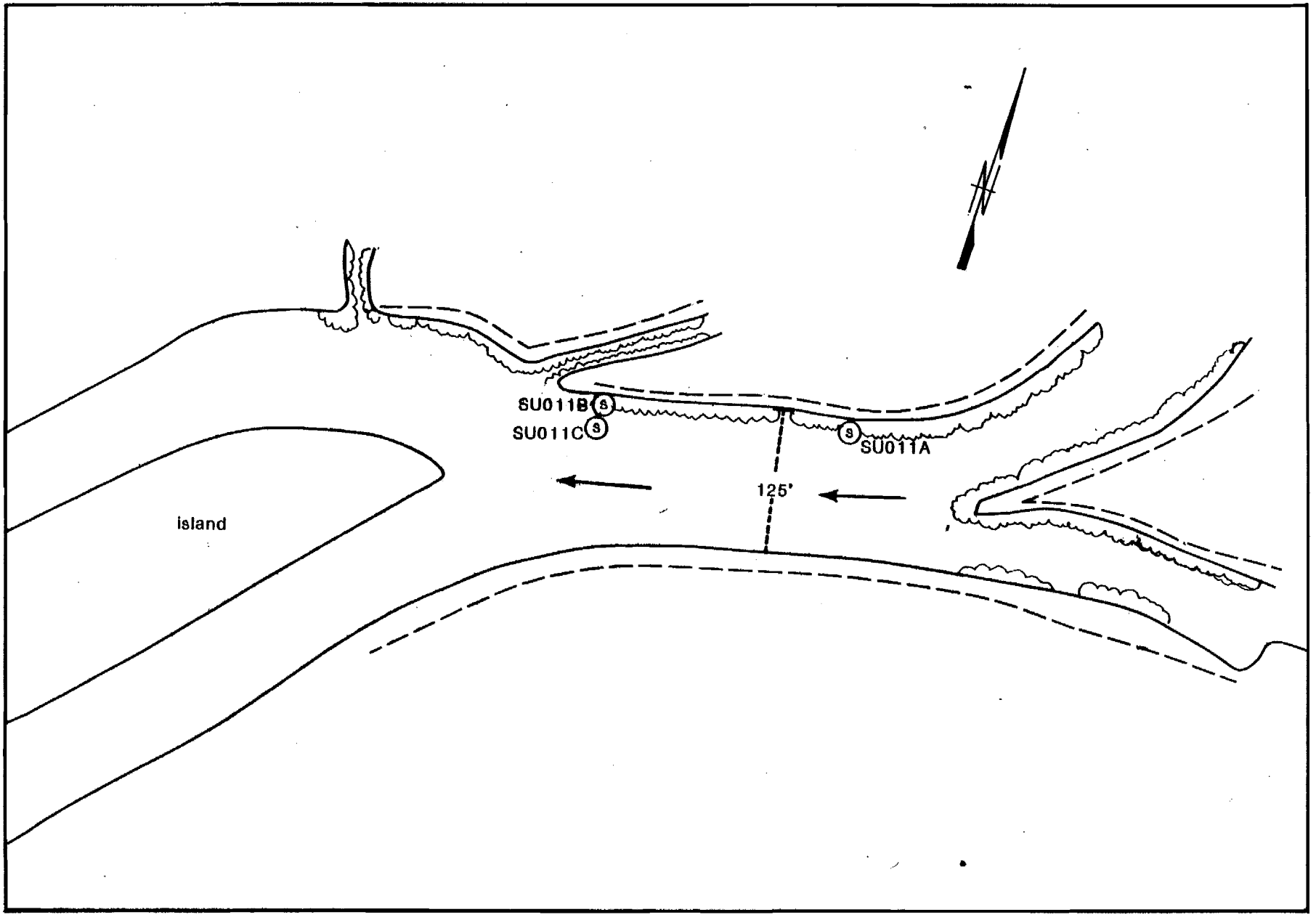

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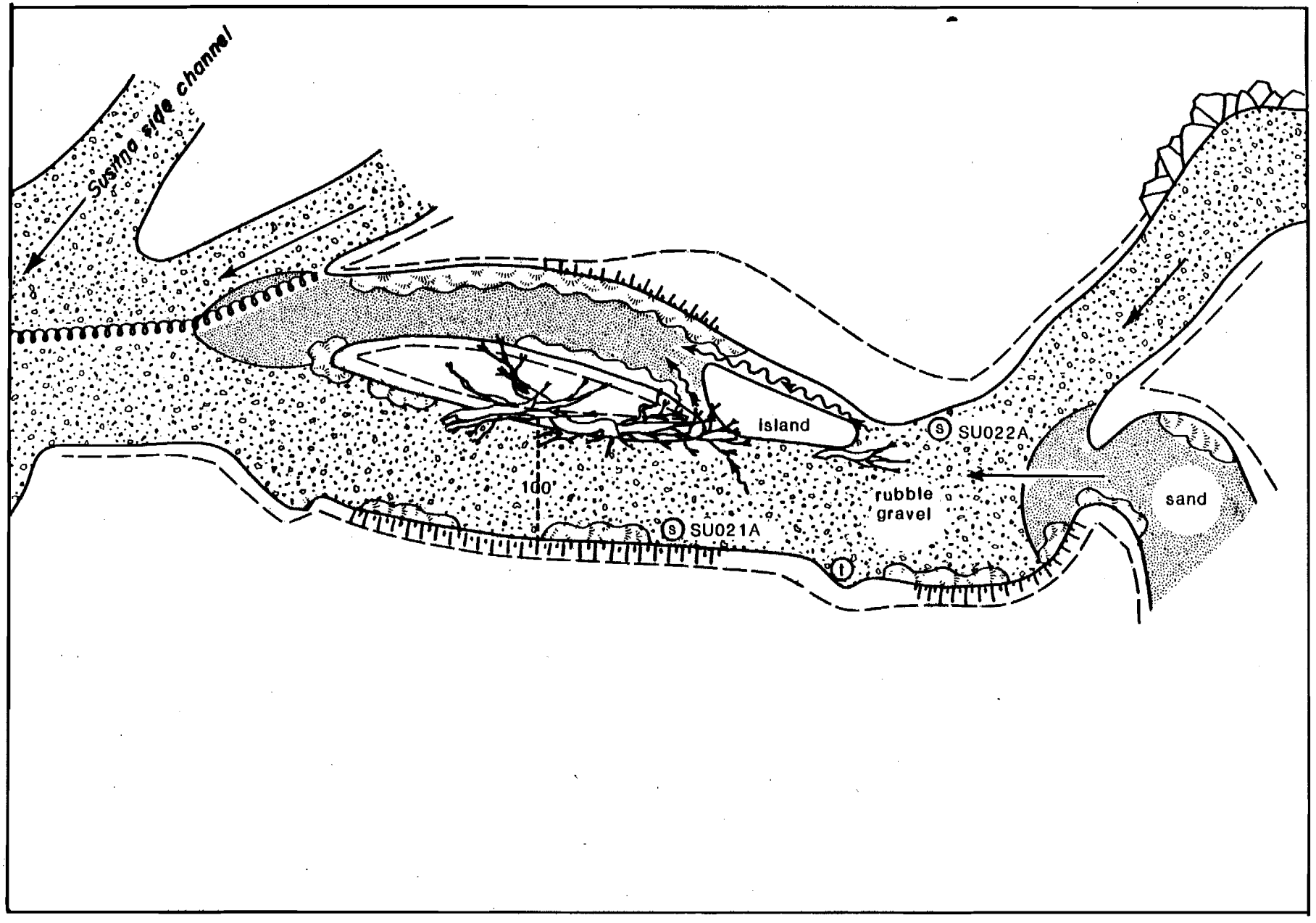

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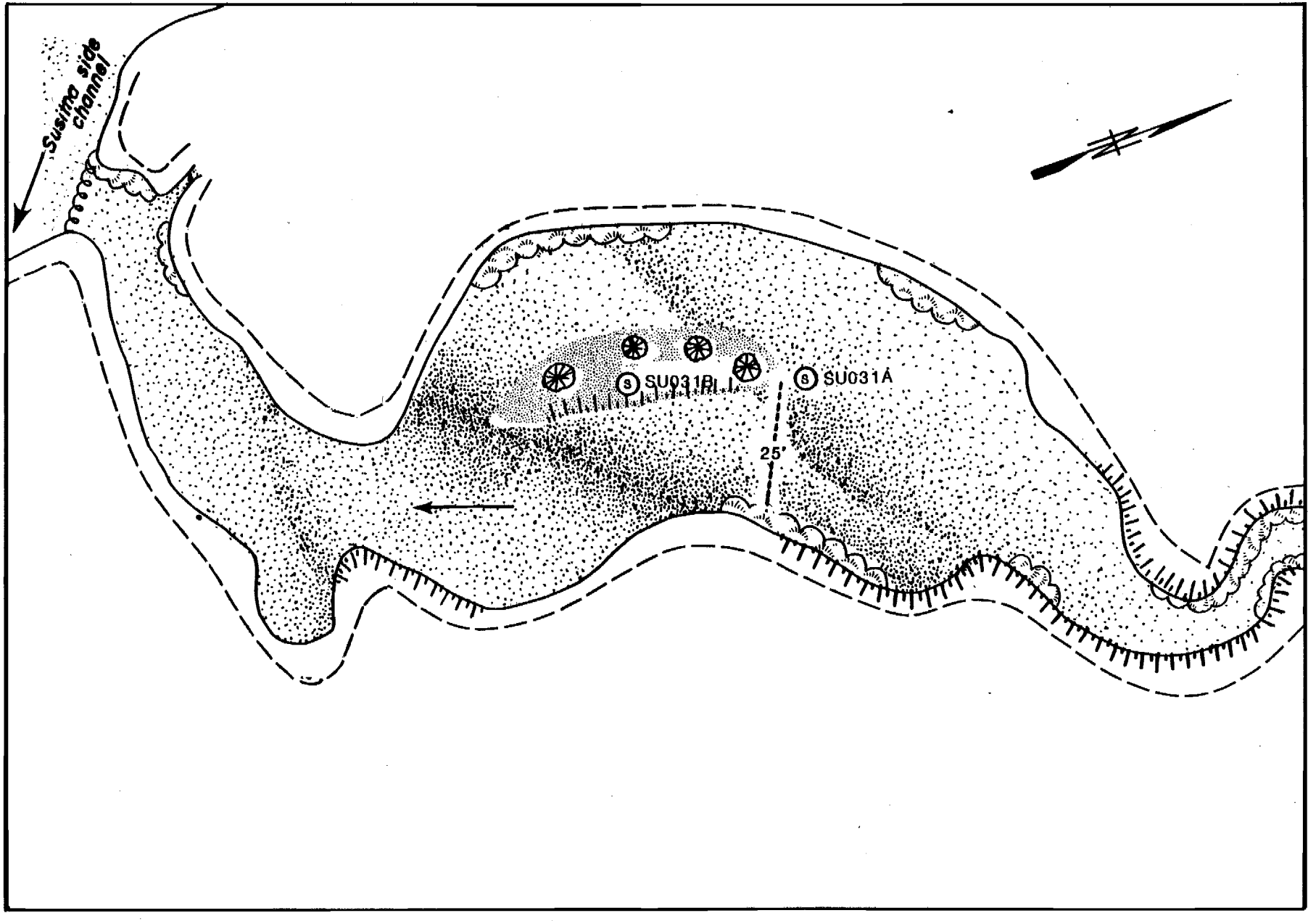

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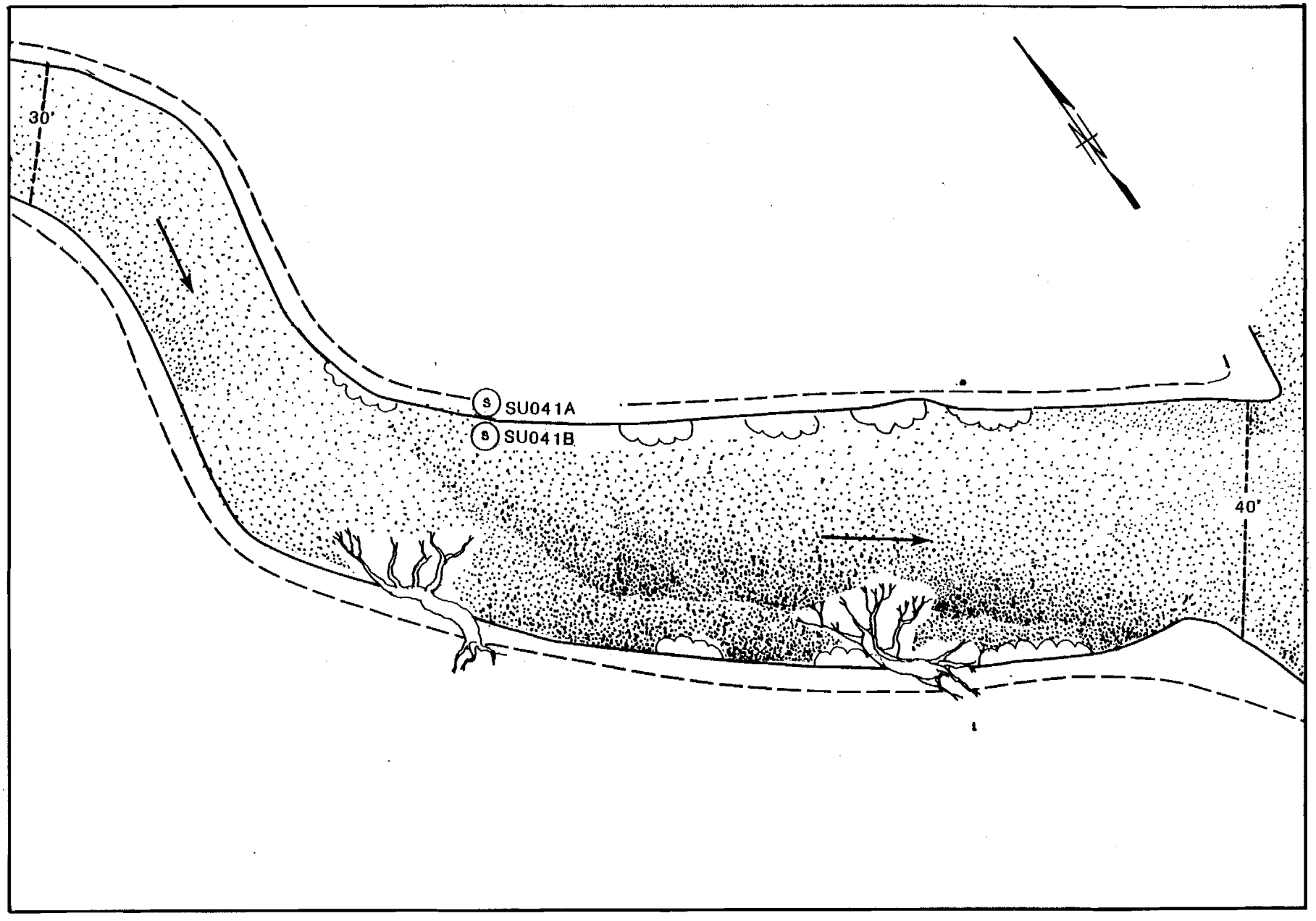

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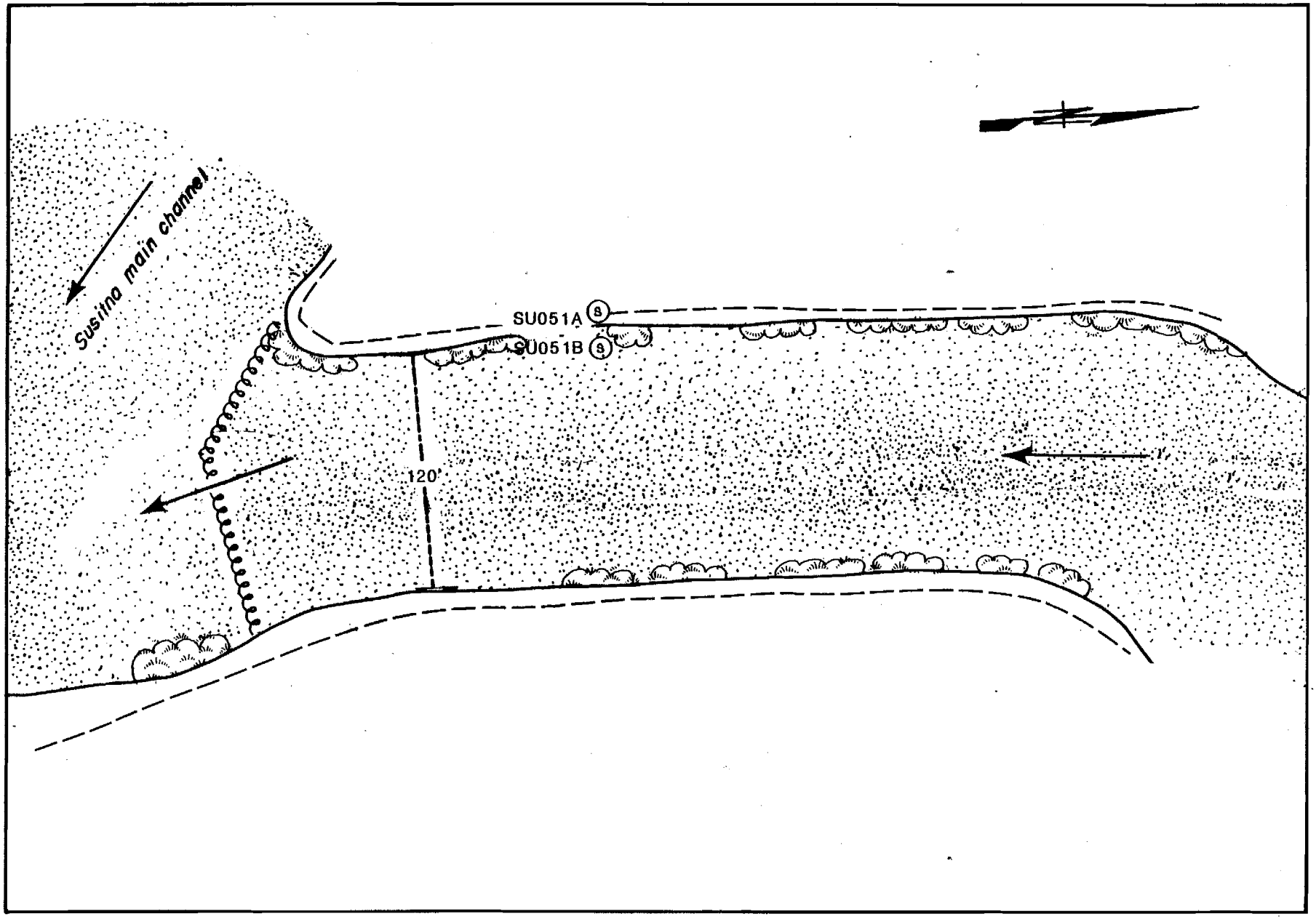

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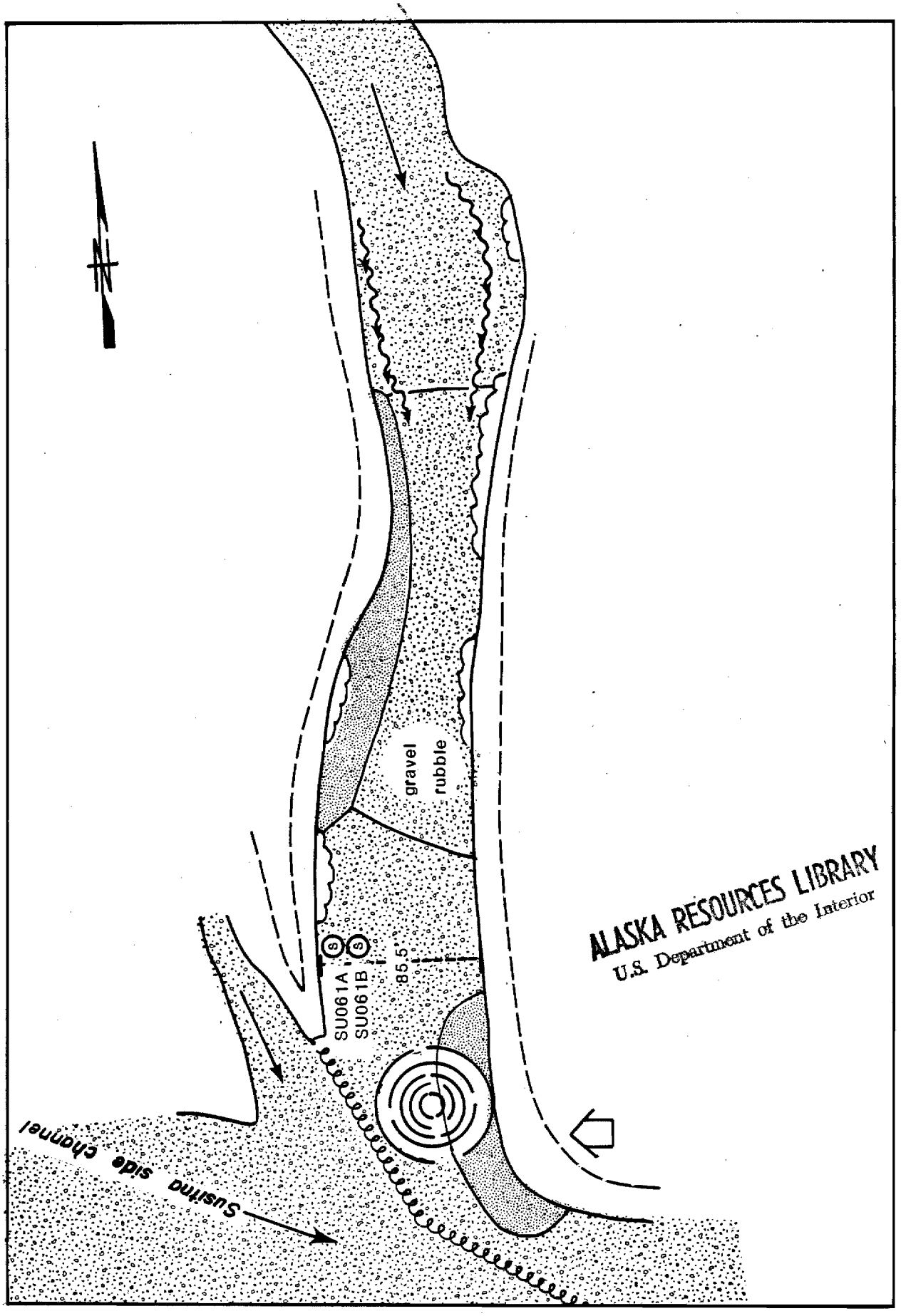

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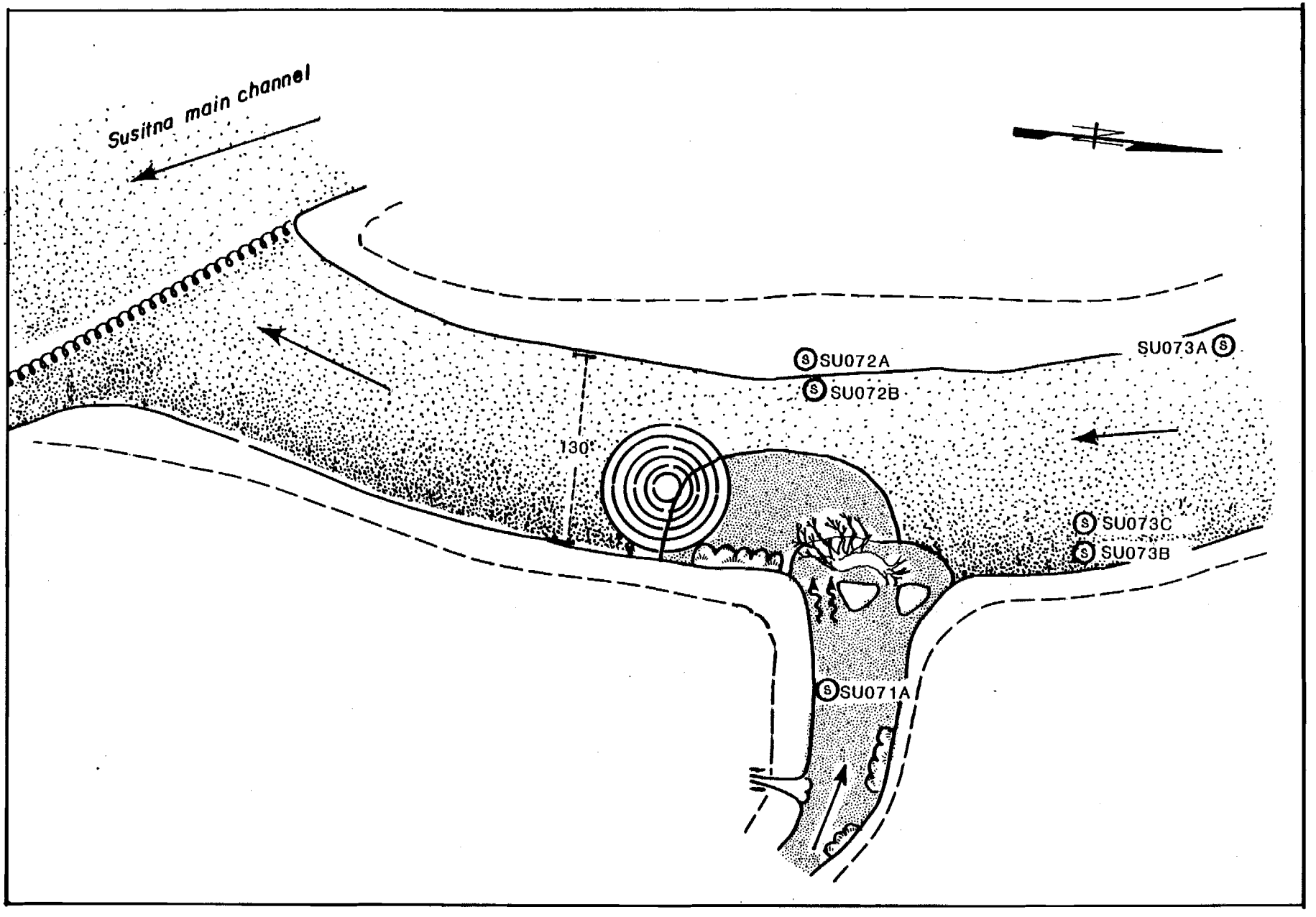

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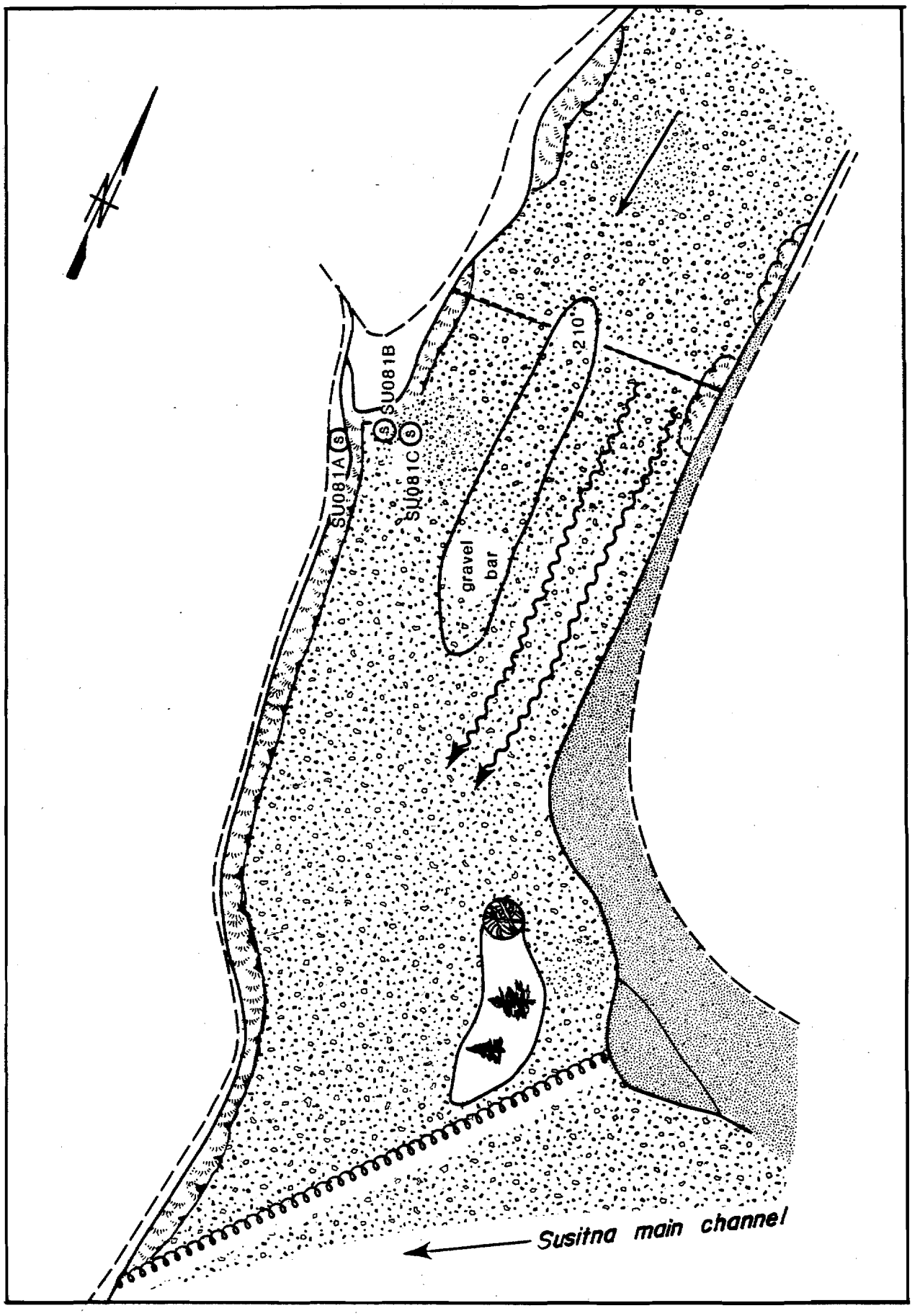

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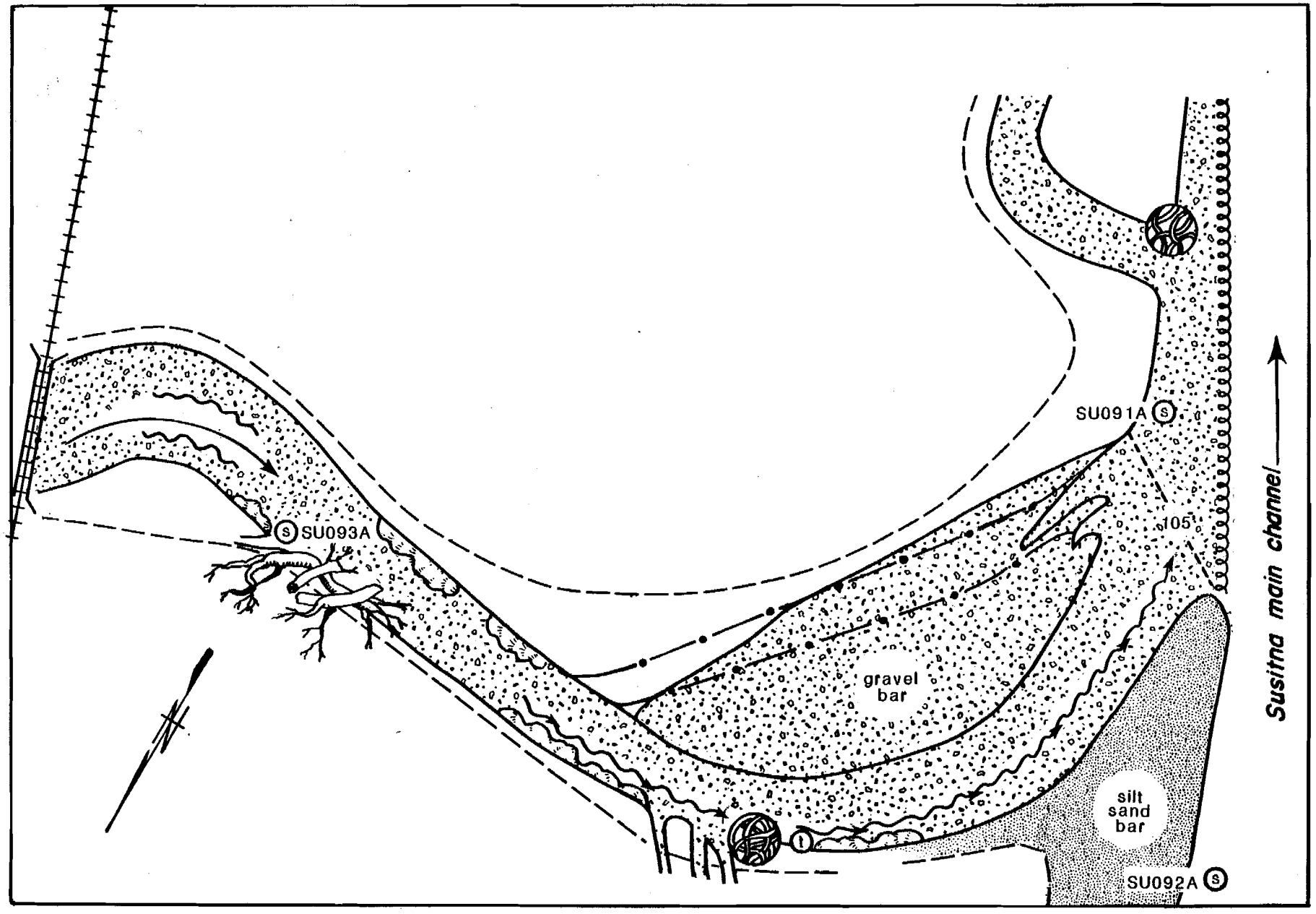

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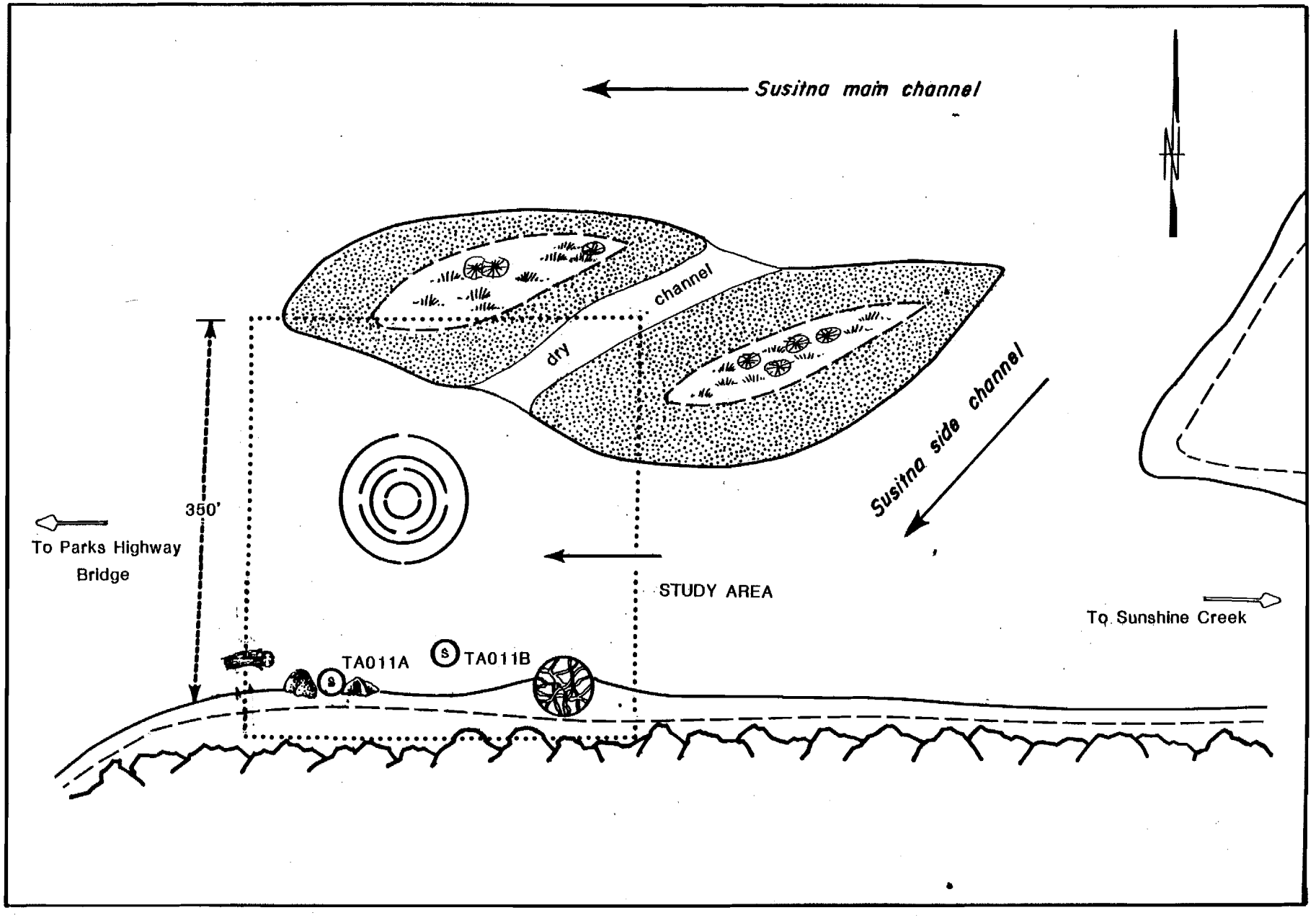

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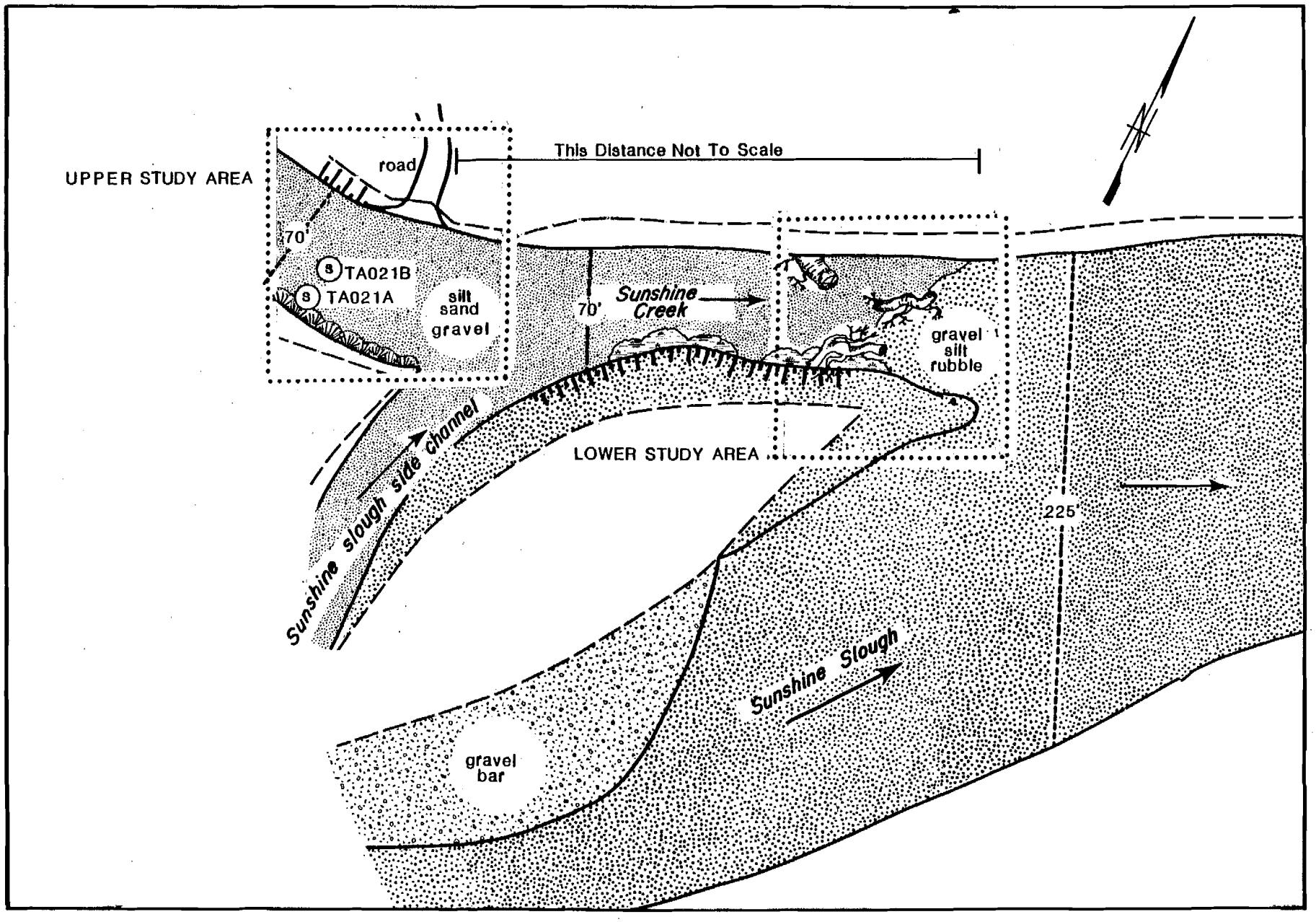

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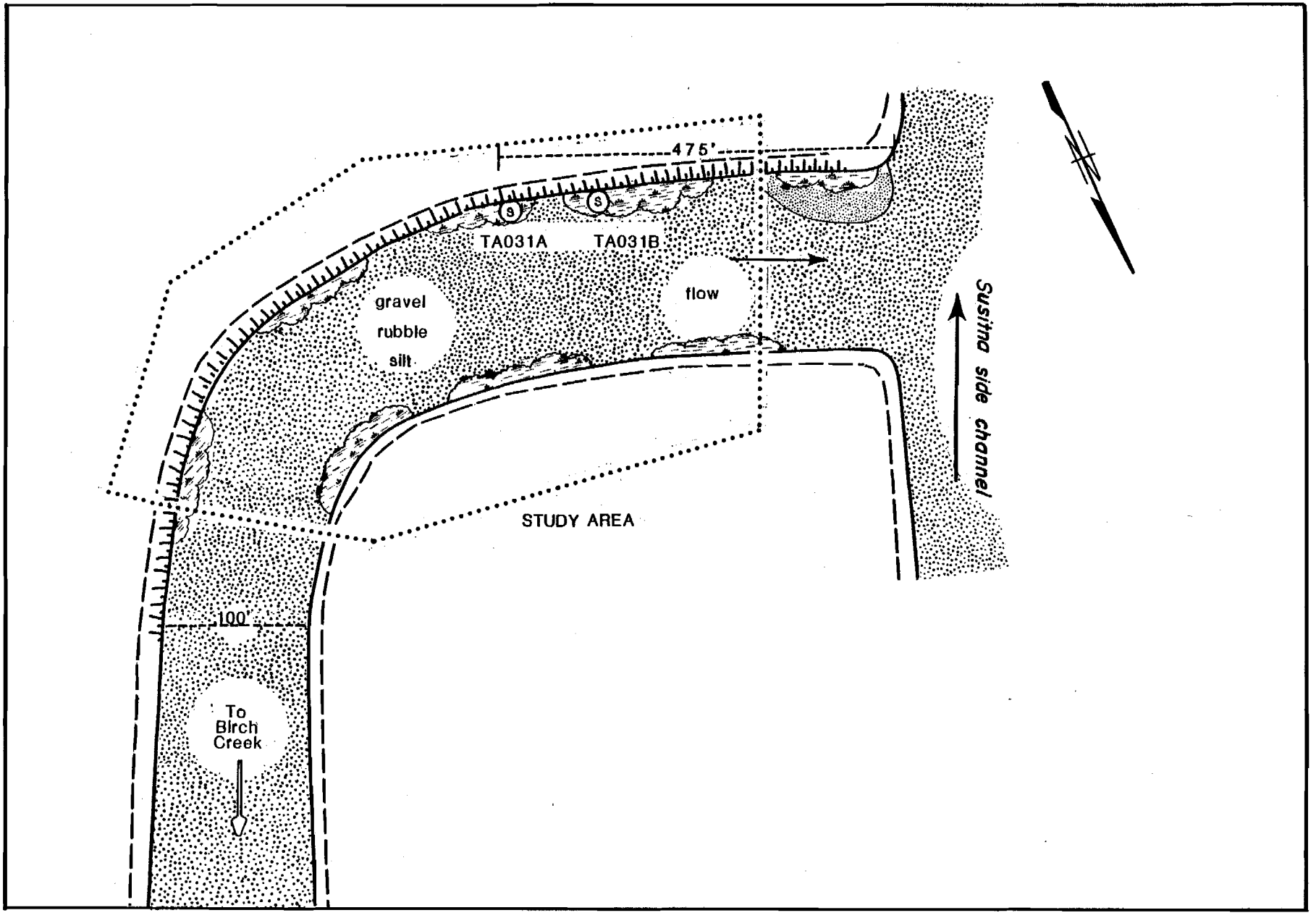

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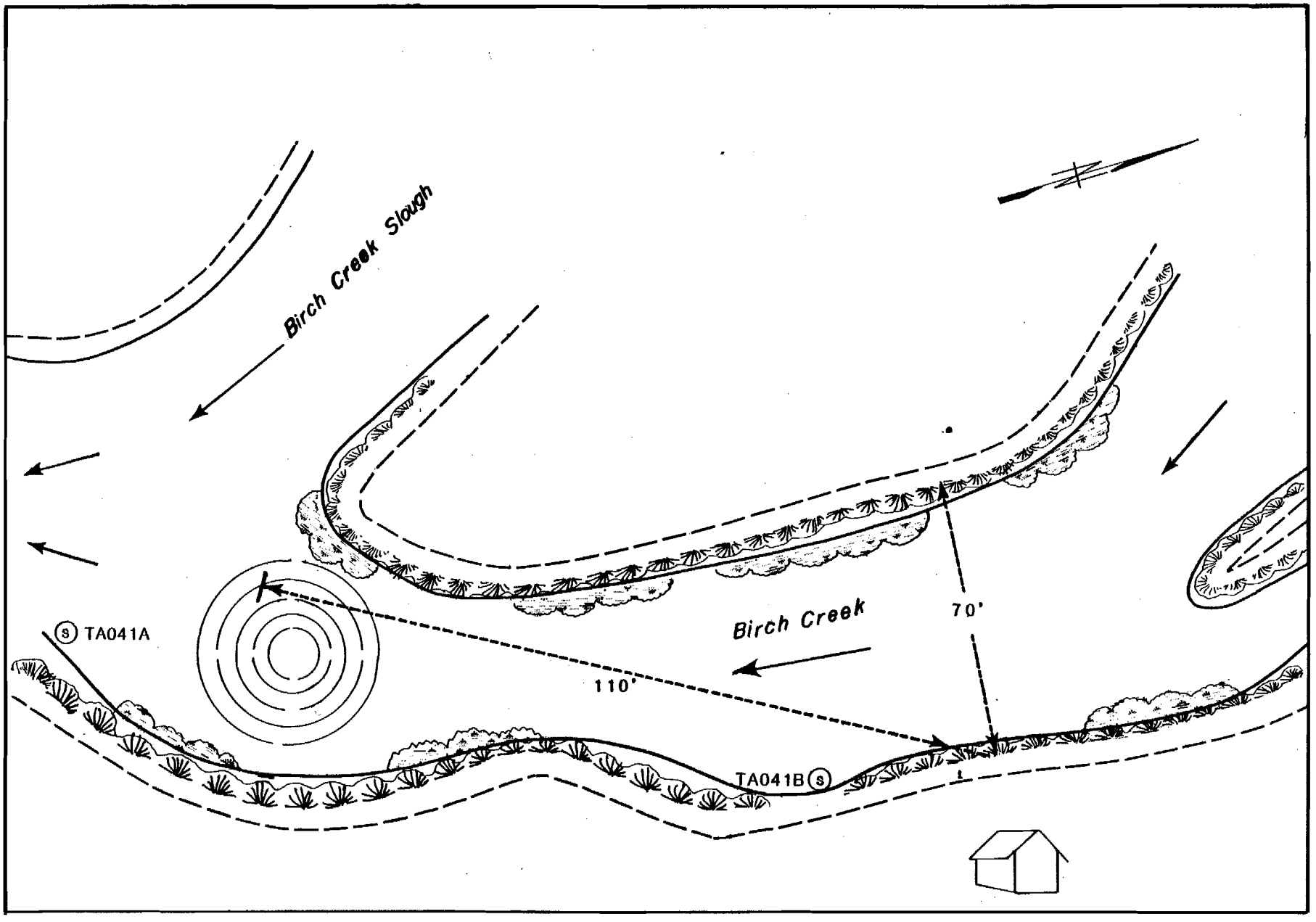

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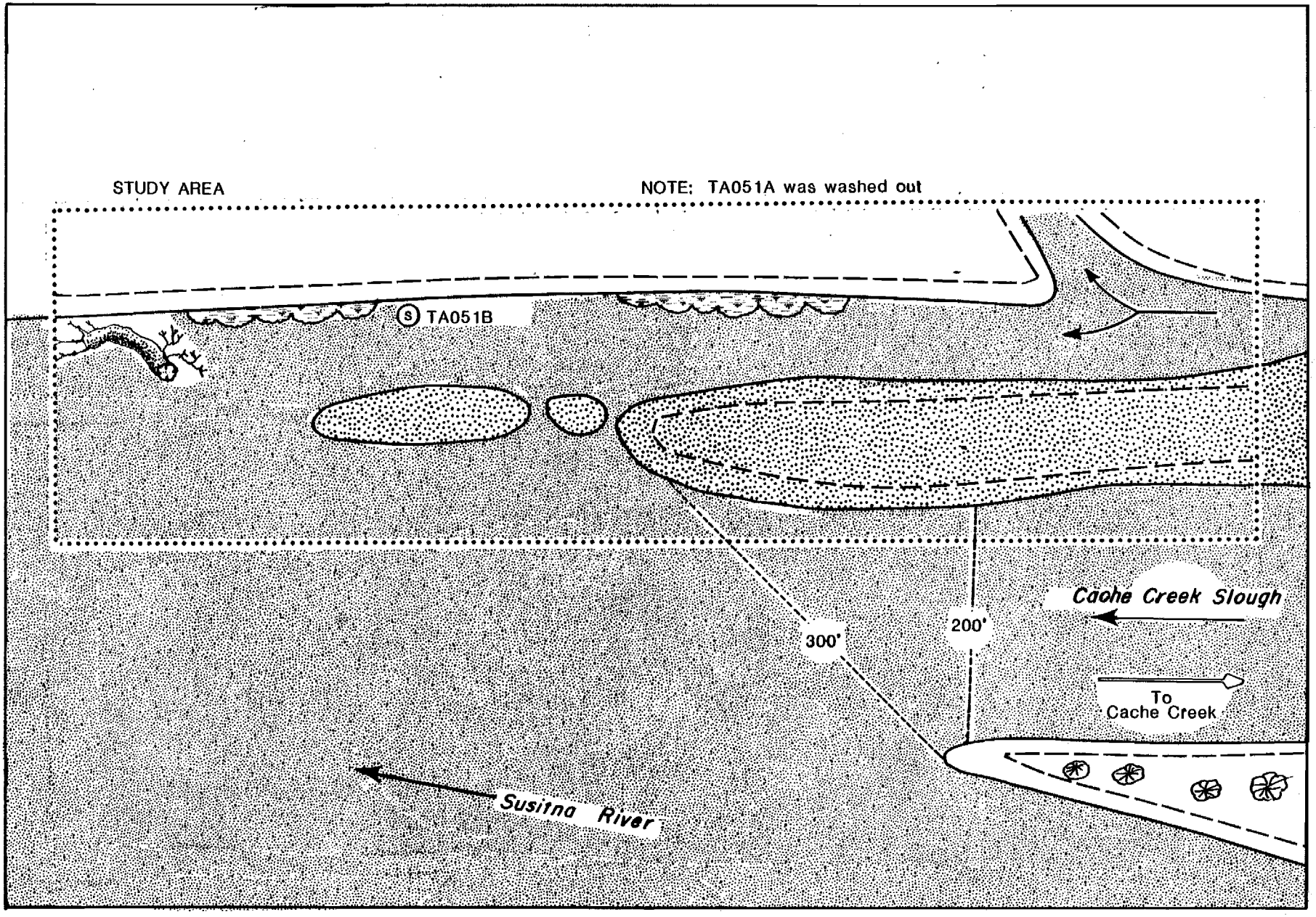

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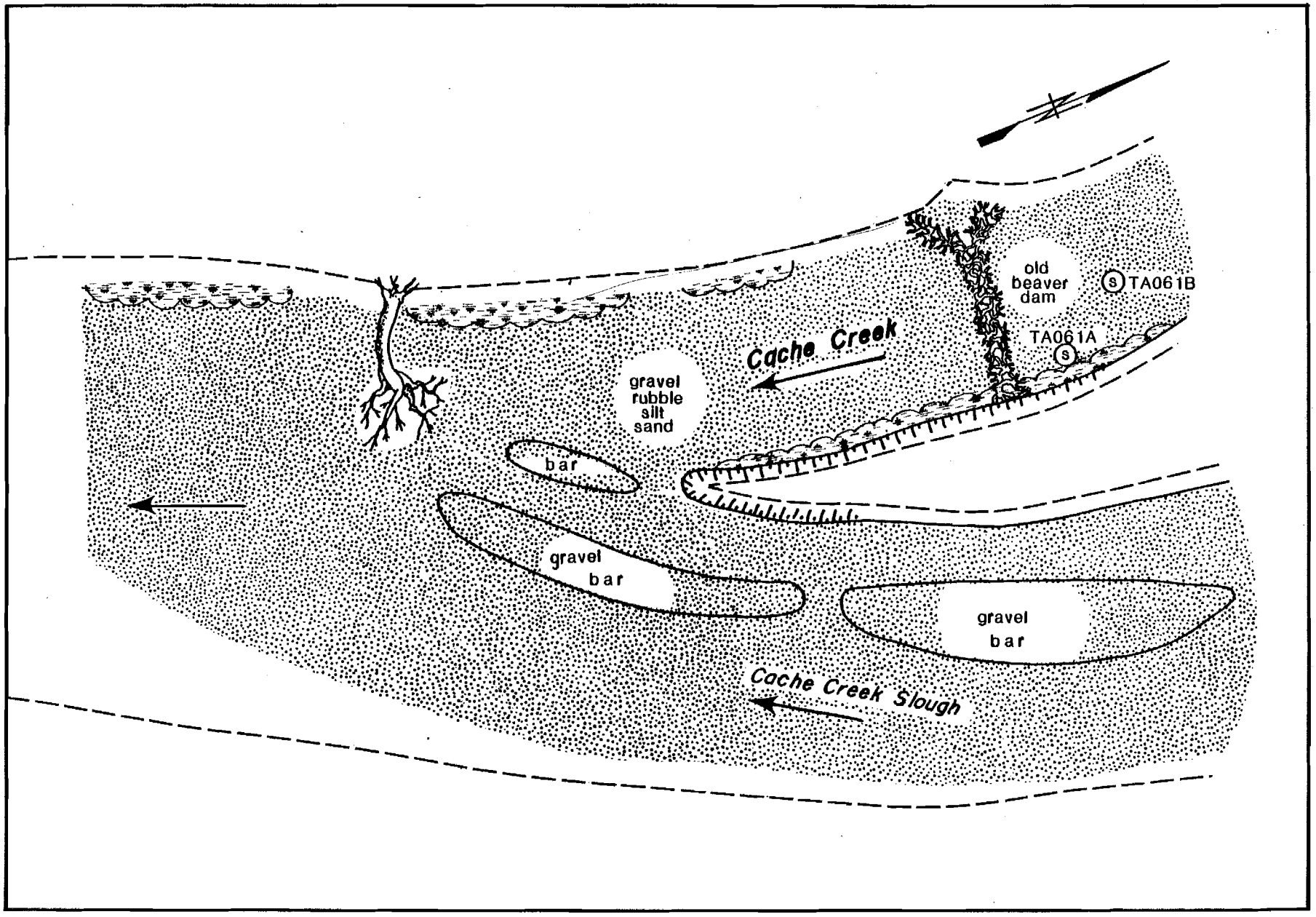

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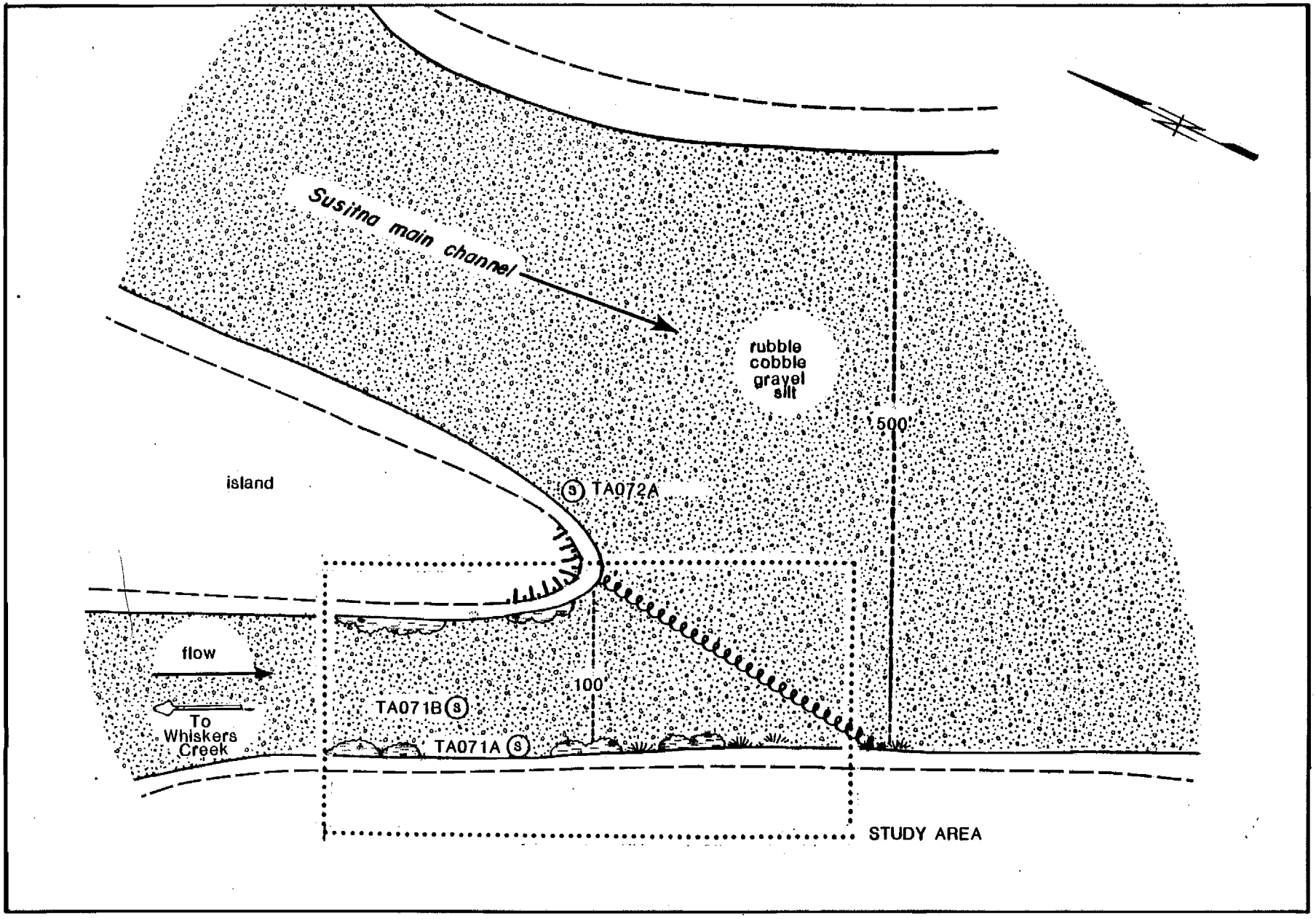

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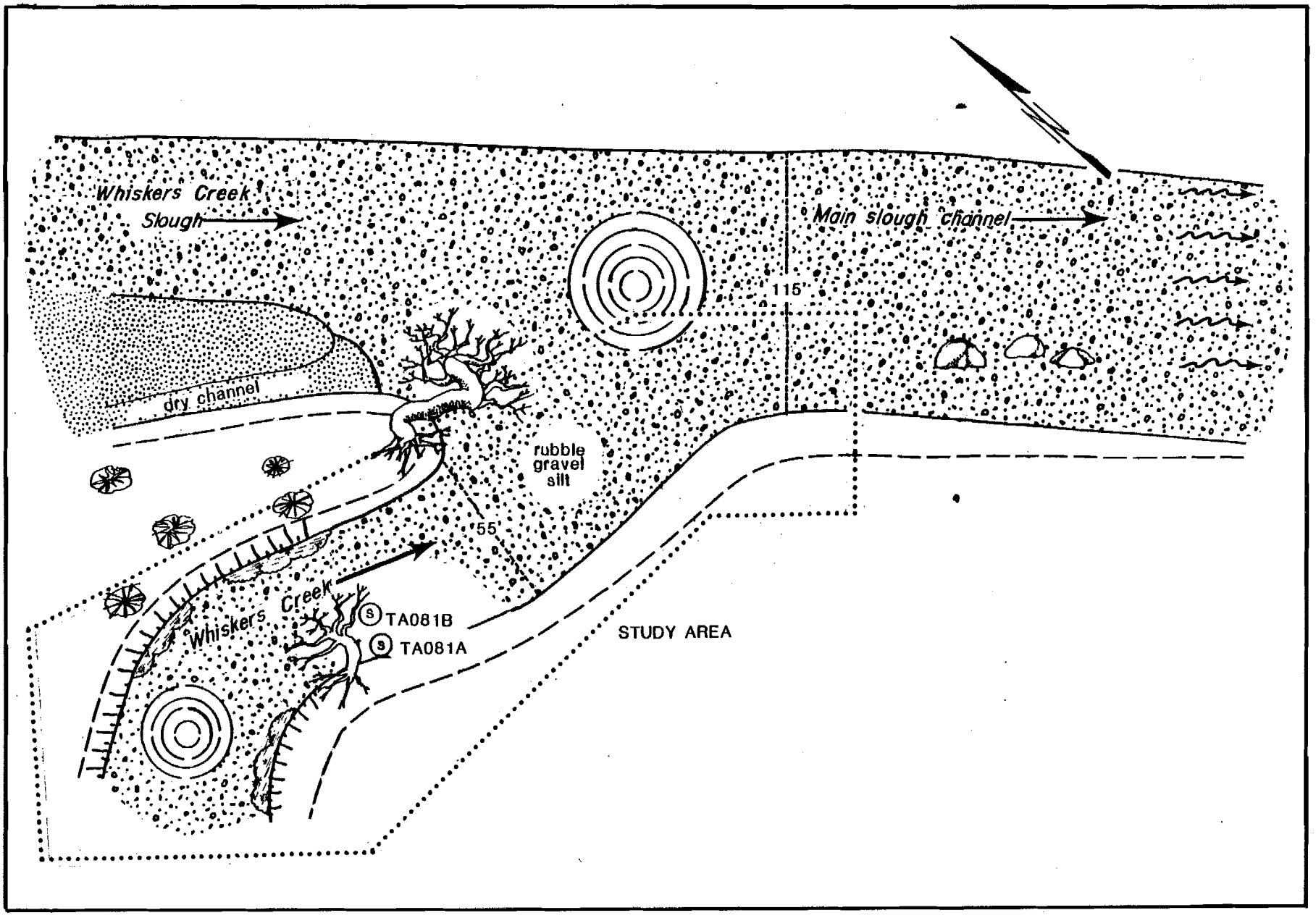

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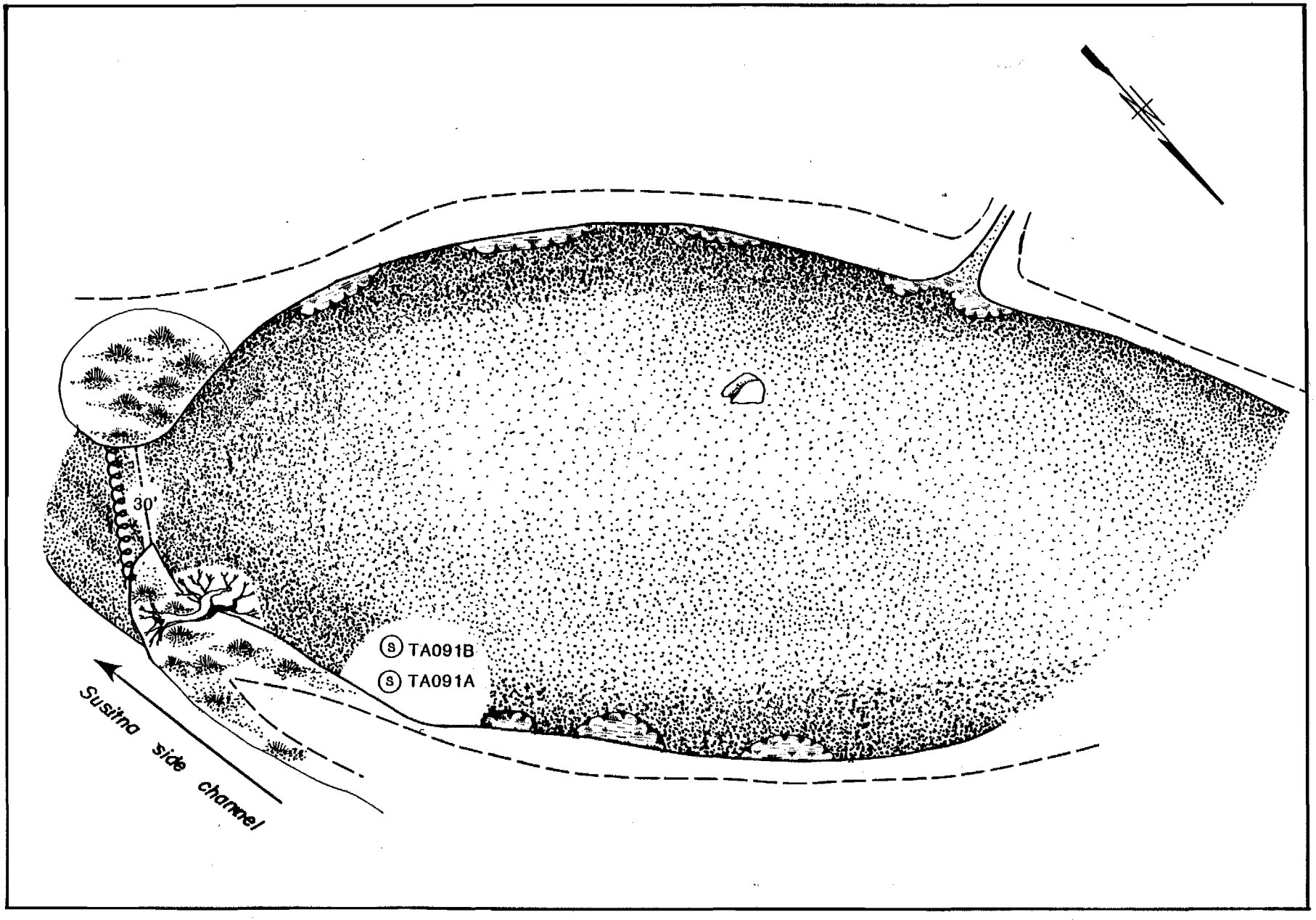

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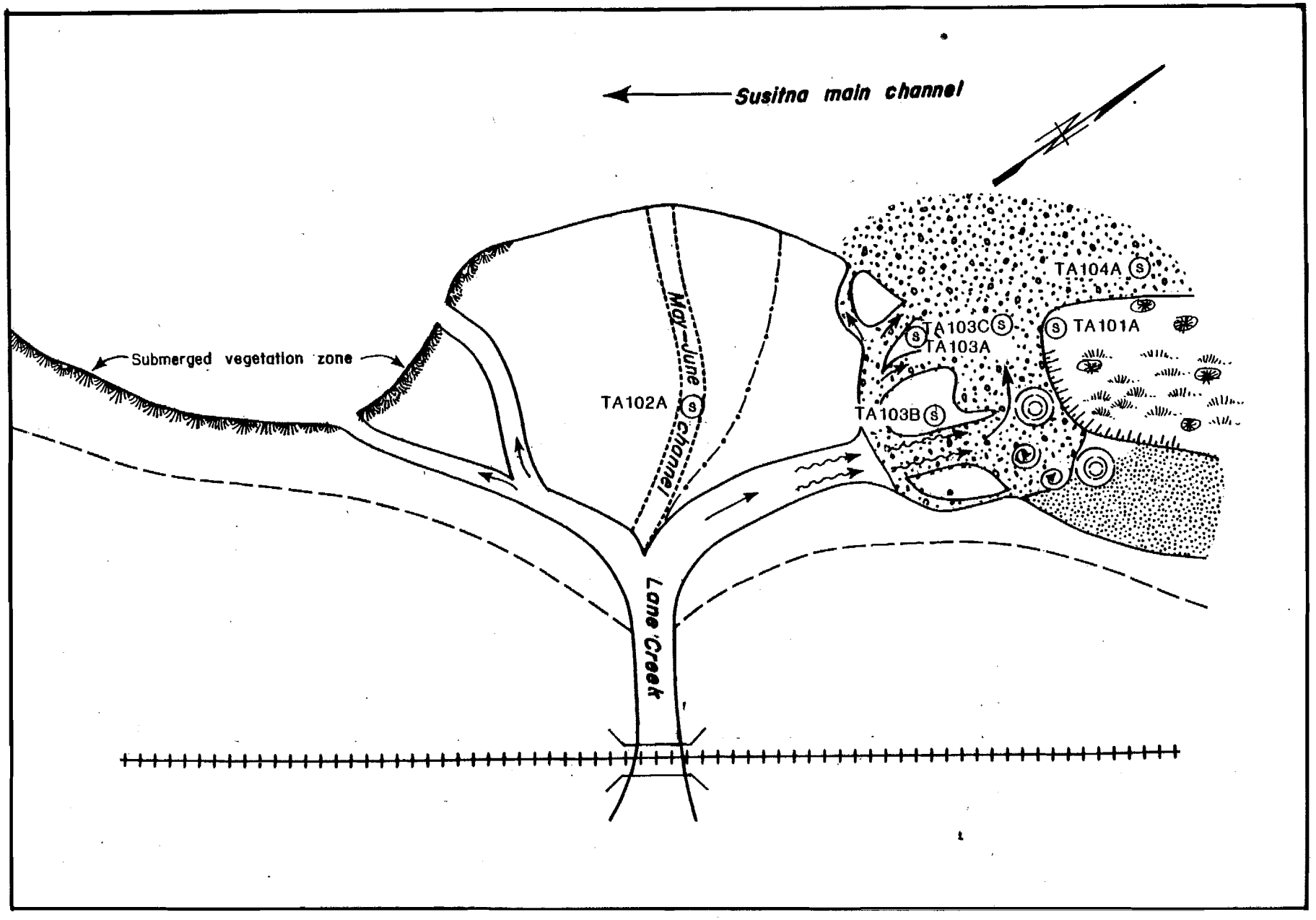

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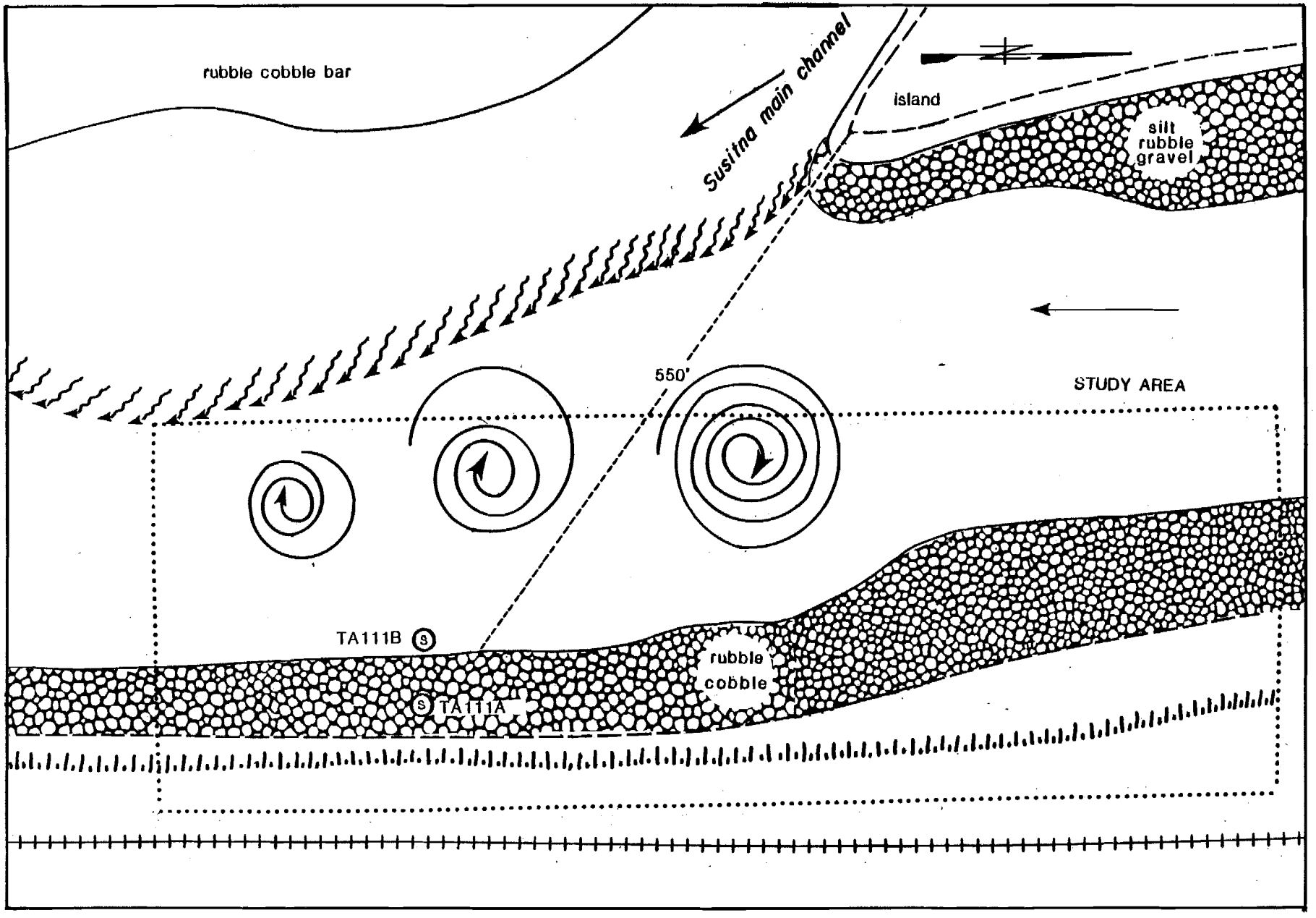

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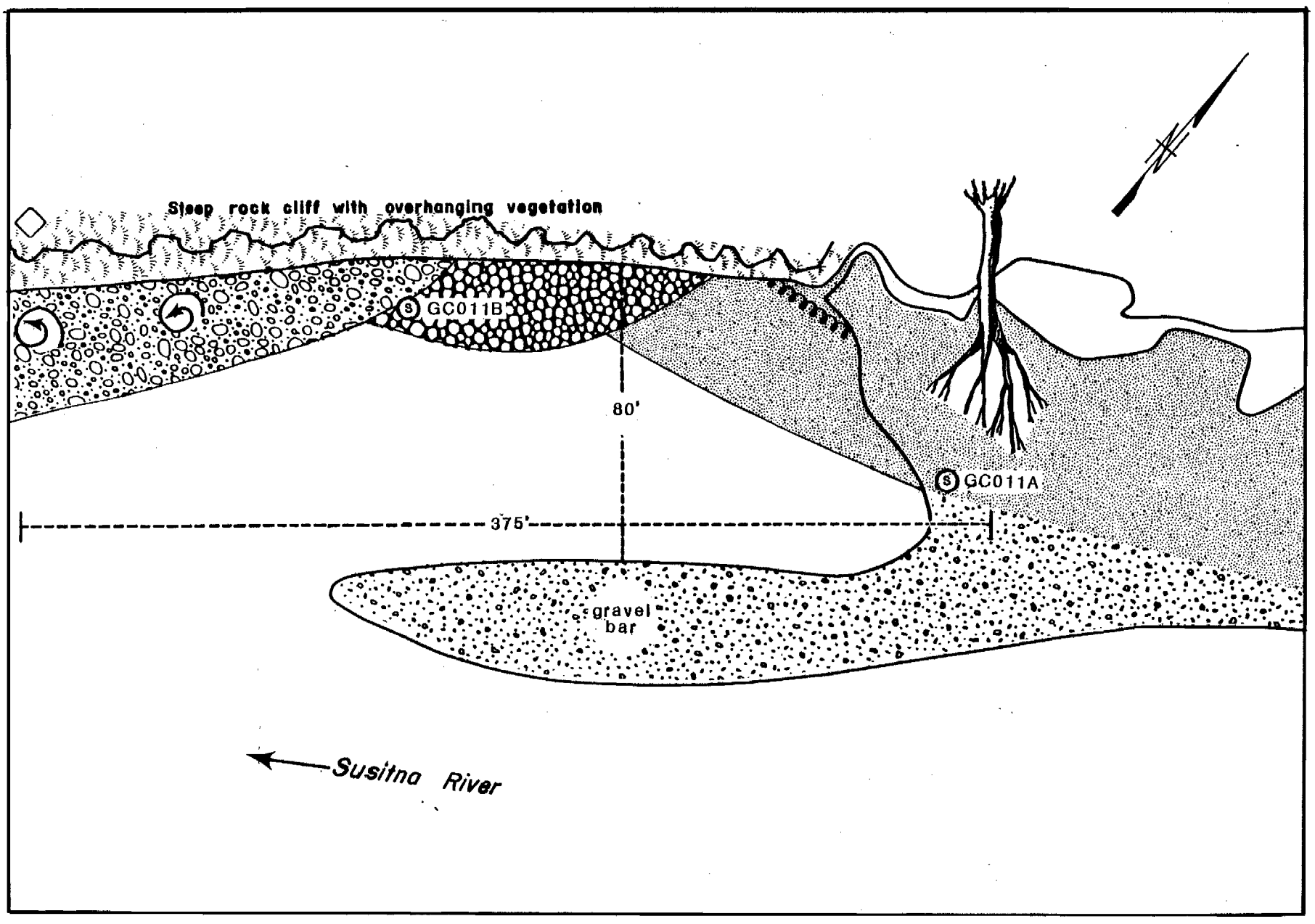

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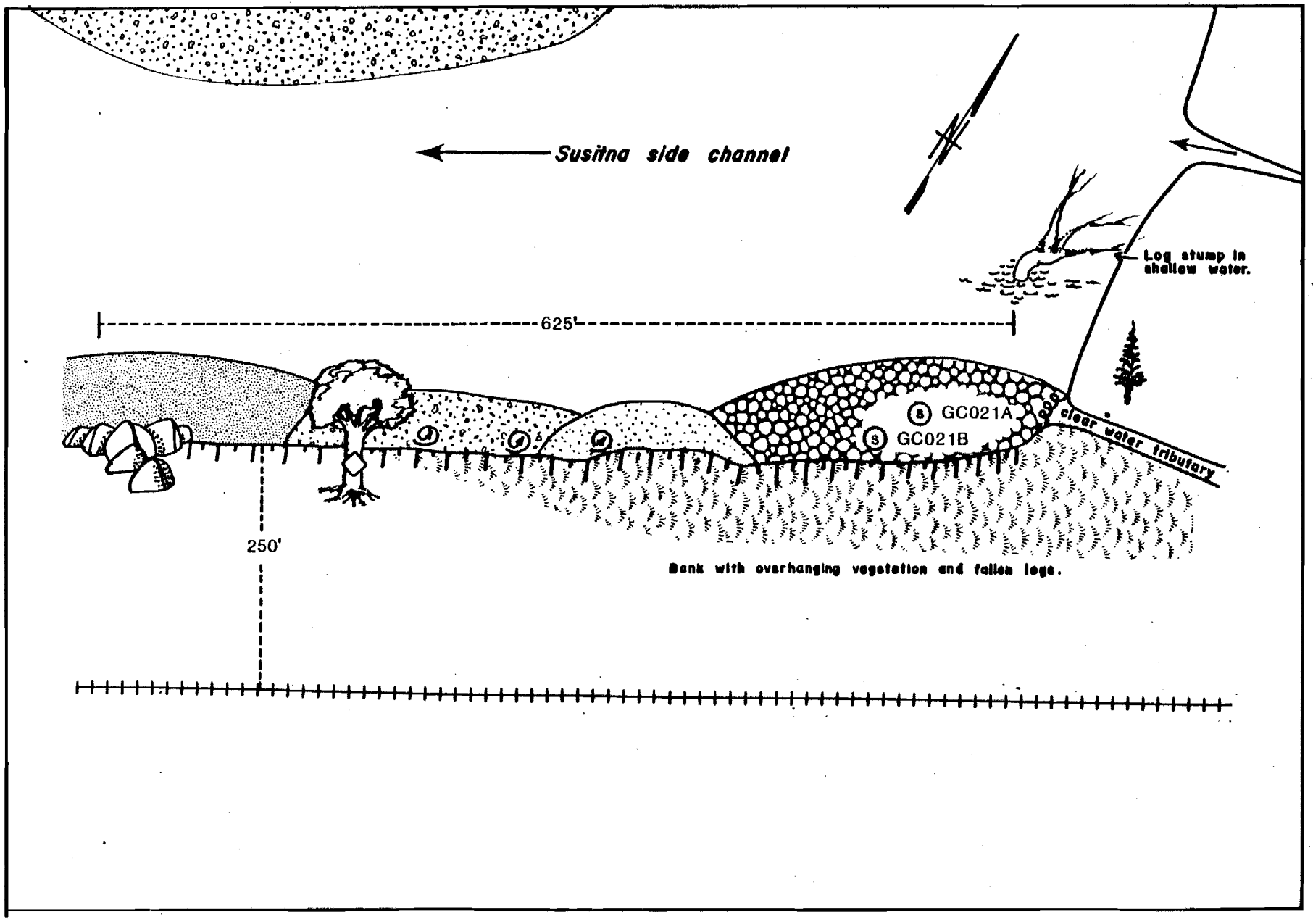

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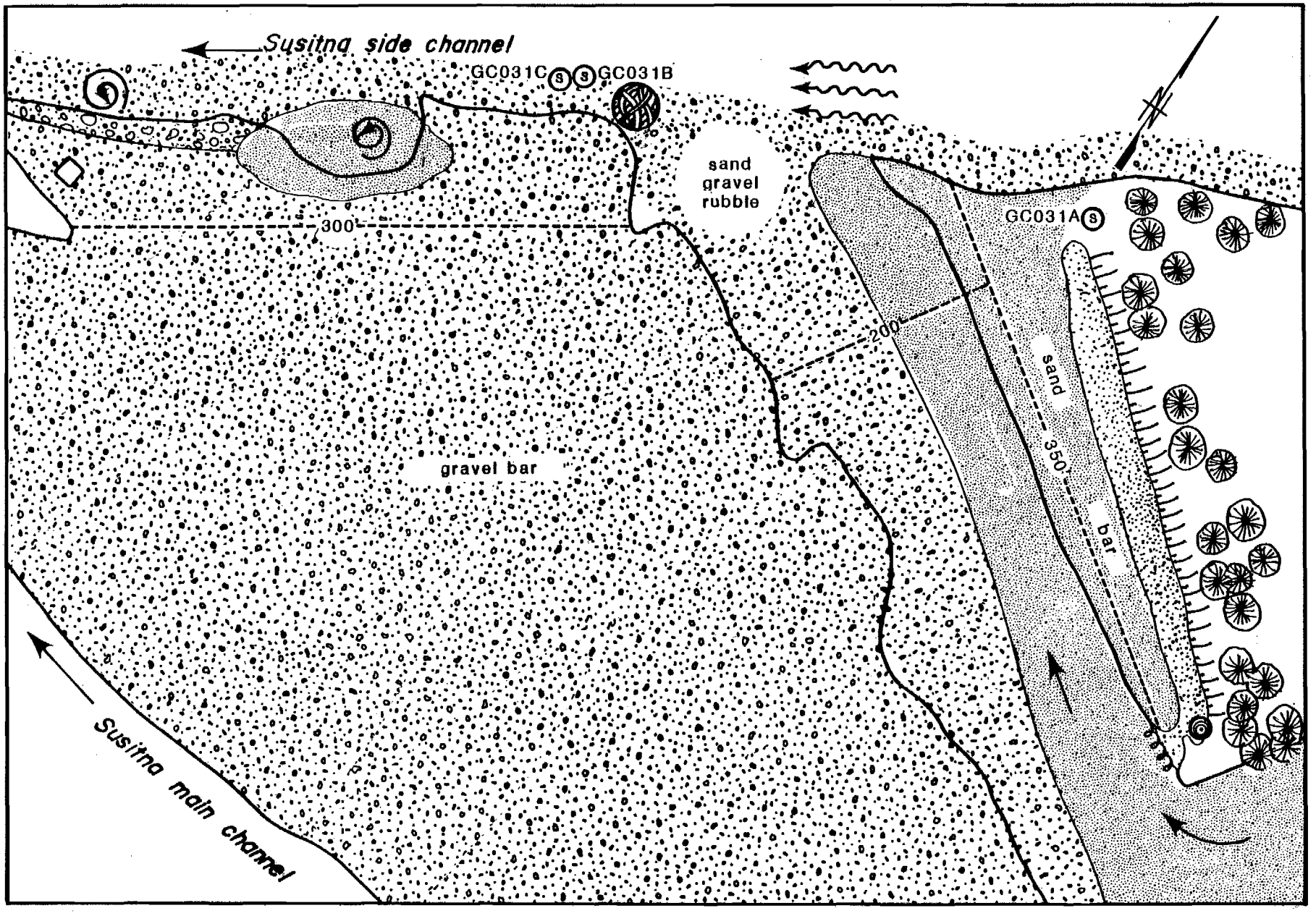

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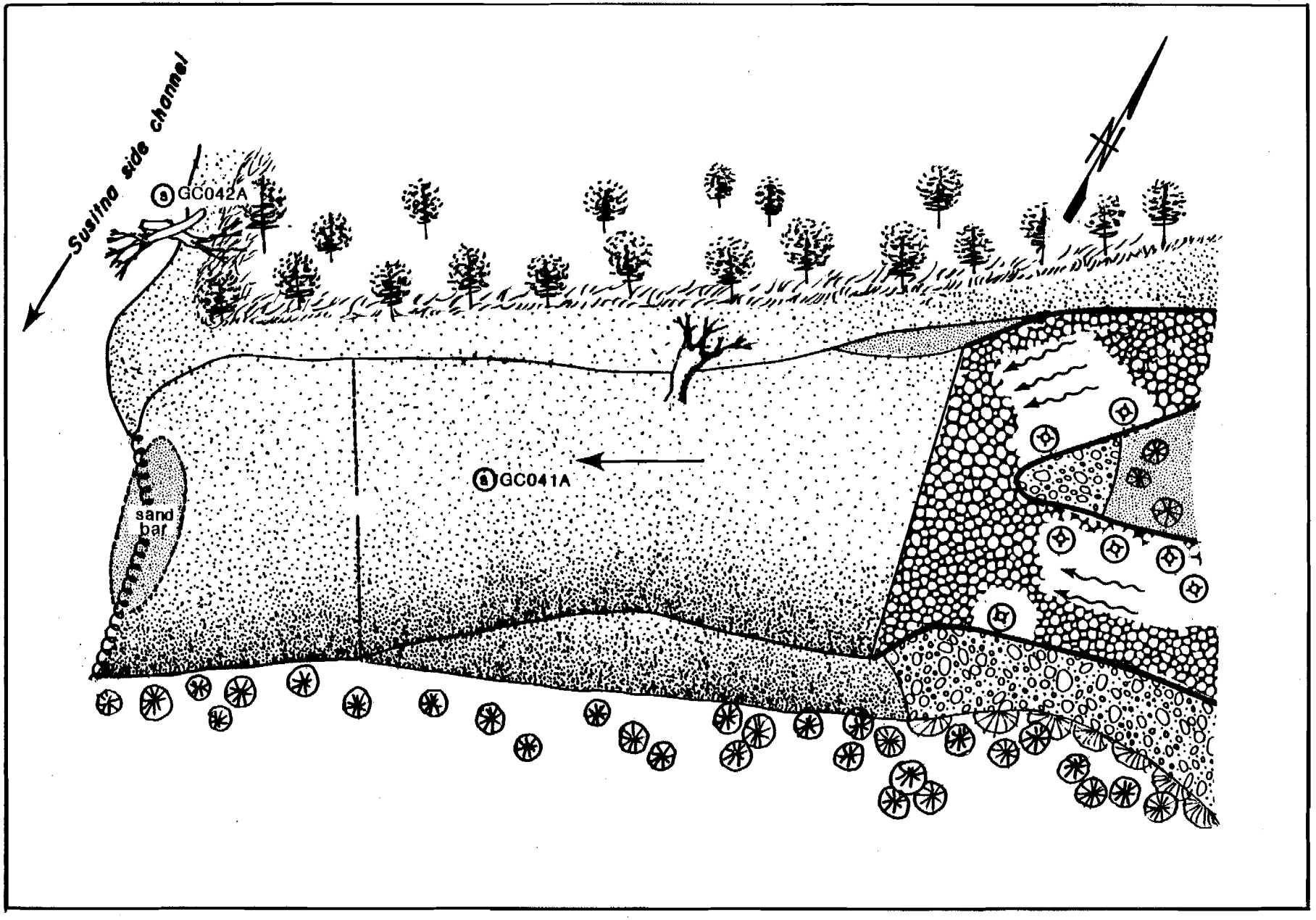

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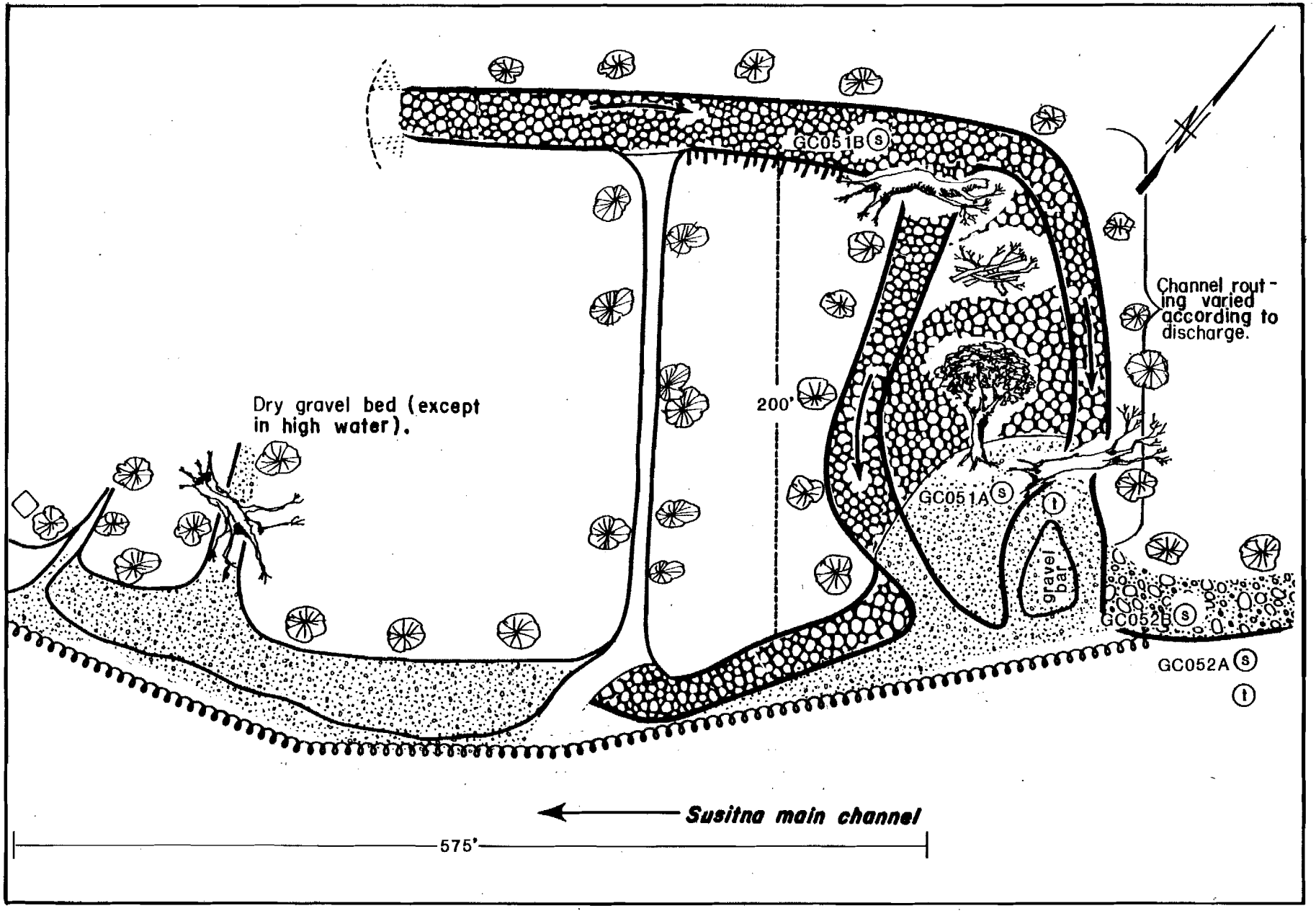

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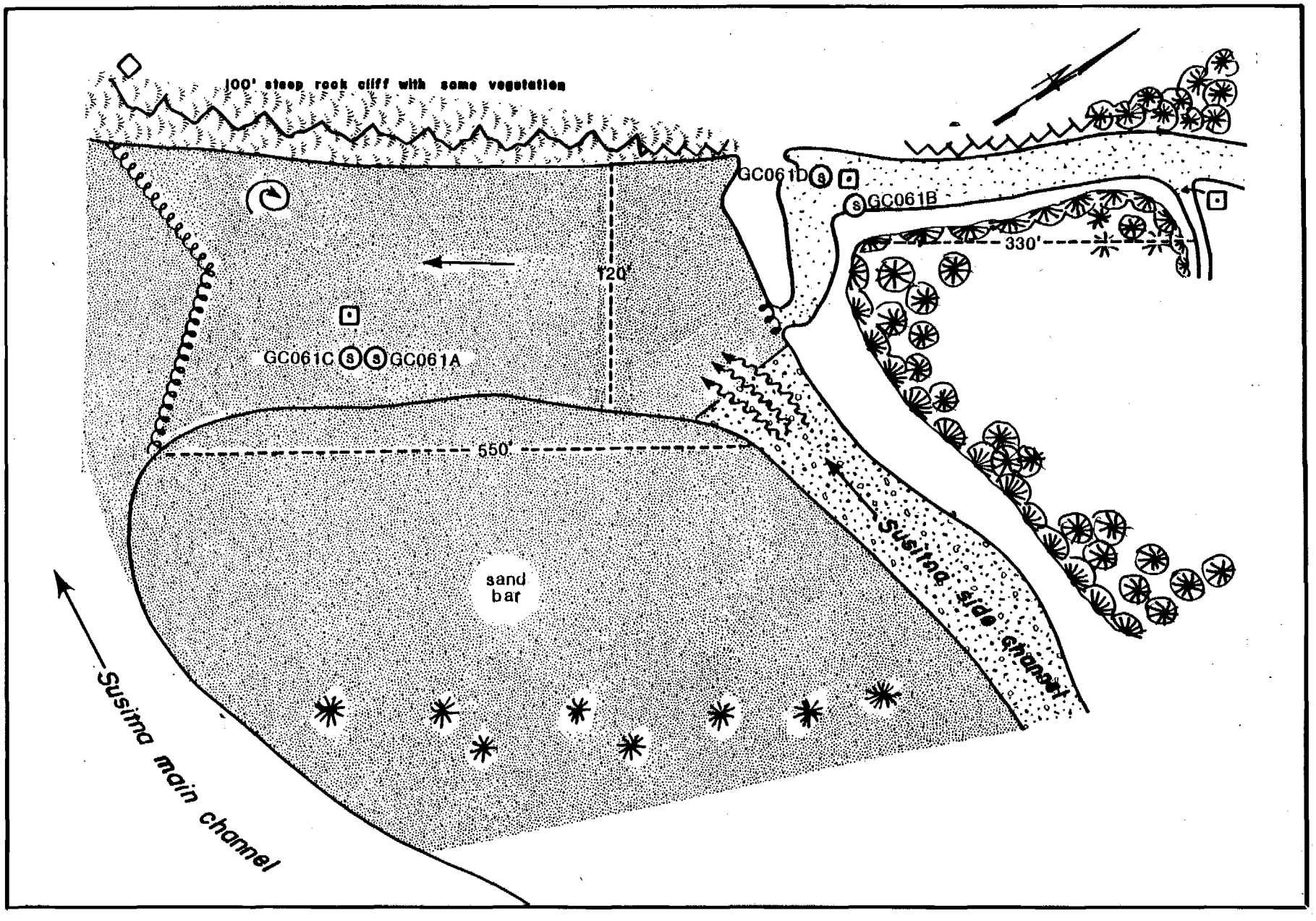

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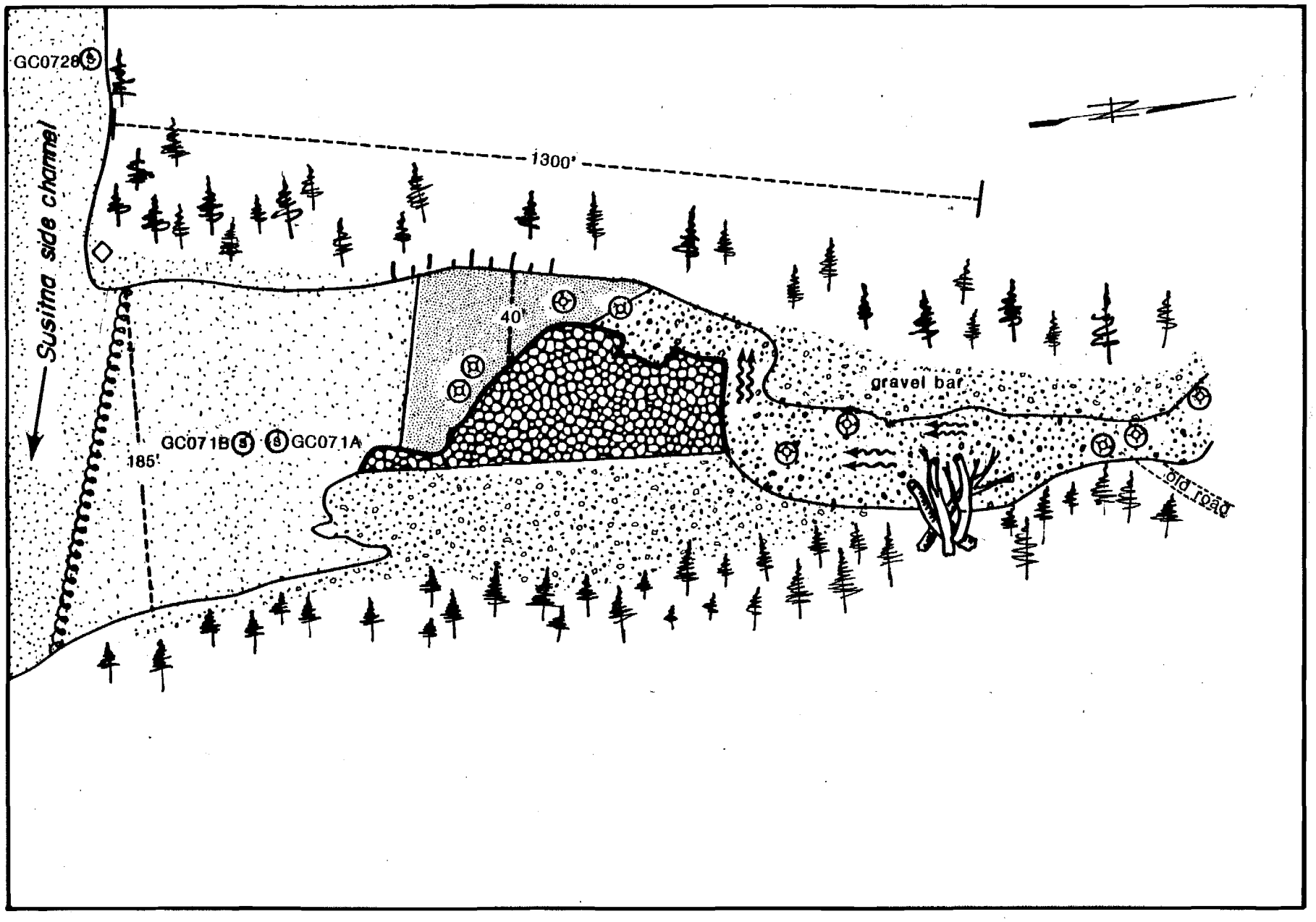

Figure EA-40. Planimetric map of Slough 11 (R.M. 135.3, G.C. 31N02W19DDD).

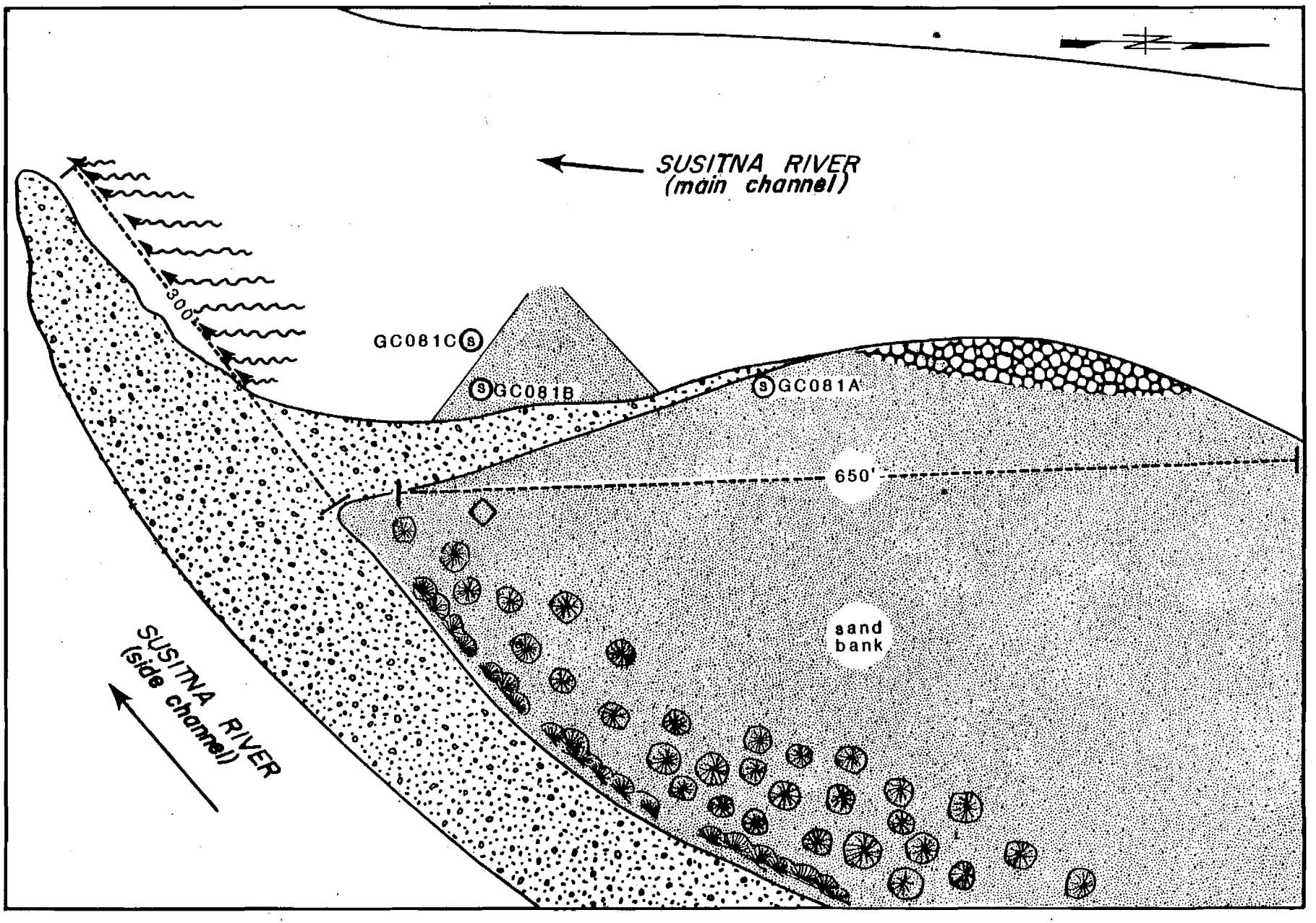

Figure EA-41. Planimetric map of Mainsem Susitna - Inside Bend (R.M. 136.9, G.C. 31N02W17CDA).

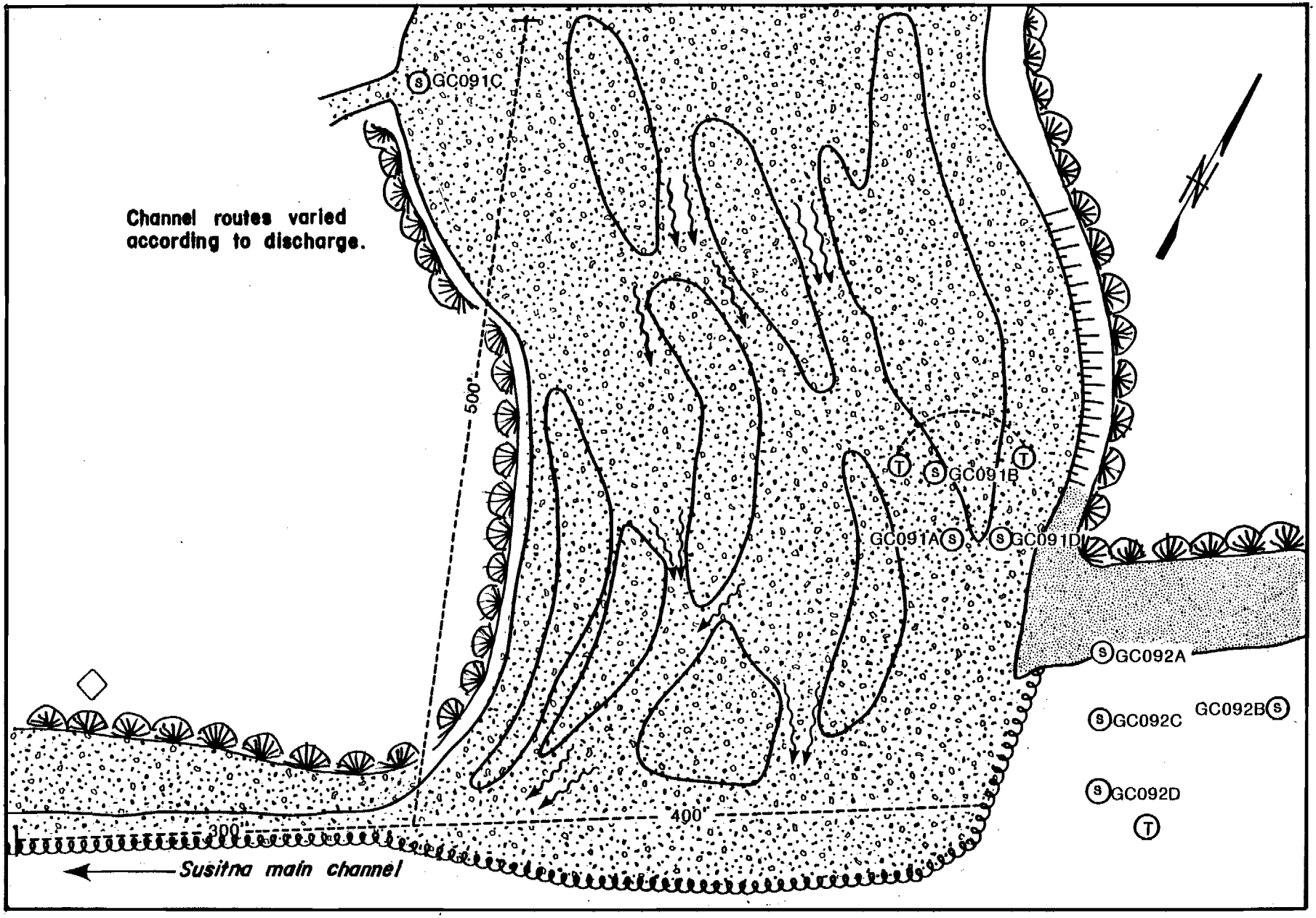

Figure EA-42. Planimetric map of Indian River (R.M. 138.6, G.C. 31N02W09CDA).

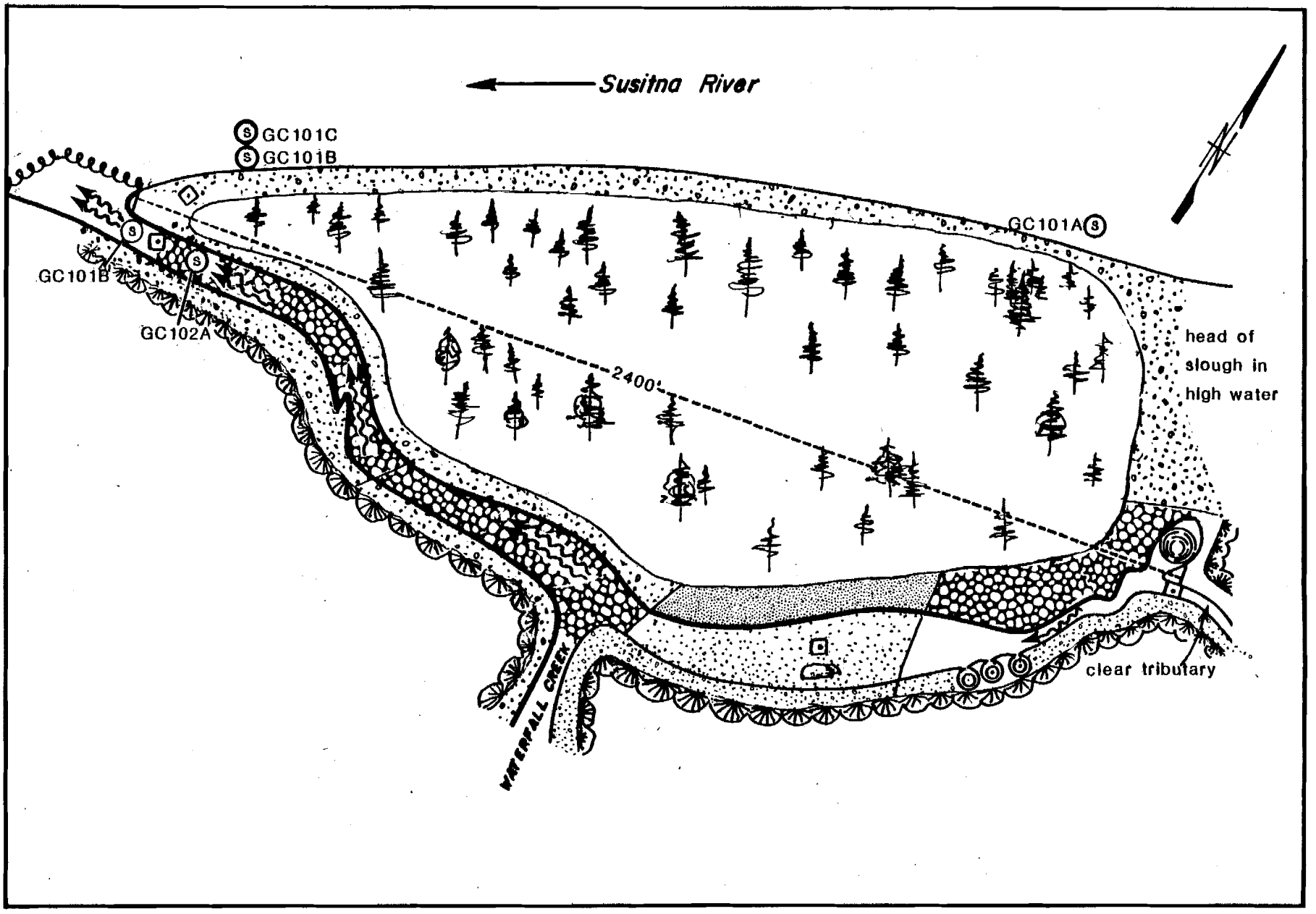

Figure EA-43. Planimetric map of Slough 20 (R.M. 140.1, G.C. 31N02W11BBC).

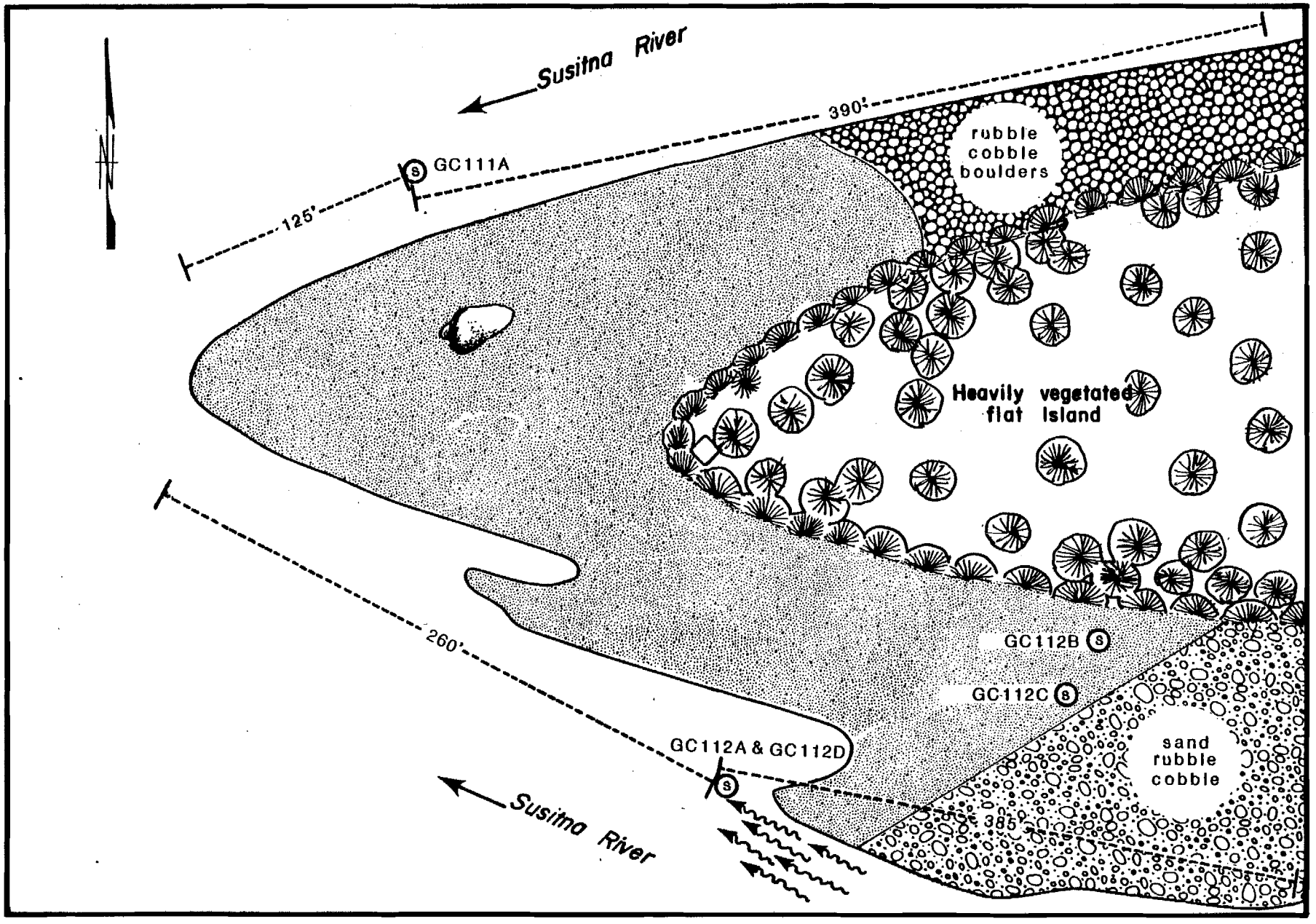

Figure EA-44. Planimetric map of Mainstem Susitna - Island (R.M. 136.9, G.C. 32N01W27DBC).

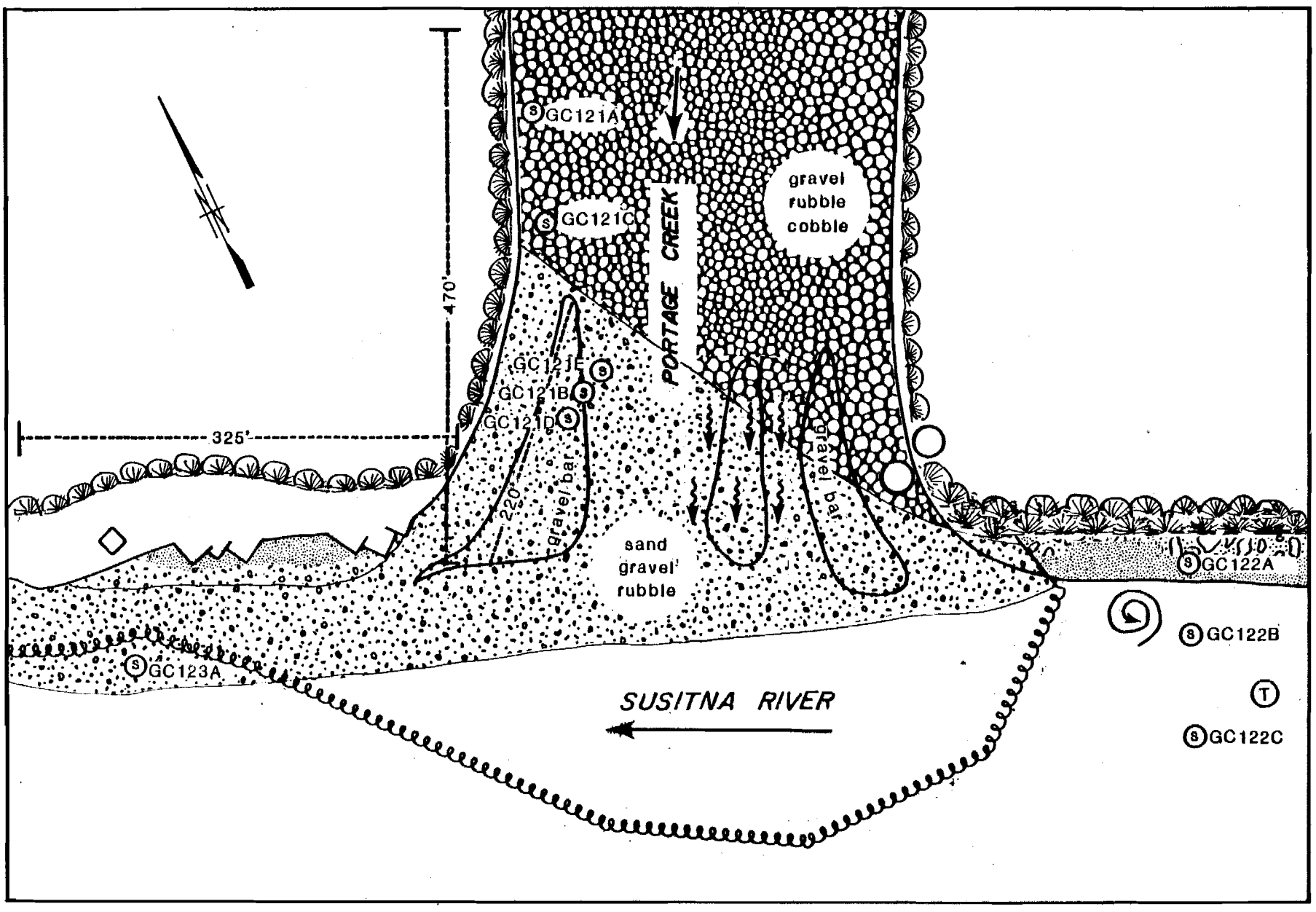

Figure EA-45. Planimetric map of Portage Creek (R.M. 148.8, G.C. 32N01W25CDB).

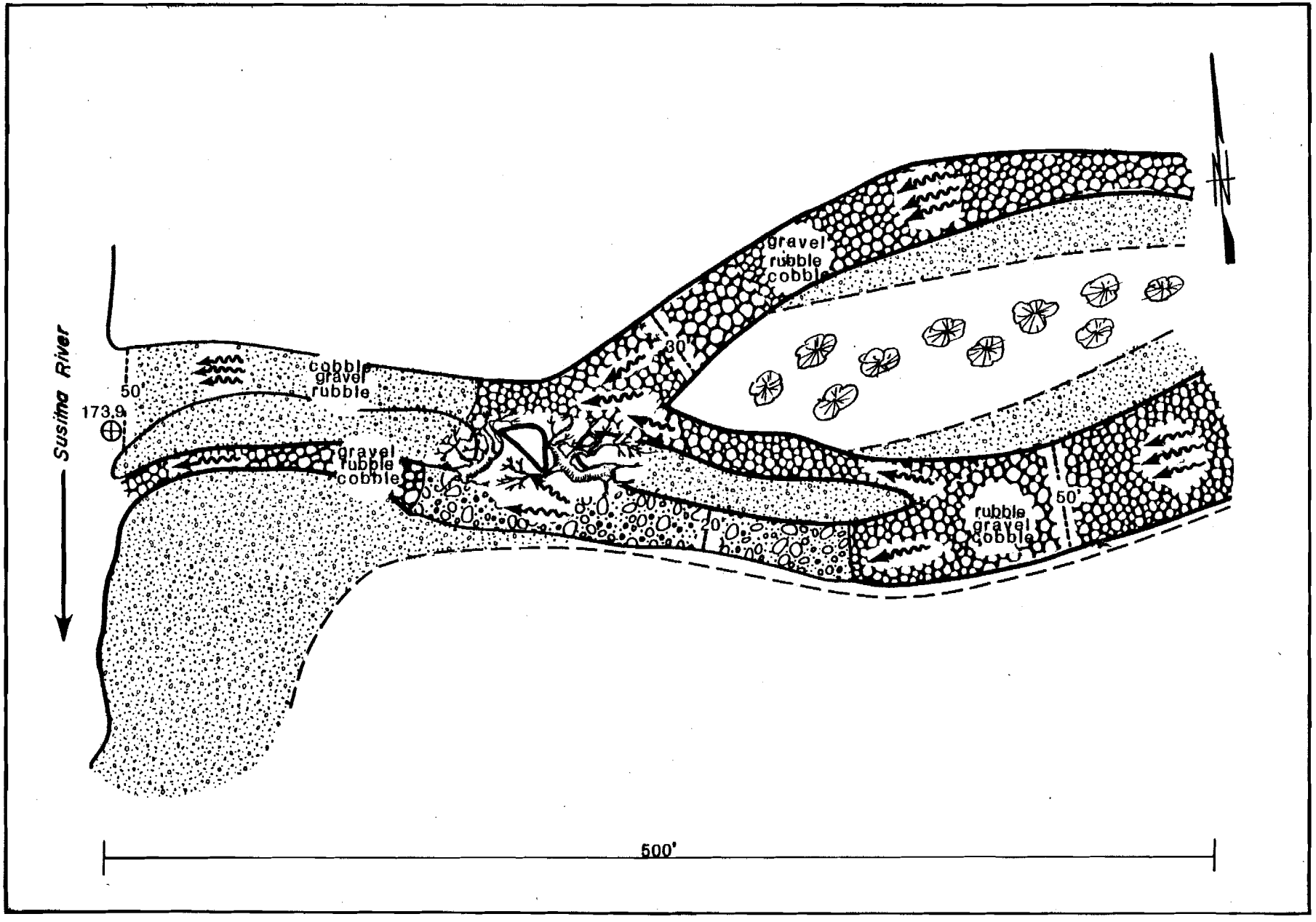

Figure EA-46. Planimetric map of Fog Creek - Site 01 (R.M. 173.9, G.C. 31N04E16DBB).

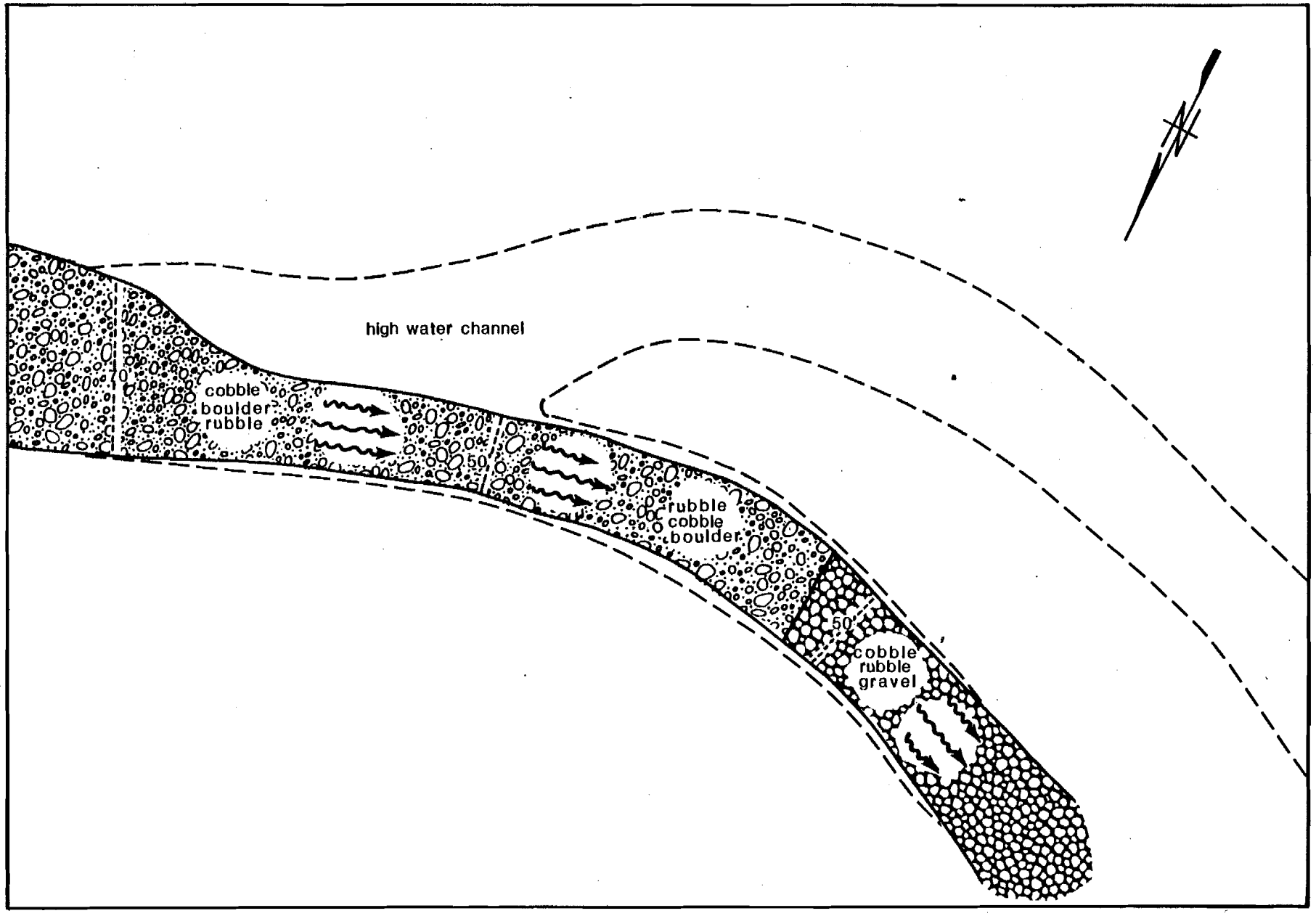

Figure EA-47. Planimetric map of Fog Creek - Site 02 (R.M. 173.9, G.C 31N04E16DBD).

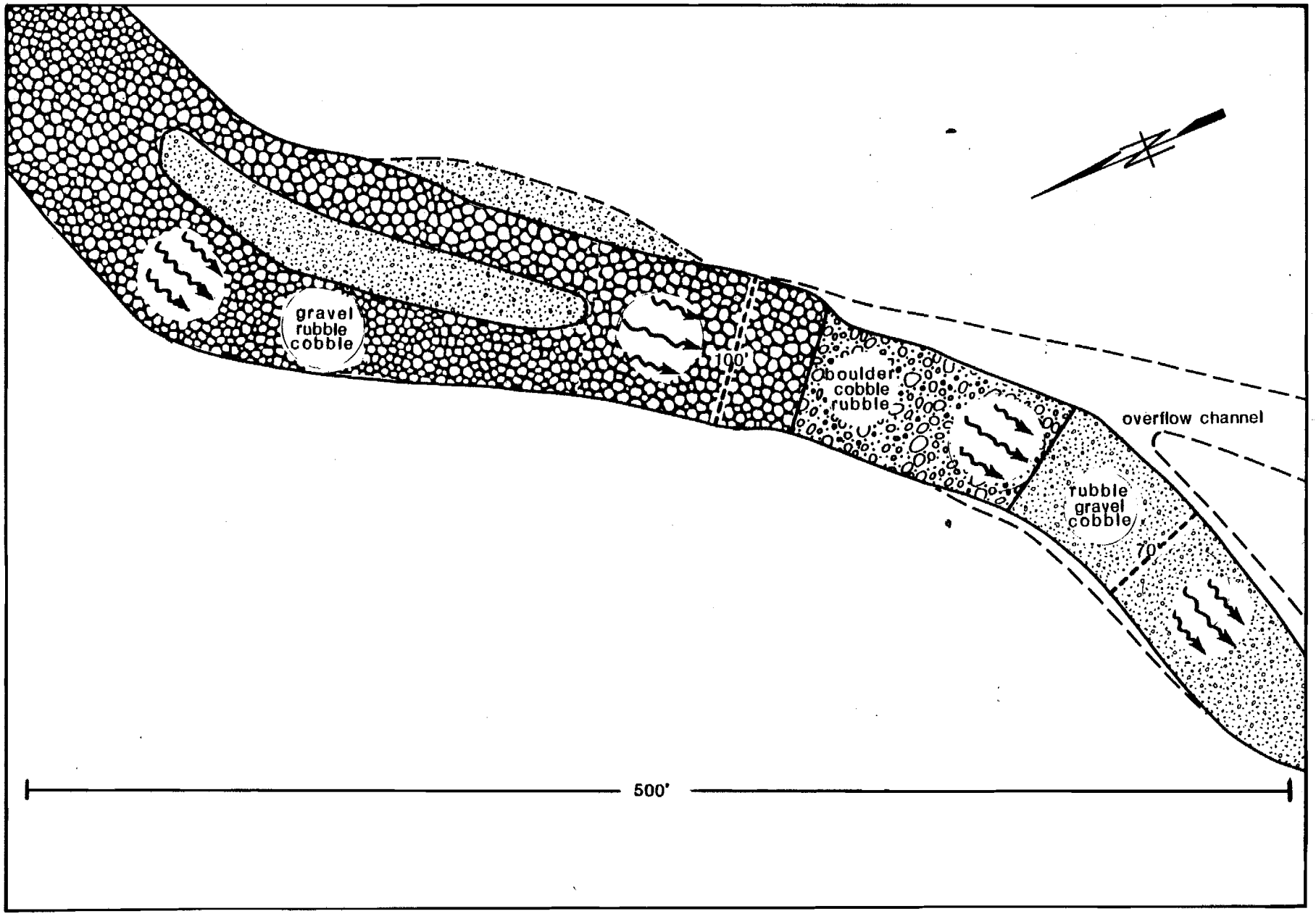

Figure EA-48. Planimetric map of Fog Creek - Site 03 (R.M. 173.9, G.C. 31N04E16DAD).

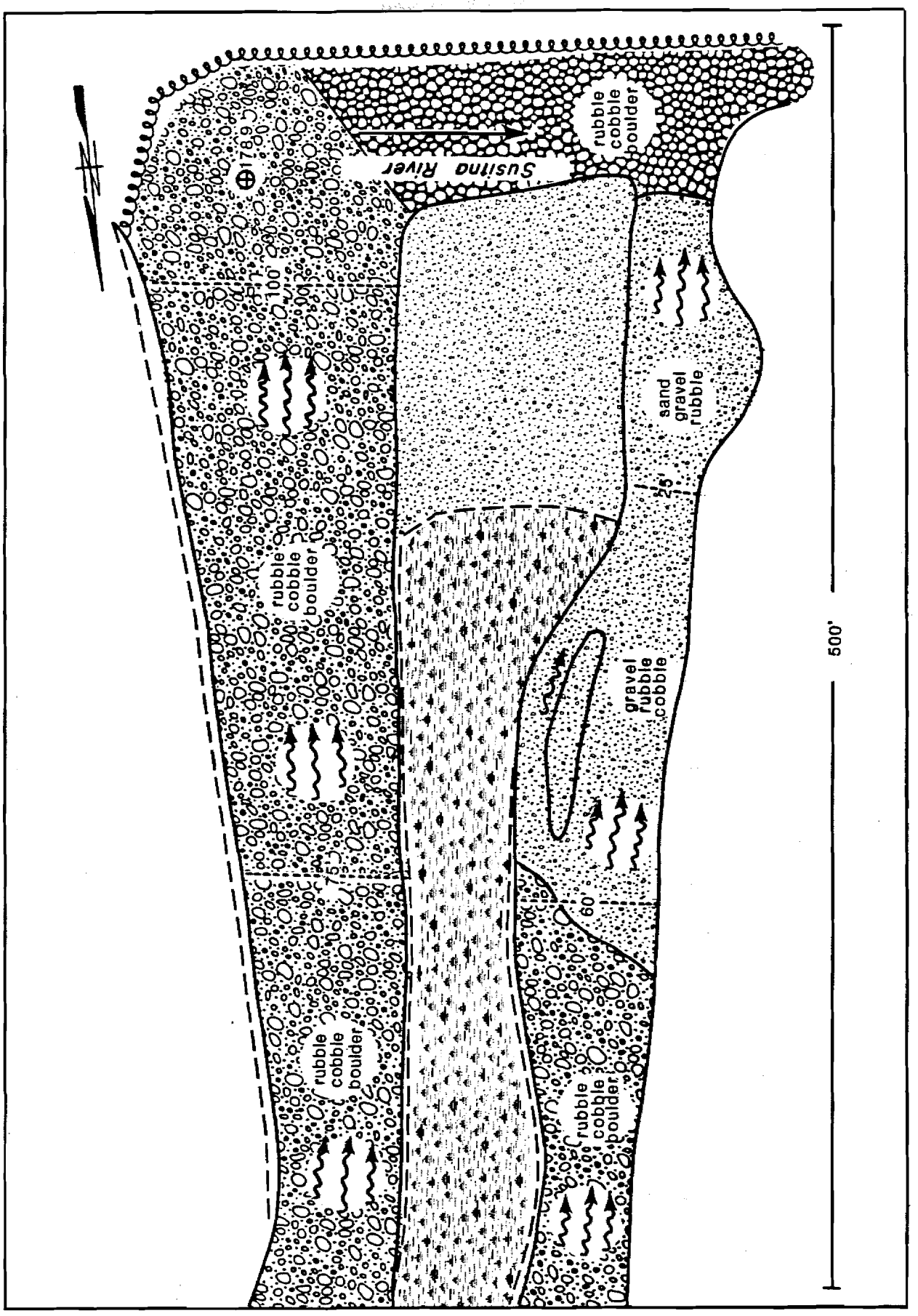

Figure EA-49. Planimetric map of Tsusena Creek - Site 01 (R.M. 178.9, G.C. 32N04E36ADB).

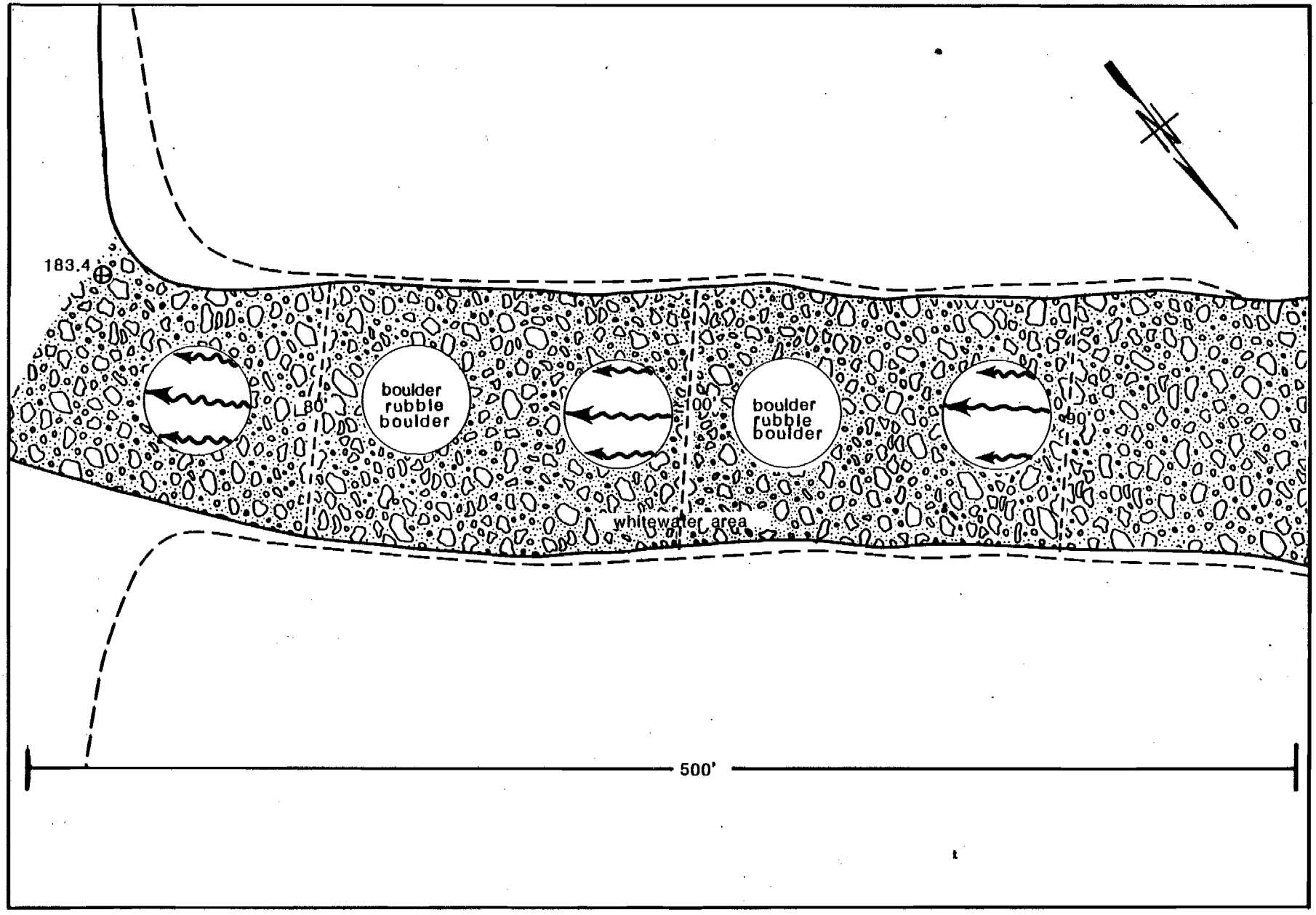

Figure EA-50. Planimetric map of Deadman Creek - Site 01 (R.M. 183.4, G.C. 32N05E26CBD).

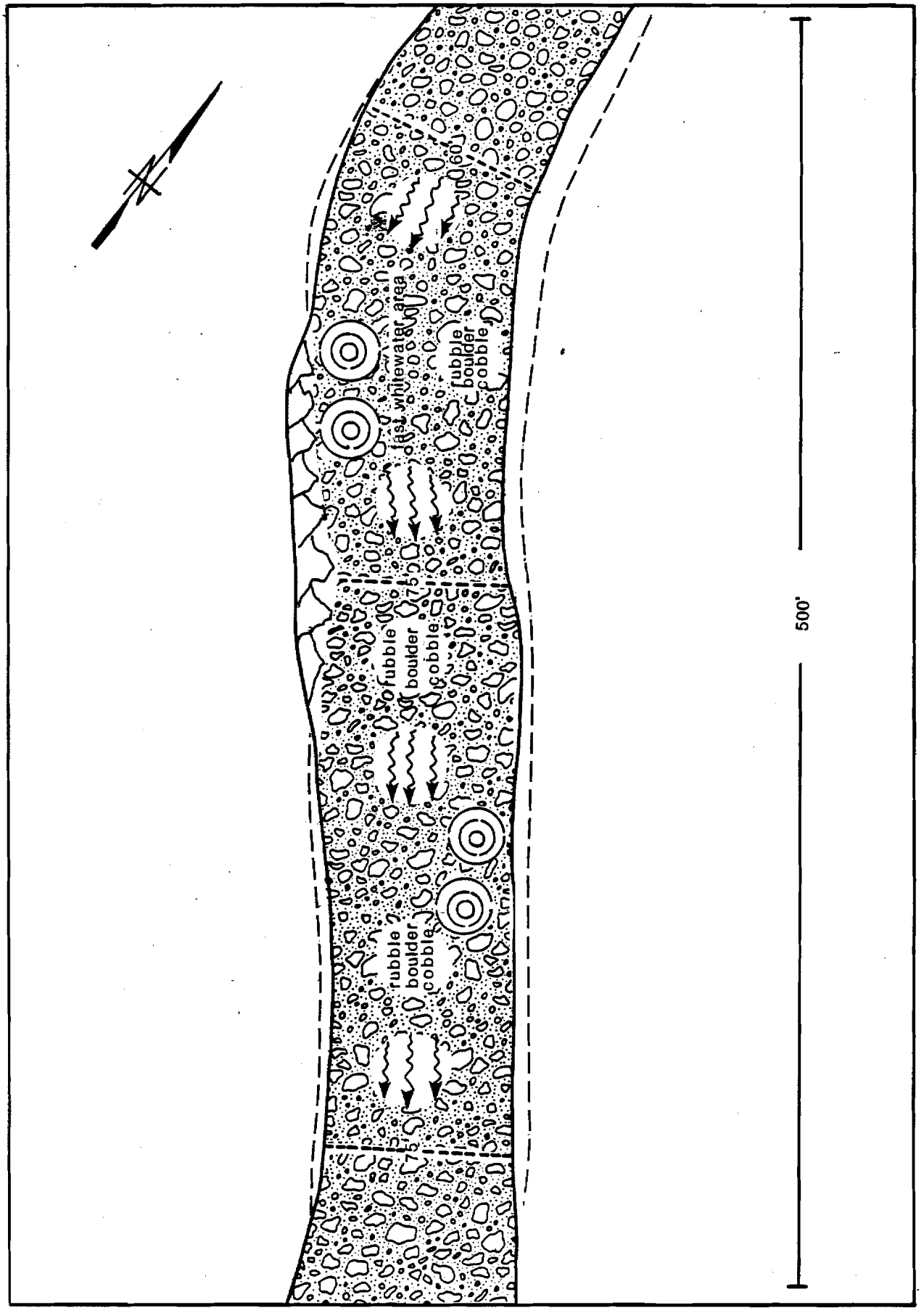

Figure EA-51. Planimetric map of Deadman Creek - Site 02 (R.M. 183.4, G.C. 32N05E26CAA).

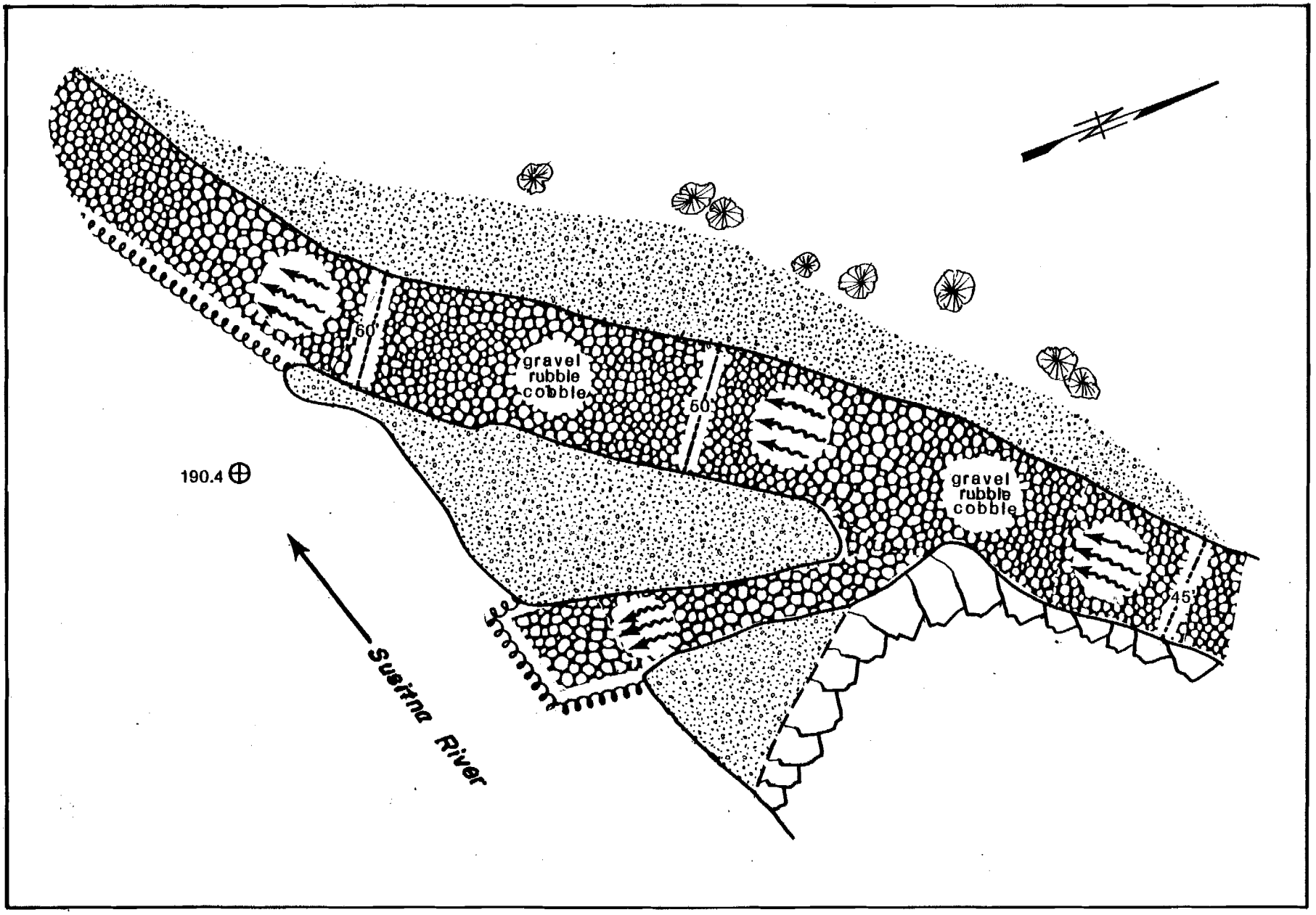

Figure EA-52. Planimetric map of Watana Creek - Site 01 (R.M. 190.4, G.C. 32N06E25CCA).

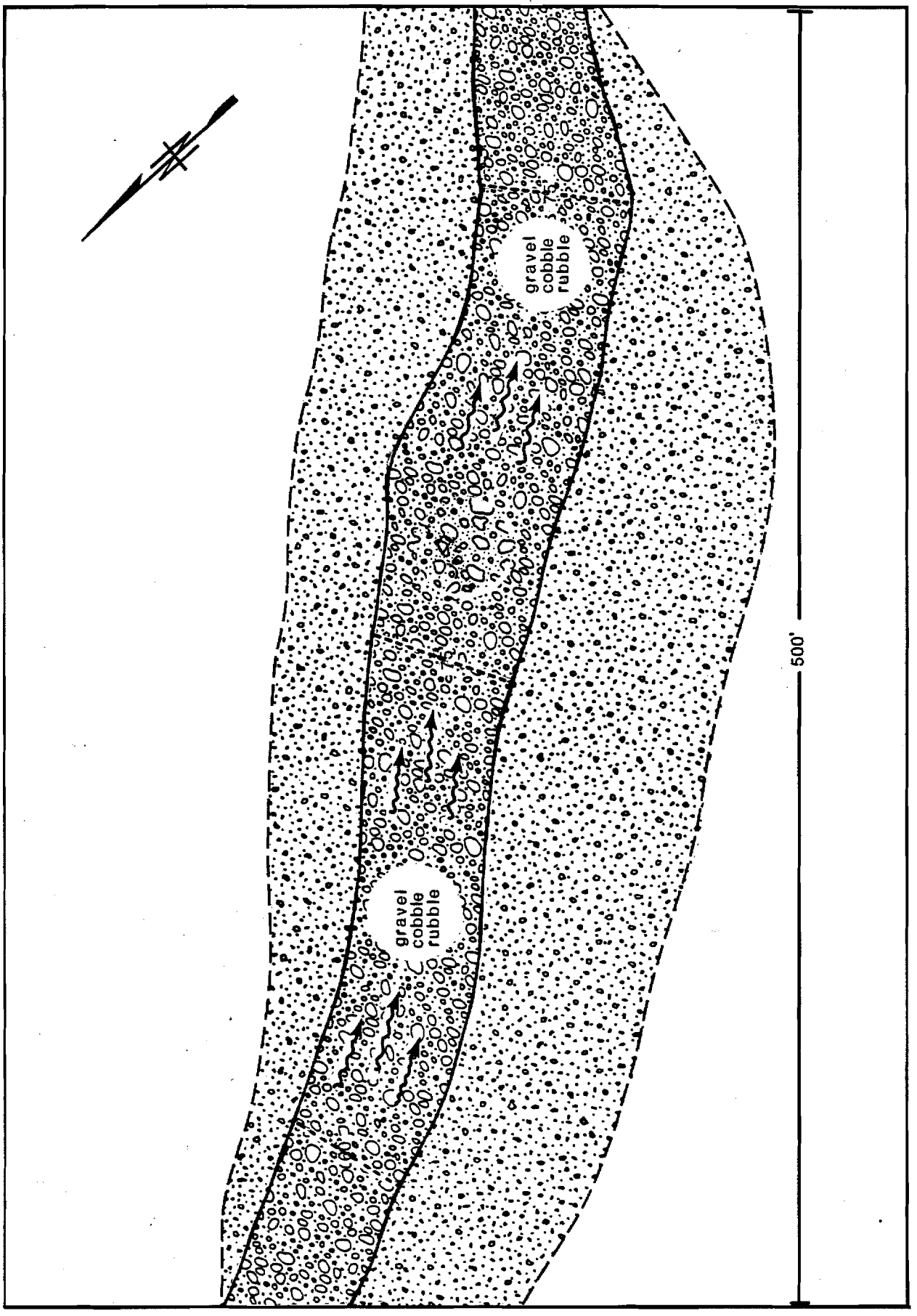

Figure EA-53. Planimetric map of Watana Creek - Site 02 (R.M. 190.4, G.C. 32N06E25CAB).

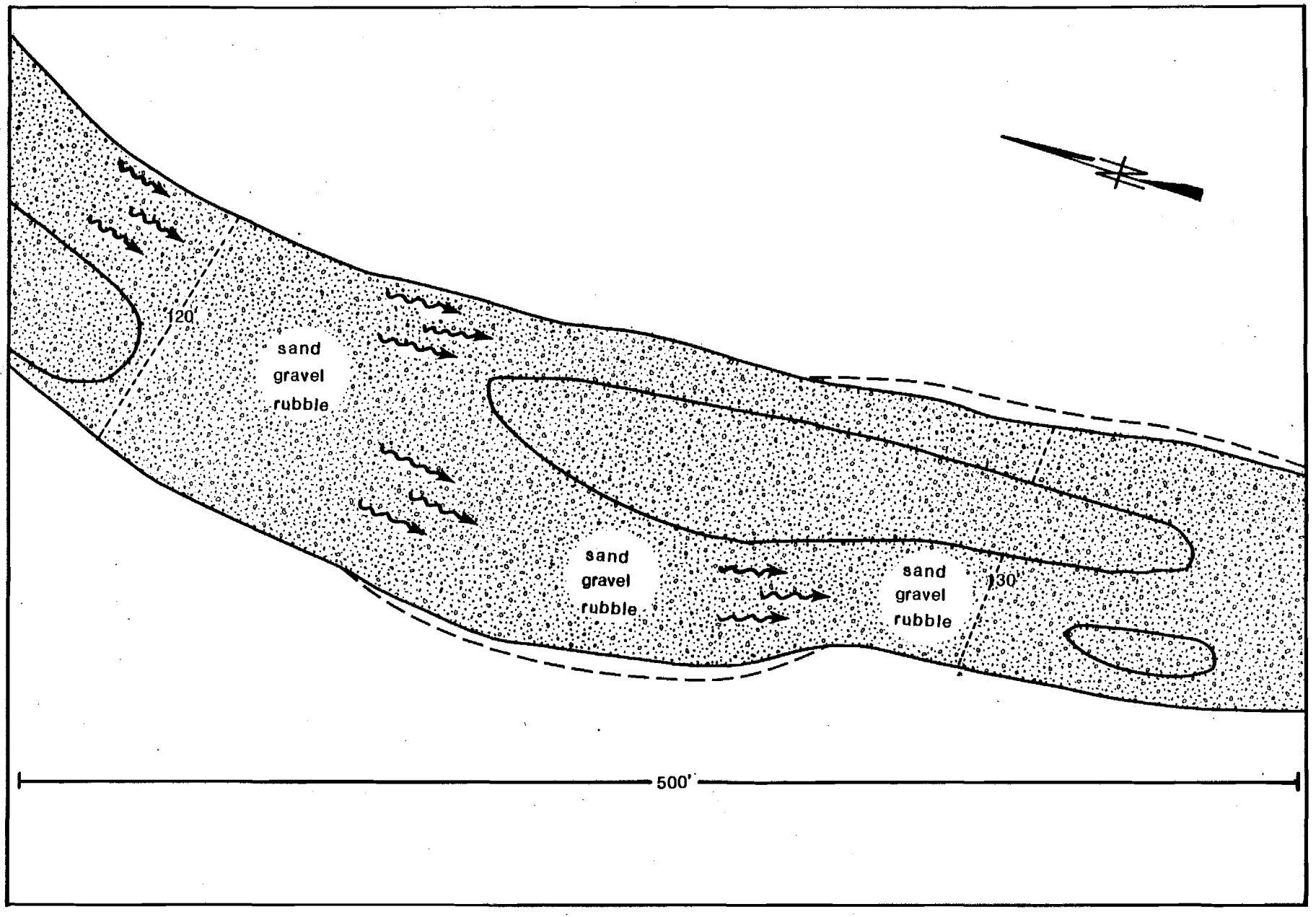

Figure EA-54. Planimetric map of Watana Creek - Site 03 (R.M. 190.4, G.C. 32N06E25BDC).

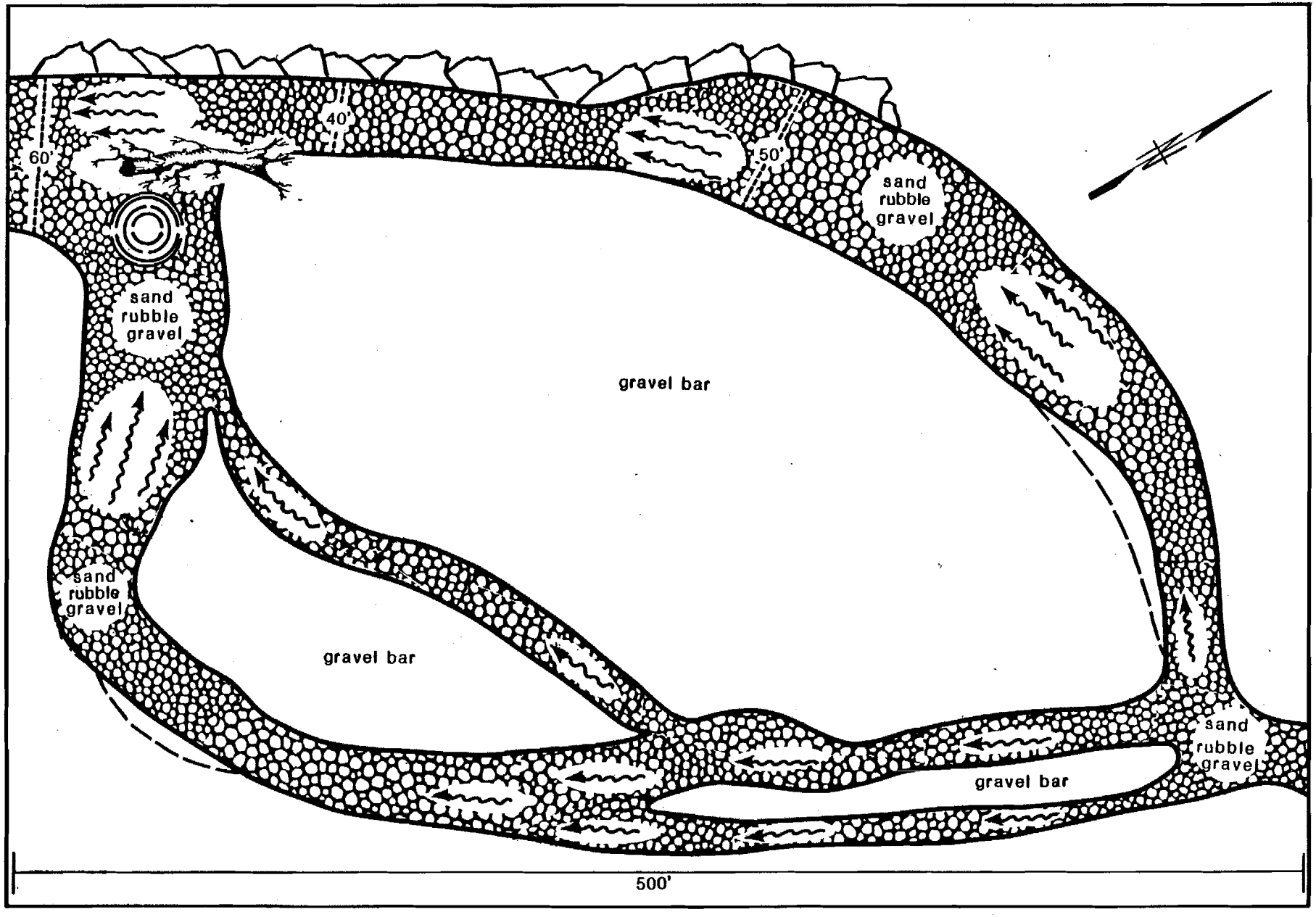

Figure EA-55. Planimetric map of Watana Creek - Site 04 (R.M. 190.4, G.C. 32N06E25ACB).

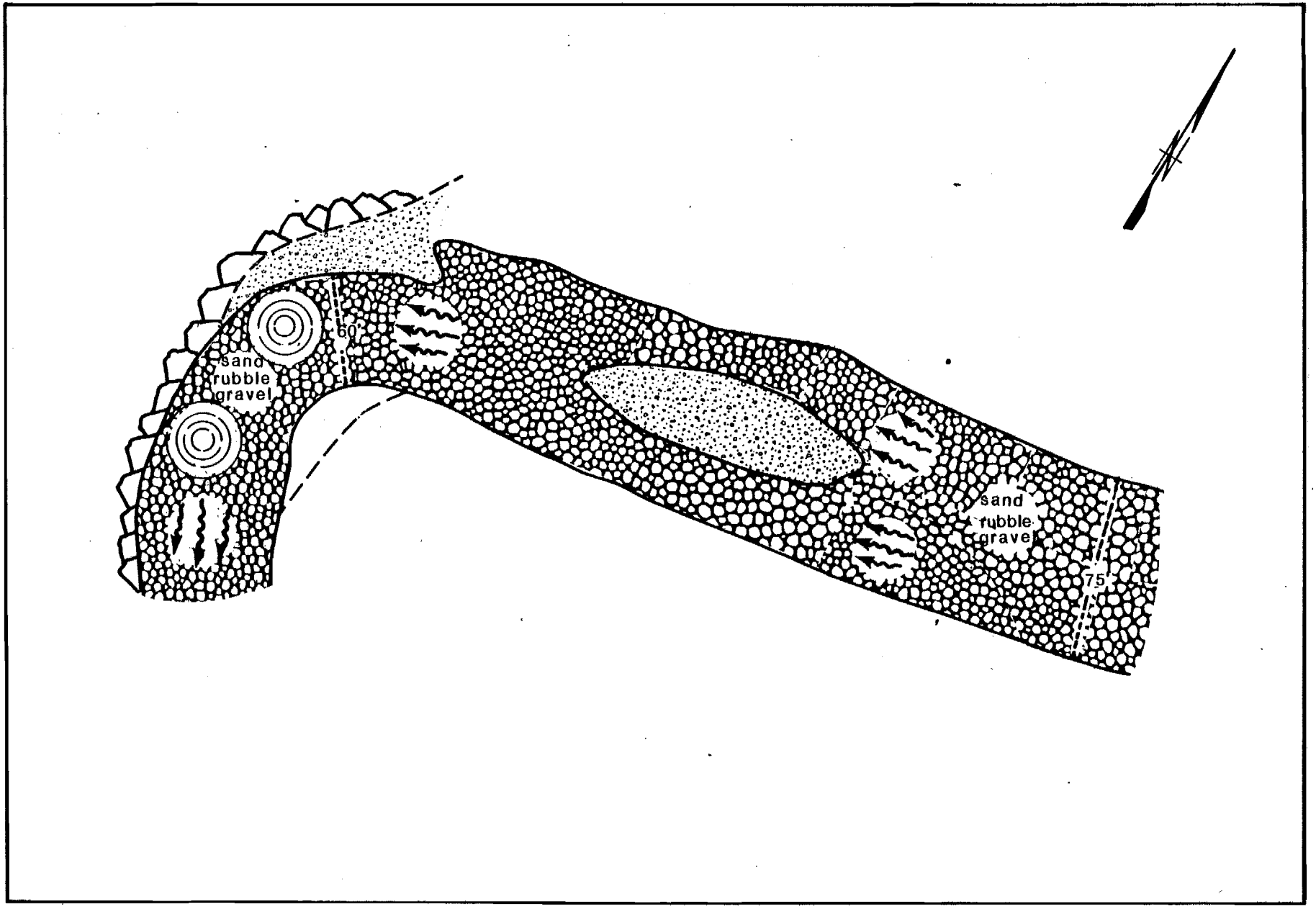

Figure EA-56. Planimetric map of Watana Creek - Site 05 (R.M. 190.4, G.C. 32N06E25ABC).

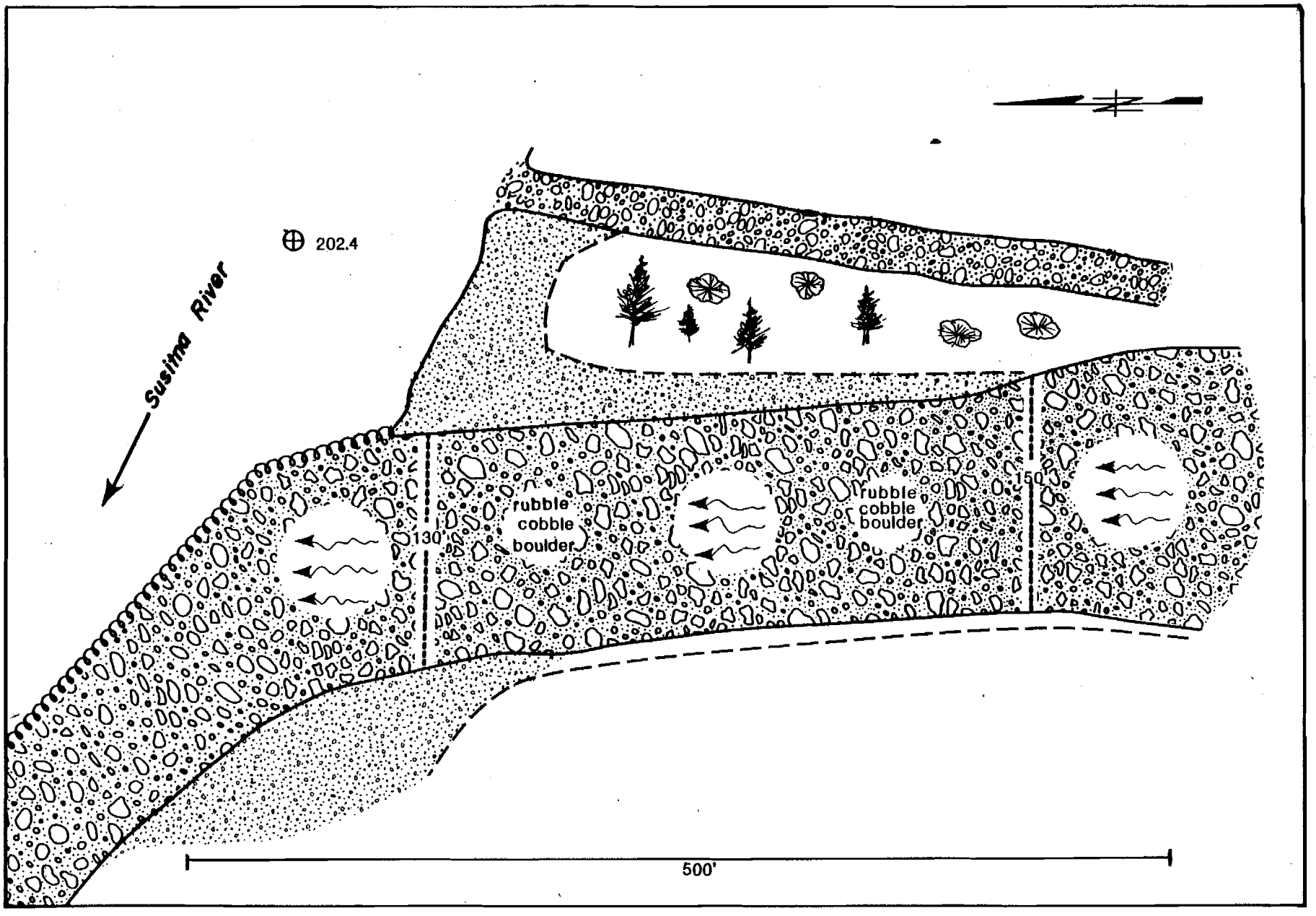

Figure EA-57. Planimetric map of Kosina Creek - Site 01 (R.M. 202.4, G.C. 31N08E15BAB).

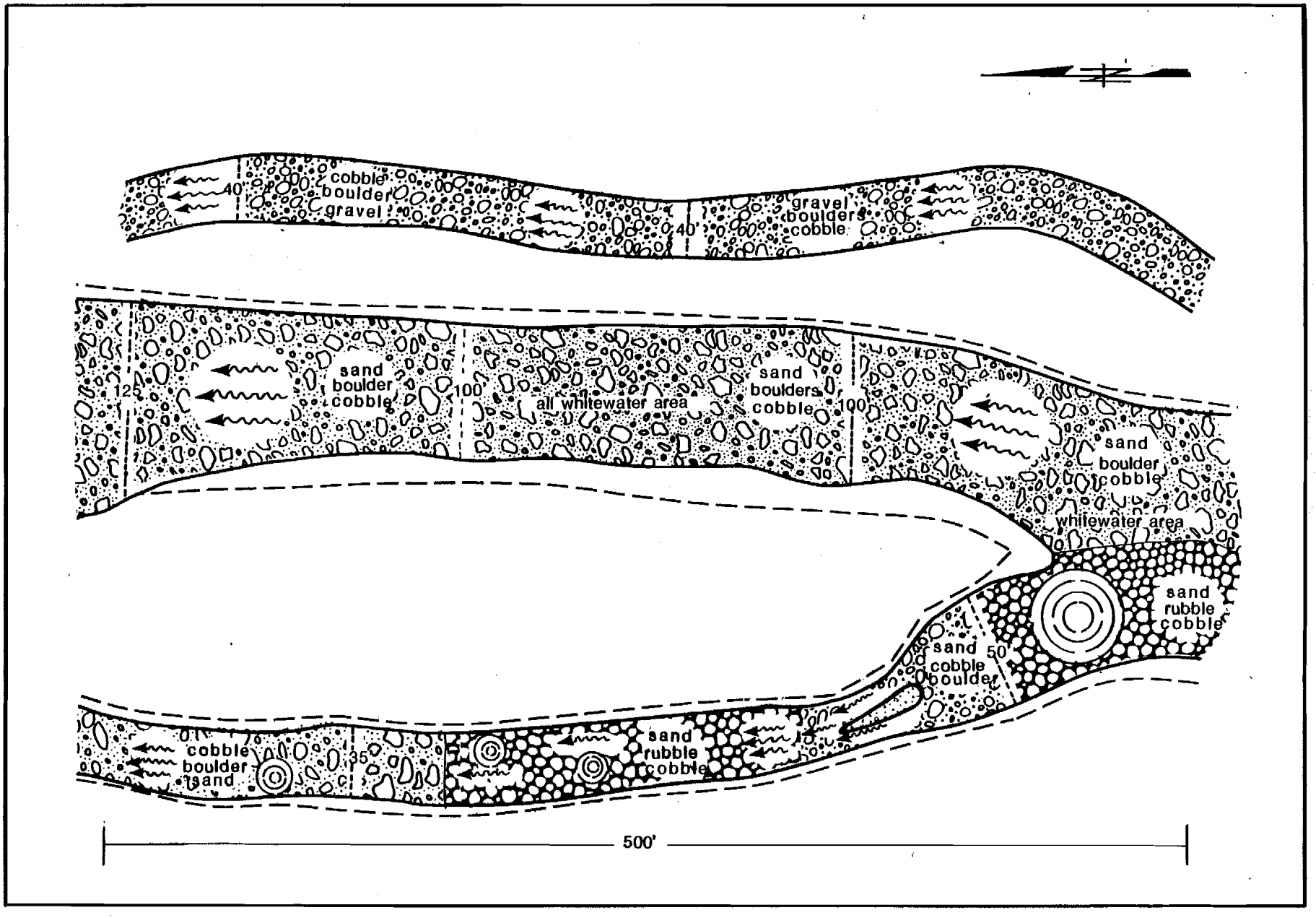

Figure EA-58. Planimetric map of Kosina Creek - Site 02 (R.M. 202.4, G.C. 31N08E15BAC).

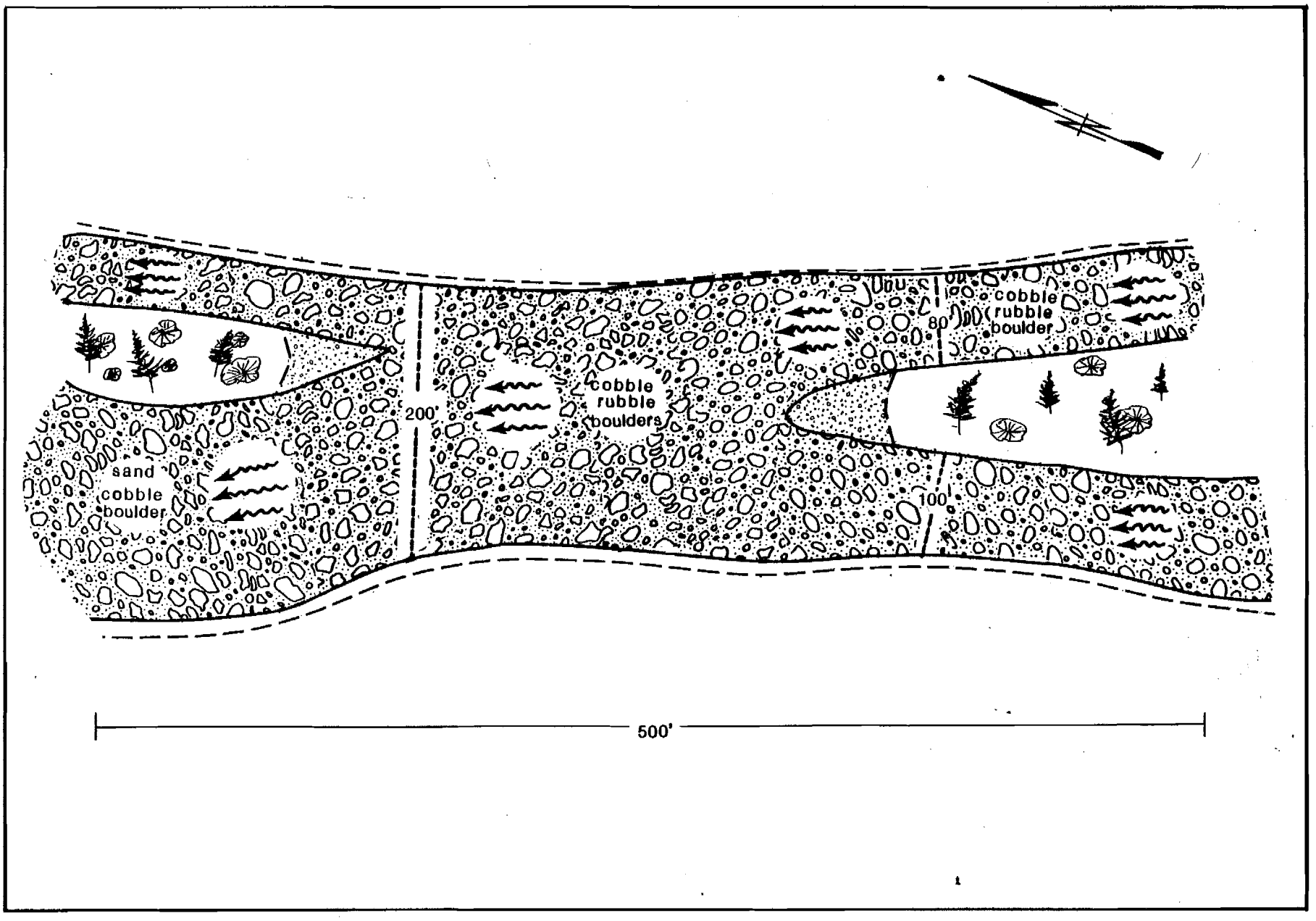

Figure EA-59. Planimetric map of Kosina Creek - Site 03 (R.M. 202.4, G.C. 31N08E15BCA).

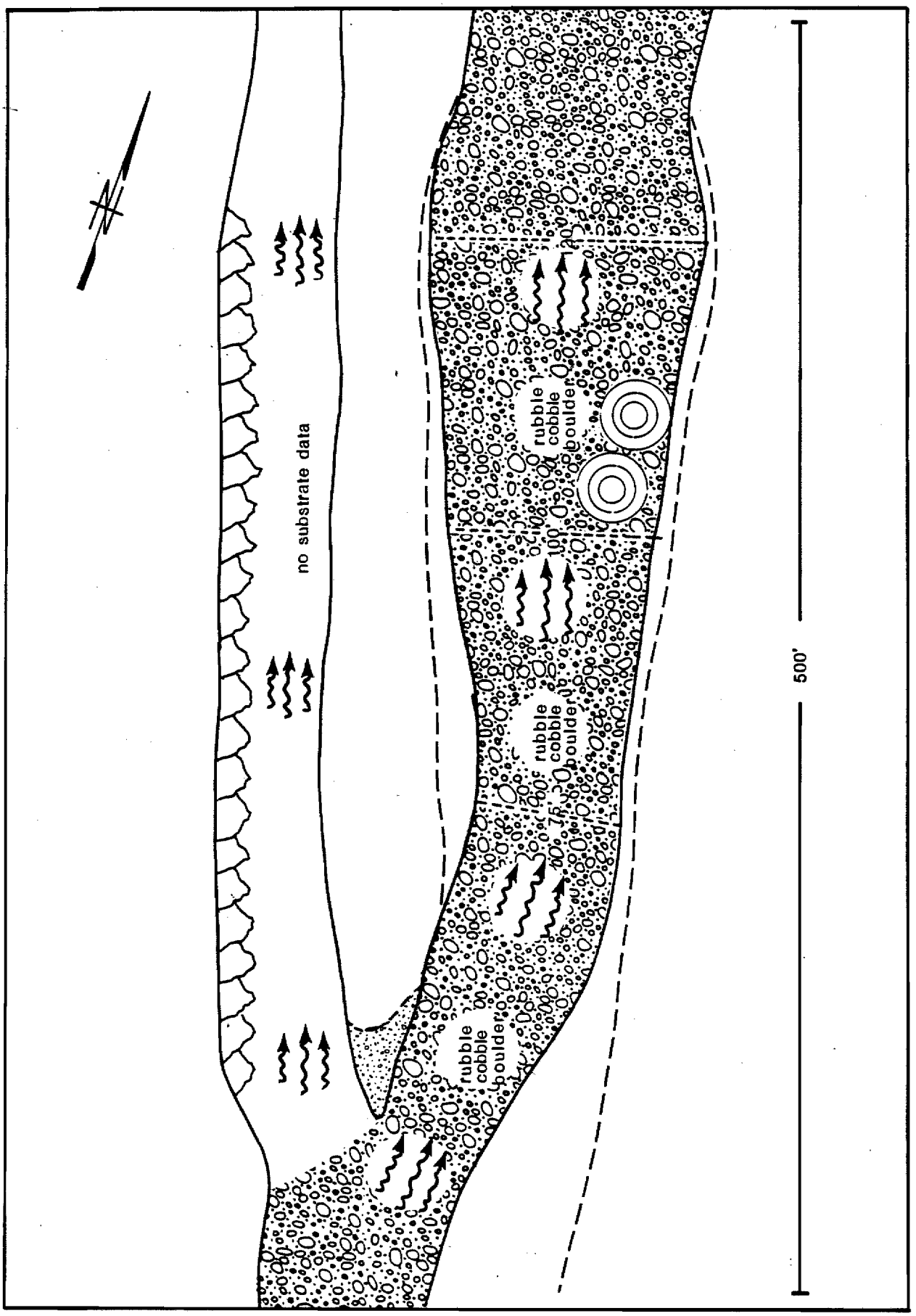

Figure EA-60. Planimetric map of Kosina Creek - Site 04 (R.M. 202.4, G.C. 31N08E15CBA).

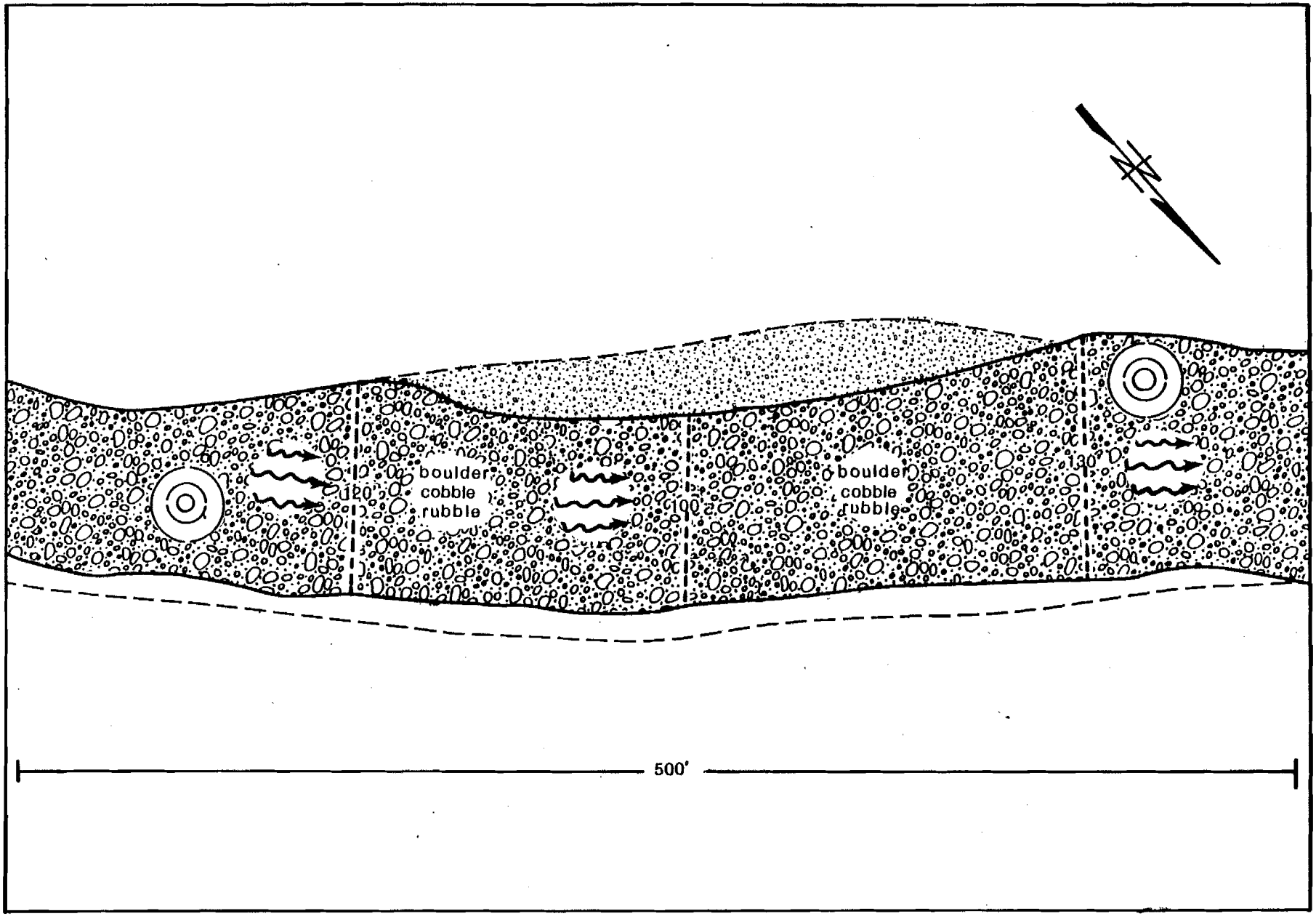

Figure EA-61. Planimetric map of Kosina Creek - Site 05 (R.M. 202.4, G.C. 31N08E15CCA).

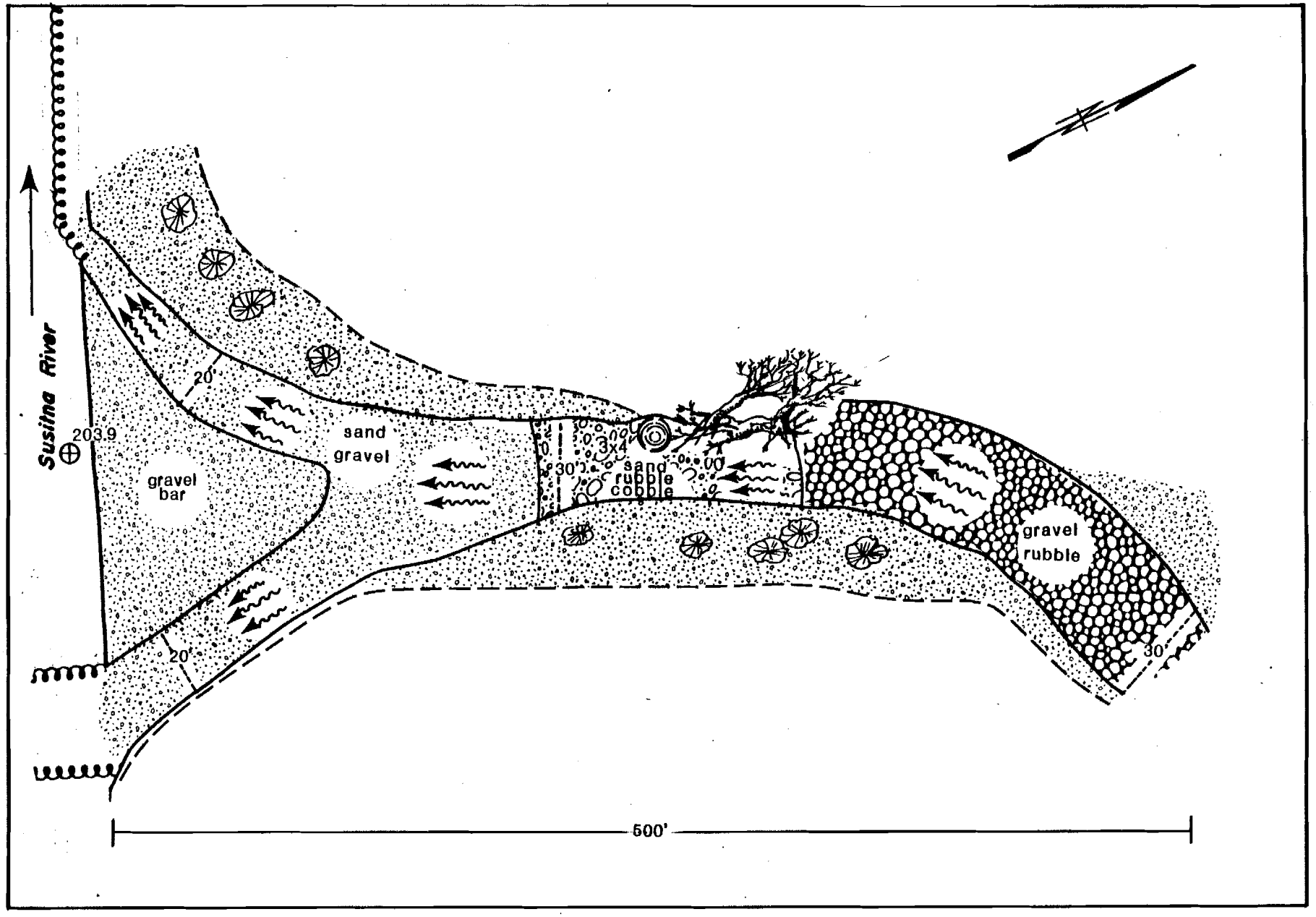

Figure EA-62. Planimetric map of Jay Creek - Site 01 (R.M. 203.9, G.C. 31N08E13BCC).

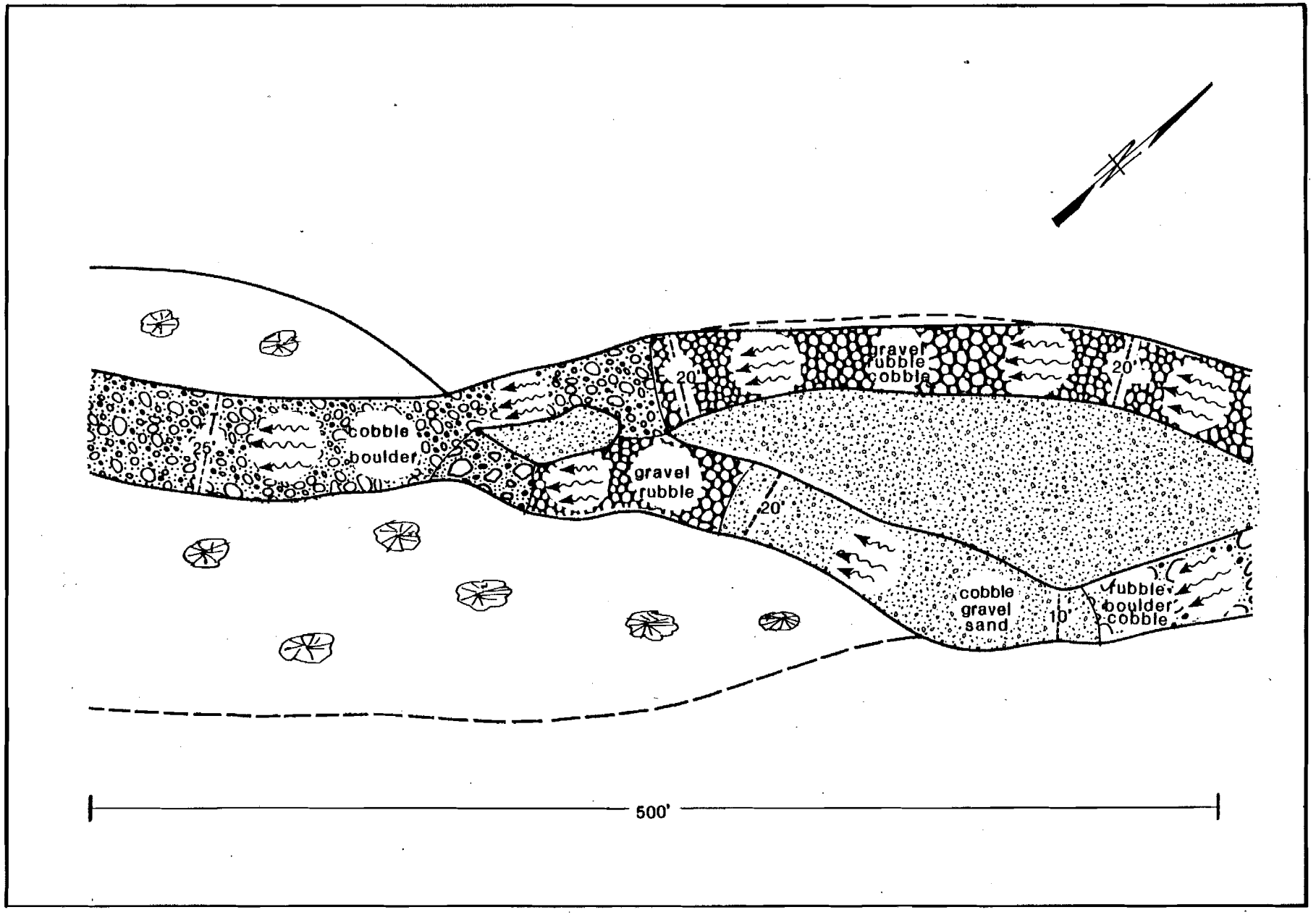

Figure EA-63. Planimetric map of Jay Creek - Site 02 (R.M. 203.9, G.C. 31N08E13BCA).

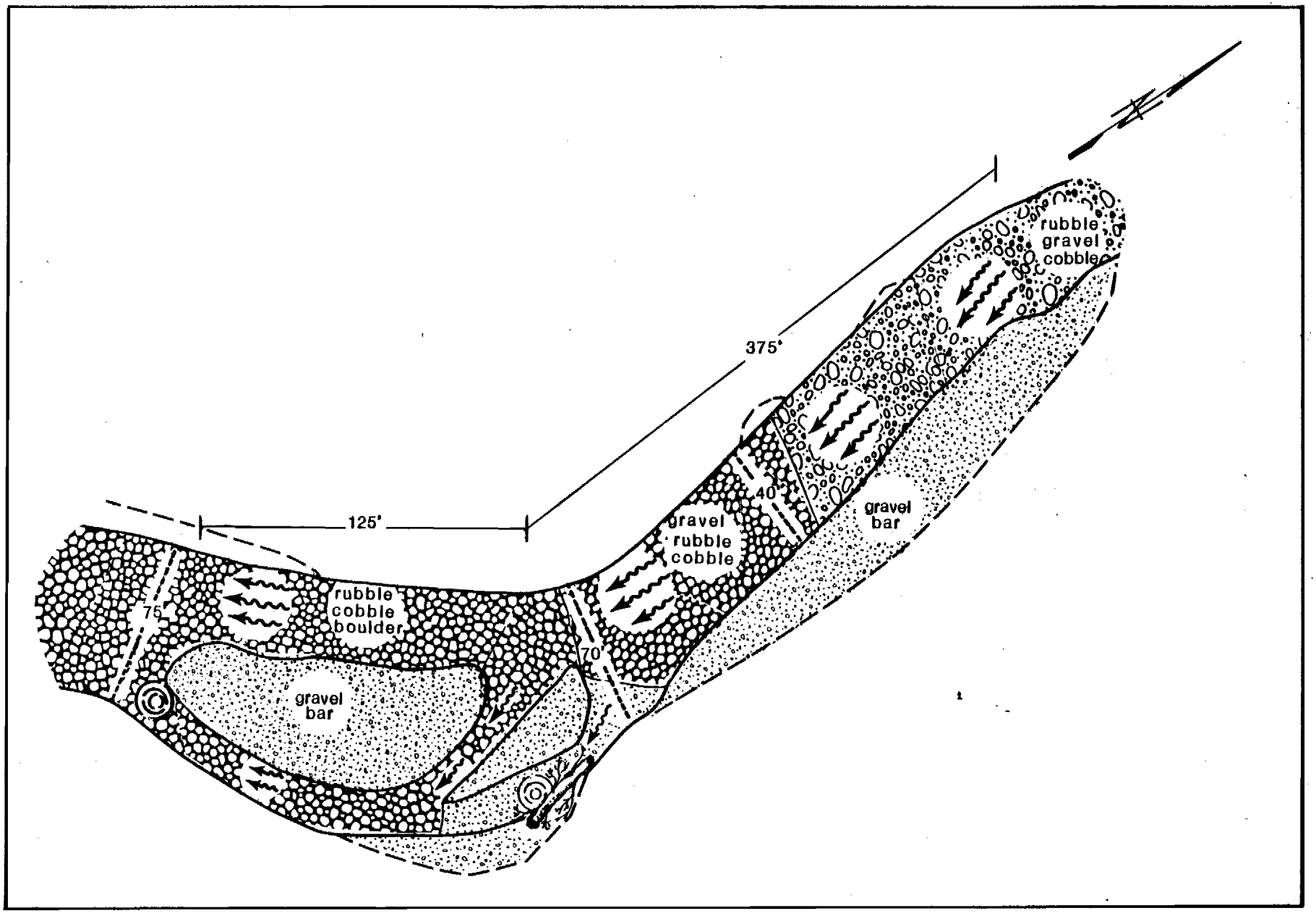

Figure EA-64. Planimetric map of Jay Creek - Site 03 (R.M. 203.9, G.C. 31N08E13BAC).

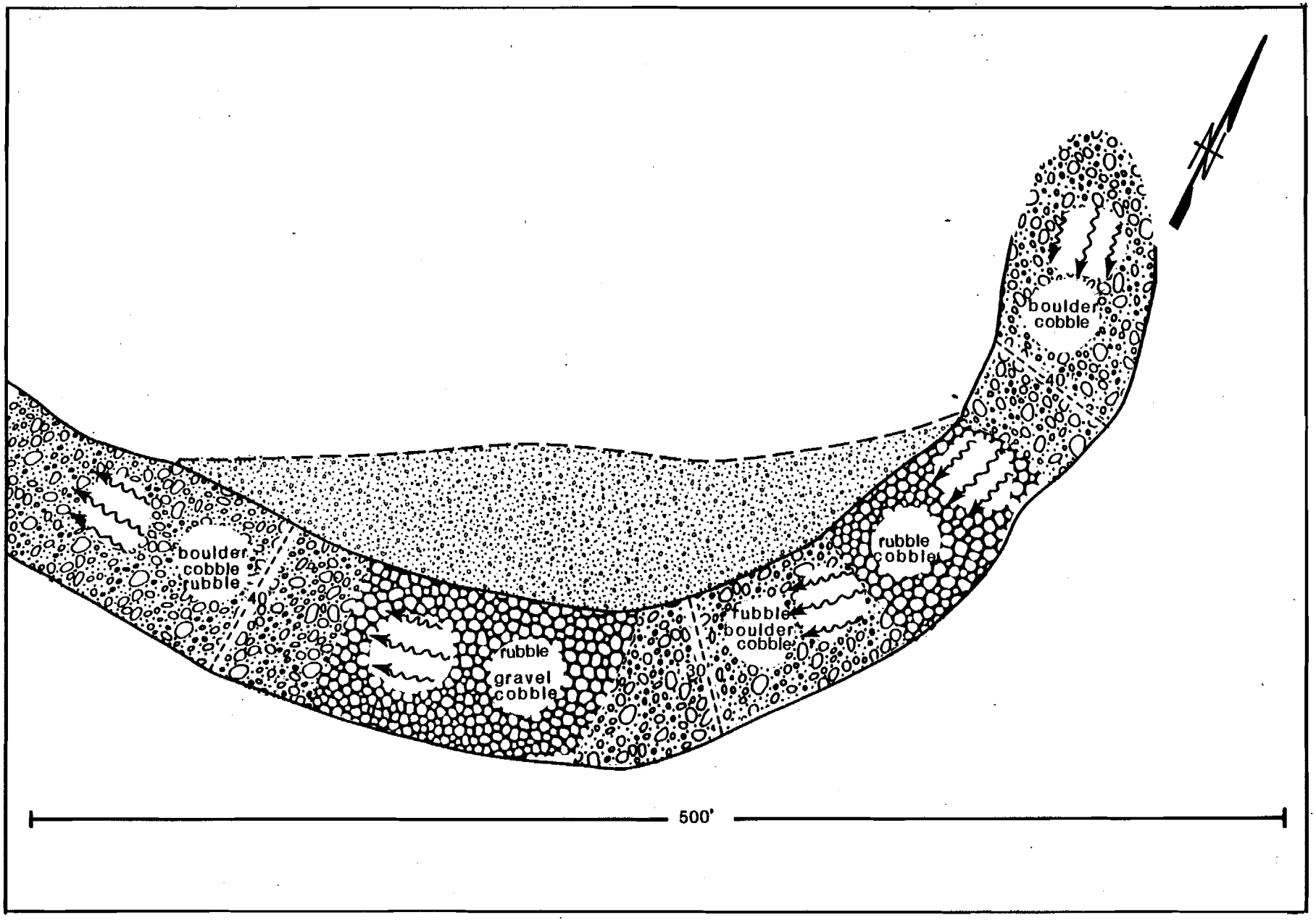

Figure EA-65. Planimetric map of Jay Creek - Site 04 (R.M. 203.9, G.C. 31N08E13BAA).

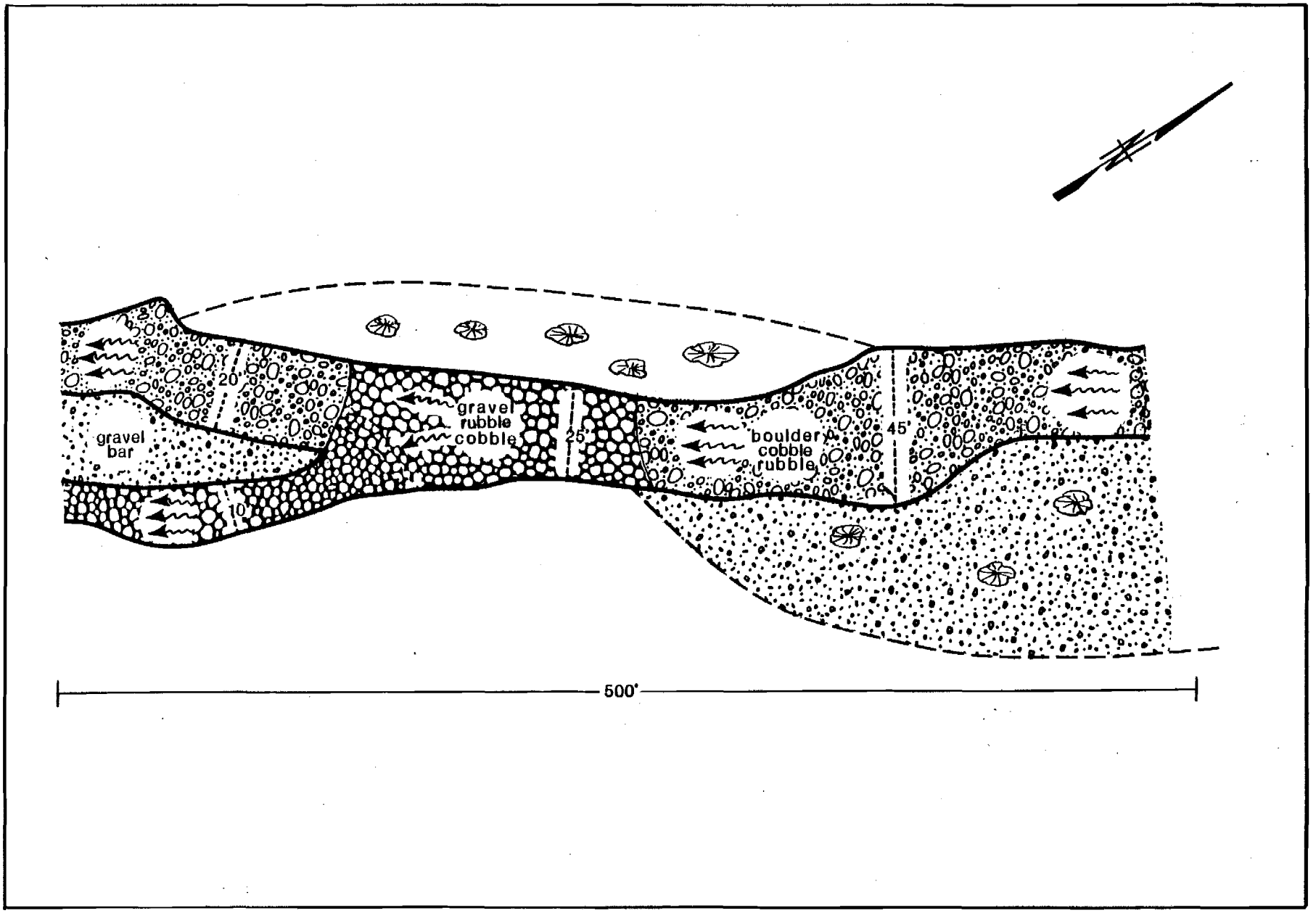

Figure EA-66. Planimetric map of Jay Creek - Site 05 (R.M. 203.9, G.C. 31N08E12DCB).

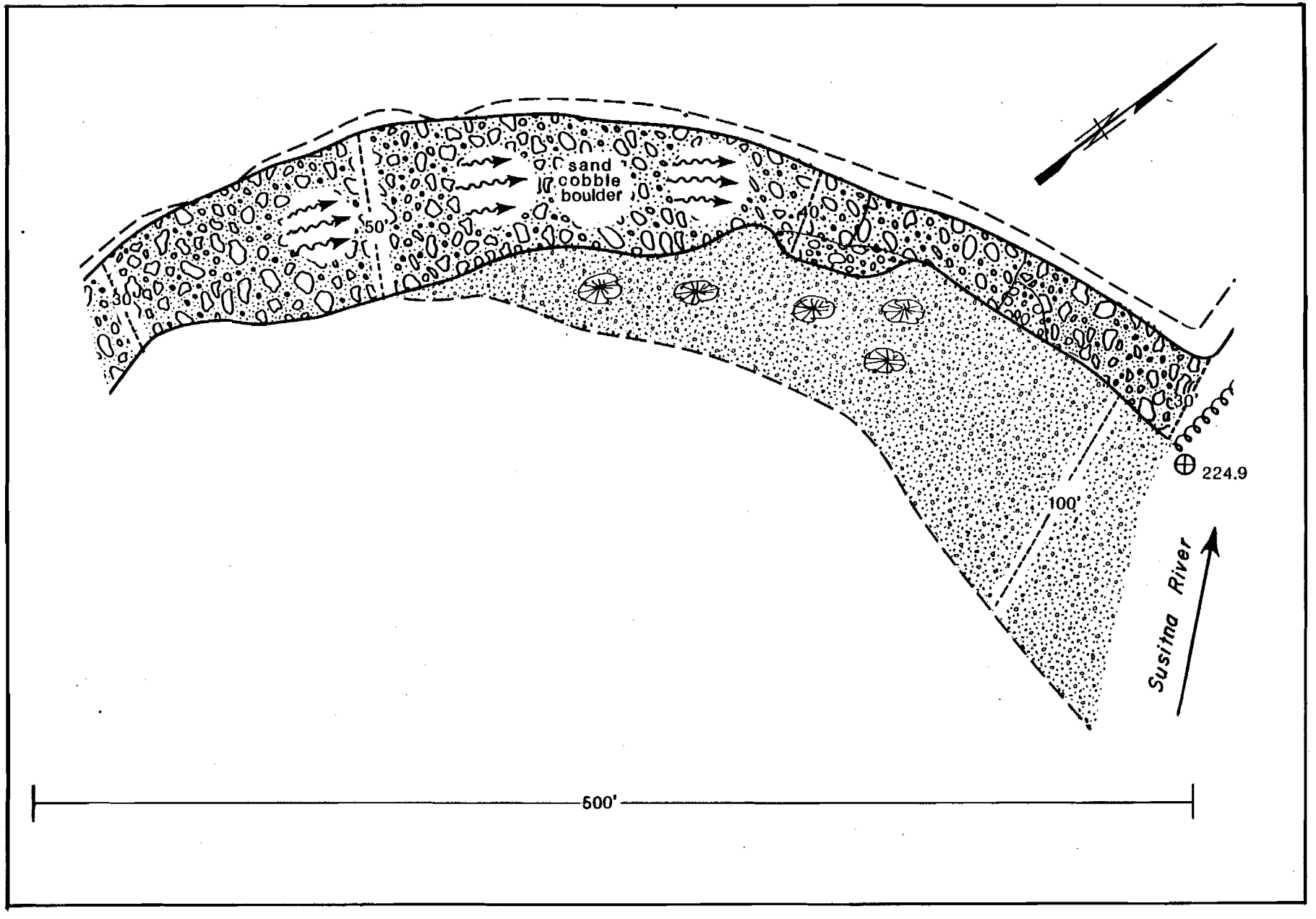

Figure EA-67. Planimetric map of Goose Creek (Upper) - Site 01 (R.M. 224.9, G.C. 30N11E32DBC).

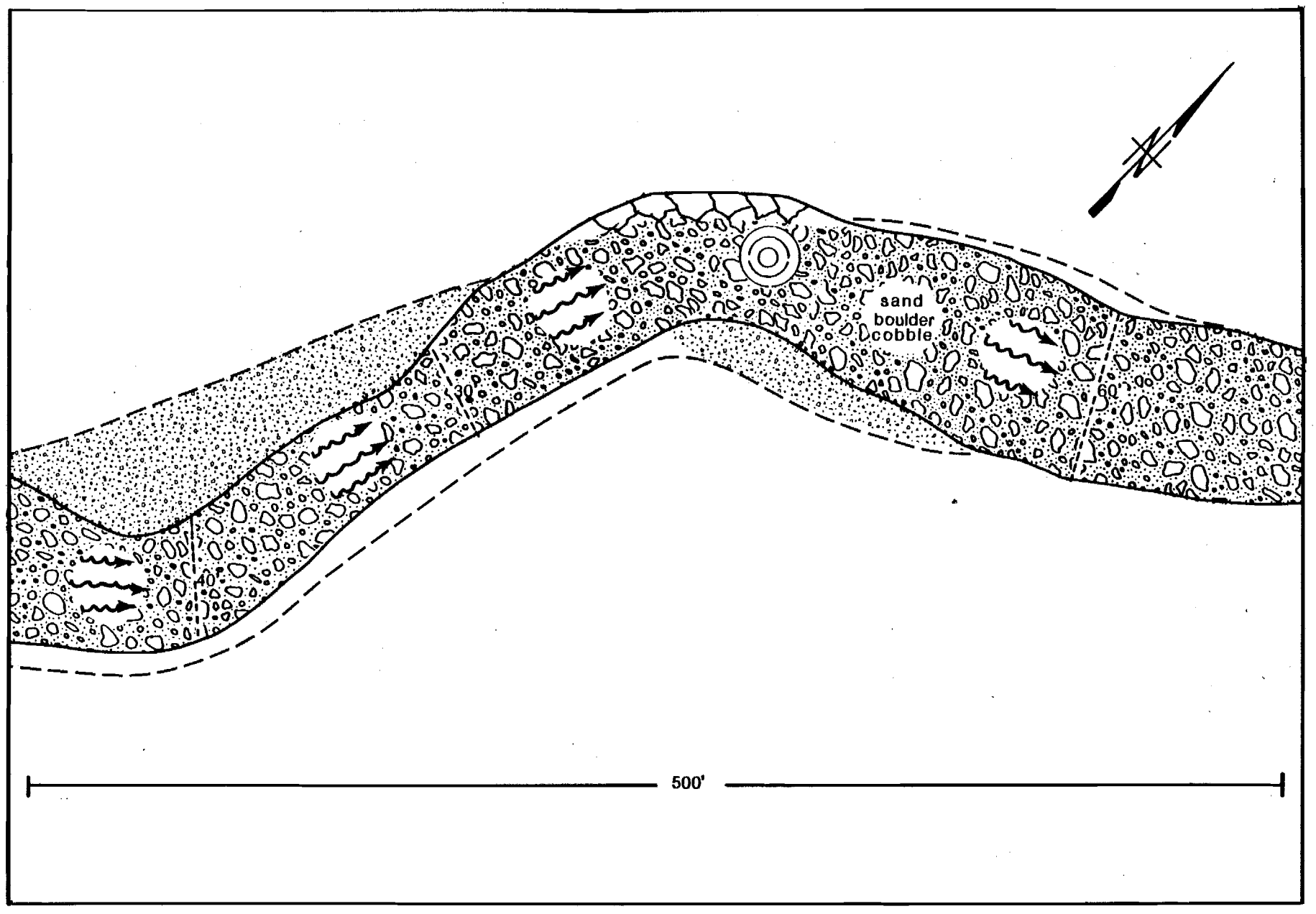

Figure EA-68. Planimetric map of Goose Creek (Upper) - Site 02 (R.M. 224.9, G.C. 30N11E32CDA).

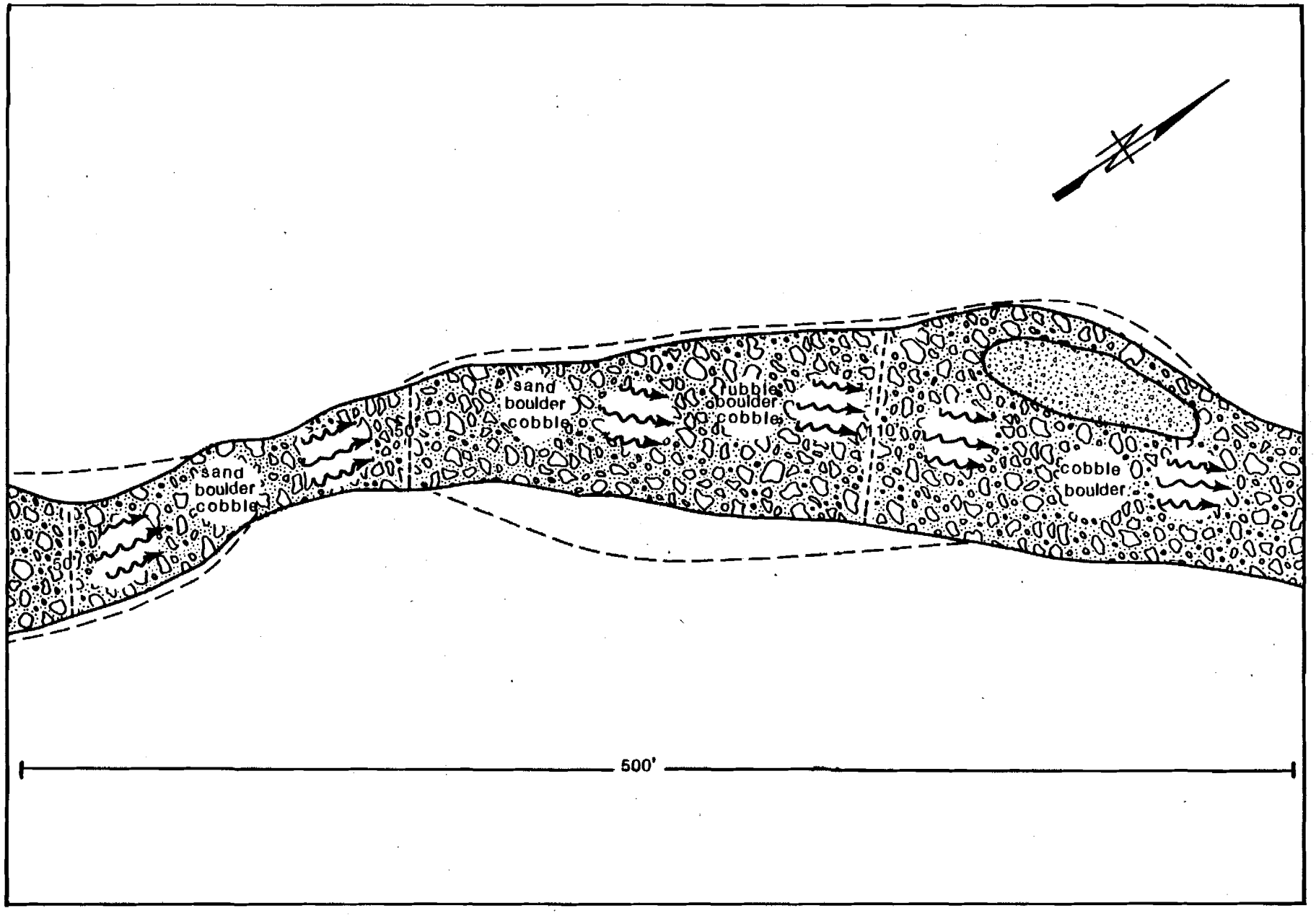

Figure EA-69. Planimetric map of Goose Creek (Upper) - Site 03 (R.M. 224.9, G.C. 30N11E32CDC).

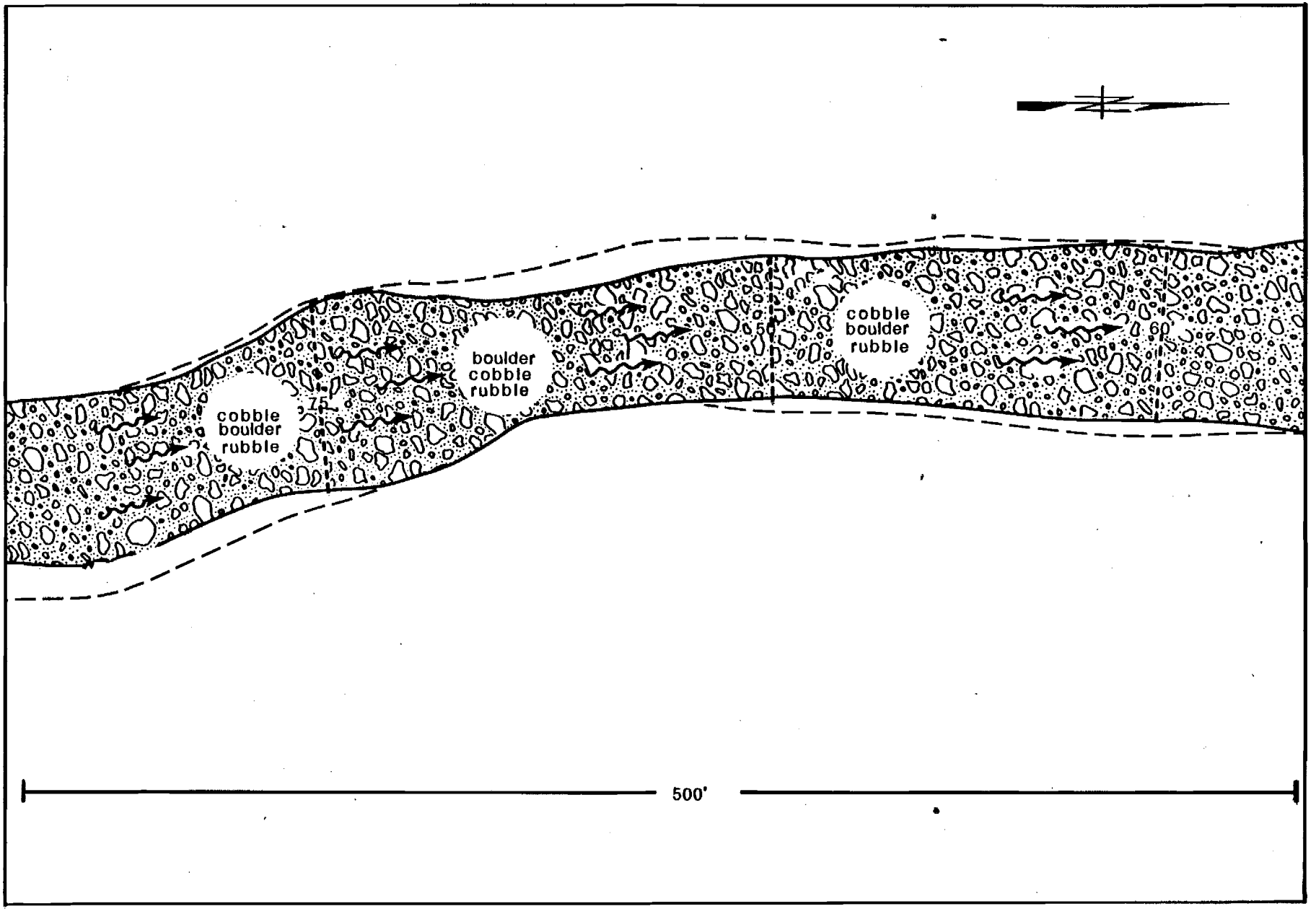

Figure EA-70. Planimetric map of Goose Creek (Upper) - Site 04 (R.M. 224.9, G.C. 29N11E05BBC).

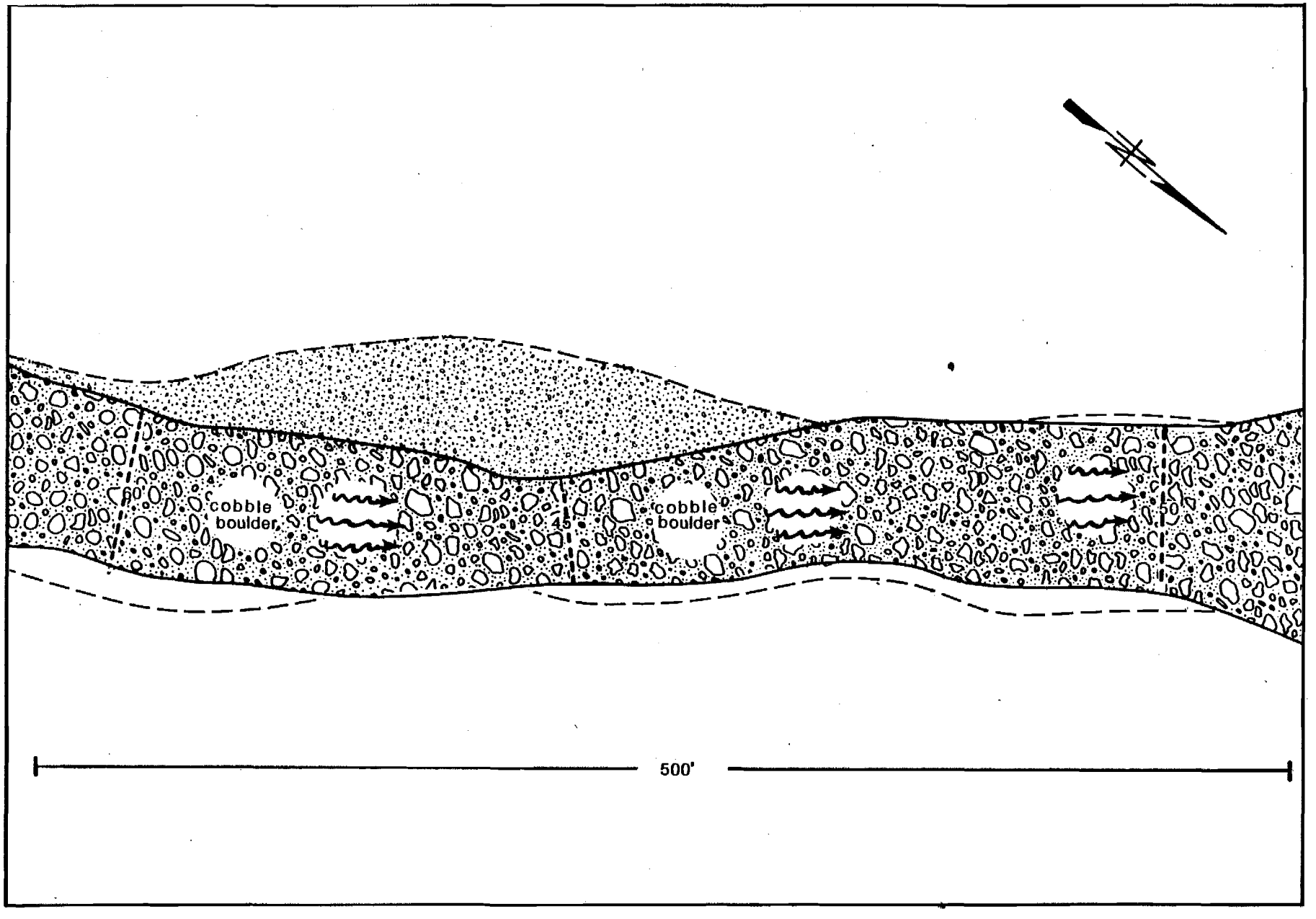

Figure EA-71. Planimetric map of Goose Creek (Upper) - Site 05 (R.M. 224.9, G.C. 29N11E05BCB).

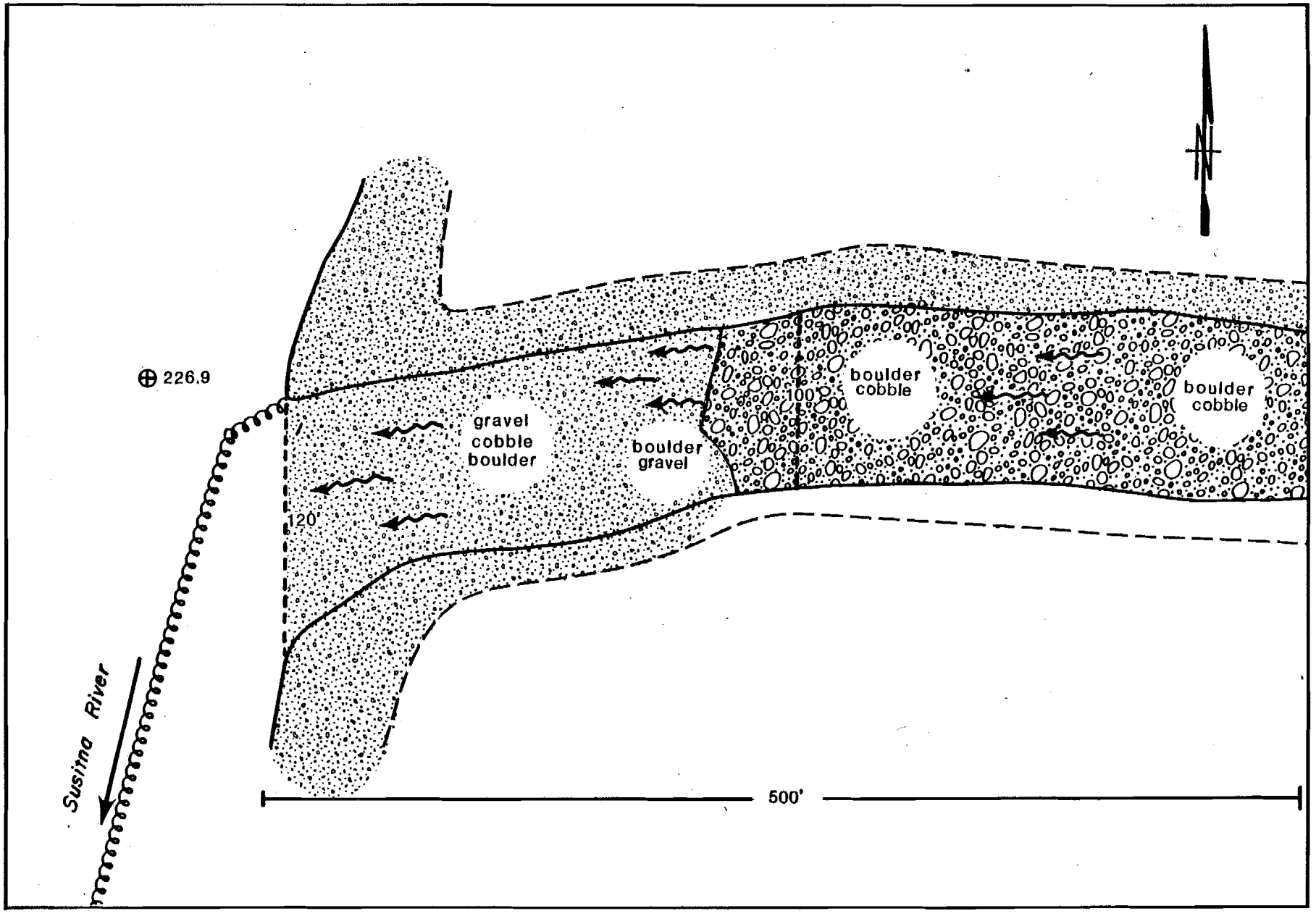

Figure EA-72. Planimetric map of Oshetna River - Site 01 (R.M. 226.9, G.C. 30N11E34CCD).

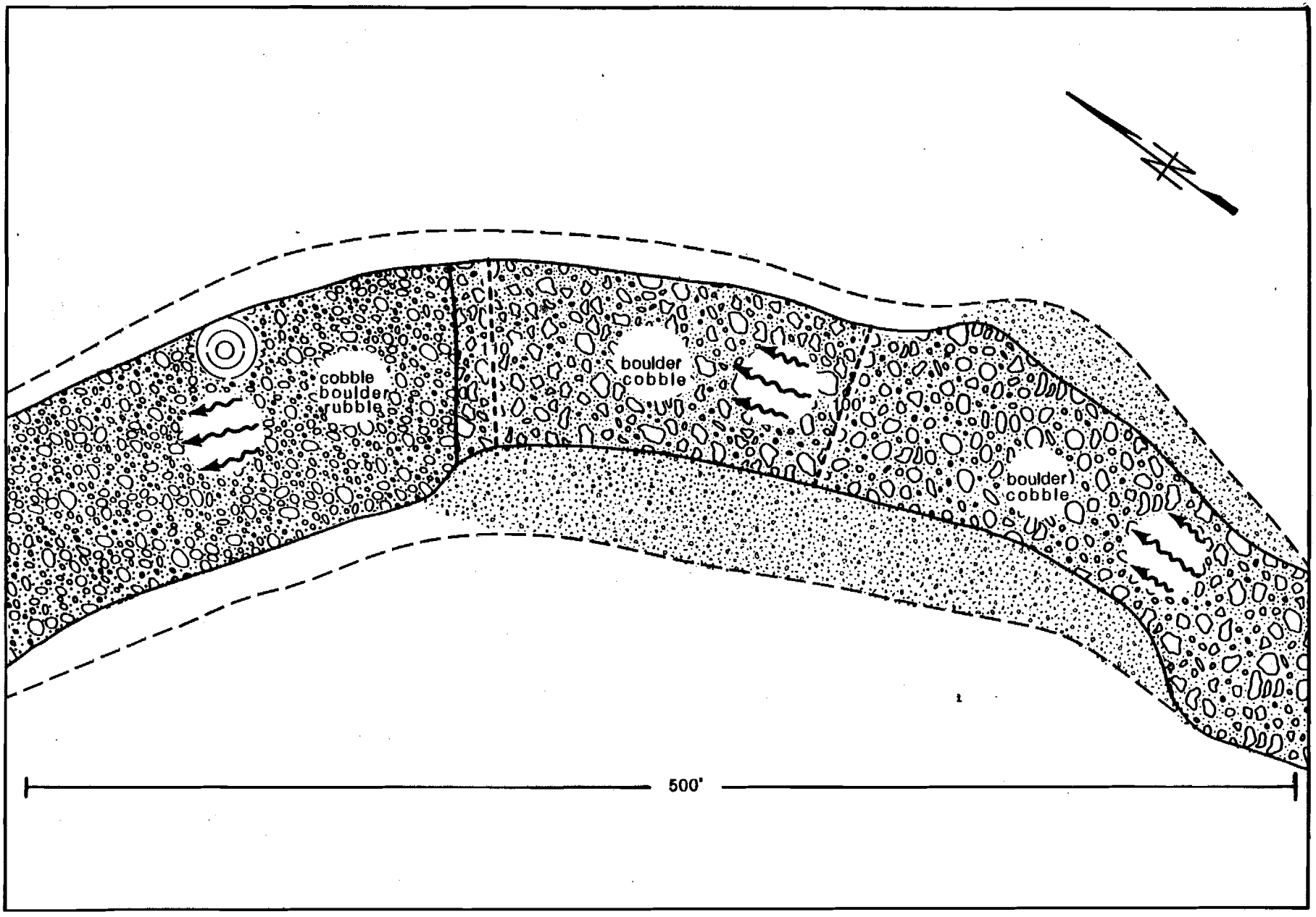

Figure EA-73. Planimetric map of Oshetna River - Site 02 (R.M. 226.9, G.C. 29N11E03BAB).

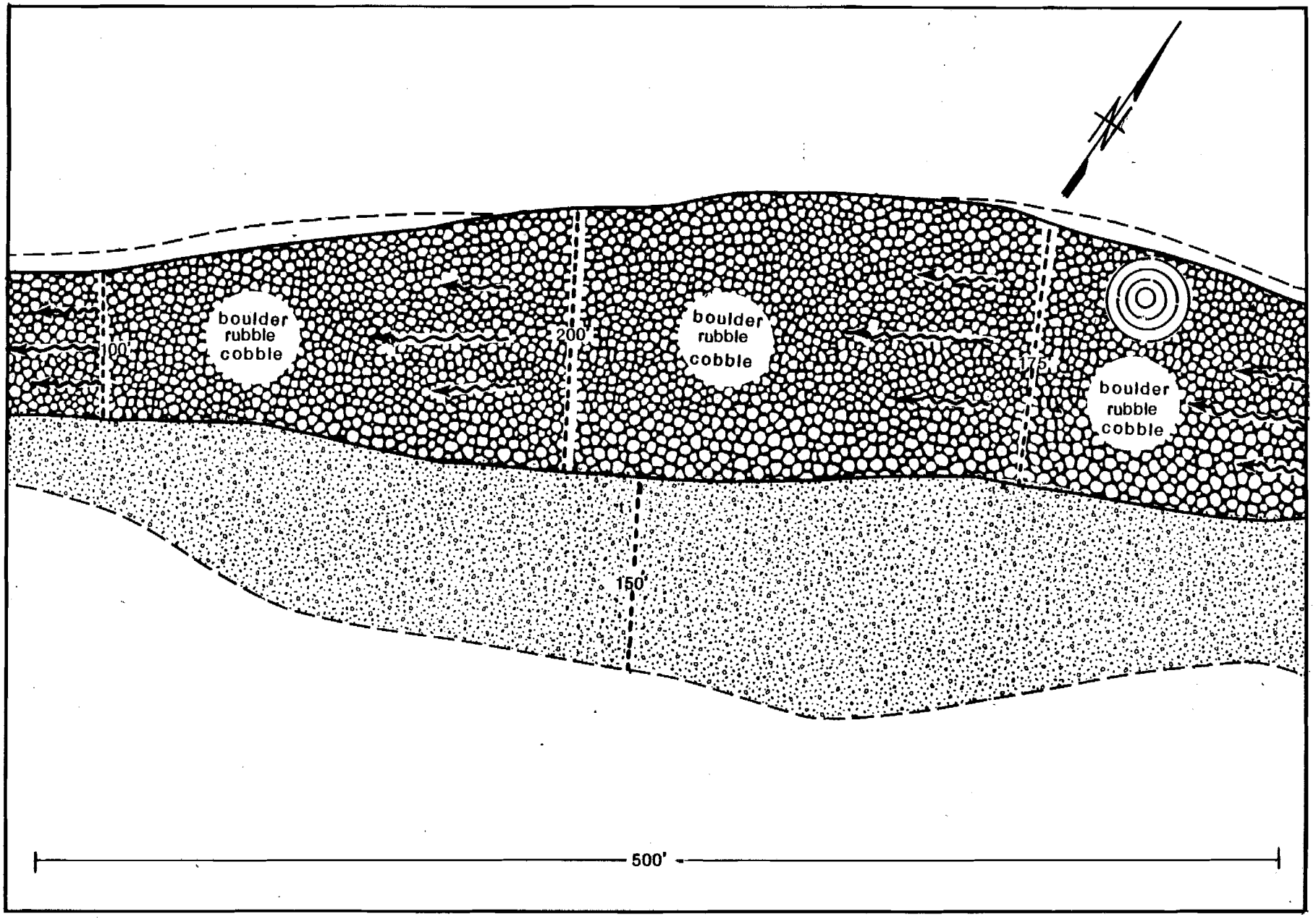

Figure EA-74. Planimetric map of OShetna River - Site 03 (R.M. 226.9, G.C. 29N11E03BAC).

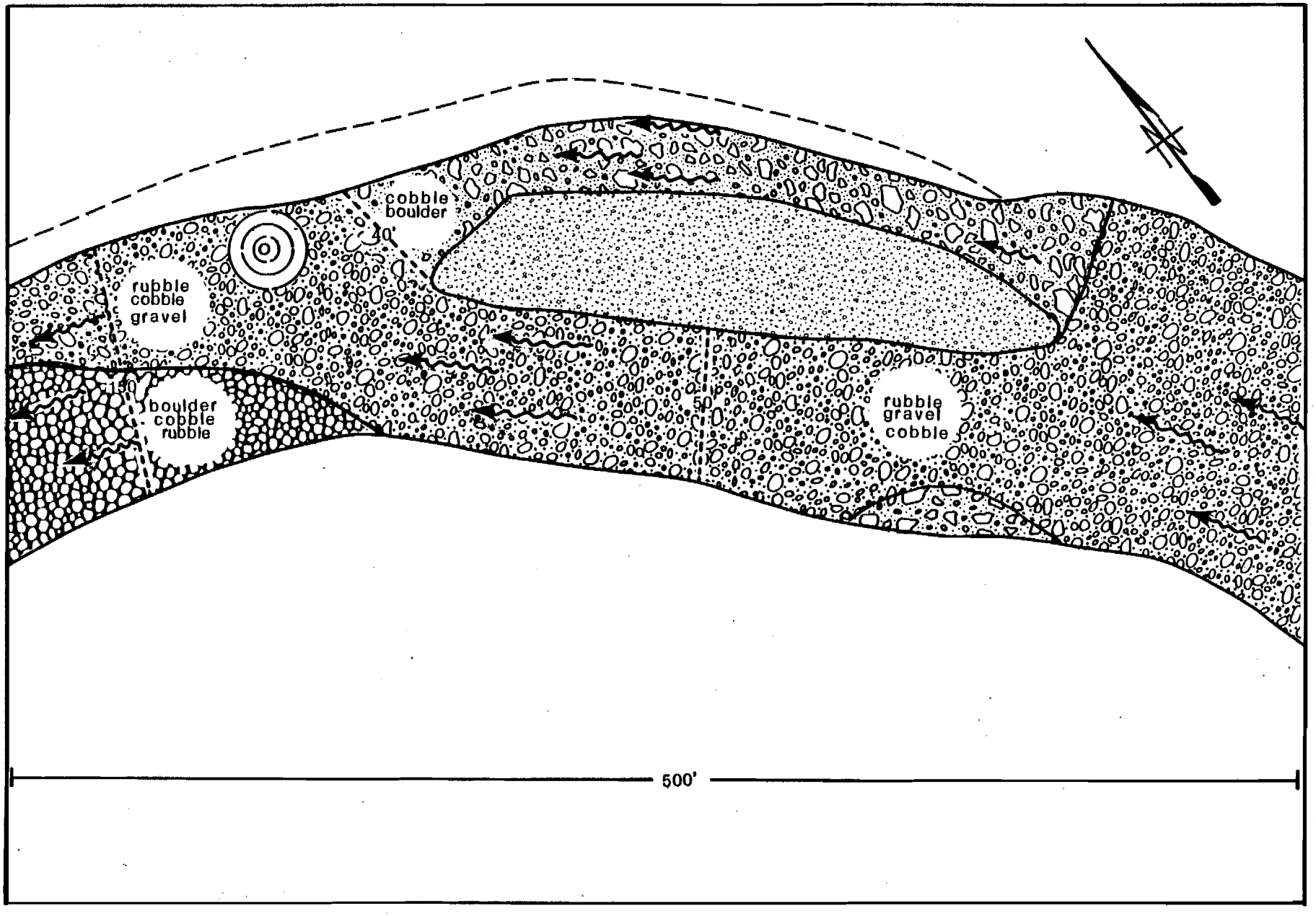

Figure EA-75. Planimetric map of Oshetna River - Site 04 (R.M. 226.9, G.C. 29N11E03ACB).

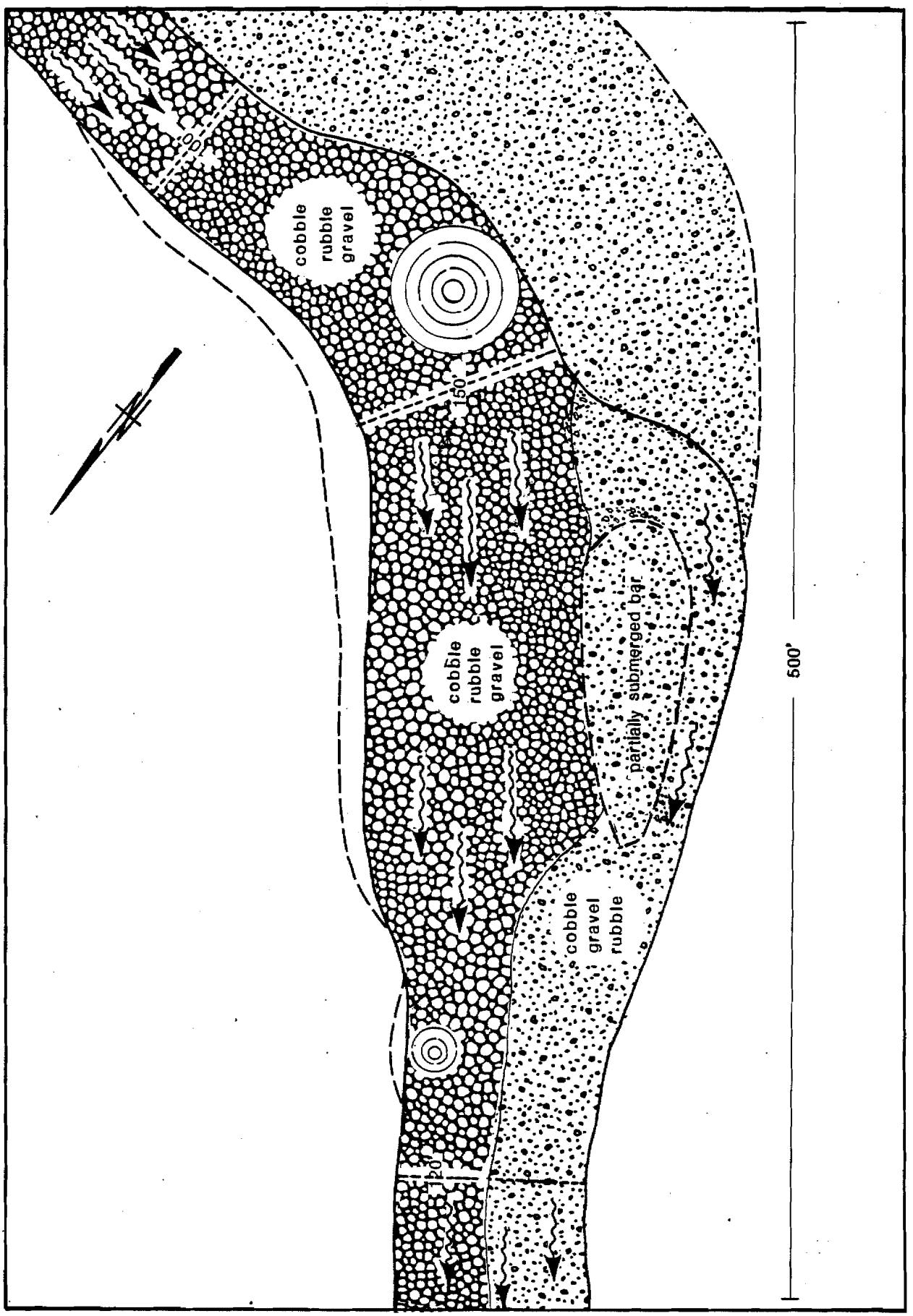

Figure EA-76. Planimetric map of Oshetna River - Site 05 (R.M. 226.9, G.C. 29N11E03ACC).

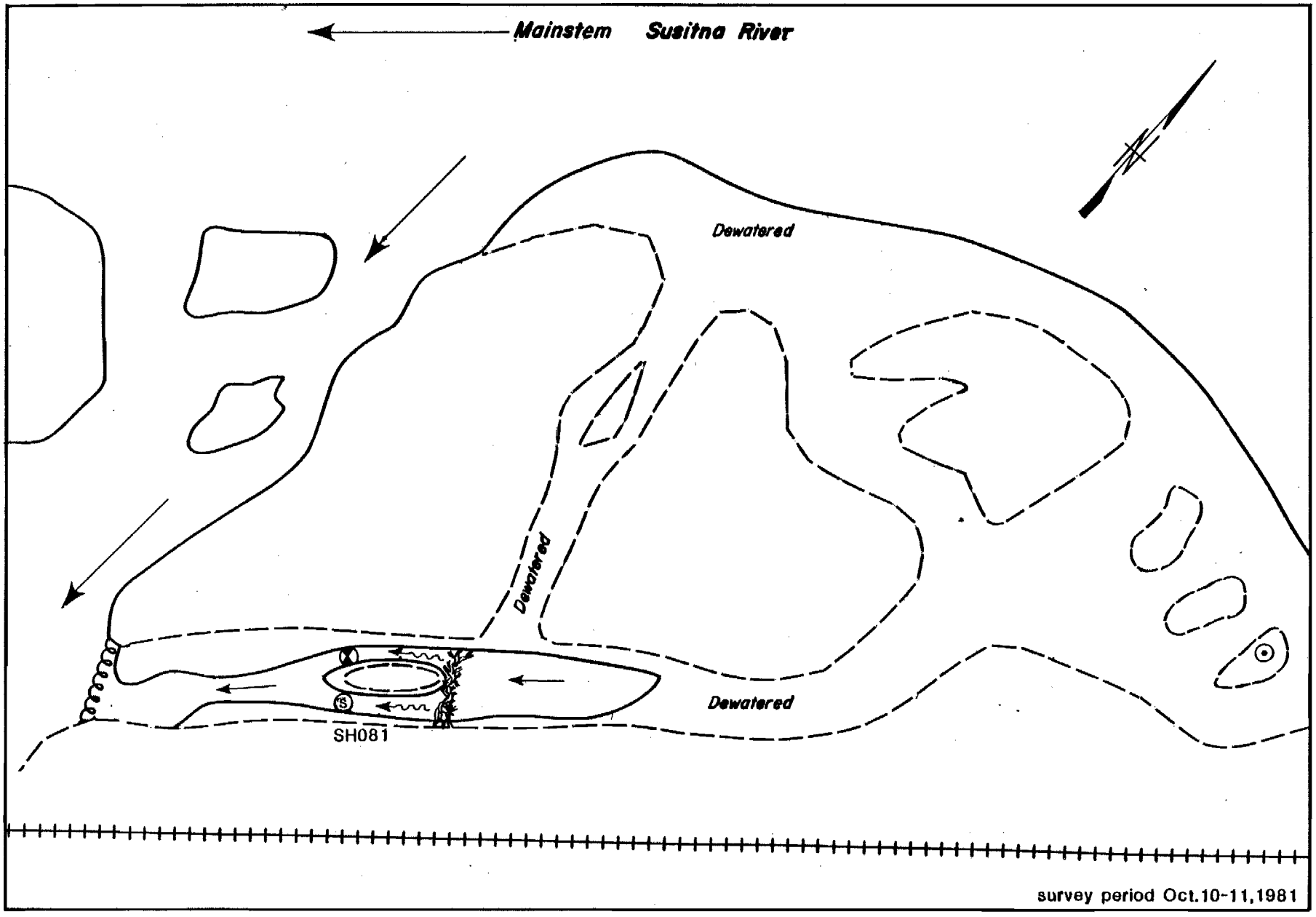

Figure EA-77. Planimetric map of Slough 8A (R.M. 125.3, G.C. 30N03W30AAB).

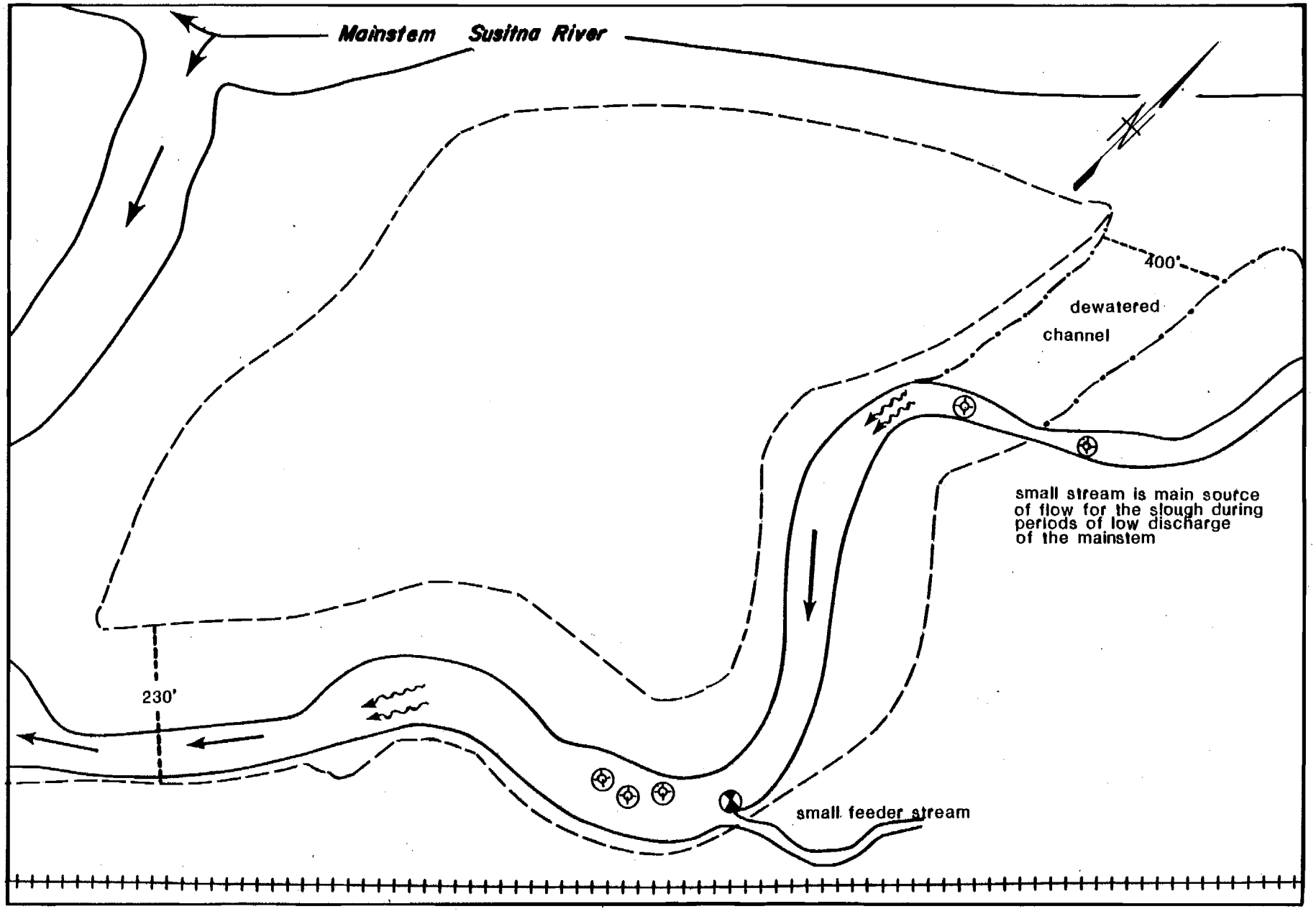

Figure EA-78. Planimetric map of Slough 9. (R.M. 129.0, G.C. 30N03W16ABC).

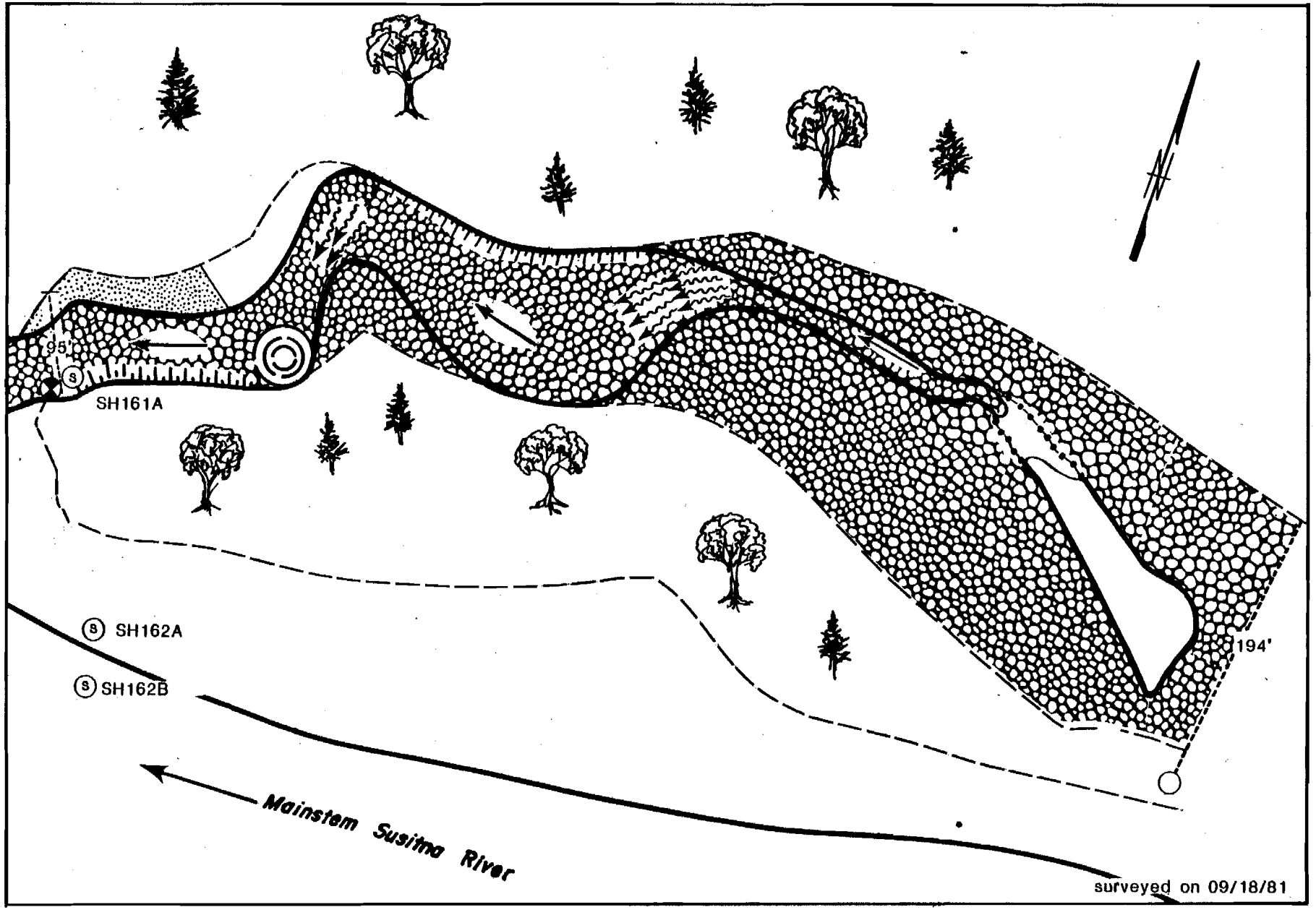

Figure EA-79. Planimetric map of Slough 16B (R.M. 139.0, G.C. 31N11W17ABD).

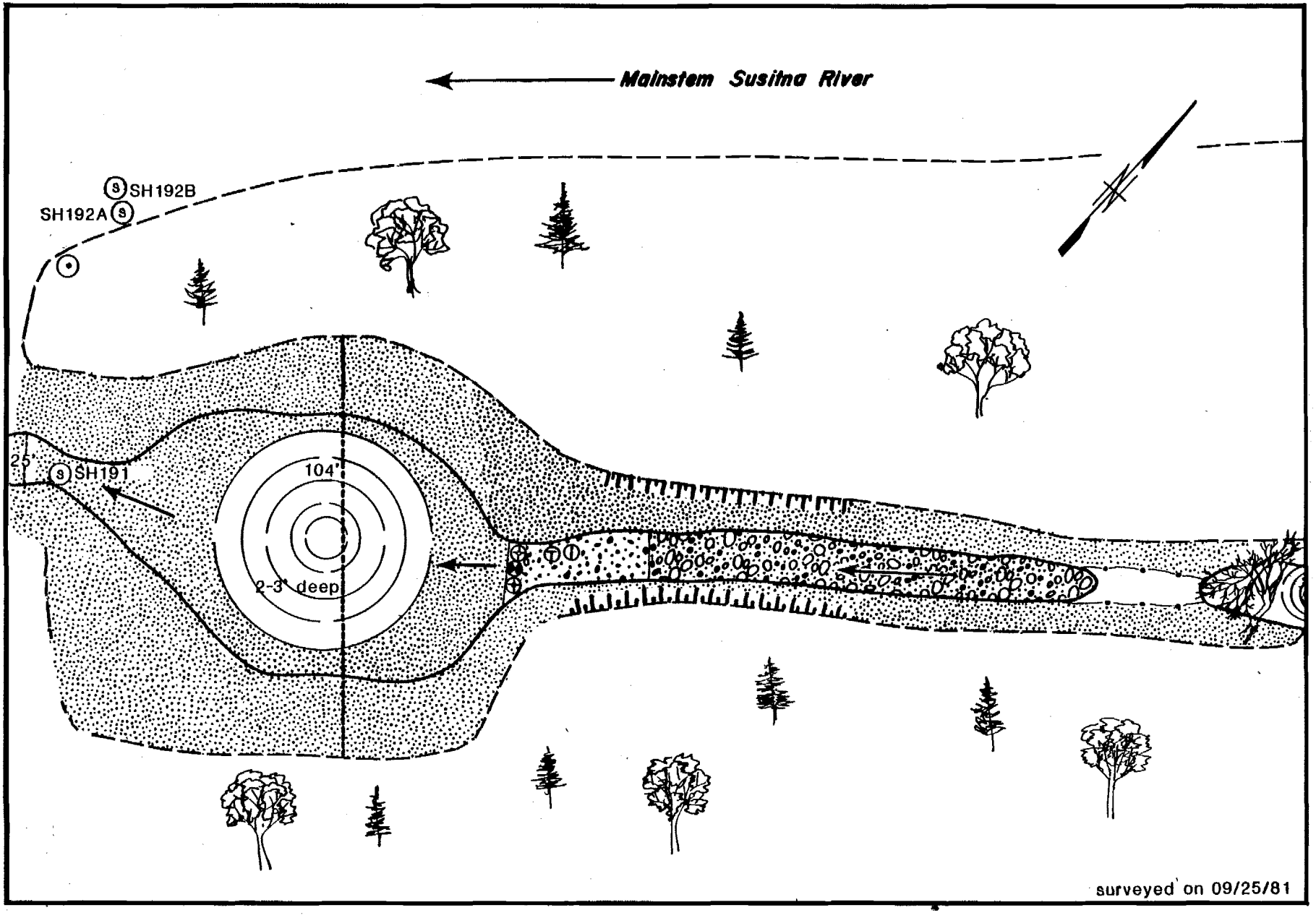

Figure EA-80. Planimetric map of Slough 19 (R.M. 140.0, G.C. 31N11W10DBB).

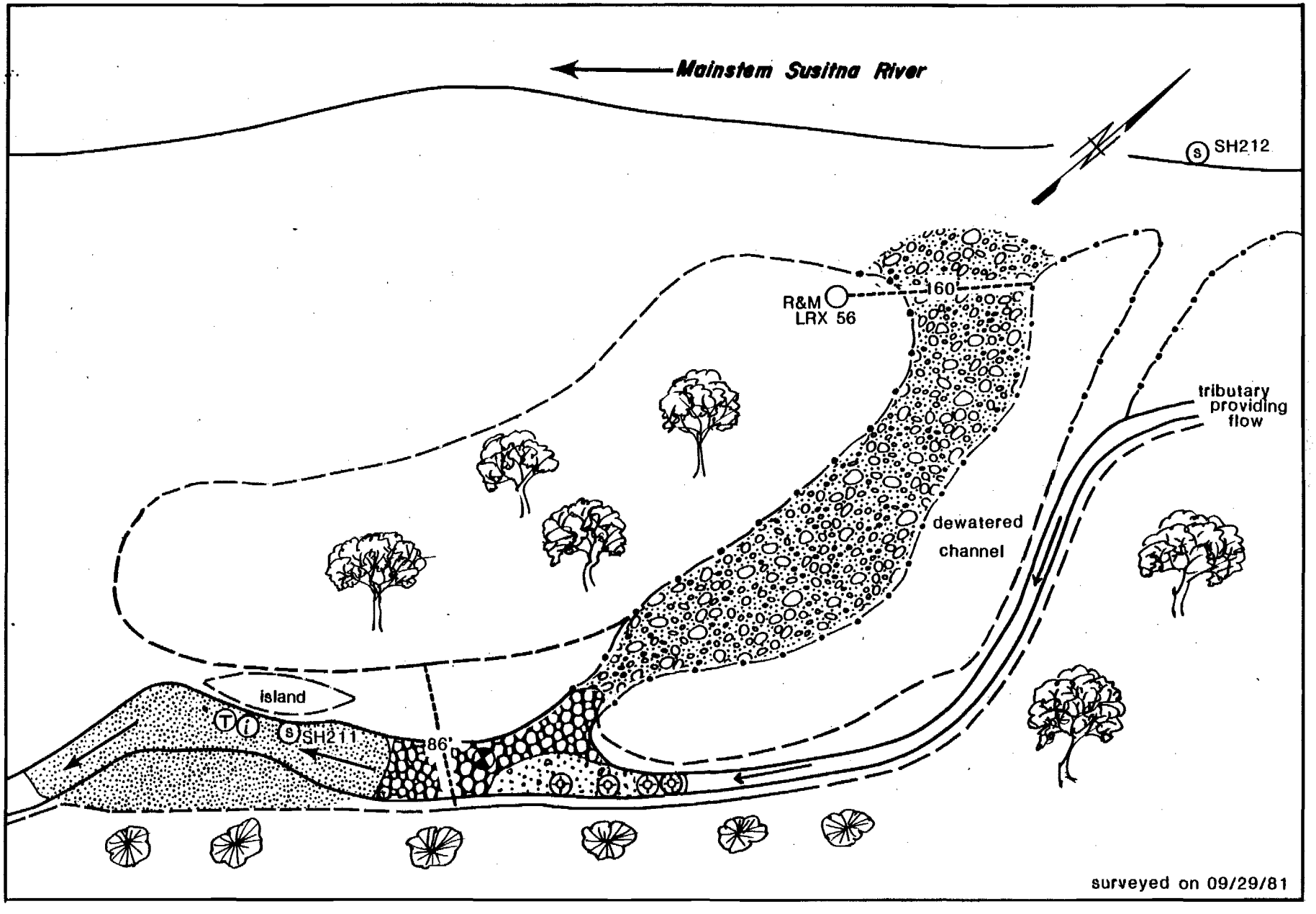

Figure EA-81. Planimetric map of Slough 21 (R.M. 142.0,G.C. 31N11W02AAA).

APPENDIX EB.

Physiochemical data tables for each general habitat evaluation study site.

Table EB-1. Habitat Location - Alexander Creek, Site A

River Mile 10.1

Geographic Code - 15N 07W 06 DCA

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810607	1005	9.10	6.90	80.00	11.90	12.60	4.00
810702	1950	10.20	7.20	98.00		14.40	1.40
810720	1500	8.90		88.00	12.20	13.70	2.40
810811	1720	9.20		78.00	11.90	13.60	5.50
810827	1720						8.00
810911	1845	9.80		99.00	11.00	11.60	29.00

Table EB-2. Habitat Location - Alexander Creek, Site B

River Mile 10.1

Geographic Code - 16N 07W 32 CCB

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810702	1555	9.60	7.10	96.00	14.40	14.30	2.50
810718	1800	9.10		90.00	14.80	15.40	3.10
810811	1700	9.00		78.00	12.00	13.30	4.00
810827	1530						12.00
810911	1730	9.70		94.00	15.50	11.70	36.00

Table EB-3. Habitat Location - Alexander Creek, Site C

River Mile 10.1

Geographic Code - 16N 07W 30 ACD

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810622	2025	8.80		92.00	15.60	17.80	.99
810702	1320	9.60	7.10	95.00	21.00	14.10	2.10
810718	1935	8.40	6.40	88.00	13.30	15.70	3.30
810811	1600	9.20		76.00	12.50	13.40	5.50
810827	1330						7.00
810911	1550	9.60		86.00	15.00	12.30	24.00

Table EB-4. Habitat Location - Anderson Creek

River Mile 23.8

Geographic Code - 17N 07W 29 DDD

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810604	1545	8.50	6.50	87.00	15.60	12.30	4.00
810622	1530	8.70		117.00	21.40	14.30	110.00
810704	1115	8.40	7.00	123.00		14.20	35.50
810716	1830	11.20	7.90	98.00	15.80	8.90	155.00
810810	1715	11.10		105.00	12.20	8.80	190.00
810826	1415						12.00
810911	1415	9.00		91.00	18.00	10.20	34.00
810927	1615	11.30	6.50	70.00	6.10	6.00	17.00

Table EB-5. Habitat Location - Kroto Slough Mouth

River Mile 30.1

Geographic Code - 17N 07W 01 DBC

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810606	1330	8.90	7.00	130.00	19.80	15.60	18.00
810620	1500	8.80		110.00	25.00	16.80	150.00
810704	1430	9.60	7.40	112.00		15.10	56.00
810717	1310	9.70	6.80	80.00	20.20	11.70	125.00
810814	1130			103.00	15.50	10.20	65.00
810910	1700	8.30		199.00	11.00	13.40	54.00
810927	1520	9.90	9.70	195.00	10.10	5.90	37.00

Table EB-6. Habitat Location - Mid-Kroto Slough

River Mile 36.3

Geographic Code - 18N 06W 16 BBC

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810610	1400	10.90	7.30	115.00	17.40	10.90	21.00
810619	1950	9.80		114.00	21.00	15.20	200.00
810705	1640	9.80	7.40	108.00		14.10	74.00
810721	1100	10.10		94.00	13.70	10.50	145.00
810809	1715	10.40		101.00	17.40	11.50	160.00
810914	1515	10.90		132.00	15.00	8.90	49.00

Table EB-7. Habitat Location - Mainstem Slough

River Mile 31.0

Geographic Code - 17N 06W 05 CAB

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810705	1515	9.70	7.40	81.00		14.30	109.00
810718	1345	10.10	7.00	88.00	15.80	11.70	140.00
810810	1310	10.90		108.00	15.80	14.90	225.00
810826	1330						62.00
810909	1920	11.00		125.00	13.00	9.20	99.00
810927	1330	12.00	9.20	137.00	8.10	3.60	24.50

Table EB-8. Habitat Location - Deshka River, Site A

River Mile 40.6

Geographic Code - 19N 06W 35 BDA

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810707	1300	8.20	6.90	56.00		15.80	3.10
810721	1610	9.80	6.60	56.00	18.00	12.40	90.00
810807	1345	9.60		80.00	14.00	12.50	
810830	1300						51.00
810915	1710	10.40		50.00	11.50	10.10	5.40
810927	1715	11.40	7.40	39.00	6.00	5.40	4.00

Table EB-9. Habitat Location - Deshka River, Site B

River Mile 40.6

Geographic Code - 19N 06W 26 BCB

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810618	1955	8.40		66.00	17.80	19.40	2.00
810706	1855	8.60	7.00	51.00		17.50	1.60
810721	1230	9.00		29.00	15.50	13.20	3.30
810806	1715	8.60		35.00	20.80	16.20	
810830	1400						3.10
810915	1745	10.10		51.00	11.00	10.20	3.60
810929	1415	11.50	5.95	46.00	6.00	3.90	3.00

Table EB-10. Habitat Location - Deshka River, Site C

River Mile 40.6

Geographic Code - 19N 06W 14 BCA

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810705	1930	8.80	6.90	47.00		16.20	2.70
810721	1405	9.40	6.00	28.00	18.00	13.60	3.55
810806	1515	8.50		37.00	22.40	16.20	
810830	1530						4.80
810914	1745	10.40		45.00	14.00	10.60	2.00
810929	1600	12.00	6.10	44.00	7.00	4.10	5.40

Table EB-11. Habitat Location - Lower Delta Islands

River Mile 44.0

Geographic Code - 19N 05W 19 ACB

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810618	1055	10.20		110.00	34.00	13.20	150.00
810707	1920	9.70	7.60	118.00		11.80	110.00
810722	1840	10.50		103.00	15.40	12.30	150.00
810807	1550	10.60		106.00	16.90	10.90	

Table EB-12. Habitat Location - Little Willow Creek

River Mile 50.5

Geographic Code - 20N 05W 27 AAD

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810618	1320	10.50		34.00	31.00	15.50	2.90
810707	1800	10.00	6.90	39.00		13.20	2.30
810722	1940	10.20		39.00	15.00	11.90	28.00
810806	1930	9.90		35.00	16.40	12.00	
810830	1200						6.20
810915	1200	11.20		35.00	13.00	7.20	4.70
810929	1245	12.40	5.45	36.00	12.00	2.00	1.50

Table EB-13. Habitat Location - Rustic Wilderness

River Mile 58.1

Geographic Code - 21N 05W 25 CBD

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810624	1855	8.90	7.50		17.40	14.20	150.00
810726	1600	10.20	6.90	67.00	17.40	11.70	
810813	1200	11.20	7.40	67.00	13.00	8.50	61.00
810829	1300	12.10	6.90	72.00	12.20	10.50	94.00

Table EB-14. Habitat Location - Kashwitna River

River Mile 61.0

Geographic Code - 21N 05W 13 AAA

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810624	1205	9.80	7.10		15.00	12.40	22.00
810713	1230	11.80	6.70	36.00	14.20	8.40	
810726	1330	11.00	6.60	24.00	21.20	9.60	
810812	1200	11.30	7.10	29.00	10.40	8.40	31.00
810828	1730	12.10	6.40	31.00	16.20	10.70	42.00
810915	1230	12.40	7.10	30.00	10.40	6.40	
810921	1515	12.90	7.10	34.00	10.50	6.50	4.50

Table EB-15. Habitat Location - Caswell Creek

River Mile 63.0

Geographic Code - 21N 04W 06 BDD

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810623	2110	7.60	6.80		16.00	16.00	1.90
810710	1515	9.60	6.30	46.00	12.80	10.60	
810725	1200	8.80	6.20	37.00	13.80	13.20	1.00
810811	1430	9.30	6.70	27.00	14.20	12.80	1.50
810828	1345	10.80	6.10	30.00	16.00	11.70	1.20
810917	1400	11.30	7.00	31.00	15.00	9.00	

Table EB-16. Habitat Location - Slough West Bank

River Mile 65.6

Geographic Code - 22N 05W 27 ADC

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810613	0930	8.80	7.60		15.00	10.80	
810813	1230	11.20	7.60	68.00	10.20	7.60	140.00
810829	1630	12.10	7.20	96.00	16.00	10.30	210.00
810920	1400	8.00	6.80	216.00	10.80	6.40	21.00

Table EB-17. Habitat Location - Sheep Creek Slough

River Mile 66.1

Geographic Code - 22N 04W 30 BAB

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810623	1930	9.90	7.20		16.60	18.00	2.50
810710	1730	10.30	6.20	37.00	13.00	10.90	2.20
810725	1400	9.70	6.20	33.00	13.80	10.90	2.20
810810	1130	9.30	6.80	29.00	13.20	11.10	2.30
810826	1530	11.00	6.10	32.00	21.60	11.80	2.20
810917	1045	9.80	6.70	47.00	12.00	7.80	4.00

Table EB-18. Habitat Location - Goose Creek (Lower) 1

River Mile 72.0

Geographic Code - 23N 04W 31 BBC

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810621	1830	9.20	6.80		15.20	10.70	4.50
810707	1300			37.00	14.20	10.10	
810723	1115	10.70	6.10	30.00	15.00	9.10	3.60
810809	1200	10.30	7.10	18.00	14.80	9.70	2.80
810825	1600	11.70	6.20	20.00	17.80	10.20	1.50
810911	1300	11.40	7.10	25.00	11.40	8.00	
810916	1000	12.20	6.90	25.00	9.60	6.30	.40

Table EB-19. Habitat Location - Goose Creek (Lower) 2

River Mile 73.1

Geographic Code - 23N 04W 30 BBB

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810723	1430	10.80	6.30	27.00	16.20	9.70	3.40
810809	1600	10.40	7.10	19.00	14.80	10.30	2.00
810825	1450	12.10	6.00	20.00	18.60	10.10	.90
810916	1530	12.00	7.10	24.00	11.80	7.30	.63

Table EB-20. Habitat Location - Goose Creek (Lower) 2, Slough

River Mile 73.1

Geographic Code - 23N 04W 30 BBB

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810723	1400	10.70	7.10	82.00	16.40	11.00	120.00
810809	1430	10.60	7.70	80.00	14.20	10.30	120.00
810825	1545	12.10	6.80	85.00	17.40	10.00	47.00
810916	1530	11.30	7.10	56.00	12.00	7.70	9.10

Table EB-21. Habitat Location - Mainstem - West Bank

River Mile 74.4

Geographic Code - 23N 05W 13 BCC

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810621	1520	10.50	7.80		15.80	9.30	255.00
810707	1115	10.70	7.00	109.00	13.20	10.00	
810722	1300	11.00	7.20	81.00	16.40	9.70	120.00
810809	1700	10.90	8.00	76.00	13.60	8.80	190.00
810825	1230	12.60	6.70	86.00	16.40	8.70	120.00
810929	1145	10.50	6.90	142.00	5.50	3.20	6.30

Table EB-22. Habitat Location - Montana Creek.

River Mile 77.0

Geographic Code - 23N 04W 07 ABA

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810707	1530	10.40	6.50	37.00	16.60	12.30	.30
810722	1515	10.00	6.00	25.00	18.60	12.60	.77
810810	1500	10.00	6.70	21.00	13.40	12.30	1.70
810826	1210	11.90	6.20	21.00	17.00	10.90	.40

Table EB-23. Special Studies Habitat Location - Rabideux Creek 1

River Mile 83.1

Geographic Code - 24N 05W 16 AAC

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810620	1220	7.40	6.90	88.00	23.20	15.80	22.50

Table EB-24. Special Studies Habitat Location - Rabideux Creek 2

River Mile 83.1

Geographic Code - 24N 05W 16 DDA

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810620	1712	7.40	7.00	108.00	20.20	18.90	68.00

Table EB-25. Habitat Location - Mainstem 1

River Mile 84.0

Geographic Code - 24N 05W 10 DCC

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810622	1130		7.50	115.00	14.80	10.60	120.00
810705	1700		7.10	108.00	18.00	12.80	25.00
810719	1650		6.40	78.00	15.00	10.40	110.00
810814	1030		7.00		9.40	8.50	
810830	1500				13.00	11.00	170.00
810913	1500	11.30	7.50	103.00		8.60	45.00
810920	1500	10.30		145.00	13.00	7.70	42.00

Table EB-26. Habitat Location - Sunshine Creek

River Mile 85.7

Geographic Code - 24N 05W 14 AAB

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810622	1300		7.10	65.00	17.50	14.30	1.60
810705	1830		6.80	58.00	18.20	15.50	
810716	1515		5.60	40.00	15.00	13.10	1.60
810814	0930		6.70	43.00	9.40	11.00	
810830	1400				14.80	12.00	23.00
810912	1700	10.90	7.30	43.00	8.00	9.00	3.60
810920	1600	9.80		57.00	13.00	8.90	6.60

Table EB-27. Habitat Location - Birch Creek Slough

River Mile 88.4

Geographic Code - 25N 05W 25 DCC

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810622	1530		7.40	120.00	20.00	16.00	4.20
810707	1310		6.80	132.00		12.80	2.40
810720	1100		6.20	77.00	12.30	9.60	90.00
810814	1130		7.10	89.00	12.30	8.40	
810830	1230				18.00	11.00	95.00
810912	1600	10.30	6.90	67.00	8.00	8.50	6.40
810920	1400	9.40		100.00	13.00	8.80	7.50

Table EB-28. Habitat Location - Birch Creek

River Mile 89.2

Geographic Code - 25N 05W 25 ABD

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810622	1430		7.20	81.00	19.60	15.40	6.00
810707	1130		6.70	89.00		14.40	1.40
810719	1130		5.70	48.00	17.00	13.60	1.00
810814	1330	10.60	6.80	61.00	12.50	12.10	
810830	1130				18.00	13.00	1.70
810912	1500	11.10	7.10	43.00	9.00	9.70	.50
810920	1400	9.40		100.00	13.00	8.80	7.50

Table EB-29. Habitat Location - Cache Creek

River Mile 96.0

Geographic Code - 26N 05W 26 DCB

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810621	1230		7.30	290.00	13.50	6.40	.60
810701	1200		6.60	31.00	14.60	10.60	3.10
810716	1220	12.30	5.70	45.00		11.90	22.00
810805	1030		6.30	125.00	21.00	11.90	11.00
810826	1600	9.30	6.50	147.00	24.50	11.50	3.60
810909	1600	6.70	7.10	250.00	16.00	7.60	1.00
810921	1100	5.00		304.00	12.00	5.50	1.00

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Table EB-30. Habitat Location - Cache Creek Slough

River Mile 95.5

Geographic Code - 26N 05W 35 ADC

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810621	1150		7.70	128.00	12.10	7.00	270.00
810701	1300		7.00	57.00	18.00	10.00	81.00
810716	1300		6.20	86.00	12.40	8.20	190.00
810805	1330		7.30	90.00	23.00	9.30	200.00
810826	1700	12.10		135.00	18.00	14.10	140.00
810909	1730	12.30	7.40	91.00	15.80	6.20	170.00
810921	1000	11.20		123.00	5.00	4.90	80.00

Table EB-31. Habitat Location - Whiskers Creek Slough

River Mile 101.2

Geographic Code - 26N 05W 03 ADB

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810616	1700		6.40	35.00	23.60	18.00	4.90
810701	1720		6.60	28.00	17.00	11.60	2.10
810716	1130		5.30	22.00		11.80	15.00
810805	1630		6.00	43.00		13.30	23.00
810826	1200	11.50	5.80	34.00	22.00	11.50	10.00
810909	1030	11.60	6.60	18.00	16.30	7.60	.50
810921	1400	10.50		20.00	10.00	8.50	1.00

Table EB-32. Habitat Location - Whiskers Creek

River Mile 101.4

Geographic Code - 26N 05W 03 AAC

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810616	1430		6.10	31.00	19.60	16.20	.90
810701	1540		6.30	24.00	17.20	11.30	
810716	1020	12.80	5.10	19.00	14.40	11.60	2.90
810805	1530		5.50	28.00	23.00	13.80	2.30
810826	1000	12.70	5.60	23.00	19.00	9.80	3.70
810909	1230	11.20	6.60	15.00	16.30	8.60	.60
810921	1330	10.70		15.00	11.00	7.60	1.10

Table EB-33. Habitat Location - Slough 6A

River Mile 112.3

Geographic Code - 28N 05W 13 CAC

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810618	1415		7.10	104.00	22.40	16.50	22.00
810703	1830		6.70	113.00		14.50	6.60
810718	1100		5.60	45.00	14.60	10.20	2.50
810808	1400		5.90	42.00	15.00	9.70	
810828	1500				16.00	10.50	2.70
810911	1630				11.00	6.50	1.00
810923	1400	11.80		47.00	7.00	4.80	1.70

Table EB-34. Habitat Location - Lane Creek

River Mile 113.6

Geographic Code - 28N 05W 12 ADD

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810618	1315		7.20	58.00	21.80	9.80	1.60
810718	1030		6.50	45.00	15.10	6.90	1.70
810808	1330		6.40	50.00	15.00	8.60	
810828	1330				13.50	8.00	2.40
810911	1500				9.50	7.00	5.40
810923	1300	10.90		65.00	7.00	5.20	.60

Table EB-35. Habitat Location - Mainstem 2

River Mile 114.4

Geographic Code - 28N 04W 06 CAB

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810618	1140		7.40	106.00	18.00	15.20	58.00
810703	1520		7.40	115.00		13.40	27.00
810718	1045		6.60	99.00	15.00	11.10	135.00
810808	1200		6.70	120.00	15.00	11.00	
810828	1230				13.00	12.50	42.00
810911	1000				10.60	8.00	37.00
810923	1200	11.60		158.00	7.00	5.30	13.00

Table EB-36. Habitat Location - Mainstem Susitna - Curry

River Mile 120.7

Geographic Code - 29N 04W 10 BCD

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810619	1730	9.10	7.50	120.00	21.40	15.00	105.00
810708	1330	10.90	7.20	98.00	12.00	8.60	
810724	1115	10.10	7.40	103.00	18.80	11.20	110.00
810808	1600	10.20	7.40	105.00	15.60	10.80	82.00
810829	1045	10.10	7.40	125.00	13.20	12.40	62.00
810916	1130	10.40	7.50	152.00	8.80	6.90	23.00

Table EB-37. Habitat Location - Susitna Side Channel

River Mile 121.6

Geographic Code - 29N 04W 11 BBB

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810619	1620	9.70	7.60	124.00	26.00	16.30	84.00
810708	1415	10.30	6.90	107.00	11.20	8.80	
810723	1700	9.70	6.90	104.00	16.20	10.80	93.00
810807	1200	9.50	6.70	77.00	14.00	9.90	55.00
810829	1145	9.80	7.30	128.00	13.60	12.20	58.00
810916	1400		7.40	129.00	14.50	8.10	22.00

Table EB-38. Habitat Location - Mainstem Susitna - Gravel Bar

River Mile 123.8

Geographic Code - 30N 04W 26 DDD

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810618	1816	9.80	7.50	122.00	19.80	14.50	78.00
810706	1045	9.60	7.30	142.00	16.00	11.00	
810723	1300	10.20	7.40	113.00	14.20	11.40	110.00
810809	1630	11.00	7.80	104.00	14.00	9.70	230.00
810830	1430	10.20	7.60	125.00	14.00	12.00	130.00
810916	1430		7.50	151.00	12.80	7.50	18.00
810928	1200		7.30	167.00	3.60	.60	7.50

Table EB-39. Habitat Location - Slough 8A

River Mile 125.3

Geographic Code - 30N 03W 30 BCD

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810617	1520	9.30	7.00		26.40	16.40	1.70
810706	1330	10.30	6.90	118.00	17.00	11.10	
810723	1145	9.40	7.00	123.00	13.80	10.60	78.00
810809	1800	10.50	7.60	108.00	13.60	10.10	205.00
810828	1630	8.80	6.80	152.00	19.00	12.60	7.00
810915	1115	8.80	6.90	160.00	11.00	6.60	1.40
810927	1430		6.90	159.00	3.00	4.50	.70

Table EB-40. Habitat Location - Fourth of July Creek

River Mile 131.1

Geographic Code - 30N 03W 03 DAC

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810617	1245	9.90	6.70		25.10	15.00	.45
810706	1625	10.10	6.50	18.00		11.60	
810720	1300	9.90	6.30		15.80	10.90	3.00
810811	1700		6.40	20.00	11.40	11.40	2.60
810828	1445	9.50	6.60	27.00	23.40	12.80	.40
810915	1330	9.70	6.70	15.00	12.00	8.20	.47
810927	1245		6.50	17.00	2.20	2.00	3.00

Table EB-41. Habitat Location - Slough 10

River Mile 133.8

Geographic Code - 31N 03W 36 AAC

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810617	1020	9.00	7.10	134.00	24.20	12.80	45.00
810705	1900	9.80	7.00	121.00	14.60	9.80	
810721	1145	10.70	7.40	101.00	14.00	10.30	130.00
810811	1600	11.50	7.80	190.00	13.30	8.90	103.00
810829	1730	9.90	7.20	137.00	15.00	11.00	67.00
810915	1430	10.10	7.20	144.00	11.80	6.80	22.00
810926	1530		7.20	171.00	4.60	2.70	1.50

Table EB-42. Habitat Location - Slough 11

River Mile 135.3

Geographic Code - 31N 02W 19 DDD

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810618	1030	9.80	7.10		19.40	9.70	1.50
810705	1800	10.00	7.00	194.00	15.00	7.10	
810719	1430	9.30	6.90	207.00	13.60	7.30	3.50
810815	1530	10.70	7.00	144.00	8.00	6.30	98.00
810827	1315	9.60	6.90	209.00	25.00	7.50	6.00
810915	1630	9.30	6.80	208.00	11.40	5.80	2.40
810926	1315		7.10	210.00	5.30	4.00	3.50

Table EB-43. Habitat Location - Mainstem Susitna - Inside Bend

River Mile 136.9

Geographic Code - 31N 02W 17 CDA

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810702	1845	10.50	7.50		16.00	10.40	
810721	0930	10.60	7.50	115.00	14.20	10.30	150.00
810814	1000	11.80	7.60	92.00	10.40	8.00	125.00
810827	1100	10.40	7.40	119.00	23.40	11.80	30.00
810915	1730	10.40	7.50	151.00		6.90	19.00
810926	1130		7.00	168.00	.60	1.80	9.00

Table EB-44. Habitat Location - Indian River

River Mile 138.6

Geographic Code - 31N 02W 09 CDA

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810614		8.60	7.40	49.00		12.20	
810701	1630	10.60	6.80	31.00	15.60	9.20	
810718	1730	9.90	6.60	38.00	11.40	8.20	6.50
810812	1740	10.60	6.50	35.00	10.00	8.20	15.00
810825	1615	10.40	6.40	37.00	17.60	8.90	2.70
810913	1315						2.00
810924	1800		6.80	40.00	3.00	5.40	2.50

Table EB-45. Special Studies Habitat Location - Indian River 1

Tributary Mile 2.7

Geographic Code - 32N 02W 28 DDC

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810608		10.60	6.70	52.00		5.70	
810826	1000	10.80	6.60	40.00	13.60	7.20	1.80
811003	1245	12.30	5.75	48.00	4.40	2.70	0.50

Table EB-46. Special Studies Habitat Location - Indian River 2

Tributary Mile 7.2

Geographic Code - 32N 02W 11 DDC

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810609		6.80	6.80	42.00		7.30	
810826	1130	10.20	6.70	38.00	19.20	7.90	2.40
811003	1340	12.00	5.90	45.00	4.10	3.40	1.00

Table EB-47. Special Studies Habitat Location - Indian River 3

Tributary Mile 12.0

Geographic Code - 32N 01W 27 DCC

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810826	1330	10.0	6.3	38.00	20.5	8.4	2.2
811003	1440	11.8	6.0	49.00	2.9	3.3	0.75

Tributary Mile 13.5

Geographic Code - 33N 01W 04 BAB

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810608		10.70	6.80	51.00		4.60	

Table EB-48. Habitat Location - Slough 20

River Mile 140.1

Geographic Code - 31N 02W 11 BBC

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810612			7.20	39.00		9.60	
810702	1710	11.00	7.00	65.00		7.50	
810717	1800	10.30	7.40	104.00	18.00	11.50	148.00
810812	1700	10.90	7.20	88.00	10.00	8.40	90.00
810825	1400	10.50	6.90	103.00	16.20	9.00	17.00
810912	1300		7.60	55.00	14.00	7.10	1.50
810924	1630		7.40	82.00	4.20	3.80	1.50

Table EB-49. Habitat Location - Mainstem Susitna - Island

River Mile 146.9

Geographic Code - 32N 01W 27 DBC

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810612			7.30	66.00		11.70	
810705	1600	10.20	7.30	114.00		10.70	
810717	1330	10.60	7.50	104.00		10.70	140.00
810813	1400	11.90	7.50	100.00	10.40	8.10	105.00
810823	1400	11.60	7.20	100.00	15.40	8.60	40.00
810911	1300	10.70	7.50	139.00	12.40	7.40	
810924	1445		7.20	150.00	4.80	2.70	13.00

Table EB-50. Habitat Location - Portage Creek

River Mile 148.8

Geographic Code - 32N 01W 25 CDB

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810612			7.10	80.00		8.80	
810703	1515	10.90	7.00	66.00	17.80	8.90	
810717	1300	10.60	7.00	55.00	14.40	7.50	25.00
810813	1130	11.00	6.90	55.00	9.40	6.40	21.00
810823	1100	11.00	6.60	60.00	9.80	6.00	5.50
810910	1130	10.00	7.10	96.00	10.20	7.20	
810924	1115		6.80	98.00	4.60	2.90	2.30

Table EB-51. Special Studies Habitat Location - Portage Creek 1

Tributary Mile 4.5

Geographic Code - 32N 01E 08 CBA

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810609		10.70	6.90	90.00		6.80	
810826	15.00	10.20	6.90	78.00	20.40	9.40	3.80
811003	17.00	12.10		158.00	1.90	1.50	0.75

Table EB-52. Special Studies Habitat Location - Portage Creek 2

Tributary Mile 9.2

Geographic Code - 33N 01E 26 DDC

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810609		10.30	6.70	85.00		6.60	
810828	1230	10.40	6.90	72.00	26.80	8.30	0.25
811003	1610	12.30		128.00	2.10	1.50	0.40

Table EB-53. Special Studies Habitat Location - Portage Creek 3

Tributary Mile 15.5 (north fork)

Geographic Code - 22S 08W 28 BAB

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810828	1100	10.60	6.80	48.00	23.80	7.00	0.44
811003	1515	12.30	6.05	82.00	2.40	2.00	0.50

Tributary Mile 15.6 (east fork)

Geographic Code - 22S 08W 34 DCC

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810609		10.40	7.20	60.00		5.90	

Table EB-54. Habitat Location - Sally Lake

River Mile

Geographic Code - 32N 07E 29 BDA

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810624	1620	7.60	7.80	140.00		18.20	

Table EB-55. Habitat Location - Fog Creek - Site 01

River Mile 173.9

Geographic Code - 31N 04E 16 DBB

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810503	1645	10.70	7.40	90.00	17.00	8.50	0.34
810630	1030	10.40	7.50	78.00	16.50	6.10	1.20
810727	1030	10.10	7.40	73.00	17.40	8.80	1.40
810825	1700	11.60	7.40	81.00	22.00	10.40	1.30

Table EB-56. Habitat Location - Fog Creek - Site 02

River Mile 173.9

Geographic Code - 31N 04E 16 DBD

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810604	1100	11.60	7.40	80.00	19.00	6.50	0.65
810701	1100		7.40	77.00	17.00	6.40	1.10
810727	1220	10.00	7.30	68.00	19.20	9.30	
810825	1100	11.80	7.40	81.00	18.20	9.40	

Table EB-57. Habitat Location - Fog Creek - Site 03

River Mile 173.9

Geographic Code - 31N 04E 16 DAD

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810604	1130	11.30	7.30	81.00	19.00	6.80	0.60
810701	1130		7.40	77.00	17.00	6.40	1.10
810727	1245	10.50	7.40	68.00	16.80	9.20	1.10
810825	1200	11.60	7.40	81.00	19.00	9.70	1.50

Table EB-58. Habitat Location - Main Susitna River
50 feet upstream of Tsusena Creek

River Mile 178.9

Geographic Code - 32N 04E 36 ADB

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810726	1300	9.80	7.50	106.00	14.00	10.00	125.00
810823	1200	12.20	7.30	107.00	12.50	8.60	48.00

Table EB-59. Habitat Location - Tsusena Creek - Site 01

River Mile 178.9

Geographic Code - 32N 04E 36 ADB

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810601	1800	11.00	7.20	71.00	13.00	9.40	0.60
810628	2030	9.90	7.30	68.00	15.00	8.00	0.70
810725	1745	10.10	7.00	58.00	14.00	9.80	1.80
810823	1300	13.20	6.80	55.00	13.20	7.50	

Table EB-60. Habitat Location - Main Susitna River
50 feet upstream of Deadman Creek

River Mile 183.4

Geographic Code - 32N 05E 26 CDB

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810530	1910	10.30	7.60	100.00	19.00	12.60	
810627	1315	9.90	7.70	138.00	13.20	8.40	
810723	1400	10.00	7.70	108.00	15.00	10.90	130.00
810822	1300	11.60	7.30	105.00	11.40	8.40	51.00

Table EB-61. Habitat Location - Deadman Creek - Site 01

River Mile 183.4

Geographic Code - 32N 05E 26 CDB

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810530	1900	10.50	7.50	47.00	19.00	11.60	0.68
810626	1300	9.50	7.30	79.00	13.20	7.60	1.80
810723	1410	10.10	7.10	59.00	15.00	12.40	1.30
810822	1315	12.60	7.00	44.00	11.40	7.80	1.50

Table EB-62. Habitat Location - Deadman Creek - Site 02

River Mile 183.4

Geographic Code - 32N 05E 26 CAA

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810531	1224	11.40	7.10	45.00	14.50	7.50	2.10
810627	1900	9.40	7.30	79.00	13.20	7.80	2.30
810723	1500	10.10	7.10	59.00	15.00	12.40	1.50
810822	1400	12.60	7.00	44.00	11.40	7.80	

Table EB-63. Habitat Location - Main Susitna River
50 feet upstream of Watana Creek

River Mile 190.4

Geographic Code - 32N 06E 25 CCA

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810624	1040	9.60	7.70	132.00	14.50	11.70	
810821	1250	11.70	7.50	109.00	16.00	8.00	58.00

Table EB-64. Habitat Location - Watana Creek - Site 01

River Mile 190.4

Geographic Code - 32N 06E 25 CCA

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810528	1850	12.40	7.70	139.00	14.00	4.90	
810624	1030	9.50	7.70	245.00	14.50	9.70	1.30
810721	1630	9.60	7.30	128.00	18.00	11.30	4.40
810821	1350	11.90	7.10	101.00	17.00	8.60	9.80
810925	1025	14.10	7.50	177.00	1.30	1.50	2.70

Table EB-65. Habitat Location - Watana Creek - Site 02

River Mile 190.4

Geographic Code - 32N 06E 25 CAB

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810529	1000	12.40	7.70	140.00	18.00	5.70	
810624	1120	10.10	7.60	243.00	16.50	10.00	
810721	1640	9.80	7.40	126.00	18.00	11.20	
810821	1420	11.50	7.30	101.00	17.40	8.70	
810925	1130	13.90	7.50	174.00	3.70	1.90	

Table EB-66. Habitat Location - Watana Creek - Site 03

River Mile 190.4

Geographic Code - 32N 06E 25 BDC

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810529	1055	12.20	7.60	141.00	19.00	6.40	
810625	1145	10.10	7.70	246.00	15.00	9.90	1.30
810721	1710	9.70	7.40	127.00	17.20	11.40	3.40
810821	1430	11.60	7.30	103.00	17.40	8.70	9.60
810925	1130	14.30	7.60	174.00	3.80	2.10	2.60

Table EB-67. Habitat Location - Watana Creek - Site 04

River Mile 190.4

Geographic Code - 32N 06E 25 ACB

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810529	1230	11.70	7.60	149.00	21.50	8.30	
810625	1200	10.20	7.60	248.00	16.50	10.00	

Table EB-68. Habitat Location - Watana Creek - Site 05

River Mile 190.4

Geographic Code - 32N 06E 25 ABC

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810529	1430	10.60	7.70	156.00	21.00	10.40	
810625	1300	9.70	7.60	247.00	19.00	11.40	3.10

Table EB-69. Habitat Location - Main Susitna River
50 feet upstream of Kosina Creek

River Mile 202.4

Geographic Code - 31N 08E 15 BAB

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810622	1330	9.00	7.50	123.00	24.00	12.50	120.00
810720	1400	9.70	7.50	106.00	14.20	9.80	145.00
810820	1200	12.10	7.40	120.00	11.60	7.40	46.00
810923	1015	11.80	6.80	146.00	5.20	3.30	10.00

Table EB-70. Habitat Location - Kosina Creek - Site 01

River Mile 202.4

Geographic Code - 31N 08E 15 BAB

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810526	1000	12.00	7.50	54.00	17.00	4.70	
810622	1300	9.10	7.20	55.00	24.00	12.30	0.50
810720	1245	9.70	7.10	54.00	12.80	10.20	1.00
810820	1100	12.40	7.30	67.00	11.60	7.40	1.90
810923	1000	12.90	7.30	68.00	5.00	2.80	0.80

Table EB-71. Habitat Location - Kosina Creek - Site 02

River Mile 202.4

Geographic Code - 31N 08E 15 BAC

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810527	1150	12.00	7.50	54.00	18.50	5.30	
810623	1100	9.90	7.40	57.00	23.50	10.40	
810720	1300	10.00	7.10	53.00	13.00	10.50	
810820	1220	12.20	7.40	66.00	11.60	7.60	
810923	1025	13.60	7.30	67.00	5.40	2.70	

Table EB-72. Habitat Location - Kosina Creek - Site 03

River Mile 202.4

Geographic Code - 31N 08E 15 BCA

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810527	1245	11.40	7.60	54.00	19.00	5.60	
810623	1145	9.20	7.50	57.00	18.00	10.90	0.60
810720	1300	9.90	7.10	54.00	13.60	10.50	1.00
810820	1240	12.20	7.30	66.00	11.60	7.60	1.50
810923	1050	13.70	7.30	67.00	5.30	2.70	0.80

Table EB-73. Habitat Location - Kosina Creek - Site 04

River Mile 202.4

Geographic Code - 31N 08E 15 CBA

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810623	1200	9.10	7.50	57.00	28.00	11.20	
810720	1330	9.90	7.10	54.00	13.80	10.60	
810820	1300	12.10	7.40	66.00	11.70	7.60	
810923	1105	13.50	7.30	67.00	5.30	2.70	

Table EB-74. Habitat Location - Kosina Creek - Site 05

River Mile 202.4

Geographic Code - 31N 08E 15 CCA

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810623	1300	9.20	7.40	57.00	24.50	11.50	
810720	1345	9.90	7.10	53.00	13.80	10.70	2.70
810820	1315	12.20	7.40	66.00	11.60	7.60	4.40
810923	1140	13.60	7.30	68.00	6.80	2.90	1.50

Table EB-75. Habitat Location - Main Susitna River
50 feet upstream of Jay Creek

River Mile 203.9

Geographic Code - 31N 08E 13 BCC

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810524	1600	10.80	7.50	133.00	18.00	7.00	
810621	1020	9.10	7.70	135.00	14.00	11.40	150.00
810718	1515	9.70	7.50	100.00	15.40	10.80	155.00
810818	1500	12.30	7.30	117.00	15.00	8.00	48.00
810920	1440	11.10	7.20	170.00	10.70	6.70	19.00

Table EB-76. Habitat Location - Jay Creek - Site 01

River Mile 203.9

Geographic Code - 31N 08E 13 BCC

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810524	1530	10.80	7.80	150.00	18.00	9.40	
810621	1015	10.10	7.90	170.00	14.00	8.00	0.60
810718	1420	9.90	7.50	124.00	16.40	9.70	1.70
810818	1340	13.00	7.40	128.00	12.60	6.50	2.20
810920	1430	11.90	7.70	175.00	10.60	5.70	1.60

Table EB-77. Habitat Location - Jay Creek - Site 02

River Mile 203.9

Geographic Code - 31N 08E 13 BCA

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810524	1700	10.40	7.70	146.00	16.00	9.40	
810621	1105	10.10	7.80	170.00	15.00	8.10	
810719	1100	10.60	7.60	129.00	12.00	6.70	
810819	1120	13.10	7.50	128.00	11.80	5.90	
810921	1025	12.80	7.70	175.00	11.00	3.60	

Table EB-78. Habitat Location - Jay Creek - Site 03

River Mile 203.9

Geographic Code - 31N 08E 13 BAC

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810525	1115	12.70	7.70	145.00	15.00	7.20	
810621	1115	10.00	7.80	170.00	17.00	8.30	0.50
810719	1115	10.70	7.50	129.00	12.00	6.60	8.60
810819	1145	13.10	7.60	128.00	11.80	5.90	3.60
810921	1110	12.60	7.70	174.00	7.80	4.00	2.60

Table EB-79. Habitat Location - Jay Creek - Site 04

River Mile 203.9

Geographic Code - 31N 08E 13 BAA

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810525	1220	11.10	7.60	139.00	24.00	8.30	
810621	1150	10.10	7.80	170.00	17.00	8.50	
810719	1200	10.60	7.60	130.00	14.40	6.90	
810819	1205	13.00	7.60	128.00	12.00	5.80	
810921	1135	12.90	7.80	174.00	10.20	4.20	

Table EB-80. Habitat Location - Jay Creek - Site 05

River Mile 203.9

Geographic Code - 31N 08E 12 DCB

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810525	1250	10.80	7.60	144.00	24.00	8.80	
810621	1220	10.10	7.70	170.00	17.00	8.60	0.60
810719	1220	10.70	7.50	129.00	14.40	7.00	3.90
810819	1220	13.10	7.60	128.00	12.00	5.80	3.90
810921	1155	13.20	7.70	173.00	9.60	4.30	5.40

Table EB-81. Habitat Location - Main Susitna River
50 feet upstream of Goose Creek (Upper)

River Mile 224.9

Geographic Code - 30N 11E 32 DBC

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810523	1300	10.80	7.30	108.00	12.00	8.20	
810619	1445	8.50	7.70	117.00	24.00	13.70	
810717	1520	9.60	7.60	100.00	15.40	10.00	155.00
810817	1145	12.90	7.30	106.00	6.00	5.00	63.00
810919	1145	10.70	7.50	152.00	11.20	6.70	23.00

Table EB-82. Habitat Location - Goose Creek (Upper) - Site 01

River Mile 224.9

Geographic Code - 30N 11E 32 DBC

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810522	1700	10.90	7.20	59.00	11.00	7.20	0.45
810618	1900	8.60	7.50	66.00	21.50	14.40	0.40
810717	1220	9.60	7.10	47.00	15.40	10.70	2.20
810816	1100	13.10	7.00	59.00	6.00	5.40	0.90
810918	1650	11.00	7.20	58.00	11.20	6.60	1.40

Table EB-83. Habitat Location - Goose Creek (Upper) - Site 02

River Mile 224.9

Geographic Code - 30N 11E 32 CDA

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810523	1030	11.20	7.30	55.00	12.00	5.80	0.35
810619	1100	8.80	7.40	64.00	19.00	12.30	0.40
810717	1315	9.50	7.10	47.00	17.80	11.30	
810817	1020	13.60	7.10	58.00	7.00	4.30	
810919	1040	11.80	7.10	63.00	6.20	5.00	

Table EB-84. Habitat Location - Goose Creek (Upper) - Site 03

River Mile 224.9

Geographic Code - 30N 11E 32 CDC

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810523	1120	11.10	7.30	54.00	13.00	6.20	0.35
810619	1200	8.90	7.40	64.00	23.50	13.40	0.40
810717	1350	9.50	7.00	47.00	16.80	11.60	1.70
810817	1045	13.50	7.00	58.00	8.00	4.70	0.40
810919	1105	11.90	7.00	62.00	7.80	5.10	0.40

Table EB-85. Habitat Location - Goose Creek (Upper) - Site 04

River Mile 224.9

Geographic Code - 29N 11E 05 BBC

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810523	1200	10.80	7.30	59.00	15.00	7.40	0.32
810619	1315	8.60	7.40	64.00	23.00	14.40	0.40
810717	1420	9.40	7.10	48.00	16.80	11.60	
810817	1105	13.80	7.00	58.00	8.00	4.90	
810919	1125	11.90	7.20	58.00	7.90	5.10	

Table EB-86. Habitat Location - Goose Creek (Upper) -Site 05

River Mile 224.9

Geographic Code - 29N 11E 05 BCB

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810523	1300	10.80	7.40	60.00	13.00	7.70	0.35
810619	1445	8.60	7.30	66.00	22.00	14.60	0.40
810717	1520	9.50	7.10	48.00	16.80	11.80	2.60
810817	1145	13.60	7.00	58.00	9.60	5.40	0.70
810919	1145	12.10	7.20	57.00	7.70	4.20	0.90

Table EB-87. Habitat Location - Main Susitna River
50 feet upstream of Oshetna River

River Mile 226.9

Geographic Code - 30N 11E 34 CCD

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810617	0900	9.30	7.60	115.00	20.00	12.30	90.00
810715	2220	9.90	7.60	118.00	12.50	8.80	175.00
810815	0900	12.30	7.40	101.00	8.50	6.30	73.00
810915	1920	10.40	7.60	152.00	8.60	6.70	24.00

Table EB-88. Habitat Location - Oshetna River - Site 01

River Mile 226.9

Geographic Code - 30N 11E 34 CCD

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810521	1730	11.10	7.30	88.00	13.00	7.00	1.70
810616	2130	8.90	7.60	69.00	14.00	12.60	9.00
810715	2210	9.00	7.20	99.00	12.50	11.00	7.20
810815	0950	12.00	7.40	113.00	10.00	7.20	2.60
810915	1930	9.90	7.60	135.00	7.80	7.50	1.20

Table EB-89. Habitat Location - Oshetna River - Site 02

River Mile 226.9

Geographic Code - 29N 11E 03 BAB

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810521	1100	11.60	7.20	84.00	10.00	5.20	1.50
810617	1000	9.60	7.60	65.00	18.50	8.80	-.00
810716	1040	9.40	7.50	93.00	16.50	10.70	-.00
810815	1120	12.00	7.40	106.00	13.20	7.90	-.00
810916	1035	11.50	7.60	135.00	10.00	5.60	-.00

Table EB-90. Habitat Location - Oshetna River - Site 03

River Mile 226.9

Geographic Code - 29N 11E 03 BAC

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810521	1245	11.50	7.20	84.00	10.00	5.90	1.30
810617	1015	9.80	7.60	65.00	21.00	8.70	19.00
810716	1155	9.60	7.50	93.00	15.00	10.80	7.50
810815	1150	12.10	7.40	107.00	10.80	7.90	2.90
810916	1100	11.90	7.50	135.00	10.60	5.80	1.90

Table EB-91. Habitat Location - Oshetna River - Site 04

River Mile 226.9

Geographic Code - 29N 11E 03 ACB

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR[1]	TEMP - °C H2O	TURBIDITY (NTU)
810521	1330	11.50	7.20	84.00	10.00	5.80	1.90
810617	1035	9.60	7.60	65.00	22.50	9.00	-.00
810716	1240	9.50	7.40	93.00	16.50	11.00	-.00
810815	1250	12.00	7.40	108.00	11.50	8.20	-.00
810916	1130	11.80	7.50	130.00	13.60	6.30	-.00

Table EB-92. Habitat Location - Oshetna River - Site 05

River Mile 226.9

Geographic Code - 29N 11E 03 ACC

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810521	1400	11.30	7.20	89.00	10.00	6.00	1.70
810617	1100	10.00	7.60	65.00	23.50	8.80	13.00
810716	1400	9.60	7.50	92.00	18.00	11.50	7.60
810815	1340	11.80	7.40	107.00	11.00	8.10	1.60
810916	1205	12.00	7.60	132.00	14.20	6.30	1.20

Table EB-93. Habitat Location - Fish Creek

River Mile 7.0

Geographic Code - 15N 07W 27 AAC

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810622	1915	9.70		114.00	19.20	12.40	210.00

Table EB-94. Habitat Location - Jay Creek Slough

River Mile - 204.0

Geographic Code - 31N 08E 13 ACD

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	TURBIDITY (NTU)
810818	1515	9.7	6.7	388	15.0	9.7	

APPENDIX EC.

Temperature data tables for

each thermograph site

Table EC- 1. Daily thermograph statistics, lower Susitna River, 1981, Alexander Creek, R.M. 10.1, T.R.M. 0.5, 15N/07W/05/CBC.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
810606	5	-.0	-.0	-.0	-.0	-.0	-.0	-.0	13.0	13.0	13.0	13.0	12.5	12.5	13.0	12.9
810607	12	12.0	12.0	11.5	11.5	11.5	12.5	13.5	14.0	14.0	14.0	14.0	13.5	11.5	14.0	12.8
810608	12	12.5	12.0	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.0	11.0	11.0	12.5	11.5
810609	12	10.5	10.5	10.5	10.5	10.5	11.0	11.5	12.0	12.0	12.5	12.0	12.0	10.5	12.5	11.3
810610	12	11.5	11.5	11.0	11.0	11.5	12.0	12.5	13.5	13.5	13.5	13.5	13.0	11.0	13.5	12.3
810611	12	12.5	12.0	12.0	12.0	12.0	13.0	13.5	14.5	14.5	14.5	14.5	14.5	12.0	14.5	13.3
810612	12	13.5	13.5	13.0	13.0	13.0	14.0	15.0	15.5	16.0	16.0	15.5	15.0	13.0	16.0	14.4
810613	12	14.5	14.0	13.5	13.5	14.0	15.0	16.0	16.5	16.5	16.0	15.5	15.5	13.5	16.5	15.0
810614	12	14.5	14.5	14.0	14.0	14.5	15.0	16.0	16.5	17.0	17.0	16.5	16.0	14.0	17.0	15.5
810615	12	15.5	15.0	15.0	14.5	14.5	15.0	15.0	15.0	15.0	15.0	15.0	14.5	14.5	15.5	14.9
810616	12	14.5	14.0	14.0	14.0	14.5	15.5	16.5	17.0	17.5	17.5	17.0	17.0	14.0	17.5	15.8
810617	12	16.5	16.0	16.0	15.5	15.5	16.0	16.5	17.5	18.0	18.0	18.0	18.0	15.5	18.0	16.8
810618	12	17.5	17.0	17.0	16.5	16.5	16.5	17.0	17.5	18.0	18.0	18.0	18.0	16.5	18.0	17.3
810619	12	17.5	17.5	17.0	17.0	17.0	17.0	17.5	17.5	18.5	18.5	19.0	19.0	17.0	19.0	17.8
810620	12	18.5	18.5	18.0	18.0	18.0	18.0	18.0	18.5	19.0	19.0	19.0	19.0	18.0	19.0	18.5
810621	12	18.5	18.0	18.0	17.5	17.5	17.5	17.5	18.0	18.0	18.0	18.0	18.0	17.5	18.5	17.9
810622	12	18.0	17.5	17.5	17.0	17.0	17.0	17.0	17.0	17.0	17.5	18.0	18.0	17.0	18.0	17.4
810623	12	18.0	17.5	17.5	17.0	17.0	17.0	17.0	17.5	18.0	18.5	18.5	18.5	17.0	18.5	17.7
810624	12	18.0	18.0	17.5	17.5	17.0	17.0	17.0	17.0	17.0	17.5	17.0	17.0	17.0	18.0	17.3
810625	12	17.0	16.5	16.5	16.0	16.0	16.0	16.5	16.5	17.0	17.0	17.0	17.0	16.0	17.0	16.6

Values = -.0 indicate missing data.

Table EC- 1. Daily thermograph statistics, lower Susitna River, 1981, Alexander Creek, R.M. 10.1, T.R.M. 0.5, 15N/07W/05/CBC.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
810626	12	16.5	16.5	16.0	16.0	16.0	16.0	15.5	15.5	15.5	15.5	15.5	15.0	15.0	16.5	15.8
810627	12	14.5	14.5	14.5	14.0	14.0	13.5	13.5	13.5	13.5	13.5	13.0	13.0	13.0	14.5	13.8
810628	12	13.0	13.0	12.5	12.5	12.5	12.5	12.0	12.0	12.5	12.5	12.5	12.5	12.0	13.0	12.5
810629	12	12.5	12.5	12.5	12.5	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.5	12.2
810630	12	12.0	12.0	12.0	12.0	12.0	12.0	12.5	12.5	13.0	13.5	13.5	13.0	12.0	13.5	12.5
810701	12	13.0	13.0	13.0	13.0	13.0	13.5	13.5	13.5	13.5	14.0	14.0	14.0	13.0	14.0	13.4
810702	12	14.0	13.5	13.5	13.5	13.5	13.0	13.0	13.5	13.5	13.5	13.5	13.5	13.0	14.0	13.5
810703	12	13.5	13.0	13.0	13.0	13.0	13.5	14.5	14.5	15.0	15.0	15.0	15.0	13.0	15.0	14.0
810704	12	14.5	14.5	14.0	14.0	14.0	14.5	15.5	16.0	16.5	16.5	16.5	16.0	14.0	16.5	15.2
810705	12	15.5	15.5	15.0	15.0	15.0	15.5	16.0	16.5	17.0	17.0	17.0	16.5	15.0	17.0	16.0
810706	12	16.5	16.0	15.5	15.0	15.0	15.5	15.5	16.5	17.0	17.0	17.0	16.5	15.0	17.0	16.1
810707	12	16.5	16.0	15.5	15.0	15.0	15.0	15.5	16.0	16.0	16.0	16.0	16.0	15.0	16.5	15.7
810708	12	16.0	16.0	15.5	15.5	15.5	15.5	15.5	16.0	16.0	16.0	16.0	16.0	15.5	16.0	15.8
810709	12	16.0	15.5	15.5	15.5	15.5	15.5	15.5	15.0	15.0	15.0	14.5	14.5	14.5	16.0	15.3
810710	12	14.0	14.0	14.0	14.0	13.5	13.5	13.5	13.5	13.0	13.0	12.5	12.5	12.5	14.0	13.4
810711	12	12.0	10.0	9.0	8.5	8.0	8.0	8.0	8.0	8.0	8.5	8.5	8.5	8.0	12.0	8.8
810712	12	8.5	8.5	8.5	8.5	8.5	8.5	9.0	10.5	11.5	11.5	12.0	12.0	8.5	12.0	9.8
810713	12	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.5	12.5	12.5	13.0	12.0	13.0	12.2
810714	12	13.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.0	13.5	13.5
810715	12	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5

Values = -.0 indicate missing data.

Table EC- 1. Daily thermograph statistics, lower Susitna River, 1981, Alexander Creek, R.M. 10.1, T.R.M. 0.5, 15N/07W/05/CBC.

DATE	# OBS.	TEMPERATURE AT TIME 0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400	MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
810716	12	13.5	13.5	13.0	13.0	13.0	13.0	13.0	12.5	12.5	12.5	12.5	12.5	12.5	13.5	12.9
810717	12	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	13.0	13.0	13.0	12.5	13.0	12.6
810718	12	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	14.0	14.0	13.5	14.0	13.6
810719	12	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	13.5	13.5	13.5	13.5	14.0	13.9
810720	12	13.5	13.5	13.5	13.5	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.5	13.2
810721	12	13.0	13.0	13.0	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	13.0	12.6
810722	12	12.5	12.5	12.5	12.5	12.5	12.5	13.0	13.0	13.0	13.5	13.5	13.5	12.5	13.5	12.9
810723	12	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.5	14.5	14.5	14.5	14.0	14.5	14.2
810724	12	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
810725	12	14.5	14.5	14.5	14.5	14.0	14.0	14.0	14.5	14.5	14.5	14.5	14.5	14.0	14.5	14.4
810726	12	14.5	14.5	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.5	14.1
810727	12	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.5	14.5	14.5	14.5	14.0	14.5	14.2
810728	12	14.5	14.5	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.5	14.1
810729	12	14.0	14.0	13.5	13.5	13.5	13.5	14.0	14.0	14.0	14.5	14.5	14.5	13.5	14.5	14.0
810730	12	14.5	14.5	14.5	14.5	14.5	14.5	14.5	15.0	15.0	15.0	15.0	15.0	14.5	15.0	14.7
810731	12	15.0	14.5	14.5	14.5	14.5	14.5	14.5	15.0	15.0	15.0	15.0	15.0	14.5	15.0	14.8
810801	12	15.0	15.0	15.0	14.5	14.5	14.5	14.5	14.5	14.0	13.5	12.5	12.0	12.0	15.0	14.1
810802	12	11.5	11.0	11.0	11.0	11.0	11.0	11.5	11.5	11.5	11.5	11.5	11.5	11.0	11.5	11.3
810803	12	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
810804	12	12.0	12.0	12.5	12.5	13.0	13.0	13.0	13.0	13.0	13.5	13.5	14.0	12.0	14.0	12.9

Values = -.0 indicate missing data.

Table EC- 1. Daily thermograph statistics, lower Susitna River, 1981, Alexander Creek, R.M. 10.1, T.R.M. 0.5, 15N/07W/05/CBC.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
810805	12	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
810806	12	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
810807	12	13.5	13.5	13.5	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.5	13.1
810808	12	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
810809	12	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
810810	12	12.5	12.5	12.5	12.5	12.5	13.0	13.0	13.0	13.0	13.0	13.0	13.0	12.5	13.0	12.8
810811	12	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
810812	12	12.5	12.5	12.0	12.0	12.0	11.5	11.5	11.5	11.5	11.0	11.0	11.0	11.0	12.5	11.7
810813	12	11.0	11.0	11.0	10.5	10.5	10.5	10.5	11.0	11.0	11.0	11.0	11.0	10.5	11.0	10.8
810814	12	11.0	11.0	11.0	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	11.0	10.6
810815	12	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.0	10.0	10.5	10.5
810816	12	10.0	10.0	10.0	9.5	9.5	10.0	10.0	10.0	10.5	10.5	10.5	10.5	9.5	10.5	10.1
810817	12	10.5	10.5	10.5	10.5	10.0	10.0	10.0	10.0	10.5	10.5	10.0	10.0	10.0	10.5	10.3
810818	12	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.5	10.5	10.5	10.5	10.0	10.5	10.2
810819	12	10.5	10.5	10.5	10.5	10.5	10.5	10.5	11.0	11.0	11.0	11.0	10.5	10.5	11.0	10.7
810820	12	10.5	10.5	10.5	10.5	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.5	9.5	10.5	10.1
810821	12	9.5	9.5	9.5	9.0	9.5	9.5	10.0	10.5	10.5	10.5	10.5	10.5	9.0	10.5	9.9
810822	12	10.5	10.5	10.5	10.0	10.0	10.0	10.5	10.5	10.5	10.5	10.5	10.5	10.0	10.5	10.4
810823	12	10.5	10.0	10.0	10.0	10.0	10.5	10.5	11.0	11.5	11.5	11.5	11.0	10.0	11.5	10.7
810824	12	11.0	10.5	10.5	10.5	10.5	10.5	11.0	11.0	11.5	11.5	11.0	11.0	10.5	11.5	10.9

Values = -.0 indicate missing data.

Table EC- 1. Daily thermograph statistics, lower Susitna River, 1981, Alexander Creek, R.M. 10.1, T.R.M. 0.5, 15N/07W/05/CBC.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
810825	12	11.0	10.5	10.5	10.5	10.5	11.5	12.0	12.5	12.5	12.5	12.5	12.0	10.5	12.5	11.5
810826	12	12.0	12.0	11.5	11.5	11.5	12.0	13.0	13.5	13.5	13.5	13.5	13.0	11.5	13.5	12.5
810827	11	12.5	12.5	12.0	12.0	12.0	-.0	13.5	14.0	14.0	14.5	14.0	14.0	12.0	14.5	13.2
810828	12	13.5	13.5	13.0	13.0	13.0	13.0	13.0	13.0	13.5	13.5	13.5	13.5	13.0	13.5	13.3
810829	12	13.0	13.0	13.0	12.5	12.5	12.5	12.5	13.0	13.0	13.0	13.0	13.0	12.5	13.0	12.8
810830	12	13.0	12.5	12.5	12.5	12.0	12.0	12.0	12.0	12.5	12.5	12.5	12.5	12.0	13.0	12.4
810831	12	12.5	12.5	12.5	12.0	12.0	12.0	12.0	12.0	12.5	12.5	12.5	12.0	12.0	12.5	12.3
810901	12	12.0	11.5	11.5	11.0	11.0	11.0	11.5	11.5	12.0	12.0	12.0	12.0	11.0	12.0	11.6
810902	12	12.0	11.5	11.5	11.0	11.0	11.0	11.5	11.5	11.5	12.0	12.0	11.5	11.0	12.0	11.5
810903	12	11.5	11.5	11.0	11.0	11.0	11.0	11.5	11.5	12.0	12.0	12.0	12.0	11.0	12.0	11.5
810904	12	11.5	11.5	11.5	11.0	11.0	11.0	11.5	11.5	11.5	11.5	11.5	11.5	11.0	11.5	11.4
810905	12	11.5	11.0	11.0	11.0	11.0	11.5	11.5	12.0	12.0	12.0	12.0	11.5	11.0	12.0	11.5
810906	12	11.5	11.5	11.0	11.0	11.0	11.5	11.5	12.0	12.0	12.0	11.5	11.5	11.0	12.0	11.5
810907	12	11.0	11.0	11.0	10.5	10.5	11.0	11.5	12.0	12.5	12.0	12.0	11.5	10.5	12.5	11.4
810908	12	11.0	10.5	10.5	10.0	10.0	10.5	11.0	11.5	12.0	12.0	11.5	11.0	10.0	12.0	11.0
810909	12	10.5	10.5	10.5	10.0	10.5	10.5	11.0	11.5	11.5	11.5	11.0	10.5	10.0	11.5	10.8
810910	2	10.5	10.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	10.0	10.5	10.3
810911	5	-.0	-.0	-.0	-.0	-.0	-.0	-.0	12.0	11.5	11.0	11.0	11.0	11.0	12.0	11.3
810912	12	10.5	10.5	10.0	10.0	10.0	10.5	11.5	10.5	10.5	10.5	10.0	9.5	9.5	11.5	10.3
810913	12	9.5	9.5	9.0	9.0	9.0	9.0	10.0	10.5	10.5	10.5	10.0	10.0	9.0	10.5	9.7

Values = -.0 indicate missing data.

Table EC- 1. Daily thermograph statistics, lower Susitna River, 1981, Alexander Creek, R.M. 10.1. T.R.M. 0.5, 15N/07W/05/CBC.

DATE	# OBS.	TEMPERATURE AT TIME 0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400	MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
810914	12	10.0	9.5	9.0	9.0	9.0	9.0	9.0	9.5	9.5	9.5	9.5	9.0	9.0	10.0	9.3
810915	12	9.0	9.0	9.0	9.0	9.0	9.0	9.0	10.0	10.0	10.0	9.5	9.0	9.0	10.0	9.3
810916	12	9.0	9.0	9.0	8.5	8.5	8.5	9.0	9.0	9.0	9.0	9.0	8.5	8.5	9.0	8.8
810917	12	8.5	8.5	8.0	8.0	8.0	8.5	8.5	9.0	9.5	9.5	9.0	9.0	8.0	9.5	8.7
810918	12	9.0	8.5	8.5	8.0	8.0	8.0	8.5	8.5	8.5	8.5	8.5	8.5	8.0	9.0	8.4
810919	12	8.5	8.5	8.5	8.5	8.0	8.0	8.0	8.0	8.5	8.5	8.5	8.5	8.0	8.5	8.3
810920	12	8.0	8.0	8.0	7.5	7.5	7.5	8.0	8.0	8.5	8.5	8.0	8.0	7.5	8.5	8.0
810921	12	8.0	8.0	8.0	8.0	7.5	7.5	7.5	8.0	8.0	8.0	8.0	8.0	7.5	8.0	7.9
810922	12	8.0	8.0	7.5	7.0	6.5	6.5	7.0	7.5	7.5	7.5	7.0	7.0	6.5	8.0	7.3
810923	12	7.0	6.5	6.5	6.0	6.0	6.0	6.0	6.5	6.5	6.5	6.5	6.5	6.0	7.0	6.4
810924	12	6.5	6.5	6.0	6.0	6.0	6.0	6.0	6.5	7.0	7.0	6.5	6.0	6.0	7.0	6.3
810925	12	6.0	5.5	5.5	5.0	5.0	5.0	5.5	5.5	6.0	6.0	5.5	5.0	5.0	6.0	5.5
810926	12	4.5	4.5	4.0	4.0	4.0	4.0	4.0	4.5	4.5	4.5	4.5	4.0	4.0	4.5	4.3
810927	12	4.0	4.0	4.0	4.0	3.5	3.5	4.0	4.5	4.5	4.5	4.0	4.0	3.5	4.5	4.0
810928	12	4.0	4.0	3.5	3.5	3.5	3.5	3.5	4.0	4.5	4.0	4.0	3.5	3.5	4.5	3.8
810929	12	3.0	3.0	2.5	2.5	2.0	2.0	2.5	3.0	3.0	3.0	3.0	3.0	2.0	3.0	2.7
810930	12	3.0	3.0	2.5	2.5	2.5	2.5	3.0	3.5	3.5	3.5	3.0	3.0	2.5	3.5	3.0
811001	12	2.5	2.5	2.5	2.0	2.0	2.0	2.5	3.0	3.0	3.0	2.5	2.5	2.0	3.0	2.5
811002	12	2.0	2.0	2.0	1.5	1.5	1.5	2.0	2.5	2.5	2.5	2.0	2.0	1.5	2.5	2.0
811003	12	2.0	2.0	1.5	1.5	1.5	1.5	2.0	2.0	2.0	2.0	2.0	2.0	1.5	2.0	1.8

Values = -.0 indicate missing data.

Table EC- 1. Daily thermograph statistics, lower Susitna River, 1981, Alexander Creek, R.M. 10.1, T.R.M. 0.5, 15N/07W/05/CBC.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
811004	12	2.0	2.0	2.0	2.0	1.5	1.5	1.5	1.5	1.5	1.5	1.0	1.0	1.0	2.0	1.6
811005	12	1.0	1.0	1.0	1.0	1.0	1.0	1.5	2.0	2.0	2.0	2.0	1.5	1.0	2.0	1.4
811006	12	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0	2.0	2.0	1.5	2.0	1.7
811007	12	1.5	1.5	1.5	1.0	1.0	1.0	1.5	1.5	2.0	1.5	1.5	1.0	1.0	2.0	1.4
811008	12	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.0	1.5	1.2
811009	9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	-.0	-.0	-.0	1.0	1.5	1.1

Values = -.0 indicate missing data.

Table EC- 2. Daily thermograph statistics, lower Susitna River, 1981, above Alexander Creek, R.M. 10.1, 15N/07W/05/CDB.

DATE	# OBS.	TEMPERATURE AT TIME 0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400	MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
810606	3	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	7.0	7.0	6.5	6.5	7.0	6.8
810607	12	6.5	6.5	6.5	7.0	7.5	8.0	8.5	8.5	8.5	8.0	7.5	7.5	6.5	8.5	7.5
810608	12	7.5	7.5	8.0	8.0	8.0	8.0	8.0	8.0	7.5	7.5	7.5	7.5	7.5	8.0	7.8
810609	12	7.5	7.0	7.0	7.0	7.5	7.5	8.0	8.0	7.5	7.5	7.0	7.0	7.0	8.0	7.4
810610	12	7.0	7.0	7.0	7.0	7.0	7.5	8.0	8.0	8.0	8.0	7.5	7.5	7.0	8.0	7.5
810611	12	7.5	7.5	7.5	7.5	8.0	8.5	9.0	9.5	9.5	9.0	9.0	9.0	7.5	9.5	8.5
810612	12	9.0	9.0	9.0	9.0	9.5	10.5	10.5	10.5	10.5	10.0	9.5	9.0	9.0	10.5	9.7
810613	12	9.0	9.0	9.0	9.5	10.0	10.5	10.5	10.5	10.5	10.0	10.0	9.5	9.0	10.5	9.8
810614	12	9.5	9.5	9.5	10.0	10.5	11.0	11.5	11.5	11.0	10.5	10.5	10.0	9.5	11.5	10.4
810615	12	10.0	10.0	10.0	10.0	10.0	10.5	10.0	10.0	10.0	10.0	9.5	9.5	9.5	10.5	10.0
810616	12	9.5	9.5	9.5	9.5	10.0	10.0	10.0	10.0	9.5	9.0	9.0	9.0	9.0	10.0	9.5
810617	12	9.0	9.0	9.0	9.0	9.5	10.0	10.5	10.5	10.5	10.5	10.5	10.5	9.0	10.5	9.9
810618	12	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
810619	12	10.5	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.5	10.0
810620	12	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
810621	12	10.0	9.5	9.5	9.5	9.0	9.0	9.5	9.5	9.0	9.0	9.0	9.0	9.0	10.0	9.3
810622	12	9.0	9.0	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.0	8.0	8.0	8.0	9.0	8.5
810623	12	8.0	8.5	8.5	8.5	8.5	9.0	9.5	10.0	10.0	9.5	9.5	9.5	8.0	10.0	9.1
810624	12	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	10.0	10.0	10.0	10.0	9.5	10.0	9.7
810625	12	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0

Values = -.0 indicate missing data.

Table EC- 2. Daily thermograph statistics, lower Susitna River, 1981, above Alexander Creek, R.M. 10.1, 15N/07W/05/CDB.

DATE	# OBS.	TEMPERATURE AT TIME 0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400	MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
810626	12	10.0	10.0	10.0	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.0	9.0	9.0	10.0	9.5
810627	12	9.0	9.0	9.0	8.5	8.5	8.5	8.0	8.0	7.5	7.5	7.0	7.0	7.0	9.0	8.1
810628	12	7.0	7.0	7.0	7.0	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	7.0	6.7
810629	12	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	7.0	7.0	6.5	7.0	6.6
810630	12	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
810701	12	7.0	7.0	7.0	7.0	7.0	7.5	7.5	8.0	8.0	8.0	8.0	8.0	7.0	8.0	7.5
810702	12	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.5	8.5	8.5	8.5	9.0	8.0	9.0	8.3
810703	12	9.0	9.0	9.0	9.5	9.5	10.0	10.0	10.0	10.0	9.5	9.5	9.5	9.0	10.0	9.5
810704	12	9.5	9.5	9.5	10.0	10.5	11.0	11.0	11.0	11.0	10.5	10.0	10.0	9.5	11.0	10.3
810705	12	10.0	10.0	10.0	10.5	11.0	11.5	11.5	11.5	11.0	10.5	10.0	10.0	10.0	11.5	10.6
810706	12	10.0	10.0	10.0	10.5	10.5	11.5	12.0	12.0	11.5	11.0	10.5	10.5	10.0	12.0	10.8
810707	12	10.5	10.5	10.5	10.5	10.5	11.0	11.5	11.5	11.0	11.0	10.5	10.5	10.5	11.5	10.8
810708	12	10.5	10.5	10.5	10.5	10.5	11.0	11.0	11.0	10.5	10.0	10.0	10.0	10.0	11.0	10.5
810709	12	10.0	10.0	10.0	10.0	10.0	9.5	9.0	9.0	9.0	9.0	8.5	8.5	8.5	10.0	9.4
810710	12	8.5	8.5	8.5	8.5	8.5	8.5	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.5	8.3
810711	12	8.0	8.0	8.0	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	8.0	7.6
810712	12	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
810713	12	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
810714	12	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
810715	12	7.5	7.5	7.5	7.5	7.5	7.5	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.5	7.3

Values = -.0 indicate missing data.

Table EC- 2. Daily thermograph statistics, lower Susitna River, 1981, above Alexander Creek, R.M. 10.1, 15N/07W/05/CDB.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
810716	12	7.0	7.0	7.0	7.0	7.0	7.0	7.5	7.5	7.5	7.5	7.5	8.0	7.0	8.0	7.3
810717	12	8.0	8.0	8.0	8.0	8.0	8.0	8.5	8.5	9.0	9.0	9.0	9.0	8.0	9.0	8.4
810718	12	9.0	9.0	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	9.0	8.6
810719	12	8.5	8.0	8.0	8.0	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	8.5	7.7
810720	12	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	8.0	8.0	8.0	7.5	8.0	7.6
810721	12	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.5	8.5	8.5	8.5	8.0	8.5	8.2
810722	12	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	9.0	9.0	9.0	9.0	8.5	9.0	8.7
810723	12	9.0	9.0	9.0	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	9.0	8.6
810724	12	8.5	8.5	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.5	8.0	8.5	8.1
810725	12	8.5	8.5	8.5	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.5	8.1
810726	12	8.0	8.0	8.0	8.0	8.0	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.0	8.5	8.3
810727	12	8.5	8.0	8.0	8.0	8.0	8.0	8.5	8.5	8.5	8.5	8.5	8.5	8.0	8.5	8.3
810728	12	8.5	8.5	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.5	8.1
810729	12	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.5	8.0	8.0	8.0	8.0	8.0	8.5	8.0
810730	12	8.0	8.0	8.0	8.0	8.5	9.0	9.0	9.0	9.0	9.0	9.0	9.5	8.0	9.5	8.7
810731	12	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
810801	12	9.5	9.5	9.0	9.0	9.0	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	9.5	8.8
810802	12	8.5	8.5	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.5	8.1
810803	12	8.0	8.0	8.0	8.0	8.5	8.5	8.5	9.0	9.0	9.0	9.5	9.5	8.0	9.5	8.6
810804	12	9.5	9.5	9.5	9.0	9.0	9.0	9.5	9.5	9.5	9.5	10.0	10.0	9.0	10.0	9.5

Values = -.0 indicate missing data.

Table EC- 2. Daily thermograph statistics, lower Susitna River, 1981, above Alexander Creek, R.M. 10.1, 15N/07W/05/CDB.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
810805	12	10.0	10.0	9.5	9.5	9.5	9.5	9.0	9.0	9.0	9.0	9.5	9.5	9.0	10.0	9.4
810806	12	9.5	9.5	9.5	9.5	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.5	9.2
810807	12	9.0	9.0	8.5	8.5	8.5	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	9.0	8.3
810808	12	7.5	7.5	7.5	7.5	7.5	7.5	7.5	8.0	8.0	8.0	8.0	8.0	7.5	8.0	7.7
810809	12	8.0	8.0	8.0	8.0	8.0	8.0	8.5	8.5	8.5	8.5	8.5	8.5	8.0	8.5	8.3
810810	12	8.5	8.5	8.5	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	7.5	7.5	8.5	8.1
810811	12	7.5	7.5	7.5	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.5	7.1
810812	12	7.0	7.0	7.0	7.0	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.0	7.5	7.3
810813	12	7.5	7.5	7.5	7.5	7.5	7.5	7.5	6.5	7.0	7.0	7.0	7.0	6.5	7.5	7.3
810814	12	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
810815	12	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
810816	12	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
810817	12	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
810818	12	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
810819	12	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
810820	12	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
810821	12	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
810822	12	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
810823	12	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
810824	12	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0

Values = -.0 indicate missing data.

Table EC- 2. Daily thermograph statistics, lower Susitna River, 1981, above Alexander Creek, R.M. 10.1, 15N/07W/05/CDB.

DATE	# OBS.	TEMPERATURE AT TIME 0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400	MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
810825	12	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
810826	12	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
810827	6	7.0	7.0	7.0	7.0	7.0	6.5	-.0	-.0	-.0	-.0	-.0	-.0	6.5	7.0	6.9
810829	12	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
810830	12	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
810831	12	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
810901	12	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0

Values = -.0 indicate missing data.

Table EC- 3. Daily thermograph statistics, lower Susitna River, 1981, Yentna River, R.M. 30.1, T.R.M. 2.0, 17N/07W/01/CAB.

DATE	# OBS.	TEMPERATURE AT TIME 0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400	MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
810605	4	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	9.5	9.5	9.5	9.5	9.5	9.5	9.5
810606	12	9.0	9.0	8.5	8.5	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	9.0	8.3
810607	12	8.0	8.0	8.0	8.0	8.0	8.5	8.5	8.5	9.0	9.0	9.5	9.5	8.0	9.5	8.5
810608	12	9.5	9.0	9.0	9.0	9.0	9.0	8.5	8.5	8.5	8.5	8.5	8.5	8.5	9.5	8.8
810609	12	8.5	8.5	8.0	8.0	8.0	7.5	8.0	8.0	8.0	8.5	8.5	8.5	7.5	8.5	8.2
810610	12	8.0	8.0	8.0	7.5	7.5	8.0	8.0	8.5	8.5	9.0	9.0	9.0	7.5	9.0	8.3
810611	12	9.0	9.0	8.5	8.5	8.5	9.0	9.5	9.5	10.0	10.5	10.5	10.5	8.5	10.5	9.4
810612	12	10.5	10.5	10.5	10.0	10.0	10.0	10.0	10.5	10.5	10.5	10.5	10.5	10.0	10.5	10.3
810613	12	10.5	10.5	10.5	10.0	10.0	10.5	10.5	11.0	11.0	11.5	11.5	11.5	10.0	11.5	10.8
810614	12	11.5	11.5	11.0	11.0	11.0	11.0	11.0	11.0	11.5	11.5	11.5	12.0	11.0	12.0	11.3
810615	12	12.0	11.5	11.5	11.5	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	12.0	11.2
810616	12	11.0	11.0	10.5	11.0	9.5	9.5	9.5	10.0	10.0	10.5	10.5	10.5	9.5	11.0	10.3
810617	12	10.5	10.5	10.5	10.5	10.5	10.5	11.0	11.5	11.5	12.0	12.0	12.0	10.5	12.0	11.1
810618	12	12.0	12.0	11.5	11.0	11.0	11.0	11.0	11.5	11.5	11.0	11.0	11.0	11.0	12.0	11.3
810619	12	11.5	11.5	11.0	10.5	10.0	10.0	10.5	10.5	11.0	11.5	11.5	11.5	10.0	11.5	10.9
810620	12	11.5	11.0	11.0	10.5	10.5	10.5	10.5	11.0	11.0	11.5	11.5	11.5	10.5	11.5	11.0
810621	12	11.0	10.5	10.5	10.0	9.5	9.5	9.5	10.0	10.0	10.0	10.0	10.0	9.5	11.0	10.0
810622	12	10.0	9.5	9.0	9.0	8.5	8.5	8.5	8.5	8.5	9.0	9.0	9.5	8.5	10.0	9.0
810623	12	9.5	9.5	9.5	9.0	9.0	9.0	9.5	10.0	10.5	10.5	11.0	11.0	9.0	11.0	9.8
810624	12	11.0	10.5	10.0	10.0	10.0	10.0	10.5	10.5	11.0	11.0	11.5	11.5	10.0	11.5	10.6

Values = -.0 indicate missing data.

Table EC- 3. Daily thermograph statistics, lower Susitna River, 1981, Yentna River, R.M. 30.1, T.R.M. 2.0, 17N/07W/01/CAB.

DATE	# OBS.	TEMPERATURE AT TIME 0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400	MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
810625	12	11.5	11.0	11.0	10.5	10.5	10.5	10.5	10.5	11.0	11.0	11.5	11.5	10.5	11.5	10.9
810626	12	11.5	11.0	11.0	10.5	10.5	10.0	10.0	10.0	10.0	10.5	10.5	10.5	10.0	11.5	10.5
810627	12	10.5	10.0	9.5	9.0	8.5	8.5	8.0	8.0	7.5	7.5	7.5	7.5	7.5	10.5	8.5
810628	12	7.5	7.5	7.5	7.0	7.0	7.0	7.0	7.0	7.0	7.5	7.5	7.5	7.0	7.5	7.3
810629	12	7.5	7.5	7.5	7.5	7.5	8.0	8.0	8.5	8.5	9.0	9.0	9.0	7.5	9.0	8.1
810630	12	9.0	9.0	8.5	8.0	7.5	7.5	7.5	7.5	8.0	8.0	8.0	8.5	7.5	9.0	8.1
810701	12	8.5	8.0	8.0	8.0	8.0	8.0	8.0	8.5	8.5	9.0	9.0	9.0	8.0	9.0	8.4
810702	12	9.0	9.0	9.0	9.0	9.0	9.0	9.5	9.5	10.0	10.0	10.5	10.5	9.0	10.5	9.5
810703	12	10.5	10.5	10.0	10.0	10.0	10.0	10.0	10.5	10.5	11.0	11.0	11.0	10.0	11.0	10.4
810704	12	11.0	11.0	11.0	10.5	10.5	10.5	11.0	11.0	11.0	11.5	11.5	11.5	10.5	11.5	11.0
810705	12	11.5	11.5	11.5	11.0	11.0	11.0	11.0	11.0	11.5	11.5	11.5	11.5	11.0	11.5	11.3
810706	12	11.5	11.5	11.5	11.5	11.0	11.0	11.5	11.5	12.0	12.0	12.0	12.0	11.0	12.0	11.6
810707	12	12.0	11.5	11.5	11.0	11.0	11.0	11.5	11.5	12.0	12.0	12.0	12.0	11.0	12.0	11.6
810708	12	12.0	12.0	11.5	11.0	11.0	11.0	10.5	10.5	11.0	11.0	11.0	11.0	10.5	12.0	11.1
810709	12	11.0	10.5	10.5	10.0	10.0	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	11.0	9.9
810710	12	9.5	9.5	9.5	9.0	9.0	9.0	9.0	8.5	8.5	8.5	8.5	8.5	8.5	9.5	8.9
810711	12	8.5	8.5	8.5	8.5	8.5	8.5	9.0	9.0	9.0	9.0	9.0	9.0	8.5	9.0	8.8
810712	12	9.0	9.0	9.0	8.5	8.5	9.0	9.0	9.5	9.5	9.5	9.5	9.5	8.5	9.5	9.1
810713	12	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.5	9.5	10.0	10.0	10.0	9.0	10.0	9.3
810714	12	10.0	9.5	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	10.0	9.1

Values = -.0 indicate missing data.

Table EC- 3. Daily thermograph statistics, lower Susitna River, 1981, Yentna River, R.M. 30.1, T.R.M. 2.0, 17N/07W/01/CAB.

DATE	# OBS.	TEMPERATURE AT TIME 0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400	MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
810715	12	9.0	8.5	8.5	8.5	8.0	8.0	8.0	8.5	8.5	8.5	8.5	8.5	8.0	9.0	8.4
810716	12	8.5	8.5	8.5	8.5	8.5	8.5	8.5	9.0	9.0	9.0	9.0	9.0	8.5	9.0	8.7
810717	12	9.0	9.0	9.0	9.0	9.0	9.0	10.0	10.0	10.5	10.5	10.5	10.5	9.0	10.5	9.7
810718	12	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.5	9.5	10.0	10.0
810719	12	9.5	9.0	9.0	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	9.5	8.7
810720	12	8.5	8.5	8.5	8.5	8.5	8.5	8.5	9.0	9.0	9.0	9.0	9.0	8.5	9.0	8.7
810721	12	9.0	9.0	9.0	8.5	8.5	9.0	9.0	9.5	9.5	9.5	9.5	9.5	8.5	9.5	9.1
810722	12	9.5	9.5	9.5	9.0	9.0	9.5	9.5	9.5	10.0	10.0	10.0	10.0	9.0	10.0	9.6
810723	12	9.5	9.5	9.5	9.5	9.0	9.0	9.0	9.5	9.5	9.5	9.5	9.5	9.0	9.5	9.4
810724	12	9.0	9.0	8.5	8.5	8.5	9.0	8.5	9.0	9.0	9.0	9.0	9.0	8.5	9.0	8.8
810725	12	9.0	9.0	9.0	8.5	8.5	8.5	8.5	9.0	9.0	9.0	9.0	9.0	8.5	9.0	8.8
810726	12	9.0	9.0	9.0	8.5	8.5	8.5	9.0	9.0	9.0	9.5	9.5	9.0	8.5	9.5	9.0
810727	12	9.0	8.5	8.5	8.5	8.5	9.0	9.0	9.5	9.5	9.5	9.5	9.5	8.5	9.5	9.0
810728	12	9.0	9.0	8.5	8.5	8.5	8.5	8.5	8.5	9.0	9.0	9.0	9.0	8.5	9.0	8.8
810729	12	8.5	8.5	8.5	8.5	8.0	8.0	8.5	8.5	9.0	9.0	9.0	9.0	8.0	9.0	8.6
810730	12	9.0	9.0	9.0	9.0	9.0	9.0	9.5	10.0	10.0	10.5	11.0	11.0	9.0	11.0	9.7
810731	12	11.0	10.5	10.5	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.5	10.0	10.0	11.0	10.2
810801	12	10.0	10.0	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	10.0	9.6
810802	12	9.0	9.0	8.5	8.5	8.5	8.5	8.5	8.5	9.0	9.0	9.5	9.5	8.5	9.5	8.8
810803	12	9.5	9.5	9.0	9.0	9.0	9.5	9.5	10.0	10.5	10.5	10.5	10.5	9.0	10.5	9.8

Values = -.0 indicate missing data.

Table EC- 3. Daily thermograph statistics, lower Susitna River, 1981, Yentna River, R.M. 30.1, T.R.M. 2.0, 17N/07W/01/CAB.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
810804	12	10.5	10.5	10.0	10.0	10.0	10.0	10.5	10.5	11.0	11.0	11.5	11.0	10.0	11.5	10.5
810805	12	11.0	10.5	10.5	10.0	10.0	10.0	10.0	10.5	10.5	11.0	11.0	11.0	10.0	11.0	10.5
810806	12	10.5	10.5	10.0	10.0	9.5	9.5	10.0	10.0	10.0	10.0	10.0	10.0	9.5	10.5	10.0
810807	12	9.5	9.5	9.0	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	9.5	8.7
810808	12	8.5	8.5	8.5	8.0	8.0	8.5	8.5	8.5	9.0	9.0	9.0	9.0	8.0	9.0	8.6
810809	12	9.0	9.0	9.0	9.0	9.0	9.0	9.5	9.5	9.5	9.5	9.5	9.5	9.0	9.5	9.3
810810	12	9.0	9.0	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	9.0	8.6
810811	12	8.0	8.0	8.0	7.5	7.5	7.5	7.5	8.0	8.0	8.0	8.0	7.5	7.5	8.0	7.8
810812	12	7.5	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.5	7.5	7.5	7.5	7.0	7.5	7.2
810813	12	7.5	7.5	7.5	7.5	7.5	7.5	7.5	8.0	8.0	8.0	8.0	8.0	7.5	8.0	7.7
810814	12	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.5	8.5	8.5	8.5	8.0	8.5	8.2
810815	12	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
810816	12	8.0	8.0	8.0	8.0	8.0	8.0	8.5	8.5	9.0	9.0	9.0	9.0	8.0	9.0	8.4
810817	12	9.0	9.0	8.5	8.5	8.5	8.5	8.5	8.5	8.5	9.0	9.0	9.0	8.5	9.0	8.7
810818	12	9.0	8.5	8.5	8.5	8.5	8.5	8.0	8.5	8.5	8.5	8.5	8.5	8.0	9.0	8.5
810819	12	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.5	9.0	9.5	9.0
810820	12	9.0	9.0	9.0	9.0	9.0	9.0	9.0	8.5	9.0	9.0	8.5	8.5	8.5	9.0	8.9
810821	12	8.5	8.5	8.5	8.5	8.5	8.5	8.5	9.0	9.0	9.0	9.0	9.0	8.5	9.0	8.7
810822	12	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
810823	12	9.0	9.0	9.0	9.0	9.0	9.0	9.5	9.5	10.0	10.0	10.0	10.0	9.0	10.0	9.4

Values = -.0 indicate missing data.

Table EC- 3. Daily thermograph statistics, lower Susitna River, 1981, Yentna River, R.M. 30.1, T.R.M. 2.0, 17N/07W/01/CAB.

DATE	# OBS.	TEMPERATURE AT TIME 0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400	MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
810824	12	9.5	9.5	9.5	9.5	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.5	9.2
810825	12	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.5	9.5	9.5	10.0	10.0	9.0	10.0	9.3
810826	12	10.0	10.0	10.0	9.5	9.0	9.5	9.0	9.5	9.5	10.0	10.0	10.0	9.0	10.0	9.7
810827	12	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.5	10.5	10.5	10.5	10.0	10.5	10.2
810828	12	11.0	11.0	11.0	10.5	10.5	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	11.0	10.3
810829	12	10.0	10.0	10.0	10.0	9.5	9.0	9.0	9.0	9.0	9.0	9.5	9.5	9.0	10.0	9.5
810830	12	9.5	9.5	9.0	8.5	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	9.5	8.4
810831	12	8.0	8.0	8.0	8.0	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	8.0	7.7
810901	12	7.5	7.5	7.5	7.0	7.0	7.0	7.0	7.5	7.5	8.0	8.0	8.0	7.0	8.0	7.5
810902	12	8.0	7.5	7.5	7.0	7.0	7.0	7.0	7.0	7.5	7.5	7.5	7.5	7.0	8.0	7.3
810903	12	7.5	7.0	7.0	6.5	6.5	6.5	6.0	6.5	6.5	6.5	6.5	7.0	6.0	7.5	6.7
810904	12	7.0	7.0	7.0	7.0	7.0	7.0	7.5	7.5	7.5	7.5	7.5	7.5	7.0	7.5	7.3
810905	12	7.5	7.5	7.5	7.0	7.0	7.0	7.0	7.0	7.0	7.5	7.5	7.5	7.0	7.5	7.3
810906	12	7.5	7.5	7.5	7.0	7.0	7.0	7.0	7.0	7.5	7.5	7.5	7.5	7.0	7.5	7.3
810907	12	7.5	7.5	7.5	7.0	7.0	7.0	7.0	7.5	7.5	7.5	7.5	7.5	7.0	7.5	7.3
810908	12	8.0	8.0	7.5	7.0	7.0	7.0	7.0	7.5	7.5	7.5	7.5	7.5	7.0	8.0	7.4
810909	12	7.5	7.5	7.5	7.0	7.0	7.0	7.0	7.0	7.5	7.5	7.5	7.5	7.0	7.5	7.3
810910	12	7.5	7.5	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.5	7.1
810911	12	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
810912	12	7.0	7.0	7.0	7.0	7.0	7.0	7.5	7.5	7.5	7.5	7.5	7.5	7.0	7.5	7.3

Values = -.0 indicate missing data.

Table EC- 3. Daily thermograph statistics, lower Susitna River, 1981, Yentna River, R.M. 30.1, T.R.M. 2.0, 17N/07W/01/CAB.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
810913	12	7.0	7.0	7.0	7.0	7.0	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.0	7.5	7.3
810914	6	7.0	7.0	7.0	7.0	7.0	7.0	-.0	-.0	-.0	-.0	-.0	-.0	7.0	7.0	7.0

Values = -.0 indicate missing data.

Table EC- 4. Daily thermograph statistics, lower Susitna River, 1981, above Yentna River, R.M. 32.3, 17N/06W/07/CDB.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
810606	4	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
810607	12	9.5	9.5	9.5	9.5	9.5	9.5	10.0	10.0	10.5	11.0	11.0	11.0	9.5	11.0	10.0
810608	12	10.5	10.5	10.0	10.0	10.0	9.5	9.5	9.5	9.5	9.5	9.0	9.0	9.0	10.5	9.7
810609	12	9.0	8.5	8.5	8.5	8.5	8.5	9.0	9.0	9.5	9.5	9.5	9.5	8.5	9.5	9.0
810610	12	9.5	9.5	9.0	9.0	9.0	9.5	9.5	10.0	10.0	10.5	10.5	10.5	9.0	10.5	9.7
810611	12	10.0	10.0	10.0	10.0	10.5	10.5	11.5	11.5	11.5	12.0	12.0	11.5	10.0	12.0	10.9
810612	12	11.5	11.0	10.5	10.5	10.5	11.0	11.5	11.5	12.0	12.0	12.0	12.0	10.5	12.0	11.3
810613	12	12.0	11.5	11.5	11.5	11.5	11.5	12.0	12.5	13.0	13.0	13.0	13.0	11.5	13.0	12.2
810614	12	13.0	12.5	12.0	12.0	12.0	12.0	12.5	13.0	13.5	13.5	13.5	13.5	12.0	13.5	12.8
810615	12	13.0	13.0	12.5	12.5	12.0	12.0	12.0	12.5	12.5	12.5	12.5	12.5	12.0	13.0	12.5
810616	12	12.5	12.5	12.0	12.0	12.0	12.0	12.5	12.5	13.0	13.0	13.5	13.5	12.0	13.5	12.6
810617	12	13.0	13.0	12.5	12.5	12.5	12.5	13.0	13.5	14.0	14.0	14.0	13.5	12.5	14.0	13.2
810618	12	13.5	13.0	12.5	12.5	12.5	12.5	13.0	13.5	13.5	14.0	14.0	13.5	12.5	14.0	13.2
810619	12	13.5	13.0	13.0	12.5	12.5	12.5	13.0	13.5	13.5	14.0	14.0	14.0	12.5	14.0	13.3
810620	12	13.5	13.5	13.0	12.5	12.5	13.0	13.5	13.5	14.0	14.0	14.0	13.5	12.5	14.0	13.4
810621	12	13.5	13.0	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.0	12.0	13.5	12.6
810622	12	11.5	11.5	11.0	10.5	10.5	10.5	11.0	11.0	11.0	11.5	11.5	11.5	10.5	11.5	11.1
810623	12	11.5	11.0	11.0	11.0	11.0	11.5	12.0	12.5	13.0	13.5	13.5	13.0	11.0	13.5	12.0
810624	12	13.0	12.5	12.0	12.0	12.0	12.0	12.5	13.0	13.5	13.5	13.5	13.5	12.0	13.5	12.8
810625	12	13.0	12.5	12.5	12.0	12.0	12.5	12.5	13.0	13.0	13.0	13.5	13.5	12.0	13.5	12.8

Values = -.0 indicate missing data.

Table EC- 4. Daily thermograph statistics, lower Susitna River, 1981, above Yentna River, R.M. 32.3, 17N/06W/07/CDB.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
810626	12	13.0	12.5	12.5	12.0	12.0	11.5	11.5	11.5	11.5	11.5	11.5	11.0	11.0	13.0	11.8
810627	12	11.0	10.5	10.0	10.0	10.0	9.5	9.5	9.5	9.5	9.0	9.0	9.0	9.0	11.0	9.7
810628	12	8.5	8.5	8.5	8.5	8.0	8.0	8.0	8.5	8.5	8.5	8.5	8.5	8.0	8.5	8.4
810629	12	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
810630	12	8.5	8.0	8.0	8.0	8.0	8.0	8.5	8.5	9.0	9.0	9.0	9.0	8.0	9.0	8.5
810701	12	8.5	8.5	8.5	8.5	8.5	8.5	9.0	9.0	9.0	9.5	9.5	9.5	8.5	9.5	8.9
810702	12	9.0	9.0	9.0	9.0	9.0	9.5	9.5	9.5	10.0	10.0	10.0	10.0	9.0	10.0	9.5
810703	12	10.0	10.0	9.5	9.5	9.5	10.0	10.0	10.5	11.0	11.0	11.0	11.0	9.5	11.0	10.3
810704	12	11.0	11.0	10.5	10.5	10.5	11.0	11.5	11.5	12.0	12.0	12.0	11.5	10.5	12.0	11.3
810705	12	11.5	11.0	11.0	11.0	11.0	11.5	11.5	12.0	12.0	12.5	12.5	12.0	11.0	12.5	11.6
810706	12	12.0	11.5	11.5	11.0	11.0	11.0	11.5	12.0	12.0	12.0	12.0	12.0	11.0	12.0	11.6
810707	12	11.5	11.5	11.5	11.0	11.0	11.5	11.5	12.0	12.0	12.0	11.5	11.5	11.0	12.0	11.5
810708	12	11.5	11.0	11.0	11.0	10.5	11.0	11.0	11.0	11.0	11.0	11.0	11.0	10.5	11.5	11.0
810709	12	10.5	10.0	10.0	10.0	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.0	9.0	10.5	9.7
810710	12	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
810711	12	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	9.0	9.0	9.5	9.5	8.5	9.5	8.8
810712	12	9.5	9.0	9.0	9.0	9.0	9.0	9.5	9.5	9.5	9.5	9.5	9.5	9.0	9.5	9.3
810713	12	9.5	9.5	9.0	9.0	9.0	9.0	9.0	9.5	9.5	9.5	9.5	9.5	9.0	9.5	9.3
810714	12	9.5	9.5	9.5	9.0	9.0	9.0	9.5	9.5	9.5	9.5	9.5	9.5	9.0	9.5	9.4
810715	12	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.5	9.5	9.0	9.0	9.5	9.1

Values = -.0 indicate missing data.

Table EC- 4. Daily thermograph statistics, lower Susitna River, 1981, above Yentna River, R.M. 32.3, 17N/06W/07/CDB.

DATE	# OBS.	TEMPERATURE AT TIME 0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400	MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
810716	12	9.0	9.0	9.0	9.0	9.0	9.0	9.5	9.5	9.5	9.5	9.5	9.5	9.0	9.5	9.3
810717	12	9.5	9.5	9.5	9.5	9.5	9.5	10.0	10.5	11.0	11.0	11.5	11.5	9.5	11.5	10.2
810718	11	11.5	11.0	11.0	11.0	11.0	11.0	-.0	11.0	11.0	11.0	11.0	11.0	11.0	11.5	11.0
810719	12	11.0	10.5	10.5	10.5	10.0	10.0	10.0	10.0	10.0	10.5	10.5	10.5	10.0	11.0	10.3
810720	12	10.5	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.5	10.0
810721	12	10.0	10.0	10.0	9.5	9.5	9.5	10.0	10.5	10.5	10.5	10.5	10.5	9.5	10.5	10.1
810722	12	10.5	10.5	10.0	10.0	10.0	10.5	11.0	11.0	11.5	11.5	11.5	11.5	10.0	11.5	10.8
810723	12	11.5	11.0	11.0	10.5	10.5	10.5	10.5	11.0	11.0	11.0	11.0	11.0	10.5	11.5	10.9
810724	12	11.0	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	11.0	10.5
810725	12	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
810726	12	10.5	10.5	10.0	10.0	10.0	10.5	10.5	10.5	10.5	11.0	11.0	11.0	10.0	11.0	10.5
810727	12	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	11.0	11.0	11.0	11.0	10.5	11.0	10.7
810728	12	11.0	11.0	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	11.0	10.6
810729	12	10.0	10.0	10.0	9.5	9.5	10.0	10.5	10.5	11.0	11.0	11.5	11.5	9.5	11.5	10.4
810730	12	11.5	11.5	11.0	11.0	11.0	11.0	11.0	11.5	11.5	11.5	11.5	11.5	11.0	11.5	11.3
810731	12	11.5	11.0	11.0	10.5	10.5	10.5	11.0	11.5	11.5	11.5	11.5	11.5	10.5	11.5	11.1
810801	12	11.5	11.0	11.0	11.0	11.0	11.0	10.5	10.5	10.5	10.5	10.5	10.5	10.5	11.5	10.8
810802	12	10.0	9.5	9.5	9.5	9.5	9.5	9.5	9.5	10.0	10.0	10.0	10.0	9.5	10.0	9.7
810803	12	10.0	10.0	9.5	9.5	9.5	10.0	10.0	10.5	10.5	10.5	10.5	10.5	9.5	10.5	10.1
810804	12	10.5	10.5	10.5	10.5	10.5	10.5	11.0	11.5	11.5	12.0	12.0	11.5	10.5	12.0	11.0

Values = -.0 indicate missing data.

Table EC- 4. Daily thermograph statistics, lower Susitna River, 1981, above Yentna River, R.M. 32.3, 17N/06W/07/CDB.

DATE	# OBS.	TEMPERATURE AT TIME 0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400	MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
810805	12	11.5	11.5	11.5	11.0	11.0	11.0	11.5	11.5	11.5	11.5	11.5	11.0	11.0	11.5	11.3
810806	12	11.0	11.0	11.0	10.5	10.5	10.5	10.5	11.0	11.0	11.0	11.0	11.0	10.5	11.0	10.8
810807	12	11.0	11.0	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	11.0	10.6
810808	12	10.5	10.5	10.0	10.0	10.0	10.0	10.5	10.5	10.5	11.0	11.0	11.0	10.0	11.0	10.5
810809	12	10.5	10.5	10.5	10.0	10.0	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.0	10.5	10.4
810810	12	10.0	10.0	10.0	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	10.0	9.6
810811	12	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.5	9.5	9.0	9.0	9.0	9.0	9.5	9.1
810812	12	9.0	9.0	9.0	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	9.0	8.6
810813	12	8.5	8.5	8.5	8.5	8.5	8.5	8.5	9.0	9.0	9.0	9.0	8.5	8.5	9.0	8.7
810814	12	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
810815	12	8.5	8.5	8.5	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.5	8.1
810816	12	8.0	8.0	7.5	7.5	7.5	7.5	8.0	8.0	8.0	8.0	8.0	8.0	7.5	8.0	7.8
810817	12	8.0	8.0	7.5	7.5	7.5	7.5	7.5	8.0	8.0	8.0	8.0	8.0	7.5	8.0	7.8
810818	12	7.5	7.5	7.5	7.5	7.5	8.0	8.0	8.5	8.5	8.5	8.5	8.5	7.5	8.5	8.0
810819	12	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
810820	12	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
810821	12	8.5	8.5	8.5	8.0	8.0	8.5	8.5	8.5	9.0	9.0	9.0	9.0	8.0	9.0	8.6
810822	12	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	8.5	8.5	8.5	8.5	9.0	8.9
810823	12	8.5	8.5	8.5	8.5	8.5	8.5	8.5	9.0	9.0	9.5	9.5	9.5	8.5	9.5	8.8
810824	12	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.5	9.5	9.5	9.5	9.0	9.5	9.2

Values = -.0 indicate missing data.

Table EC- 4. Daily thermograph statistics, lower Susitna River, 1981, above Yentna River, R.M. 32.3, 17N/06W/07/CDB.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
810825	9	9.5	9.5	9.0	9.0	9.0	9.5	9.5	10.0	10.0	-.0	-.0	-.0	9.0	10.0	9.4
810826	6	-.0	-.0	-.0	-.0	-.0	-.0	10.0	10.5	10.5	10.5	11.0	11.0	10.0	11.0	10.6
810827	12	11.0	11.0	10.5	10.5	10.5	11.0	11.0	11.5	11.5	11.5	11.5	11.5	10.5	11.5	11.1
810828	12	11.5	11.5	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.5	11.1
810829	12	11.0	11.0	10.5	10.5	10.5	10.5	10.5	11.0	11.0	11.0	11.0	11.0	10.5	11.0	10.8
810830	12	10.5	10.5	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.5	10.1
810831	12	10.0	9.5	9.5	9.5	9.5	9.5	9.5	9.5	10.0	10.0	10.0	10.0	9.5	10.0	9.7
810901	12	9.5	9.5	9.0	9.0	9.0	9.5	9.5	10.0	10.0	10.0	10.0	10.0	9.0	10.0	9.6
810902	12	9.5	9.5	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.5	9.1
810903	12	9.0	8.5	8.5	8.0	8.0	8.0	8.0	8.5	8.5	8.5	8.5	8.5	8.0	9.0	8.4
810904	12	8.5	8.5	8.5	8.5	8.5	8.5	8.5	9.0	9.0	9.0	9.0	9.0	8.5	9.0	8.7
810905	12	8.5	8.5	8.5	8.5	8.5	8.5	9.0	9.0	8.0	8.0	8.0	8.0	8.0	9.0	8.4
810914	6	-.0	-.0	-.0	-.0	-.0	-.0	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
810915	12	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
810916	12	7.0	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	7.0	7.0	7.0	6.5	7.0	6.7
810917	6	7.0	7.0	7.0	7.0	7.0	7.0	-.0	-.0	-.0	-.0	-.0	-.0	7.0	7.0	7.0
810928	9	-.0	-.0	-.0	3.0	3.0	3.0	2.5	2.0	2.0	2.0	2.0	1.5	1.5	3.0	2.3
810929	12	1.5	1.5	1.5	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.5	2.0	1.9
810930	12	2.0	2.0	2.0	2.0	1.5	1.5	1.5	2.0	2.0	2.0	2.0	2.0	1.5	2.0	1.9
811001	12	2.0	2.0	2.0	2.0	2.5	2.5	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.5	2.1

Values = -.0 indicate missing data.

Table EC- 4. Daily thermograph statistics, lower Susitna River, 1981, above Yentna River, R.M. 32.3, 17N/06W/07/CDB.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
811002	12	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.5	1.5	2.0	2.0
811003	12	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0	2.0	2.0	2.0	1.5	2.0	1.8
811004	12	2.0	1.5	1.5	1.5	1.5	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	1.3
811005	12	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.0	1.5	1.3
811006	12	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.0	1.5	1.3
811007	12	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.0	1.5	1.4
811008	12	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.0	1.0	1.0	1.5	1.4
811009	3	1.0	1.0	1.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	1.0	1.0	1.0

Values = -.0 indicate missing data.

Table EC- 5. Daily thermograph statistics, lower Susitna River, 1981, Deshka River, R.M. 40.6, T.R.M. 1.2, 19N/06W/26/CBB.

DATE	# OBS.	TEMPERATURE AT TIME 0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400	MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
810610	6	-.0	-.0	-.0	-.0	-.0	-.0	13.5	13.5	14.5	14.5	14.0	13.5	13.5	14.5	13.9
810611	12	13.0	12.5	12.5	12.5	12.5	13.5	14.0	14.5	14.5	14.5	14.5	14.0	12.5	14.5	13.5
810612	12	13.5	13.0	12.5	12.5	13.0	13.5	14.5	15.5	15.5	15.5	15.0	14.5	12.5	15.5	14.0
810613	12	13.5	13.0	13.0	13.0	13.5	14.5	15.5	16.5	16.5	16.5	16.0	15.0	13.0	16.5	14.7
810614	12	14.5	14.0	13.5	14.0	14.5	15.5	16.0	16.5	17.0	17.5	17.0	16.5	13.5	17.5	15.5
810615	12	16.0	15.5	14.5	14.5	14.5	14.5	15.0	15.0	15.0	15.0	15.0	15.0	14.5	16.0	15.0
810616	12	14.5	14.5	14.0	14.0	14.0	14.5	15.5	16.0	16.5	17.0	17.0	17.0	14.0	17.0	15.4
810617	12	16.5	16.5	15.5	15.5	15.5	15.5	16.5	17.0	17.5	18.0	18.0	18.0	15.5	18.0	16.7
810618	12	17.5	17.0	16.5	16.0	16.0	16.5	17.0	17.5	17.5	18.0	18.0	18.0	16.0	18.0	17.1
810619	12	18.0	17.5	17.0	16.5	16.5	16.5	16.5	17.5	18.0	18.5	18.5	18.5	16.5	18.5	17.5
810620	12	18.5	18.0	17.5	17.0	17.0	16.5	17.0	17.5	18.0	18.0	18.0	18.0	16.5	18.5	17.6
810621	12	18.0	17.5	17.0	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	18.0	16.8
810622	12	16.5	16.0	15.5	15.5	15.5	15.5	15.5	15.5	16.0	16.5	16.5	16.5	15.5	16.5	15.9
810623	12	16.5	16.5	16.0	15.5	15.5	15.5	16.0	17.0	17.5	18.0	18.5	18.5	15.5	18.5	16.8
810624	12	18.0	17.5	17.0	16.5	16.5	16.5	16.5	17.0	17.0	17.5	17.5	17.5	16.5	18.0	17.1
810625	12	17.5	17.0	16.5	16.0	15.5	15.5	16.0	16.5	17.0	17.0	17.5	17.5	15.5	17.5	16.6
810626	12	17.0	16.5	16.5	15.5	15.5	15.0	14.5	14.5	14.5	14.5	14.5	14.5	14.5	17.0	15.3
810627	12	14.0	14.0	13.5	13.5	13.0	13.0	13.0	13.0	12.5	12.5	12.5	12.5	12.5	14.0	13.1
810628	12	12.0	12.0	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	12.0	11.6
810629	12	11.5	11.5	11.5	11.5	11.0	11.0	10.5	10.5	10.5	10.5	10.5	10.5	10.5	11.5	10.9

Values = -.0 indicate missing data.

Table EC- 5. Daily thermograph statistics, lower Susitna River, 1981, Deshka River, R.M. 40.6, T.R.M. 1.2, 19N/06W/26/CBB.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
810630	12	10.5	10.5	10.5	10.5	10.5	10.5	11.0	11.5	12.0	12.5	12.5	12.5	10.5	12.5	11.3
810701	12	12.0	11.5	11.5	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	12.0	11.2
810702	12	11.0	11.0	10.5	10.5	10.5	10.5	10.5	10.5	11.0	11.0	11.0	11.0	10.5	11.0	10.8
810703	12	11.0	11.0	11.0	11.0	11.5	12.0	12.5	12.5	13.0	13.0	13.0	13.0	11.0	13.0	12.0
810704	12	13.0	12.5	12.5	12.5	13.0	14.0	14.5	15.0	15.5	15.0	14.5	14.0	12.5	15.5	13.8
810705	12	13.5	13.5	13.5	13.5	13.5	14.5	15.0	15.5	15.5	15.5	15.5	14.5	13.5	15.5	14.5
810706	12	14.5	14.0	14.0	13.5	13.5	14.0	15.0	15.5	16.0	16.0	16.0	15.5	13.5	16.0	14.8
810707	12	15.0	14.5	14.0	14.0	14.0	14.0	14.5	15.0	15.5	15.5	15.5	15.0	14.0	15.5	14.7
810708	12	14.5	14.0	14.0	14.0	13.5	14.0	14.0	14.5	14.5	14.5	14.5	14.5	13.5	14.5	14.2
810709	12	14.5	14.5	14.5	14.0	14.0	14.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	14.5	13.9
810710	9	13.0	13.0	12.5	12.5	12.5	12.5	12.5	12.5	12.5	-.0	-.0	-.0	12.5	13.0	12.6
810711	10	-.0	-.0	11.5	11.5	11.5	11.5	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.5	11.2
810712	12	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.5	11.5	11.5	11.5	11.5	11.0	11.5	11.2
810713	12	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
810714	12	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
810715	12	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
810716	12	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
810717	12	11.5	11.5	11.5	11.5	11.5	11.5	12.0	12.5	13.0	13.0	13.0	13.0	11.5	13.0	12.1
810718	12	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
810719	12	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0

Values = -.0 indicate missing data.

Table EC- 5. Daily thermograph statistics, lower Susitna River, 1981, Deshka River, R.M. 40.6, T.R.M. 1.2, 19N/06W/26/CBB.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
810720	12	13.0	13.0	13.0	13.0	13.0	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	13.0	12.7
810721	12	12.5	12.5	12.5	12.0	12.0	12.0	12.0	12.5	12.5	12.5	12.5	12.5	12.0	12.5	12.3
810722	12	12.5	12.5	12.5	12.5	12.5	12.5	13.0	13.0	13.0	13.0	13.0	13.0	12.5	13.0	12.8
810723	12	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.5	13.5	13.5	13.5	13.5	13.0	13.5	13.2
810724	12	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
810725	12	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
810726	12	13.5	13.5	13.5	13.5	13.5	13.5	14.0	14.0	14.0	14.0	14.0	14.0	13.5	14.0	13.8
810727	12	14.0	13.5	13.5	13.5	13.5	13.5	14.0	14.0	14.5	14.5	14.5	14.5	13.5	14.5	14.0
810728	12	14.5	14.5	14.0	14.0	14.0	14.0	14.0	13.5	13.5	13.5	13.5	13.5	13.5	14.5	13.9
810729	12	13.5	13.0	13.0	13.0	13.0	13.0	13.5	13.5	14.0	14.5	14.5	14.5	13.0	14.5	13.6
810730	12	14.5	14.0	14.0	14.0	14.0	14.5	14.5	15.0	15.0	15.5	15.5	15.0	14.0	15.5	14.6
810731	12	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.5	15.5	15.5	15.5	15.5	15.0	15.5	15.2
810801	12	15.0	15.0	14.5	14.5	14.5	14.5	14.5	14.5	14.0	14.0	14.0	13.5	13.5	15.0	14.4
810802	12	13.5	13.5	13.5	13.5	13.5	13.0	13.0	12.5	12.5	12.5	11.5	11.5	11.5	13.5	12.8
810803	12	11.0	11.5	11.5	11.5	11.5	12.0	12.0	12.5	13.0	13.0	13.0	13.5	11.0	13.5	12.2
810804	12	13.5	13.5	13.5	13.5	13.5	13.5	14.0	14.5	14.5	14.5	14.5	14.5	13.5	14.5	14.0
810805	12	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
810806	12	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
810807	12	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.0	14.0	14.5	14.5
810808	12	14.0	14.0	13.5	13.5	13.5	13.5	13.5	14.0	14.0	14.0	14.0	14.0	13.5	14.0	13.8

Values = -.0 indicate missing data.

Table EC- 5. Daily thermograph statistics, lower Susitna River, 1981, Deshka River, R.M. 40.6, T.R.M. 1.2, 19N/06W/26/CBB.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
810809	12	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
810810	12	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
810811	12	13.5	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.5	13.0
810812	12	12.5	12.5	12.5	12.5	12.0	12.0	12.0	12.0	12.0	12.0	12.0	11.5	11.5	12.5	12.1
810813	12	11.5	11.5	11.5	11.5	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.5	11.2
810814	12	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	10.5	10.5	11.0	11.0
810815	12	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
810816	12	10.0	10.0	10.0	10.0	9.5	9.5	10.0	10.0	10.0	10.0	10.0	10.0	9.5	10.0	9.9
810817	12	10.0	10.0	10.0	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	10.0	9.6
810818	12	9.5	9.5	9.5	9.5	9.5	9.5	9.5	10.0	10.0	10.0	10.0	10.0	9.5	10.0	9.7
810819	12	10.0	10.0	10.0	10.0	10.0	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.0	10.5	10.3
810820	12	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
810821	12	10.5	10.0	10.0	10.0	10.0	10.0	10.5	10.5	10.5	11.0	11.0	11.0	10.0	11.0	10.4
810822	12	11.0	11.0	11.0	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	11.0	10.6
810823	12	10.5	10.5	10.5	10.5	10.5	10.5	10.5	11.0	11.0	11.0	11.0	11.0	10.5	11.0	10.7
810824	12	11.0	11.0	10.5	10.5	10.5	10.5	10.5	11.0	11.0	11.0	11.0	11.0	10.5	11.0	10.8
810825	12	11.0	11.0	11.0	11.0	11.0	11.5	12.0	12.0	12.5	12.5	12.5	12.5	11.0	12.5	11.7
810826	12	12.0	12.0	12.0	12.0	12.0	12.0	12.5	13.0	13.5	13.5	13.5	13.0	12.0	13.5	12.6
810827	12	13.0	13.0	12.5	12.5	12.5	13.0	13.5	13.5	14.0	14.0	14.0	13.5	12.5	14.0	13.3
810828	12	13.5	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.5	13.5	13.5	13.5	13.0	13.5	13.2

Values = -.0 indicate missing data.

Table EC- 5. Daily thermograph statistics, lower Susitna River, 1981, Deshka River, R.M. 40.6, T.R.M. 1.2, 19N/06W/26/CBB.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
810829	12	13.0	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	13.0	12.5
810830	12	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.5	12.5	12.5	12.5	12.0	12.5	12.2
810831	12	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	11.5	11.5	12.0	12.0
810901	12	11.5	11.5	11.5	11.5	11.5	11.5	12.0	12.5	12.5	12.5	12.5	12.0	11.5	12.5	11.9
810902	12	11.5	11.5	11.5	11.5	11.5	11.5	12.0	12.0	12.0	12.0	11.5	11.5	11.5	12.0	11.7
810903	12	11.5	11.5	11.5	11.5	11.5	12.0	12.0	12.0	12.0	12.0	12.0	11.5	11.5	12.0	11.8
810904	12	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
810905	12	11.5	11.0	11.0	11.5	11.5	12.0	12.0	12.5	12.5	12.0	12.0	11.5	11.0	12.5	11.8
810906	12	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.0	10.5	10.5	11.5	11.4
810907	12	10.5	10.5	10.5	10.5	10.5	11.0	11.0	11.0	11.0	10.5	10.5	10.0	10.0	11.0	10.6
810908	12	10.0	9.5	9.5	10.5	10.5	10.5	11.0	11.0	11.0	10.5	10.5	10.0	9.5	11.0	10.4
810909	12	9.5	9.5	9.5	9.5	10.0	10.5	10.5	10.5	10.5	10.5	10.0	10.0	9.5	10.5	10.0
810910	12	10.0	9.5	9.5	10.0	10.5	11.0	11.0	11.0	10.5	10.5	10.0	10.0	9.5	11.0	10.3
810911	12	10.0	10.0	10.0	10.0	10.0	10.5	10.5	10.5	10.5	10.5	10.0	9.5	9.5	10.5	10.2
810912	12	9.5	9.0	9.0	9.5	10.0	10.5	10.5	10.5	10.5	10.5	10.0	9.5	9.0	10.5	9.9
810913	12	9.5	9.5	9.5	9.5	10.0	10.5	10.5	10.5	10.0	9.5	9.5	10.0	9.5	10.5	9.9
810914	12	9.0	8.5	8.5	8.5	9.0	9.0	9.5	9.5	9.5	9.0	9.0	8.5	8.5	9.5	9.0
810915	9	8.5	8.5	8.5	8.5	8.5	9.0	-.0	-.0	-.0	9.5	9.0	9.0	8.5	9.5	8.8
810916	12	8.5	8.5	8.5	8.0	8.0	8.0	8.5	8.5	8.5	8.5	8.5	8.5	8.0	8.5	8.4
810917	12	8.5	8.5	8.0	8.0	8.5	9.0	9.0	9.5	9.5	9.5	9.5	9.0	8.0	9.5	8.9

Values = -.0 indicate missing data.

Table EC- 5. Daily thermograph statistics, lower Susitna River, 1981, Deshka River, R.M. 40.6, T.R.M. 1.2, 19N/06W/26/CBB.

DATE	# OBS.	TEMPERATURE AT TIME 0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400	MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
810918	12	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
810919	12	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
810920	12	9.0	8.5	8.5	8.5	8.0	8.0	8.0	8.0	8.5	9.0	9.0	9.0	8.0	9.0	8.5
810921	12	8.5	8.5	8.5	8.0	8.0	8.5	9.0	9.0	9.0	8.5	8.0	8.0	8.0	9.0	8.5
810922	12	8.0	7.5	7.0	7.0	7.0	7.5	8.0	8.0	8.0	8.0	7.0	7.0	7.0	8.0	7.5
810923	12	7.0	7.0	6.5	6.5	6.5	6.5	7.0	7.0	7.0	7.0	7.0	7.0	6.5	7.0	6.8
810924	12	6.5	6.5	6.5	6.5	6.0	6.5	6.5	7.0	7.0	6.5	6.5	6.0	6.0	7.0	6.5
810925	12	6.0	5.5	5.5	5.0	5.5	5.5	6.0	6.0	6.0	5.5	5.0	5.0	5.0	6.0	5.5
810926	12	4.5	4.5	4.0	4.0	4.0	4.5	4.5	4.5	4.5	4.5	4.0	4.0	4.0	4.5	4.3
810927	12	4.0	4.0	4.0	3.5	3.5	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.5	4.0	3.9
810928	12	3.5	3.5	3.5	3.0	3.5	3.5	4.0	4.0	3.5	3.5	3.0	3.0	3.0	4.0	3.5
810929	12	3.0	3.0	2.5	2.5	2.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.5	3.0	2.9
810930	10	3.0	3.0	3.0	3.0	3.0	3.0	-.0	-.0	3.5	3.5	3.0	2.5	2.5	3.5	3.1
811001	12	2.0	2.0	2.0	2.0	2.0	2.5	2.5	3.0	3.0	3.0	2.5	2.5	2.0	3.0	2.4
811002	12	2.0	2.0	1.5	1.5	1.5	2.0	2.5	2.5	2.5	2.5	2.0	1.5	1.5	2.5	2.0
811003	12	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.5	2.0	1.8
811004	12	2.0	2.0	2.0	2.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0	1.7
811005	12	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0	2.0	2.0	1.5	1.5	2.0	1.7
811006	12	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0	1.5	1.5	2.0	1.6
811007	12	1.5	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.0	1.0	1.0	1.5	1.2

Values = -.0 indicate missing data.

Table EC- 5. Daily thermograph statistics, lower Susitna River, 1981, Deshka River, R.M. 40.6, T.R.M. 1.2, 19N/06W/26/CBB.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
811008	12	.5	.5	0.0	0.0	0.0	.5	1.0	1.0	1.0	1.0	1.0	.5	0.0	1.0	.6
811009	8	.5	.5	0.0	0.0	0.0	.5	.5	1.0	-.0	-.0	-.0	-.0	0.0	1.0	.4

Values = -.0 indicate missing data.

Table EC- 6. Daily thermograph statistics, lower Susitna River, 1981, Little Willow Creek, R.M. 50.5, T.R.M. 1.0, 20N/05W/23/CBC.

DATE	# OBS.	TEMPERATURE AT TIME 0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400	MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
810624	4	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	14.0	14.0	13.0	12.5	12.5	14.0	13.4
810625	12	12.0	11.5	11.0	10.5	10.5	11.5	12.0	13.0	13.5	13.5	13.0	12.5	10.5	13.5	12.0
810626	12	12.0	11.5	11.0	10.5	10.5	10.5	10.5	10.5	10.5	10.0	10.0	9.5	9.5	12.0	10.6
810627	12	9.0	9.0	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.0	8.0	9.0	8.5
810628	12	8.0	8.0	7.5	7.5	7.5	7.5	7.5	7.5	8.0	8.0	8.0	7.5	7.5	8.0	7.7
810629	12	7.5	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.5	7.0
810630	12	7.0	6.5	6.5	6.5	7.0	7.5	8.0	8.5	9.0	9.0	8.5	8.0	6.5	9.0	7.7
810701	12	7.5	7.0	6.5	6.5	7.0	7.5	8.0	8.0	8.5	8.5	8.5	8.5	6.5	8.5	7.7
810702	12	8.0	7.5	7.0	7.0	7.0	7.5	7.5	8.0	8.5	8.5	8.5	8.0	7.0	8.5	7.8
810703	12	8.0	7.5	7.5	7.5	7.5	8.5	9.5	10.5	11.0	11.0	10.5	10.5	7.5	11.0	9.1
810704	12	10.0	10.0	9.5	9.5	9.5	10.5	11.5	12.0	12.0	11.5	11.5	11.0	9.5	12.0	10.7
810705	12	10.5	10.0	9.5	9.5	10.0	10.5	11.5	12.0	12.5	12.0	12.0	11.5	9.5	12.5	11.0
810706	12	11.0	10.5	10.0	10.0	10.0	10.5	11.0	12.0	12.5	12.5	12.0	11.5	10.0	12.5	11.1
810707	12	11.5	11.0	10.5	10.0	10.0	10.5	11.0	11.0	11.0	11.0	11.0	10.5	10.0	11.5	10.8
810708	12	10.5	10.0	10.0	9.5	9.5	10.0	10.0	10.5	10.5	10.5	10.5	10.5	9.5	10.5	10.2
810709	12	10.0	10.0	9.5	9.5	9.5	10.0	10.0	10.0	10.0	10.0	9.5	9.5	9.5	10.0	9.8
810710	12	9.5	9.0	9.0	9.0	9.0	9.0	8.5	8.5	8.5	8.5	8.5	8.5	8.5	9.5	8.8
810711	12	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.5	8.5	9.0	9.0	9.0	8.0	9.0	8.3
810712	12	8.5	8.5	8.5	8.5	8.5	8.5	9.0	9.5	9.5	9.5	9.5	9.5	8.5	9.5	9.0
810713	12	9.0	9.0	8.5	8.5	8.5	8.5	8.5	9.0	9.0	9.5	9.5	9.5	8.5	9.5	8.9

Values = -.0 indicate missing data.

Table EC- 6. Daily thermograph statistics, lower Susitna River, 1981, Little Willow Creek, R.M. 50.5, T.R.M. 1.0, 20N/05W/23/CBC.

DATE	# OBS.	TEMPERATURE AT TIME 0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400	MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
810714	12	9.0	9.0	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	9.0	8.6
810715	12	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.5	8.5	8.5	8.5	8.0	8.5	8.2
810716	12	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	9.0	9.0	9.0	8.5	9.0	8.6
810717	12	9.0	8.5	8.5	8.5	8.5	8.5	9.0	9.5	10.0	10.5	10.5	10.5	8.5	10.5	9.3
810718	12	10.0	10.0	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.0	9.0	10.0	9.5
810719	12	9.0	9.0	9.0	9.0	8.5	8.5	8.5	8.5	9.0	9.0	9.0	9.0	8.5	9.0	8.8
810720	12	9.0	9.0	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	9.0	8.6
810721	12	8.5	8.0	8.0	8.0	8.0	8.0	8.5	8.5	9.0	9.5	9.5	9.5	8.0	9.5	8.6
810722	12	9.5	9.0	9.0	8.5	9.0	9.0	9.5	9.5	10.0	10.0	10.0	9.5	8.5	10.0	9.4
810723	12	9.5	9.0	9.0	8.5	8.5	8.5	8.5	9.0	9.5	9.5	9.5	9.5	8.5	9.5	9.0
810724	12	9.5	9.0	9.0	9.0	9.0	9.0	9.0	9.5	9.5	9.5	9.5	9.5	9.0	9.5	9.3
810725	12	9.5	9.5	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.5	9.1
810726	12	9.0	9.0	8.5	8.5	8.5	9.0	9.5	9.5	9.5	9.5	10.0	9.5	8.5	10.0	9.2
810727	12	9.5	9.0	9.0	8.5	9.0	9.0	9.5	10.0	10.0	10.0	10.0	10.0	8.5	10.0	9.5
810728	12	9.5	9.5	9.5	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.5	9.1
810729	12	8.5	8.5	8.5	8.5	8.5	9.5	10.0	10.5	11.0	11.0	11.0	11.0	8.5	11.0	9.7
810730	12	10.5	10.5	10.0	10.0	10.0	10.5	11.5	11.5	11.5	11.5	11.5	11.5	10.0	11.5	10.9
810731	12	11.0	10.5	10.0	10.0	10.0	10.5	11.0	11.0	11.5	11.5	11.0	11.0	10.0	11.5	10.8
810801	12	10.5	10.5	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.5	9.5	10.5	10.0
810802	12	9.5	9.0	9.0	8.5	8.5	8.5	8.5	9.0	9.0	9.0	9.0	9.0	8.5	9.5	8.9

Values = -.0 indicate missing data.

Table EC- 6. Daily thermograph statistics, lower Susitna River, 1981, Little Willow Creek, R.M. 50.5, T.R.M. 1.0, 20N/05W/23/CBC.

DATE	# OBS.	TEMPERATURE AT TIME 0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400	MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
810803	12	9.0	9.0	9.0	8.5	8.5	8.5	9.0	9.5	9.5	10.0	10.0	10.0	8.5	10.0	9.2
810804	12	10.0	9.5	9.5	9.0	9.0	9.5	10.0	10.5	10.5	10.5	10.5	10.5	9.0	10.5	9.9
810805	12	10.5	10.5	10.0	9.5	9.5	9.5	9.5	10.0	10.0	10.0	10.0	9.5	9.5	10.5	9.9
810806	12	9.5	9.5	9.5	9.5	9.5	9.5	9.5	10.0	10.0	10.0	10.0	10.0	9.5	10.0	9.7
810807	12	10.0	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	10.0	9.5
810808	11	9.5	9.5	9.5	9.5	9.5	9.5	10.0	-.0	11.0	10.5	10.5	10.0	9.5	11.0	9.9
810809	12	9.5	9.5	9.0	9.0	9.0	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.0	9.5	9.4
810810	12	9.5	9.0	9.0	9.0	9.0	9.0	9.0	9.5	9.5	9.0	9.0	9.0	9.0	9.5	9.1
810811	12	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
810812	12	8.5	8.5	8.5	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.5	8.1
810813	12	8.0	8.0	8.0	7.5	7.5	7.5	8.0	8.0	8.0	8.0	8.0	8.0	7.5	8.0	7.9
810814	12	8.0	7.5	7.5	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	8.0	7.2
810815	12	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	6.5	6.5	6.5	7.0	6.9
810816	12	6.5	6.0	6.0	6.0	6.0	6.0	6.5	7.0	7.0	7.0	7.0	6.5	6.0	7.0	6.5
810817	12	6.5	6.5	6.0	5.5	5.5	5.5	6.0	6.0	6.5	6.5	6.5	6.5	5.5	6.5	6.1
810818	12	6.5	6.5	6.5	6.5	6.5	6.5	7.0	7.0	7.0	7.0	7.0	7.0	6.5	7.0	6.8
810819	12	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
810820	12	7.0	7.0	7.0	7.0	7.0	6.5	6.5	7.0	7.0	7.0	7.0	7.0	6.5	7.0	6.9
810821	12	7.0	7.0	7.0	7.0	7.0	7.0	7.5	8.0	8.5	8.5	8.5	8.0	7.0	8.5	7.6
810822	12	8.0	8.0	7.5	7.5	7.5	7.5	7.0	7.0	7.0	7.0	7.0	7.0	7.0	8.0	7.3

Values = -.0 indicate missing data.

Table EC- 6. Daily thermograph statistics, lower Susitna River, 1981, Little Willow Creek, R.M. 50.5, T.R.M. 1.0, 20N/05W/23/CBC.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
810823	12	7.0	7.0	7.0	7.0	7.0	7.5	8.0	8.0	8.5	8.5	8.0	8.0	7.0	8.5	7.6
810824	12	7.5	7.0	7.0	7.0	7.0	7.0	7.5	7.5	7.5	7.5	7.5	7.5	7.0	7.5	7.3
810825	12	7.5	7.5	7.5	7.5	8.0	8.5	8.5	9.0	9.0	9.0	9.0	9.0	7.5	9.0	8.3
810826	12	8.5	8.5	8.0	8.0	8.0	8.5	9.5	10.0	10.0	10.0	10.0	9.5	8.0	10.0	9.0
810827	12	9.5	9.5	9.0	9.0	9.0	9.5	10.0	10.0	10.0	10.0	10.0	9.5	9.0	10.0	9.6
810828	12	9.5	9.0	9.0	9.0	9.0	9.0	9.0	9.5	9.5	9.5	9.0	9.0	9.0	9.5	9.2
810829	12	8.5	8.5	8.0	8.0	8.0	8.0	8.0	8.0	8.5	8.5	8.5	8.5	8.0	8.5	8.3
810830	11	8.5	8.0	8.0	8.0	8.0	-.0	9.0	9.0	9.0	9.0	9.0	9.0	8.0	9.0	8.6
810831	12	8.5	8.5	8.0	8.0	8.0	8.0	8.0	8.5	9.0	9.0	8.5	8.0	8.0	9.0	8.3
810901	12	8.0	8.0	7.5	7.5	7.5	8.0	8.0	9.0	9.0	9.0	9.0	8.5	7.5	9.0	8.3
810902	12	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.5	8.5	8.5	8.5	8.5	8.0	8.5	8.2
810903	12	8.0	8.0	8.0	8.0	7.5	8.0	8.0	8.5	9.0	9.0	9.0	8.5	7.5	9.0	8.3
810904	12	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
810905	12	8.0	8.0	7.5	7.5	7.5	7.5	8.0	8.0	8.0	8.0	8.0	8.0	7.5	8.0	7.8
810906	12	8.0	7.5	7.5	7.0	7.0	7.0	7.0	7.0	7.5	7.5	7.5	7.5	7.0	8.0	7.3
810907	12	7.0	7.0	7.0	7.0	6.5	6.5	7.0	7.5	7.5	7.5	7.0	7.0	6.5	7.5	7.0
810908	12	7.0	7.0	6.5	6.0	6.0	6.5	7.0	7.5	7.5	7.5	7.0	7.0	6.0	7.5	6.9
810909	12	7.0	6.5	6.0	6.0	6.0	6.0	6.0	6.5	6.5	6.5	6.5	6.5	6.0	7.0	6.3
810910	12	6.5	6.0	6.0	6.0	6.0	6.5	7.0	7.5	7.5	7.5	7.5	7.5	6.0	7.5	6.8
810911	12	7.0	7.0	7.0	7.0	6.5	6.5	7.0	7.0	7.0	7.0	7.0	7.0	6.5	7.0	6.9

Values = -.0 indicate missing data.

Table EC- 6. Daily thermograph statistics, lower Susitna River, 1981, Little Willow Creek, R.M. 50.5, T.R.M. 1.0, 20N/05W/23/CBC.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
810912	12	7.0	6.5	6.0	6.0	6.0	6.0	6.5	7.0	7.0	7.0	7.0	6.5	6.0	7.0	6.5
810913	12	6.0	6.0	6.0	5.5	5.5	6.0	6.0	6.5	7.0	5.5	6.5	6.0	5.5	7.0	6.0
810914	12	6.0	5.5	5.0	5.0	5.0	5.0	5.0	5.0	5.5	5.5	5.5	5.5	5.0	6.0	5.3
810915	12	5.0	5.0	5.0	5.0	5.0	5.0	5.5	6.0	6.0	6.0	6.0	6.0	5.0	6.0	5.5
810916	12	5.5	5.5	5.5	5.5	5.5	5.5	5.5	6.5	6.5	6.0	6.0	6.0	5.5	6.5	5.8
810917	12	6.0	6.0	6.0	6.0	6.0	6.0	6.5	7.0	7.0	7.0	7.0	7.0	6.0	7.0	6.5
810918	12	7.0	7.0	6.5	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	7.0	6.2
810919	12	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
810920	12	6.0	6.0	6.0	5.5	5.5	5.5	6.0	6.0	6.0	6.0	6.0	6.0	5.5	6.0	5.9
810921	12	6.0	6.0	6.0	5.5	5.5	5.5	6.0	6.0	6.0	6.0	6.0	5.5	5.5	6.0	5.8
810922	12	5.5	5.0	4.5	4.0	4.0	4.0	4.5	5.0	5.0	4.5	4.5	4.0	4.0	5.5	4.5
810923	12	4.0	4.0	3.5	3.5	3.5	3.5	4.0	4.0	4.0	4.0	4.0	4.0	3.5	4.0	3.8
810924	12	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.5	4.5	4.0	4.0	3.5	3.5	4.5	4.0
810925	12	3.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.5	2.5	3.5	3.0
810926	12	3.5	3.0	2.5	2.0	2.0	2.0	2.5	2.5	2.5	2.5	2.5	2.0	2.0	3.5	2.5
810927	12	2.0	2.0	2.0	1.5	1.5	2.0	2.0	2.5	2.5	2.5	2.5	2.5	1.5	2.5	2.1
810928	12	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.0	1.0	1.0	1.0	1.5	1.1
810929	12	1.0	.5	0.0	0.0	0.0	0.0	.5	1.0	1.0	1.0	1.0	1.0	0.0	1.0	.6
810930	6	1.0	1.0	1.0	.5	.5	.5	-.0	-.0	-.0	-.0	-.0	-.0	.5	1.0	.8

Values = -.0 indicate missing data.

Table EC- 7. Daily thermograph statistics, lower Susitna River, 1981, above Little Willow Creek, R.M. 50.5, 20N/05W/27/BAC.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
810624	2	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	13.5	13.5	13.5	13.5	13.5
810625	12	13.0	12.5	12.0	11.5	11.5	11.0	11.5	11.5	12.5	12.5	13.0	13.0	11.0	13.0	12.1
810626	12	12.5	12.0	11.5	11.5	11.0	11.0	11.0	11.0	11.0	11.0	11.0	10.5	10.5	12.5	11.3
810627	12	10.5	10.0	9.5	9.5	9.0	9.0	9.0	9.0	8.5	8.5	8.5	8.5	8.5	10.5	9.1
810628	12	8.5	8.5	8.0	8.0	8.0	7.5	8.0	8.0	8.0	8.0	8.0	8.5	7.5	8.5	8.1
810629	12	8.5	8.5	8.0	8.0	8.0	8.0	7.5	7.5	7.5	7.5	7.5	7.5	7.5	8.5	7.8
810630	12	7.5	7.5	7.5	7.5	7.5	7.0	7.0	7.5	8.0	8.5	8.5	8.5	7.0	8.5	7.7
810701	12	8.5	8.5	8.0	7.5	7.5	7.5	7.5	8.0	8.5	8.5	9.0	9.0	7.5	9.0	8.2
810702	12	9.0	9.0	9.0	8.5	8.5	8.5	8.5	9.0	9.0	9.5	9.5	9.5	8.5	9.5	9.0
810703	12	9.5	9.5	9.0	9.0	9.0	9.0	9.0	9.5	10.0	10.5	11.0	11.0	9.0	11.0	9.7
810704	12	11.0	10.5	10.0	10.0	10.0	10.0	10.0	10.5	11.5	11.5	11.5	11.5	10.0	11.5	10.7
810705	12	11.0	11.0	10.5	10.5	10.5	10.5	10.5	11.0	12.0	12.0	12.0	11.5	10.5	12.0	11.1
810706	12	11.5	11.0	10.5	10.5	10.0	10.0	10.0	10.5	11.0	11.5	11.5	11.5	10.0	11.5	10.8
810707	12	11.0	11.0	10.5	10.5	10.0	10.5	10.5	10.5	10.5	11.0	11.0	11.0	10.0	11.0	10.7
810708	12	11.0	10.5	10.5	10.0	10.0	10.0	10.0	10.0	9.5	9.5	9.5	9.5	9.5	11.0	10.0
810709	12	9.5	9.0	9.0	8.5	8.5	8.0	8.5	8.5	8.5	8.5	8.5	8.0	8.0	9.5	8.6
810710	12	8.0	8.0	8.0	8.0	7.5	8.0	8.0	8.0	8.0	8.0	8.0	8.0	7.5	8.0	8.0
810711	12	8.0	8.0	8.0	8.0	7.5	7.5	7.5	7.5	8.0	8.0	8.5	8.5	7.5	8.5	7.9
810712	12	8.5	8.5	8.0	8.0	8.0	8.0	8.0	8.0	8.5	9.0	9.0	9.0	8.0	9.0	8.4
810713	12	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5

Values = -.0 indicate missing data.

Table EC- 7. Daily thermograph statistics, lower Susitna River, 1981, above Little Willow Creek, R.M. 50.5, 20N/05W/27/BAC.

DATE	# OBS.	TEMPERATURE AT TIME 0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400	MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
810714	12	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
810715	12	8.0	8.0	8.0	8.0	8.0	8.0	8.5	8.5	8.5	8.5	8.5	8.5	8.0	8.5	8.3
810716	12	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	9.0	9.0	9.0	9.0	8.5	9.0	8.7
810717	12	9.0	9.0	9.0	8.5	8.5	8.5	9.0	9.0	9.5	10.0	10.5	10.5	8.5	10.5	9.3
810718	12	10.5	10.5	10.0	10.0	9.5	9.5	9.5	9.5	10.0	10.0	10.0	10.0	9.5	10.5	9.9
810719	12	9.5	9.5	9.5	9.5	9.0	9.0	9.0	9.0	9.5	9.5	9.5	9.5	9.0	9.5	9.3
810720	12	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
810721	12	9.5	9.5	9.5	9.0	9.0	9.0	9.0	9.0	9.5	9.5	10.0	10.0	9.0	10.0	9.4
810722	12	10.0	9.5	9.5	9.5	9.5	9.5	9.5	10.0	10.0	10.5	10.5	10.5	9.5	10.5	9.9
810723	12	10.5	10.0	10.0	10.0	9.5	9.5	9.5	9.5	9.5	10.0	10.5	10.5	9.5	10.5	9.9
810724	12	10.0	10.0	10.0	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	10.0	9.6
810725	12	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	10.0	10.0	10.0	9.5	10.0	9.6
810726	12	10.0	9.5	9.5	9.5	9.5	9.5	9.5	9.5	10.0	10.0	10.5	10.0	9.5	10.5	9.8
810727	12	10.0	10.0	9.5	9.5	9.0	9.0	9.0	9.5	9.5	10.0	10.0	10.0	9.0	10.0	9.6
810728	12	10.0	10.0	10.0	10.0	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	10.0	9.7
810729	12	9.5	9.0	9.0	9.0	8.5	8.5	8.5	9.0	9.5	10.5	10.5	10.5	8.5	10.5	9.3
810730	12	10.5	10.5	10.5	10.0	10.0	10.0	10.0	10.0	10.5	10.5	10.5	11.0	10.0	11.0	10.3
810731	12	10.5	10.5	10.0	10.0	9.5	9.5	9.5	10.0	10.0	10.5	10.5	10.5	9.5	10.5	10.1
810801	12	10.0	10.0	10.0	10.0	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	10.0	9.7
810802	12	9.5	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.5	9.5	9.0	9.5	9.1

Values = -.0 indicate missing data.

Table EC- 7. Daily thermograph statistics, lower Susitna River, 1981, above Little Willow Creek, R.M. 50.5, 20N/05W/27/BAC.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
810803	12	9.5	9.5	9.0	9.0	9.0	9.0	9.0	9.0	9.5	9.5	10.0	10.0	9.0	10.0	9.3
810804	12	10.0	10.0	9.5	9.5	9.5	9.5	9.5	9.5	10.0	10.5	10.5	11.0	9.5	11.0	9.9
810805	12	10.5	10.5	10.5	10.0	10.0	9.5	10.0	10.0	10.0	10.0	10.5	10.5	9.5	10.5	10.2
810806	12	10.0	10.0	10.0	9.5	9.5	9.5	9.5	9.5	9.5	10.0	10.0	10.0	9.5	10.0	9.8
810807	12	10.0	10.0	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	10.0	9.6
810808	11	9.5	9.5	9.5	9.0	9.0	9.0	9.0	9.0	9.5	-.0	9.5	9.5	9.0	9.5	9.3
810809	12	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
810810	12	9.0	9.0	8.5	8.5	8.5	8.5	9.0	9.0	9.0	9.0	9.0	8.5	8.5	9.0	8.8
810811	12	8.5	8.5	8.5	8.5	8.5	8.5	9.0	9.0	8.5	8.5	8.5	8.5	8.5	9.0	8.6
810812	12	8.5	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.5	8.0
810813	12	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
810814	12	8.0	8.0	7.5	7.5	7.5	7.5	8.0	8.0	8.0	8.0	7.5	7.5	7.5	8.0	7.8
810815	12	7.5	7.5	7.0	7.0	7.0	7.0	7.0	7.0	7.5	7.5	7.5	7.0	7.0	7.5	7.2
810816	12	7.0	7.0	6.5	6.5	6.5	6.5	7.0	7.0	7.0	7.0	7.0	7.0	6.5	7.0	6.8
810817	12	7.0	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	7.0	6.5
810818	12	6.5	6.5	6.5	6.5	6.5	7.0	7.0	7.5	7.5	7.5	7.5	7.0	6.5	7.5	7.0
810819	12	7.0	7.0	7.0	7.0	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.0	7.5	7.3
810820	12	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
810821	12	7.5	7.0	7.0	7.0	7.0	7.5	8.0	8.5	8.5	8.5	8.5	8.0	7.0	8.5	7.8
810822	12	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	7.5	7.5	8.0	8.0

Values = -.0 indicate missing data.

Table EC- 7. Daily thermograph statistics, lower Susitna River, 1981, above Little Willow Creek, R.M. 50.5, 20N/05W/27/BAC.

DATE	# OBS.	TEMPERATURE AT TIME 0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400	MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
810823	12	7.5	7.5	7.5	7.5	7.5	8.0	8.5	8.5	8.5	8.5	8.5	8.5	7.5	8.5	8.0
810824	12	8.0	8.0	8.0	7.5	8.0	8.0	8.5	8.5	8.5	8.5	8.5	8.5	7.5	8.5	8.2
810825	12	8.5	8.0	8.0	8.0	8.5	8.5	9.0	9.0	9.0	9.0	9.0	9.0	8.0	9.0	8.6
810826	12	9.0	8.5	8.5	8.5	8.5	9.0	9.5	10.0	10.0	10.0	10.0	10.0	8.5	10.0	9.3
810827	12	10.0	9.5	9.5	9.5	9.5	10.0	10.5	11.0	11.0	11.0	11.0	10.5	9.5	11.0	10.3
810828	12	10.5	10.0	10.0	10.0	10.0	10.0	10.0	10.5	10.5	10.5	10.5	10.0	10.0	10.5	10.2
810829	12	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.5	9.5	10.0	10.0
810830	11	9.5	9.5	9.0	9.0	9.0	-.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.5	9.1
810831	12	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
810901	12	9.0	9.0	8.5	8.5	8.5	9.0	9.0	9.0	9.0	9.0	9.0	8.5	8.5	9.0	8.8
810902	12	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
810903	12	7.5	7.0	7.0	7.0	7.0	7.0	7.5	8.0	8.0	8.0	8.0	8.0	7.0	8.0	7.5
810904	12	7.5	7.5	7.5	7.5	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	7.5	8.0	7.8
810905	12	7.5	7.5	7.5	7.5	8.0	8.0	8.5	9.0	8.5	8.5	8.0	7.5	7.5	9.0	8.0
810906	2	7.5	7.5	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	7.5	7.5	7.5
810907	4	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	8.0	8.0	7.5	7.0	7.0	8.0	7.6
810908	12	7.0	7.0	7.0	7.0	7.0	7.5	8.0	8.0	8.0	8.0	7.5	7.0	7.0	8.0	7.4
810909	4	7.0	7.0	7.0	6.5	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	6.5	7.0	6.9
810915	12	5.0	5.0	5.0	5.5	7.0	6.5	6.5	7.0	6.5	6.0	6.0	6.0	5.0	7.0	6.0
810916	12	6.0	5.5	5.5	5.5	5.5	6.0	6.0	6.0	6.0	6.0	6.0	6.0	5.5	6.0	5.8

Values = -.0 indicate missing data.

Table EC- 7. Daily thermograph statistics, lower Susitna River, 1981, above Little Willow Creek, R.M. 50.5, 20N/05W/27/BAC.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
810917	12	6.0	6.0	5.5	5.5	6.0	6.5	7.0	7.0	7.0	7.0	7.0	7.0	5.5	7.0	6.5
810918	12	6.5	6.5	6.5	6.5	6.5	7.0	7.0	7.0	7.0	7.0	7.0	6.5	6.5	7.0	6.8
810919	12	6.5	6.0	6.0	6.0	6.0	6.5	6.5	7.0	7.0	6.5	6.5	6.5	6.0	7.0	6.4
810920	12	6.5	6.0	6.0	6.0	6.0	6.0	6.0	6.5	7.0	7.0	7.0	6.5	6.0	7.0	6.4
810921	12	6.5	6.0	6.0	6.0	6.0	6.0	6.0	6.5	6.5	6.5	6.0	6.0	6.0	6.5	6.2
810922	12	6.0	5.5	5.0	5.0	5.0	5.0	5.0	6.0	6.0	5.5	5.5	5.0	5.0	6.0	5.4
810923	12	5.0	4.5	4.5	4.0	4.5	4.5	5.0	5.0	5.0	5.0	5.0	5.0	4.0	5.0	4.8
810924	12	5.0	4.5	4.5	4.5	4.5	4.5	5.0	5.0	5.0	4.5	4.0	4.0	4.0	5.0	4.6
810925	12	3.5	3.5	3.0	3.0	3.0	3.5	3.5	4.0	3.5	3.5	3.0	3.0	3.0	4.0	3.3
810926	12	2.5	2.5	2.0	2.0	2.0	2.5	3.0	3.0	3.0	2.5	2.5	2.5	2.0	3.0	2.5
810927	12	2.5	2.5	2.0	2.0	2.5	2.5	3.0	3.0	3.0	3.0	2.5	2.5	2.0	3.0	2.6
810928	12	2.5	2.0	2.0	2.0	2.0	2.0	2.5	2.5	3.0	3.0	2.0	2.0	2.0	3.0	2.3
810929	4	1.5	1.0	1.0	1.5	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	1.0	1.5	1.3

Values = -.0 indicate missing data.

Table EC- 8. Daily thermograph statistics, lower Susitna River, 1981, above Kashwitna River, R.M. 61.2, 21N/05W/13/ABA.

DATE	# OBS.	TEMPERATURE AT TIME 0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400	MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
810830	6	-.0	-.0	-.0	-.0	-.0	-.0	9.5	9.5	9.5	9.5	9.5	9.0	9.0	9.5	9.4
810831	12	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.5	9.5	9.5	9.5	9.0	9.0	9.5	9.2
810901	12	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.5	9.5	9.5	9.0	9.0	9.0	9.5	9.1
810902	12	8.5	8.5	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	7.5	7.5	7.5	8.5	8.0
810903	12	7.5	7.0	7.0	7.0	7.0	7.5	8.0	8.0	8.0	8.0	8.0	8.0	7.0	8.0	7.6
810904	12	8.0	8.0	8.0	7.5	7.5	7.5	8.0	8.0	8.0	8.0	8.0	8.0	7.5	8.0	7.9
810905	12	8.0	7.5	7.5	7.5	7.5	7.5	8.0	8.0	8.0	8.0	8.0	8.0	7.5	8.0	7.8
810906	12	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	7.5	7.5	8.0	8.0
810907	12	7.5	7.5	7.5	7.0	7.0	7.0	7.5	8.0	8.0	8.0	7.5	7.5	7.0	8.0	7.5
810908	12	7.5	7.0	7.0	7.0	7.0	7.5	8.0	8.0	8.0	8.0	8.0	7.5	7.0	8.0	7.5
810909	12	7.5	7.5	7.0	7.0	7.0	7.0	7.0	7.5	7.5	7.0	7.0	7.0	7.0	7.5	7.2
810910	12	7.0	7.0	6.5	6.5	6.5	7.0	7.5	8.0	8.0	7.5	7.5	7.5	6.5	8.0	7.2
810911	12	7.5	7.0	7.0	7.0	7.0	7.0	7.5	7.5	7.5	7.5	7.5	7.5	7.0	7.5	7.3
810912	11	7.0	7.0	7.0	6.5	6.5	7.0	7.0	7.5	-.0	7.5	7.5	7.0	6.5	7.5	7.0
810913	12	7.0	7.0	6.5	6.5	6.5	6.5	7.5	7.5	7.5	7.0	7.0	6.5	6.5	7.5	6.9
810914	12	6.5	6.5	6.0	6.0	6.0	6.0	6.0	6.5	6.5	6.5	6.5	6.0	6.0	6.5	6.3
810915	12	6.0	6.0	6.0	6.0	6.0	6.0	6.5	6.5	6.5	6.0	6.0	6.0	6.0	6.5	6.1
810916	12	6.0	6.0	5.5	5.5	5.5	5.5	6.0	6.0	6.0	6.0	6.0	6.0	5.5	6.0	5.8
810917	12	6.0	6.0	6.0	6.0	6.0	6.5	7.0	7.5	7.5	7.5	7.0	7.0	6.0	7.5	6.7
810918	12	7.0	6.5	6.5	6.5	6.5	6.5	6.5	7.0	7.0	6.5	6.5	6.5	6.5	7.0	6.6

Values = -.0 indicate missing data.

Table EC- 8. Daily thermograph statistics, lower Susitna River, 1981, above Kashwitna River, R.M. 61.2, 21N/05W/13/ABA.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
810919	12	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
810920	12	6.0	6.0	5.5	5.5	5.5	6.0	6.5	7.0	7.0	6.5	6.5	6.5	5.5	7.0	6.2
810921	12	6.5	6.0	6.0	6.0	6.0	6.0	6.0	6.5	6.5	6.0	6.0	5.5	5.5	6.5	6.1
810922	12	5.5	5.5	5.0	5.0	5.0	5.0	5.0	5.5	5.5	5.5	5.0	5.0	5.0	5.5	5.2
810923	12	4.5	4.5	4.5	4.5	4.0	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.0	4.5	4.5
810924	12	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.0	4.0	4.0	4.5	4.4
810925	12	3.5	3.0	3.0	3.0	3.0	3.0	3.0	3.5	3.5	3.0	3.0	2.5	2.5	3.5	3.1
810926	12	2.5	2.0	2.0	2.0	2.0	2.0	2.5	3.0	3.0	3.0	2.5	2.0	2.0	3.0	2.4
810927	4	2.0	2.0	1.5	4.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	1.5	4.0	2.4

Values = -.0 indicate missing data.

Table EC- 9. Daily thermograph statistics, lower Susitna River, 1981, Montana Creek, R.M. 77.2, 23N/04W/07/AAB.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
810612	6	-.0	-.0	-.0	-.0	-.0	-.0	11.5	12.5	13.0	12.5	11.5	10.5	10.5	13.0	11.9
810613	12	10.0	9.5	9.0	8.5	9.5	10.5	12.0	13.0	13.0	12.5	11.5	11.0	8.5	13.0	10.8
810614	12	10.0	9.5	9.0	9.0	9.5	10.5	12.0	13.0	13.5	13.5	12.5	11.5	9.0	13.5	11.1
810615	12	11.0	10.5	10.0	10.0	10.0	11.5	11.5	12.0	12.0	12.0	11.5	11.0	10.0	12.0	11.1
810616	12	10.5	10.0	9.5	9.5	10.5	11.5	12.5	14.0	14.0	13.5	13.0	12.0	9.5	14.0	11.7
810617	12	11.0	10.5	10.0	10.0	10.5	12.0	13.5	13.5	13.5	13.0	12.5	12.0	10.0	13.5	11.8
810618	12	11.5	10.5	10.5	10.5	11.0	12.0	13.5	14.5	13.5	13.0	12.5	11.5	10.5	14.5	12.0
810619	12	11.0	10.0	9.5	9.5	10.5	12.0	13.5	15.0	15.5	15.0	14.0	13.0	9.5	15.5	12.4
810620	12	12.0	11.0	10.5	10.5	11.5	12.5	14.5	15.5	15.5	14.5	13.5	13.0	10.5	15.5	12.9
810621	12	12.5	12.0	11.5	11.5	11.5	11.0	11.0	11.0	11.5	11.5	11.0	11.0	11.0	12.5	11.4
810622	12	10.5	10.5	10.0	10.0	10.5	11.0	12.5	13.5	13.5	13.0	12.5	12.0	10.0	13.5	11.6
810623	12	11.5	11.0	10.5	10.5	11.0	11.5	13.5	14.5	15.0	14.5	13.5	13.0	10.5	15.0	12.5
810624	12	12.5	11.5	11.0	11.0	11.5	12.5	13.5	14.5	14.5	14.5	13.5	13.0	11.0	14.5	12.8
810625	12	12.0	11.5	11.0	11.0	11.5	12.0	13.5	14.5	15.0	14.5	13.5	13.0	11.0	15.0	12.8
810626	12	12.0	11.5	11.5	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	10.5	10.5	12.0	11.1
810627	12	10.0	10.0	9.5	9.5	9.5	9.5	10.0	10.0	10.0	10.0	9.5	9.5	9.5	10.0	9.8
810628	12	9.0	9.0	8.5	8.5	8.5	8.5	9.0	9.5	9.5	9.5	9.5	9.5	8.5	9.5	9.0
810629	12	8.5	8.5	8.0	8.0	8.0	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.0	8.5	8.4
810630	12	8.0	8.0	7.5	7.0	7.0	7.5	8.5	8.5	8.5	8.5	8.5	8.5	7.0	8.5	8.0
810701	12	8.0	8.0	7.5	7.5	8.0	8.5	9.5	10.0	10.0	10.0	9.5	9.5	7.5	10.0	8.8

Values = -.0 indicate missing data.

Table EC- 9. Daily thermograph statistics, lower Susitna River, 1981, Montana Creek, R.M. 77.2, 23N/04W/07/AAB.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
810702	12	9.0	8.5	8.5	8.0	8.5	8.5	9.5	10.0	10.5	10.5	10.5	9.5	8.0	10.5	9.3
810703	12	9.5	8.5	8.5	8.5	8.5	9.5	10.5	11.5	12.0	12.0	11.0	10.5	8.5	12.0	10.0
810704	12	10.0	9.5	9.0	9.0	9.5	10.5	12.0	12.0	12.5	12.0	11.5	11.0	9.0	12.5	10.7
810705	12	10.5	10.5	10.0	10.0	10.5	11.5	12.0	12.5	12.5	12.0	11.5	11.5	10.0	12.5	11.3
810706	12	11.0	10.5	10.5	10.5	10.5	10.5	11.5	13.0	13.0	12.5	12.0	11.5	10.5	13.0	11.4
810707	12	11.0	10.5	10.5	10.5	10.5	10.5	10.5	11.5	11.5	11.5	11.0	10.5	10.5	11.5	10.8
810708	12	10.5	10.0	10.0	10.0	10.0	10.5	11.0	11.0	11.0	11.0	11.0	10.5	10.0	11.0	10.5
810709	12	10.5	10.5	10.0	10.0	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.0	10.5	10.4
810710	12	10.0	10.0	10.0	10.0	10.0	9.5	9.5	9.5	9.0	9.0	8.5	8.5	8.5	10.0	9.5
810711	12	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
810712	12	8.5	8.5	8.5	8.5	8.5	8.5	9.0	9.0	9.0	9.0	9.0	9.0	8.5	9.0	8.8
810713	12	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.5	9.5	9.5	9.5	9.0	9.5	9.2
810714	12	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
810715	12	9.5	9.5	9.5	9.5	9.5	9.5	9.5	10.0	10.0	10.0	10.0	10.0	9.5	10.0	9.7
810716	12	10.0	10.0	10.0	9.5	9.5	10.0	10.0	10.5	10.5	10.5	10.5	10.5	9.5	10.5	10.1
810717	12	10.5	10.5	10.0	10.0	10.0	10.5	10.5	11.5	12.0	12.0	11.5	11.5	10.0	12.0	10.9
810718	12	11.0	10.5	10.5	10.5	10.5	10.5	11.0	11.0	11.0	11.0	11.0	10.5	10.5	11.0	10.8
810719	12	10.5	10.5	10.0	10.0	10.0	10.0	10.5	10.5	10.5	10.5	10.5	10.5	10.0	10.5	10.3
810720	12	10.5	10.5	10.0	10.0	10.0	10.0	10.0	10.5	10.5	10.5	10.5	10.5	10.0	10.5	10.3
810721	12	10.0	10.0	10.0	10.0	10.0	10.0	10.5	10.5	11.0	11.0	11.0	11.0	10.0	11.0	10.4

Values = -.0 indicate missing data.

Table EC- 9. Daily thermograph statistics, lower Susitna River, 1981, Montana Creek, R.M. 77.2, 23N/04W/07/AAB.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
810722	12	10.5	10.5	10.5	10.5	10.5	10.5	11.0	11.5	11.5	11.5	11.5	11.0	10.5	11.5	10.9
810723	12	11.0	10.5	10.5	10.5	10.5	10.5	11.0	11.0	11.0	11.5	11.0	11.0	10.5	11.5	10.8
810724	9	11.0	10.5	10.5	10.5	10.5	10.5	11.5	11.5	11.5	-.0	-.0	-.0	10.5	11.5	10.9
810930	6	-.0	-.0	-.0	-.0	-.0	-.0	4.0	4.0	4.0	3.5	3.0	3.0	3.0	4.0	3.6
811001	12	2.5	2.5	2.0	2.0	2.0	2.5	3.0	3.5	3.5	3.0	2.5	2.0	2.0	3.5	2.6
811002	12	2.0	1.5	1.0	1.0	1.0	1.5	2.0	3.0	3.0	2.0	1.5	1.5	1.0	3.0	1.8
811003	12	1.5	1.5	1.5	1.5	1.5	2.0	2.5	2.5	2.5	2.5	2.5	2.5	1.5	2.5	2.0
811004	12	2.5	2.5	2.0	2.0	2.0	2.0	2.0	2.0	2.5	2.5	2.5	2.0	2.0	2.5	2.2
811005	12	2.0	2.0	2.0	2.0	2.0	2.5	2.5	3.0	3.0	3.0	2.5	2.5	2.0	3.0	2.4
811006	12	2.5	2.5	2.0	2.0	2.0	2.0	3.0	3.0	3.0	2.5	2.5	2.0	2.0	3.0	2.4
811007	12	2.0	1.5	1.0	1.0	1.0	1.5	2.0	2.0	2.0	2.0	1.5	1.0	1.0	2.0	1.5
811008	12	1.0	.5	.5	0.0	.5	.5	1.5	2.0	2.0	1.5	1.0	1.0	0.0	2.0	1.0
811009	12	.5	.5	0.0	.5	.5	1.0	1.5	1.5	1.5	1.5	1.5	1.5	0.0	1.5	1.0
811010	12	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.0	2.0	2.0	1.5	2.5	1.9
811011	12	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
811012	12	2.0	2.0	2.0	2.0	2.0	2.0	2.5	2.5	2.5	2.5	2.5	2.5	2.0	2.5	2.3
811013	6	2.5	2.5	2.5	2.5	2.5	2.5	-.0	-.0	-.0	-.0	-.0	-.0	2.5	2.5	2.5

Values = -.0 indicate missing data.

Table EC- 10. Daily thermograph statistics, lower Susitna River, 1981, above Montana Creek, R.M. 77.5, 23N/04W/06/CAA.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
810612	7	-.0	-.0	-.0	-.0	-.0	11.0	11.0	11.5	12.0	12.0	12.0	11.5	11.0	12.0	11.6
810613	12	11.5	11.5	11.0	11.0	11.0	11.5	12.0	12.0	12.5	12.5	12.5	12.0	11.0	12.5	11.8
810614	12	12.0	11.5	11.5	11.0	11.0	11.5	12.0	12.5	13.0	13.0	13.0	12.5	11.0	13.0	12.0
810615	12	12.5	11.0	11.0	11.0	11.5	12.0	12.0	12.0	12.0	12.0	12.0	12.0	11.0	12.5	11.8
810616	12	11.5	11.5	11.0	11.0	11.0	11.5	13.0	13.0	13.0	13.0	13.0	13.0	11.0	13.0	12.1
810617	12	13.0	12.5	12.5	12.0	12.0	12.5	13.0	13.0	13.0	13.0	13.0	12.5	12.0	13.0	12.7
810618	12	12.5	12.5	12.0	12.0	12.0	12.5	13.0	13.5	13.5	13.0	13.0	12.5	12.0	13.5	12.7
810619	12	12.5	12.5	12.0	12.0	12.0	12.0	12.5	13.0	13.0	13.0	13.0	13.0	12.0	13.0	12.5
810620	12	13.0	12.5	12.0	12.0	12.0	12.5	12.5	13.0	13.0	13.0	13.0	12.5	12.0	13.0	12.6
810621	12	12.5	12.0	12.0	11.5	11.5	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	12.5	11.4
810622	12	10.5	10.5	10.0	10.0	10.0	10.5	10.5	11.0	11.5	12.0	12.0	12.0	10.0	12.0	10.9
810623	12	11.5	11.5	11.5	11.0	11.0	11.5	12.0	12.0	12.5	12.5	12.5	12.5	11.0	12.5	11.8
810624	12	12.5	12.5	12.0	12.0	11.5	12.0	12.0	12.5	13.0	13.0	13.0	12.5	11.5	13.0	12.4
810625	12	12.5	12.5	12.0	12.0	12.0	12.0	12.5	12.5	13.0	13.0	13.0	13.0	12.0	13.0	12.5
810626	12	12.5	12.0	12.0	11.5	11.5	11.5	11.0	11.0	11.0	11.0	10.5	10.0	10.0	12.5	11.3
810627	12	10.0	9.5	9.5	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	8.5	8.5	10.0	9.1
810628	12	8.5	8.5	8.0	8.0	8.0	8.0	8.0	8.5	9.0	9.0	9.0	8.5	8.0	9.0	8.4
810629	12	8.5	8.5	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.5	8.1
810630	12	7.5	7.5	7.0	7.0	7.0	7.5	8.0	8.0	8.0	8.0	8.0	8.0	7.0	8.0	7.6
810701	12	8.0	8.0	7.5	7.5	7.5	8.0	9.0	9.0	9.0	9.0	9.0	9.0	7.5	9.0	8.4

Values = -.0 indicate missing data.

Table EC- 10. Daily thermograph statistics, lower Susitna River, 1981, above Montana Creek, R.M. 77.5, 23N/04W/06/CAA.

DATE	# OBS.	TEMPERATURE AT TIME 0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400	MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
810702	12	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.5	9.5	9.5	9.5	9.5	9.0	9.5	9.2
810703	4	9.0	9.0	9.0	9.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	9.0	9.0	9.0
810830	6	-.0	-.0	-.0	-.0	-.0	-.0	10.5	10.5	10.5	10.5	10.5	10.0	10.0	10.5	10.4
810831	12	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
810901	12	10.0	10.0	9.5	9.5	9.5	9.5	9.5	10.0	10.0	10.0	9.5	9.5	9.5	10.0	9.7
810902	12	9.5	9.0	9.0	9.0	9.0	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	9.5	8.8
810903	12	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
810904	12	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
810905	12	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
810906	12	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
810907	12	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
810908	12	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
810909	12	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
810910	12	8.0	8.0	8.0	8.0	8.0	8.0	9.0	9.5	10.0	10.5	10.5	10.5	8.0	10.5	9.0
810911	12	10.5	10.0	10.0	10.0	9.5	9.5	10.0	10.0	11.0	11.0	11.0	10.0	9.5	11.0	10.2
810912	12	10.5	10.0	10.0	9.5	9.0	9.0	9.0	9.5	10.0	10.0	10.0	10.0	9.0	10.5	9.7
810913	12	9.5	9.5	9.0	9.0	8.5	8.5	9.0	10.0	10.5	10.5	10.5	10.5	8.5	10.5	9.6
810914	12	10.0	9.5	9.0	8.5	8.5	8.5	8.5	8.0	9.5	10.0	10.0	10.0	8.0	10.0	9.2
810915	12	9.5	9.5	9.0	9.0	8.5	8.5	9.0	9.0	9.0	9.5	9.5	9.5	8.5	9.5	9.1
810916	12	9.0	9.0	9.0	8.5	8.5	8.5	8.5	9.0	9.0	9.0	9.0	9.0	8.5	9.0	8.8

Values = -.0 indicate missing data.

Table EC- 10. Daily thermograph statistics, lower Susitna River, 1981, above Montana Creek, R.M. 77.5, 23N/04W/06/CAA.

DATE	# OBS.	TEMPERATURE AT TIME 0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400	MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
810917	12	9.0	9.0	8.5	8.5	8.5	8.5	9.0	9.5	10.0	11.0	11.0	10.5	8.5	11.0	9.4
810918	12	10.0	10.0	9.5	9.5	9.0	9.0	9.0	9.5	9.5	9.5	9.5	9.5	9.0	10.0	9.5
810919	12	9.5	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.5	9.0
810920	12	9.0	9.0	8.5	8.0	8.0	8.0	8.5	9.0	10.0	10.0	10.0	9.5	8.0	10.0	9.0
810921	12	9.5	9.0	8.5	8.5	8.0	8.0	8.5	9.0	9.0	9.5	9.0	9.0	8.0	9.5	8.8
810922	12	9.0	8.0	8.0	7.5	7.0	6.5	7.0	8.0	9.0	9.5	9.5	9.0	6.5	9.5	8.2
810923	12	8.5	8.0	7.5	7.0	7.0	6.5	7.0	7.5	7.5	7.5	7.5	7.0	6.5	8.5	7.4
810924	12	7.0	7.0	6.5	6.5	6.5	6.5	6.5	6.5	7.0	7.0	7.0	7.0	6.5	7.0	6.8
810925	12	6.5	6.0	6.0	5.5	5.0	5.0	5.5	6.0	7.0	7.5	7.5	7.0	5.0	7.5	6.2
810926	12	6.5	6.0	5.5	5.0	4.5	4.5	4.5	5.5	7.0	7.5	7.0	5.5	4.5	7.5	5.8
810927	12	6.0	5.5	5.0	4.5	4.5	4.5	5.0	5.5	6.0	6.0	6.0	5.5	4.5	6.0	5.3
810928	12	5.0	4.5	4.0	4.0	4.0	4.0	4.0	5.0	6.0	6.5	6.0	5.5	4.0	6.5	4.9
810929	12	5.0	4.5	4.0	4.0	4.0	3.5	3.5	4.0	4.0	5.5	5.5	5.0	3.5	5.5	4.4
810930	12	5.0	4.5	4.0	4.0	4.0	3.5	4.0	5.0	6.0	6.5	6.0	6.0	3.5	6.5	4.9
811001	12	5.5	5.0	4.5	4.0	4.0	4.0	4.0	5.0	6.0	6.5	6.0	5.5	4.0	6.5	5.0
811002	12	5.0	4.5	4.0	4.0	4.0	3.5	3.5	4.0	5.0	5.5	5.5	5.0	3.5	5.5	4.5
811003	12	4.5	4.5	4.0	4.0	3.5	3.5	3.5	4.0	4.0	4.0	4.0	4.0	3.5	4.5	4.0
811004	12	4.0	4.0	4.0	3.5	3.5	3.5	3.5	3.0	3.0	3.0	3.0	3.0	3.0	4.0	3.4
811005	12	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.0	4.5	5.0	5.0	4.5	3.0	5.0	3.7
811006	12	4.0	4.0	4.0	3.5	3.5	3.5	3.5	5.0	5.0	5.0	5.0	4.5	3.5	5.0	4.2

Values = -.0 indicate missing data.

Table EC- 10. Daily thermograph statistics, lower Susitna River, 1981, above Montana Creek, R.M. 77.5, 23N/04W/06/CAA.

DATE	# OBS.	TEMPERATURE AT TIME 0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400	MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
811007	12	4.0	4.0	3.5	3.5	3.0	3.0	3.0	3.5	4.5	5.0	4.5	4.0	3.0	5.0	3.8
811008	12	4.0	3.5	3.5	3.0	3.0	3.0	3.0	3.0	3.5	4.0	4.0	3.5	3.0	4.0	3.4
811009	12	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
811010	12	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.0	4.5	4.5	4.5	4.5	3.0	4.5	3.6
811011	12	4.5	4.0	4.0	4.0	3.5	3.5	3.5	4.0	4.0	4.0	4.0	4.0	3.5	4.5	3.9
811012	12	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.5	4.5	4.5	4.5	4.0	4.5	4.2
811013	5	4.5	4.5	4.5	4.5	4.5	-.0	-.0	-.0	-.0	-.0	-.0	-.0	4.5	4.5	4.5

Values = -.0 indicate missing data.

Table EC- 11. Daily thermograph statistics, lower Susitna River, 1981, Sunshine (Park's Bridge), R.M. 83.8, 24N/05W/15/BAD.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
810611	4	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	10.5	10.5	10.5	10.5	10.5	10.5	10.5
810612	12	10.0	9.5	9.0	9.0	9.5	10.5	11.0	11.5	12.0	11.5	11.5	11.0	9.0	12.0	10.5
810613	12	11.0	10.5	10.5	10.5	10.5	11.5	12.0	12.5	12.5	12.0	12.0	11.5	10.5	12.5	11.4
810614	12	11.5	11.0	10.5	10.5	11.0	11.5	12.5	13.0	13.0	12.5	12.5	12.0	10.5	13.0	11.8
810615	7	11.5	11.5	11.5	11.0	11.5	11.5	12.0	-.0	-.0	-.0	-.0	-.0	11.0	12.0	11.5
810616	12	12.0	12.0	11.5	11.5	11.5	12.0	13.0	13.5	13.5	13.5	13.5	13.5	11.5	13.5	12.6
810617	12	13.0	13.0	12.5	12.5	12.5	12.5	13.5	13.5	13.5	13.5	13.5	13.0	12.5	13.5	13.0
810618	12	13.0	12.5	12.5	12.5	12.5	13.0	13.5	14.0	14.0	13.5	13.5	13.5	12.5	14.0	13.2
810619	12	13.0	12.5	12.5	12.5	12.5	12.5	13.0	13.5	14.0	14.0	14.0	13.5	12.5	14.0	13.1
810620	12	13.5	13.0	12.5	12.5	12.5	13.0	13.5	14.0	14.0	14.0	13.5	13.5	12.5	14.0	13.3
810621	12	13.0	13.0	12.5	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	11.5	11.5	13.0	12.2
810622	12	11.0	11.0	10.5	10.5	10.5	11.0	11.5	12.0	12.5	12.5	12.5	12.5	10.5	12.5	11.5
810623	12	12.5	12.0	12.0	11.5	12.0	12.0	12.5	13.5	13.5	13.5	13.5	13.5	11.5	13.5	12.7
810624	12	13.0	13.0	12.5	12.5	12.5	12.5	13.0	13.5	13.5	13.5	13.5	13.5	12.5	13.5	13.0
810625	12	13.0	12.5	12.5	12.5	12.5	12.5	13.0	13.5	13.5	13.5	13.5	13.0	12.5	13.5	13.0
810626	12	13.0	12.5	12.5	12.0	12.0	12.0	12.0	11.5	11.5	11.5	11.0	11.0	11.0	13.0	11.9
810627	12	10.5	10.0	10.0	10.0	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	10.5	9.7
810628	12	9.0	9.0	9.0	8.5	8.5	8.5	8.5	9.0	9.0	9.0	9.0	10.0	8.5	10.0	8.9
810629	12	8.5	8.5	8.0	8.0	8.0	8.0	8.5	8.5	8.5	8.5	8.5	8.0	8.0	8.5	8.3
810630	12	8.0	7.5	7.5	7.5	7.5	8.0	8.0	8.0	8.5	8.5	8.5	8.5	7.5	8.5	8.0

Values = -.0 indicate missing data.

Table EC- 11. Daily thermograph statistics, lower Susitna River, 1981, Sunshine (Park's Bridge), R.M. 83.8, 24N/05W/15/BAD.

DATE	# OBS.	TEMPERATURE AT TIME 0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400	MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
810701	12	8.5	8.0	8.0	8.0	8.0	8.5	9.0	9.5	9.5	9.5	9.5	9.5	8.0	9.5	8.8
810702	12	9.5	9.5	9.0	9.0	9.0	9.5	9.5	10.0	10.0	10.0	10.0	10.0	9.0	10.0	9.6
810703	12	9.5	9.5	9.0	9.0	9.5	10.0	10.5	10.5	11.0	11.0	11.0	11.0	9.0	11.0	10.1
810704	12	10.5	10.0	10.0	10.0	10.0	10.5	11.0	11.5	11.5	11.5	11.5	11.5	10.0	11.5	10.8
810705	12	11.0	11.0	10.5	10.5	10.5	11.0	11.0	11.5	11.5	11.5	11.5	11.0	10.5	11.5	11.0
810706	11	11.0	10.5	10.5	10.5	10.5	10.5	-.0	12.0	12.0	12.0	12.0	11.5	10.5	12.0	11.2
810707	12	11.5	11.0	11.0	11.0	10.5	10.5	11.0	11.0	11.0	11.0	11.0	11.0	10.5	11.5	11.0
810708	12	10.5	10.5	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.5	9.5	10.5	10.0
810709	12	9.5	9.5	9.5	9.0	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.0	9.5	9.5
810710	12	9.5	9.5	9.5	9.5	9.5	9.5	9.0	9.0	9.0	9.0	8.5	8.5	8.5	9.5	9.2
810711	9	8.5	8.5	8.5	-.0	-.0	-.0	10.0	10.0	10.0	10.0	10.0	10.0	8.5	10.0	9.5
810712	12	10.0	10.0	10.0	10.0	10.0	10.5	11.0	11.0	11.0	10.5	11.0	11.0	10.0	11.0	10.5
810713	10	11.0	10.5	10.0	10.5	-.0	-.0	11.0	10.5	10.5	10.5	10.5	10.5	10.0	11.0	10.6
810714	2	10.5	10.5	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	10.5	10.5	10.5

Values = -.0 indicate missing data.

Table EC- 12. Daily thermograph statistics, lower Susitna River, 1981, Talkeetna River, R.M. 97.0, T.R.M. 1.0, 26N/05W/24/BDA.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
810621	6	-.0	-.0	-.0	-.0	-.0	-.0	9.5	9.5	9.5	9.0	9.0	8.5	8.5	9.5	9.2
810622	12	8.5	8.5	8.5	8.5	8.5	8.5	9.5	10.5	11.0	11.0	10.5	10.5	8.5	11.0	9.5
810623	12	10.0	10.0	10.0	10.0	10.0	10.5	10.5	11.0	11.5	11.5	11.0	11.0	10.0	11.5	10.6
810624	12	11.0	11.0	11.0	10.5	10.5	10.5	10.5	11.0	11.5	11.5	11.5	11.5	10.5	11.5	11.0
810625	12	11.5	11.5	11.0	11.0	11.0	11.0	11.0	11.5	11.5	11.5	11.0	11.0	11.0	11.5	11.2
810626	12	11.0	10.5	10.5	10.5	10.5	10.5	9.5	9.0	9.0	8.5	8.5	8.0	8.0	11.0	9.7
810627	12	8.0	8.0	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	8.0	7.6
810628	12	7.5	7.5	7.5	7.5	7.0	7.5	7.5	7.5	8.0	8.0	8.0	8.0	7.0	8.0	7.6
810629	12	8.0	8.0	7.5	7.5	7.5	7.5	7.0	7.0	7.0	7.0	7.0	7.0	7.0	8.0	7.3
810630	12	7.0	6.5	6.5	6.5	6.5	6.5	7.0	7.5	7.5	7.5	7.5	7.0	6.5	7.5	7.0
810701	12	7.0	7.0	6.5	6.5	7.0	7.0	7.5	8.0	8.5	8.5	8.5	8.5	6.5	8.5	7.5
810702	12	8.0	8.0	7.5	7.5	7.5	7.5	8.0	8.5	9.5	9.5	9.5	9.5	7.5	9.5	8.4
810703	12	8.0	8.0	7.5	7.5	7.5	7.5	8.0	8.5	9.5	9.5	9.5	9.5	7.5	9.5	8.4
810704	12	9.0	8.5	8.5	8.0	8.5	9.0	9.5	10.0	10.5	10.5	10.5	10.0	8.0	10.5	9.4
810705	12	9.5	9.5	9.0	9.0	9.0	9.5	10.0	10.0	10.0	10.0	10.0	9.5	9.0	10.0	9.6
810706	12	9.5	9.5	9.0	9.0	9.0	9.5	9.5	10.0	10.0	10.0	10.0	10.0	9.0	10.0	9.6
810707	12	9.5	9.5	9.0	9.0	9.0	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.0	9.5	9.4
810708	12	9.0	9.0	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	9.0	9.0	8.5	9.0	8.7
810709	12	8.5	8.5	9.0	8.5	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	8.5	9.0	8.9
810710	12	9.0	8.5	8.5	8.5	8.5	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	9.0	8.3

Values = -.0 indicate missing data.

Table EC- 12. Daily thermograph statistics, lower Susitna River, 1981, Talkeetna River, R.M. 97.0, T.R.M. 1.0, 26N/05W/24/BDA.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
810711	12	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	8.0	8.0	7.5	8.0	7.6
810712	12	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
810713	12	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
810714	12	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
810715	12	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.5	8.5	8.5	8.5	8.5	8.0	8.5	8.2
810716	12	8.5	8.5	8.5	8.5	8.5	8.5	9.0	9.0	9.0	9.0	9.0	9.0	8.5	9.0	8.8
810717	12	9.0	9.0	9.0	9.0	8.5	8.5	9.0	9.5	9.5	9.5	9.5	9.5	8.5	9.5	9.1
810718	12	9.5	9.5	9.5	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.5	9.1
810719	12	9.0	9.0	9.0	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	9.0	8.6
810720	12	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
810721	12	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	9.0	9.0	9.5	9.5	8.5	9.5	8.8
810722	12	9.5	9.5	9.5	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.5	9.1
810723	12	9.0	9.0	9.0	9.0	8.5	8.5	8.5	8.5	8.5	8.5	8.5	9.0	8.5	9.0	8.7
810724	12	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.5	9.0	9.5	9.0
810725	12	9.5	9.0	9.0	9.0	8.5	8.5	8.5	8.5	9.0	9.0	9.0	9.0	8.5	9.5	8.9
810726	12	9.0	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	9.0	9.0	9.0	8.5	9.0	8.7
810727	12	9.0	8.5	8.5	8.5	8.5	9.0	9.0	9.5	9.5	10.0	10.0	10.0	8.5	10.0	9.2
810728	12	10.0	9.5	9.5	9.0	9.0	9.0	8.5	8.5	8.5	8.5	8.5	8.5	8.5	10.0	8.9
810729	12	9.0	9.0	8.5	8.5	8.5	9.0	9.5	9.5	10.0	10.0	10.0	10.0	8.5	10.0	9.3
810730	12	9.5	9.5	9.5	9.0	9.0	9.0	9.5	9.5	9.5	9.5	9.5	9.5	9.0	9.5	9.4

Values = -.0 indicate missing data.

Table EC- 12. Daily thermograph statistics, lower Susitna River, 1981, Talkeetna River, R.M. 97.0, T.R.M. 1.0, 26N/05W/24/BDA.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
810731	12	9.0	9.0	9.0	9.0	9.0	9.0	9.5	9.5	9.5	9.5	9.5	9.5	9.0	9.5	9.3
810801	12	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
810802	12	9.0	9.0	8.5	8.5	8.5	8.5	8.5	9.0	9.0	9.5	9.0	9.0	8.5	9.5	8.8
810803	12	9.0	9.0	8.5	8.5	8.5	8.5	9.0	9.5	9.5	9.5	9.5	9.5	8.5	9.5	9.0
810804	12	9.5	9.0	8.5	8.5	8.5	8.5	9.0	9.5	9.5	9.5	9.5	9.5	8.5	9.5	9.1
810805	12	9.5	9.5	9.5	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.5	9.0	9.5	9.2
810806	12	9.5	9.5	9.0	9.0	9.0	9.0	9.0	9.0	9.5	9.5	9.5	9.5	9.0	9.5	9.3
810807	12	9.5	9.5	9.5	9.5	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.5	9.2
810808	12	9.0	9.0	9.0	8.5	8.5	9.0	9.0	9.5	9.5	9.5	9.5	9.5	8.5	9.5	9.1
810809	12	9.5	9.5	9.5	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.5	9.1
810810	12	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
810811	12	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
810812	12	9.0	9.0	8.5	8.5	8.5	8.5	8.5	8.0	8.0	8.0	8.0	8.0	8.0	9.0	8.4
810813	12	8.0	8.0	8.0	7.5	7.5	7.5	7.5	8.0	8.0	8.0	8.0	8.0	7.5	8.0	7.8
810814	12	8.0	8.0	8.0	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	8.0	7.6
810815	12	7.5	7.5	7.5	7.5	7.5	7.5	7.0	7.0	7.0	7.0	6.5	6.5	6.5	7.5	7.2
810816	12	6.5	6.5	6.0	6.0	6.0	6.0	6.5	6.5	6.5	6.5	6.5	6.5	6.0	6.5	6.3
810817	12	6.5	6.6	6.6	5.5	5.5	6.0	6.0	6.5	6.5	6.5	6.5	7.0	5.5	7.0	6.3
810818	12	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.5	7.5	7.5	7.5	7.5	7.0	7.5	7.2
810819	12	7.5	7.5	7.5	7.5	7.5	7.5	7.5	8.0	8.0	8.0	8.0	8.0	7.5	8.0	7.7

Values = -.0 indicate missing data.

Table EC- 12. Daily thermograph statistics, lower Susitna River, 1981, Talkeetna River, R.M. 97.0, T.R.M. 1.0, 26N/05W/24/BDA.

DATE	# OBS.	TEMPERATURE AT TIME 0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400	MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
810820	12	8.0	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	8.0	7.5
810821	12	7.5	7.5	7.5	7.5	7.5	7.5	8.0	8.0	8.0	8.0	8.0	8.0	7.5	8.0	7.8
810822	12	8.5	8.0	8.0	8.0	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	8.5	7.7
810823	12	7.5	7.5	7.5	7.5	7.5	7.5	8.5	8.5	8.5	8.5	8.5	8.5	7.5	8.5	8.0
810824	12	8.5	8.0	8.0	7.5	7.5	8.0	8.0	8.5	8.5	8.5	8.5	8.5	7.5	8.5	8.2
810825	12	8.5	8.5	8.5	8.5	8.5	9.0	9.0	9.5	9.5	9.5	9.5	9.5	8.5	9.5	9.0
810826	12	9.5	9.5	9.5	9.5	9.5	9.5	10.5	10.5	10.5	10.5	10.5	10.5	9.5	10.5	10.0
810827	12	10.5	10.5	10.0	10.0	10.0	10.0	10.0	10.5	10.5	10.5	10.0	10.0	10.0	10.5	10.2
810828	12	10.0	10.0	10.0	10.0	10.0	9.5	10.0	10.5	10.5	10.5	10.0	10.0	9.5	10.5	10.1
810829	12	10.0	10.0	10.0	10.0	10.0	10.0	9.5	9.5	9.0	9.0	9.0	9.0	9.0	10.0	9.6
810830	12	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
810831	12	9.0	9.0	9.0	9.0	8.5	8.5	9.0	9.0	9.5	9.5	9.5	9.0	8.5	9.5	9.0
810901	12	9.0	9.0	9.0	8.5	8.0	8.0	8.0	8.0	8.0	8.0	8.0	7.5	7.5	9.0	8.3
810902	12	8.0	8.0	8.0	8.0	8.0	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	8.0	7.7
810903	12	7.5	7.5	7.5	7.5	7.5	7.5	7.5	8.0	8.5	8.5	8.5	8.5	7.5	8.5	7.9
810904	12	8.5	8.0	8.0	8.0	8.0	8.0	8.0	8.5	8.5	8.5	8.5	8.0	8.0	8.5	8.2
810905	12	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.5	8.5	8.5	8.5	8.0	8.0	8.5	8.2
810906	12	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	7.5	7.5	7.5	8.0	7.9
810907	12	7.0	7.0	7.0	7.0	6.5	7.0	7.0	7.5	8.0	8.0	8.0	7.5	6.5	8.0	7.3
810908	12	7.5	7.0	7.0	7.0	7.0	7.0	7.0	8.0	8.0	8.0	8.0	8.0	7.0	8.0	7.5

Values = -.0 indicate missing data.

Table EC- 12. Daily thermograph statistics, lower Susitna River, 1981, Talkeetna River, R.M. 97.0, T.R.M. 1.0, 26N/05W/24/BDA.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
810909	12	8.0	7.5	7.0	7.0	7.0	7.0	7.0	7.5	7.5	7.5	7.0	7.0	7.0	8.0	7.3
810910	12	7.0	7.0	7.0	7.0	7.0	7.5	8.0	8.0	8.0	8.0	8.0	8.0	7.0	8.0	7.5
810911	12	8.0	7.5	7.5	7.0	7.5	7.5	7.5	8.0	8.0	7.5	7.5	7.0	7.0	8.0	7.5
810912	12	7.0	7.0	7.0	7.0	7.0	7.0	7.5	8.0	8.0	7.5	7.5	7.0	7.0	8.0	7.3
810913	12	7.0	7.0	7.0	7.0	7.0	7.0	7.5	8.0	8.0	8.0	7.5	7.0	7.0	8.0	7.3
810914	12	6.5	6.0	6.0	6.0	6.0	6.0	6.0	6.5	6.5	6.5	6.5	6.5	6.0	6.5	6.3
810915	12	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.5	6.5	6.5	6.5	6.5	6.0	6.5	6.2
810916	12	6.5	6.5	6.0	6.0	6.0	6.5	7.0	7.0	7.0	7.0	7.0	7.0	6.0	7.0	6.6
810917	12	6.5	6.5	6.5	6.5	6.5	6.5	7.0	7.5	7.5	7.5	7.5	7.0	6.5	7.5	6.9
810918	12	7.0	7.0	7.0	6.5	6.5	7.0	7.5	7.5	7.5	7.0	7.0	7.0	6.5	7.5	7.0
810919	12	6.5	6.5	6.5	6.5	6.5	6.5	6.5	7.0	7.0	7.0	7.0	7.0	6.5	7.0	6.7
810920	12	6.5	6.5	6.5	6.0	6.0	6.0	6.5	7.0	7.0	7.0	7.0	6.5	6.0	7.0	6.5
810921	12	6.0	6.0	5.5	5.5	5.5	5.5	6.0	6.5	6.5	6.0	6.0	6.0	5.5	6.5	5.9
810922	12	6.0	6.0	6.0	6.0	5.5	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	6.0	5.4
810923	12	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.5	4.0	4.0	4.0	4.0	5.0	4.7
810924	12	4.0	4.0	4.0	3.5	3.0	3.0	3.0	2.5	2.5	3.0	3.0	3.5	2.5	4.0	3.3
810925	12	4.0	4.0	4.0	3.5	3.5	3.0	3.0	2.5	2.0	2.5	2.5	3.0	2.0	4.0	3.1
810926	12	3.0	3.0	3.0	2.5	2.0	2.0	2.0	1.5	1.5	1.5	2.0	2.0	1.5	3.0	2.2
810927	12	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.5	1.5	1.5	2.0	2.0	1.5	2.0	1.9
810928	12	2.5	2.5	2.0	2.0	2.0	1.5	1.0	1.0	1.0	1.0	1.5	2.0	1.0	2.5	1.7

Values = -.0 indicate missing data.

Table EC- 12. Daily thermograph statistics, lower Susitna River, 1981, Talkeetna River, R.M. 97.0, T.R.M. 1.0, 26N/05W/24/BDA.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
810929	12	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.5	1.5	2.0	2.0	1.5	2.0	1.9
810930	12	2.5	2.5	2.5	2.5	2.0	2.0	2.0	1.5	1.5	2.0	2.0	2.0	1.5	2.5	2.1
811001	12	2.5	2.5	2.5	2.0	2.0	1.5	1.0	1.0	1.0	1.0	1.5	2.0	1.0	2.5	1.7
811002	12	2.0	2.0	2.0	2.0	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.0	2.0	1.4
811003	12	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
811004	3	1.5	1.5	1.5	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	1.5	1.5	1.5

Values = -.0 indicate missing data.

Table EC- 13. Daily thermograph statistics, lower Susitna River, 1981, Chulitna River, R.M. 98.0, 26N/05W/15/DAA.

DATE	# OBS.	TEMPERATURE AT TIME 0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400	MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
810620	5	-.0	-.0	-.0	-.0	-.0	-.0	-.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
810621	12	9.0	8.5	8.0	7.5	7.5	7.0	7.0	7.0	7.0	6.5	6.5	6.5	6.5	9.0	7.3
810622	12	6.5	6.5	6.5	6.5	6.5	6.5	7.0	7.5	8.0	8.5	8.5	9.0	6.5	9.0	7.3
810623	12	9.0	8.5	8.0	7.5	7.5	7.5	7.5	8.5	9.0	9.5	9.5	10.0	7.5	10.0	8.5
810624	12	9.5	9.5	9.0	8.5	8.0	8.0	8.5	8.5	9.0	9.5	9.5	9.5	8.0	9.5	8.9
810625	12	9.5	9.5	9.0	8.5	8.0	8.0	8.0	8.5	8.5	9.0	9.0	9.0	8.0	9.5	8.7
810626	12	9.0	9.0	8.5	8.0	7.5	7.5	7.0	6.5	6.5	6.5	6.5	6.5	6.5	9.0	7.4
810627	12	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
810628	12	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
810629	12	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
810630	12	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
810701	12	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
810702	12	6.5	6.5	7.0	7.0	7.0	7.0	7.0	7.5	7.5	7.5	7.5	7.5	6.5	7.5	7.1
810703	12	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
810704	12	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
810705	12	7.5	7.5	7.5	7.5	7.5	7.5	8.0	8.0	8.0	8.0	8.0	8.0	7.5	8.0	7.8
810706	12	8.0	8.0	8.0	8.0	7.5	7.5	7.5	7.5	7.5	8.0	8.0	8.0	7.5	8.0	7.8
810707	12	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
810708	12	8.0	8.0	7.5	7.5	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	8.0	7.3
810709	12	7.0	7.0	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	7.0	6.5	7.0	6.6

Values = -.0 indicate missing data.

Table EC- 13. Daily thermograph statistics, lower Susitna River, 1981, Chulitna River, R.M. 98.0, 26N/05W/15/DAA.

DATE	# OBS.	TEMPERATURE AT TIME 0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400	MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
810710	12	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.5	7.5	7.5	7.0	7.5	7.1
810711	12	7.5	7.5	7.5	7.0	7.5	7.5	7.5	7.5	7.5	8.0	8.0	8.0	7.0	8.0	7.6
810712	12	8.0	8.0	8.0	8.0	8.0	7.5	7.5	7.5	7.5	8.0	8.0	8.0	7.5	8.0	7.8
810713	12	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
810714	12	8.0	8.0	8.0	8.0	7.5	7.5	7.5	7.5	8.0	8.0	8.0	8.0	7.5	8.0	7.8
810715	12	8.0	8.0	8.0	7.5	7.5	7.0	7.0	7.0	7.0	7.5	7.5	7.5	7.0	8.0	7.5
810716	6	7.5	7.5	7.5	7.0	7.0	7.0	-.0	-.0	-.0	-.0	-.0	-.0	7.0	7.5	7.3
810909	4	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	5.0	5.0	6.0	6.0	5.0	6.0	5.5
810910	12	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
810911	12	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
810912	12	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
810913	12	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
810914	12	6.0	6.0	6.0	6.0	6.0	6.0	5.5	5.5	5.5	5.5	5.0	5.5	5.0	6.0	5.7
810915	12	5.0	5.0	4.5	4.5	4.5	4.5	4.5	5.0	4.5	4.5	4.5	4.5	4.5	5.0	4.6
810916	12	5.0	5.0	4.5	4.5	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.5	5.0	4.9
810917	12	5.0	5.0	5.0	5.0	5.0	5.5	5.5	5.5	5.5	5.5	6.0	6.0	5.0	6.0	5.4
810918	12	6.0	5.5	5.0	5.0	5.0	5.0	5.5	5.5	5.5	5.5	6.0	6.0	5.0	6.0	5.5
810919	12	6.0	6.0	5.5	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	6.0	5.2
810920	12	4.5	4.5	4.0	4.0	4.0	4.5	4.5	5.0	5.0	5.0	5.0	5.0	4.0	5.0	4.6
810921	12	5.0	4.5	4.5	4.0	4.0	4.5	5.0	5.0	5.0	5.0	5.0	5.0	4.0	5.0	4.7

Values = -.0 indicate missing data.

Table EC- 13. Daily thermograph statistics, lower Susitna River, 1981, Chulitna River, R.M. 98.0, 26N/05W/15/DAA.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
810922	12	5.0	4.5	4.0	3.5	3.5	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.5	5.0	4.0
810923	12	4.0	4.0	3.5	3.5	3.5	4.0	4.0	4.0	3.5	3.5	3.5	3.5	3.5	4.0	3.7
810924	12	3.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.5	3.0
810925	12	3.0	3.0	3.0	2.5	2.5	3.0	3.5	3.5	3.0	3.0	3.0	3.0	2.5	3.5	3.0
810926	12	3.0	3.0	2.5	2.0	2.0	2.5	3.0	3.0	3.0	2.5	2.5	2.5	2.0	3.0	2.6
810927	12	2.5	2.5	2.0	2.0	2.0	2.5	2.5	2.5	2.0	2.0	2.0	2.0	2.0	2.5	2.2
810928	5	2.0	1.5	1.0	1.0	2.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	1.0	2.0	1.5

Values = -.0 indicate missing data.

Table EC- 14. Daily thermograph statistics, lower Susitna River, 1981, Talkeetna Base Camp, R.M. 103.0, 27N/05W/26/DDD.

DATE	# OBS.	TEMPERATURE AT TIME 0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400	MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
810620	4	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	16.0	15.5	15.0	14.5	14.5	16.0	15.3
810621	12	14.0	14.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.0	13.0	14.0	13.5
810622	12	13.0	12.5	12.0	12.5	12.5	13.0	13.5	14.0	14.5	14.5	14.0	14.0	12.0	14.5	13.3
810623	12	13.5	13.0	13.0	13.0	13.0	13.5	14.0	14.5	15.0	15.0	14.5	14.0	13.0	15.0	13.8
810624	12	13.5	13.5	13.0	13.0	13.0	13.5	14.5	15.0	15.0	15.0	15.0	14.5	13.0	15.0	14.0
810625	12	14.0	13.5	13.5	13.5	13.5	14.0	14.5	15.0	15.0	15.0	15.0	14.5	13.5	15.0	14.3
810626	12	14.0	14.0	13.5	13.5	13.5	13.0	13.0	13.0	13.0	13.0	12.5	12.5	12.5	14.0	13.2
810627	12	12.0	12.0	11.5	11.5	11.5	11.5	11.0	11.0	11.0	10.5	10.5	10.5	10.5	12.0	11.2
810628	12	10.0	10.0	10.0	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.0	9.0	9.0	10.0	9.5
810629	12	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.0	8.0	8.5	8.5
810630	12	8.0	8.0	8.0	8.0	8.0	8.5	8.5	8.5	9.0	9.0	9.0	9.0	8.0	9.0	8.5
810701	12	8.5	8.5	8.5	8.5	8.5	9.0	9.5	10.0	10.5	10.5	10.5	10.5	8.5	10.5	9.4
810702	12	10.0	10.0	9.5	9.5	9.5	10.0	10.5	10.5	10.5	10.5	10.5	10.5	9.5	10.5	10.1
810703	12	10.5	10.5	10.0	10.0	10.0	10.0	10.5	11.5	11.5	11.5	11.5	11.0	10.0	11.5	10.7
810704	12	11.0	10.5	10.5	10.5	10.5	11.0	11.5	12.0	12.0	12.0	12.0	11.5	10.5	12.0	11.3
810705	9	11.5	11.0	11.0	11.0	11.0	-.0	-.0	-.0	12.5	12.5	12.5	12.5	11.0	12.5	11.7
810706	12	12.0	12.0	11.5	11.5	11.5	12.0	12.5	12.5	13.0	13.0	13.0	12.5	11.5	13.0	12.3
810707	12	12.5	12.0	12.0	11.5	11.5	11.5	12.0	12.0	12.0	12.0	12.0	12.0	11.5	12.5	11.9
810708	12	11.5	11.5	11.0	11.0	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.0	10.0	11.5	10.7
810709	12	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0

Values = -.0 indicate missing data.

Table EC- 14. Daily thermograph statistics, lower Susitna River, 1981, Talkeetna Base Camp, R.M. 103.0, 27N/05W/26/DDD.

DATE	# OBS.	TEMPERATURE AT TIME 0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400	MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
810710	6	10.0	9.5	9.5	9.5	9.5	9.5	-.0	-.0	-.0	-.0	-.0	-.0	9.5	10.0	9.6
810807	2	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	11.0	10.5	10.5	11.0	10.8
810808	12	10.5	10.5	10.5	10.5	10.5	11.0	11.0	11.5	11.0	11.0	11.0	11.0	10.5	11.5	10.8
810809	12	10.5	10.5	10.5	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.5	10.1
810810	12	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
810811	12	10.0	10.0	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	10.0	9.6
810812	12	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
810813	12	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	8.5	8.5	8.5	9.0	8.9
810814	12	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
810815	12	8.5	8.0	8.5	8.5	8.5	8.0	8.0	8.0	8.0	8.0	7.5	7.5	7.5	8.5	8.1
810816	12	7.5	7.5	7.5	7.0	7.0	7.0	7.5	7.5	7.5	7.5	7.5	7.0	7.0	7.5	7.3
810817	12	7.0	7.0	6.5	6.5	6.5	6.5	6.5	7.0	7.0	7.0	7.0	7.0	6.5	7.0	6.8
810818	12	7.0	7.0	7.0	7.0	7.0	7.0	7.5	8.0	8.0	8.0	8.0	8.0	7.0	8.0	7.5
810819	12	8.0	8.0	8.0	8.0	8.0	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.0	8.5	8.3
810820	12	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
810821	12	8.0	8.0	8.0	8.0	8.0	8.5	8.5	9.0	9.0	8.5	8.5	8.5	8.0	9.0	8.4
810822	12	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
810823	12	8.5	8.5	8.5	8.5	8.5	8.5	9.0	9.5	9.5	9.5	9.0	9.0	8.5	9.5	8.9
810824	12	9.0	8.5	8.5	8.5	8.5	9.0	9.5	9.5	9.5	9.5	9.0	9.0	8.5	9.5	9.0
810825	7	9.0	9.0	9.0	9.0	9.0	9.5	9.5	-.0	-.0	-.0	-.0	-.0	9.0	9.5	9.1

Values = -.0 indicate missing data.

Table EC- 14. Daily thermograph statistics, lower Susitna River, 1981, Talkeetna Base Camp, R.M. 103.0, 27N/05W/26/DDD.

DATE	# OBS.	TEMPERATURE AT TIME 0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400	MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
810909	1	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	8.0	8.0	8.0	8.0
810910	12	8.0	7.5	7.5	7.5	8.0	8.0	8.5	9.0	9.0	8.5	8.5	8.0	7.5	9.0	8.2
810911	12	8.0	8.0	8.0	8.0	8.0	8.0	8.5	9.0	9.0	9.0	8.5	8.0	8.0	9.0	8.3
810912	12	8.0	7.5	7.5	7.0	7.5	8.0	8.5	8.5	8.5	8.0	8.0	8.0	7.0	8.5	7.9
810913	12	8.0	8.0	7.5	7.5	8.0	8.0	8.5	8.5	8.5	8.0	8.0	8.0	7.5	8.5	8.0
810914	12	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
810915	12	7.0	7.0	7.0	6.5	6.5	7.0	7.0	7.0	7.0	7.0	7.0	7.0	6.5	7.0	6.9
810916	12	7.0	7.0	7.0	7.0	7.0	7.0	7.5	7.5	7.0	7.0	7.0	7.0	7.0	7.5	7.1
810917	12	7.0	7.0	7.0	7.0	7.0	7.0	8.0	9.0	9.0	8.5	8.0	8.0	7.0	9.0	7.7
810918	12	8.0	8.0	7.5	7.0	7.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	7.0	8.0	7.8
810919	12	8.0	8.0	7.5	7.0	7.0	7.5	7.5	8.0	8.0	8.0	7.5	7.5	7.0	8.0	7.6
810920	12	7.0	7.0	7.0	7.0	7.0	7.5	8.0	8.0	8.0	8.0	7.5	7.0	7.0	8.0	7.4
810921	12	7.0	7.0	7.0	6.5	6.5	7.0	7.0	7.0	7.0	7.0	7.0	7.0	6.5	7.0	6.9
810922	12	7.0	6.5	6.0	5.5	5.5	5.5	6.0	6.5	6.5	6.5	6.5	6.0	5.5	7.0	6.2
810923	12	6.0	5.5	5.5	5.0	5.0	5.0	5.5	5.5	5.5	5.5	5.5	5.0	5.0	6.0	5.4
810924	12	5.0	5.0	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.0	4.0	5.0	4.5
810925	12	3.5	3.0	3.0	3.0	3.0	3.5	4.0	4.0	4.0	4.0	3.5	3.5	3.0	4.0	3.5
810926	12	3.0	3.0	3.0	2.5	2.5	3.0	3.5	3.5	3.5	3.0	2.5	2.5	2.5	3.5	3.0
810927	12	2.0	2.0	2.0	1.5	1.5	1.5	2.0	2.0	2.0	2.0	1.5	1.5	1.5	2.0	1.8
810928	12	1.5	1.0	1.0	.5	.5	1.0	1.5	1.5	1.5	1.5	1.0	1.0	.5	1.5	1.1

Values = -.0 indicate missing data.

Table EC- 14. Daily thermograph statistics, lower Susitna River, 1981, Talkeetna Base Camp, R.M. 103.0, 27N/05W/26/DDD.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
810929	12	1.0	.5	.5	.5	.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	.5	1.5	1.1
810930	4	1.0	1.0	1.0	1.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	1.0	1.0	1.0

Values = -.0 indicate missing data.

Table EC- 15. Daily thermograph statistics, lower Susitna River, 1981, above Fourth of July, R.M. 131.3, 30N/03W/03/DAB.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
810616	2	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	12.5	12.5	12.5	12.5	12.5
810617	12	12.5	12.0	12.0	12.0	12.5	12.5	13.0	13.0	12.5	13.0	13.0	13.0	12.0	13.0	12.6
810618	12	13.0	12.5	12.5	13.0	13.0	13.5	13.5	13.5	13.5	13.5	13.0	12.5	12.5	13.5	13.1
810619	12	12.5	12.5	12.5	12.5	13.0	13.5	13.5	13.5	13.5	13.5	13.0	13.0	12.5	13.5	13.0
810620	12	12.5	12.5	12.5	12.5	12.5	13.0	13.5	13.5	13.0	12.5	12.5	12.5	12.5	13.5	12.8
810621	12	12.0	12.0	12.5	12.5	12.5	12.0	12.0	12.0	11.5	11.5	11.5	11.5	11.5	12.5	12.0
810622	12	11.5	11.0	11.0	11.0	11.5	11.5	12.5	12.5	12.5	12.5	12.5	12.0	11.0	12.5	11.8
810623	12	11.5	11.5	11.5	11.5	12.0	12.5	13.0	13.0	12.5	12.5	12.5	12.0	11.5	13.0	12.2
810624	12	12.0	12.0	12.0	12.0	12.5	13.0	13.5	13.5	13.5	13.0	13.0	12.5	12.0	13.5	12.7
810625	12	12.5	12.5	12.5	12.5	12.5	13.0	13.5	13.5	13.0	13.0	13.0	12.5	12.5	13.5	12.8
810626	12	12.5	12.0	12.0	12.0	12.0	11.5	11.5	11.5	11.0	11.0	10.5	10.5	10.5	12.5	11.5
810627	12	10.0	10.0	10.0	9.5	9.5	9.5	9.5	9.0	9.0	9.0	8.5	8.5	8.5	10.0	9.3
810628	12	8.0	8.0	7.5	7.5	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	8.0	7.3
810629	12	7.0	7.0	7.0	7.0	7.0	7.0	7.0	6.5	6.5	6.5	6.5	6.5	6.5	7.0	6.8
810630	12	5.5	5.5	5.0	5.0	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.0	5.5	5.4
810701	12	5.5	5.5	5.5	5.0	5.5	6.0	6.5	6.0	6.0	6.5	6.5	7.0	5.0	7.0	6.0
810702	12	7.0	7.5	7.5	7.5	7.5	7.5	8.0	8.5	8.5	8.5	8.5	8.0	7.0	8.5	7.9
810703	12	8.0	7.5	7.5	7.5	8.0	9.0	9.0	9.0	9.0	9.0	9.0	8.5	7.5	9.0	8.4
810704	12	8.5	8.5	8.5	8.5	9.0	9.0	9.5	9.5	9.5	9.5	9.5	9.0	8.5	9.5	9.0
810705	12	9.0	9.0	9.0	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.0	9.5	9.4

Values = -.0 indicate missing data.

Table EC- 15. Daily thermograph statistics, lower Susitna River, 1981, above Fourth of July, R.M. 131.3, 30N/03W/03/DAB.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
810706	11	9.0	9.0	9.0	9.0	9.5	9.5	9.5	10.0	-.0	10.0	9.5	9.5	9.0	10.0	9.4
810707	12	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.0	8.5	8.5	9.5	9.4
810708	12	8.0	8.0	8.0	8.0	8.0	8.0	7.5	7.5	7.5	7.5	7.5	7.5	7.5	8.0	7.8
810709	12	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
810710	12	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
810711	12	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
810712	12	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
810713	12	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
810714	12	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.5	8.5	8.5	8.0	8.5	8.1
810715	12	8.5	8.5	8.5	9.0	9.5	10.5	10.5	10.5	10.0	10.0	9.5	9.5	8.5	10.5	9.5
810716	12	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.5	9.5	9.5	9.5	9.5	9.0	9.5	9.2
810717	12	9.5	9.5	9.5	9.5	9.5	9.5	9.5	10.0	10.5	10.5	10.5	10.5	9.5	10.5	9.9
810718	12	10.5	10.5	10.5	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.5	10.1
810719	12	10.5	10.5	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.5	10.1
810720	12	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
810721	11	10.0	9.5	9.5	9.5	9.5	9.5	-.0	10.0	10.0	10.0	10.0	10.5	9.5	10.5	9.8
810722	12	10.5	10.5	10.5	10.5	10.0	10.0	10.0	10.5	10.5	10.5	10.5	10.5	10.0	10.5	10.4
810723	12	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
810724	12	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
810725	12	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5

Values = -.0 indicate missing data.

Table EC- 15. Daily thermograph statistics, lower Susitna River, 1981, above Fourth of July, R.M. 131.3, 30N/03W/03/DAB.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
810726	12	10.5	10.5	10.5	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.5	10.1
810727	12	10.0	10.0	10.0	10.0	10.0	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.0	10.5	10.3
810728	12	10.5	10.5	10.5	10.5	10.5	10.5	10.0	10.0	10.5	10.5	10.5	10.5	10.0	10.5	10.4
810729	12	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
810730	12	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
810731	12	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
810801	12	10.5	10.5	10.5	10.0	10.0	10.0	10.0	10.0	10.0	9.5	9.5	9.5	9.5	10.5	10.0
810802	12	9.0	9.0	9.0	8.5	8.5	8.5	9.0	9.0	9.0	9.0	9.0	9.0	8.5	9.0	8.9
810803	12	9.0	9.0	9.0	8.5	8.5	9.0	9.0	9.5	9.5	9.5	9.5	9.5	8.5	9.5	9.1
810804	12	9.5	9.5	9.5	9.5	9.5	9.5	9.5	10.0	10.0	10.5	10.5	10.5	9.5	10.5	9.8
810805	12	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
810806	12	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
810807	12	10.5	10.5	10.5	10.5	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.5	9.5	10.5	10.1
810808	12	9.5	9.5	9.5	9.5	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.5	9.5	10.0	9.8
810809	12	9.5	9.5	9.5	9.0	9.0	9.0	9.0	9.0	9.0	9.5	9.5	9.5	9.0	9.5	9.3
810810	12	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.0	9.0	9.5	9.5
810811	11	9.0	9.0	9.0	8.5	8.5	8.5	8.5	8.5	-.0	8.5	8.5	8.5	8.5	9.0	8.6
810812	12	8.5	8.5	8.5	8.5	8.5	8.5	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.5	8.3
810813	12	8.0	8.0	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	8.0	7.6
810814	12	7.5	7.5	7.5	7.5	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.5	7.2

Values = -.0 indicate missing data.

Table EC- 15. Daily thermograph statistics, lower Susitna River, 1981, above Fourth of July, R.M. 131.3, 30N/03W/03/DAB.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
810815	12	7.0	7.0	7.0	7.0	7.0	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	7.0	6.7
810816	12	6.0	6.0	6.0	6.0	5.5	5.5	5.5	5.5	5.5	6.0	5.5	5.5	5.5	6.0	5.7
810817	12	5.5	5.5	5.0	5.0	5.0	5.0	5.5	5.5	5.5	5.5	5.5	5.5	5.0	5.5	5.3
810818	12	5.5	5.5	5.5	5.5	6.0	6.5	6.5	6.5	6.5	6.5	6.5	6.5	5.5	6.5	6.1
810819	12	6.5	6.5	6.5	6.5	6.5	6.5	6.5	7.0	7.0	7.0	7.0	7.0	6.5	7.0	6.7
810820	12	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
810821	12	7.0	7.0	6.5	6.5	6.5	7.0	7.0	7.0	7.0	7.0	7.0	7.0	6.5	7.0	6.9
810822	12	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
810823	12	7.0	7.0	7.0	7.0	7.0	7.0	7.5	7.5	7.5	7.5	7.5	7.5	7.0	7.5	7.3
810824	12	7.5	7.5	7.5	7.0	7.0	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.0	7.5	7.4
810825	5	7.5	7.5	7.5	7.5	7.5	-.0	-.0	-.0	-.0	-.0	-.0	-.0	7.5	7.5	7.5
810827	4	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	11.5	11.5	11.5	11.5	11.5	11.5	11.5
810828	12	11.5	11.5	11.5	11.5	11.5	12.0	12.0	12.0	12.0	12.0	12.0	11.5	11.5	12.0	11.8
810829	12	11.5	11.5	11.5	11.5	11.5	11.0	11.0	11.0	11.0	10.5	10.5	10.5	10.5	11.5	11.1
810830	12	10.5	10.5	10.5	10.5	10.5	10.5	11.0	11.0	11.0	11.0	10.5	10.5	10.5	11.0	10.7
810831	12	10.5	10.5	10.5	10.5	10.5	10.5	11.0	11.0	11.0	11.0	10.5	10.5	10.5	11.0	10.7
810901	12	10.0	10.0	9.5	9.5	9.5	9.5	10.0	10.0	9.5	9.5	9.0	9.0	9.0	10.0	9.6
810902	12	9.0	9.0	9.0	9.0	8.5	8.5	8.5	8.5	8.0	8.0	8.0	8.0	8.0	9.0	8.5
810903	12	8.0	8.0	8.0	8.0	8.0	8.5	8.5	8.5	8.5	8.0	8.0	8.0	8.0	8.5	8.2
810904	4	8.0	7.5	7.5	8.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	7.5	8.0	7.8

Values = -.0 indicate missing data.

Table EC- 15. Daily thermograph statistics, lower Susitna River, 1981, above Fourth of July, R.M. 131.3, 30N/03W/03/DAB.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
810907	4	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	8.5	8.0	7.5	7.5	7.5	8.5	7.9
810908	12	7.5	7.5	7.5	7.5	7.5	7.5	8.0	8.0	8.0	7.5	7.5	7.0	7.0	8.0	7.6
810909	12	7.0	6.5	6.5	6.5	7.0	7.0	8.0	8.0	7.5	7.0	7.0	7.0	6.5	8.0	7.1
810910	12	7.0	7.0	7.0	7.0	7.5	7.5	8.0	8.0	8.0	7.5	7.5	7.0	7.0	8.0	7.4
810911	12	7.0	7.0	7.0	7.0	7.5	8.0	8.0	8.0	7.5	7.5	7.0	7.0	7.0	8.0	7.4
810912	12	7.0	7.0	7.0	7.0	7.5	8.0	8.0	8.0	8.0	7.5	7.5	7.5	7.0	8.0	7.5
810913	12	7.5	7.5	7.0	7.0	7.5	8.0	8.0	8.0	7.5	7.0	7.0	7.0	7.0	8.0	7.4
810914	12	6.5	6.0	6.0	6.0	7.0	7.0	8.0	8.0	8.0	8.0	8.0	8.0	6.0	8.0	7.2
810915	12	8.0	8.5	8.5	9.0	9.0	9.0	7.0	7.0	7.0	7.0	6.5	6.5	6.5	9.0	7.8
810916	12	6.5	6.0	6.0	6.0	6.5	7.5	7.5	7.5	7.0	7.0	7.0	7.0	6.0	7.5	6.8
810917	12	7.0	7.0	6.5	6.5	7.0	7.5	8.0	8.0	8.0	7.5	7.0	7.0	6.5	8.0	7.3
810918	12	7.0	7.0	7.0	7.0	7.0	7.5	8.0	8.0	7.5	7.5	7.0	7.0	7.0	8.0	7.3
810919	12	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
810920	12	7.0	6.5	6.5	6.5	6.5	7.0	7.0	7.0	7.0	7.0	6.5	6.0	6.0	7.0	6.7
810921	12	6.0	6.0	6.0	6.0	6.0	6.5	6.5	7.0	7.0	6.5	6.0	6.0	6.0	7.0	6.3
810922	12	5.5	5.5	5.0	5.0	5.0	6.0	6.5	6.5	6.0	5.5	5.0	5.0	5.0	6.5	5.5
810923	12	5.0	5.0	4.5	4.5	5.0	5.0	5.0	5.0	5.0	4.5	4.0	4.0	4.0	5.0	4.7
810924	12	4.0	4.0	4.0	4.0	4.0	4.5	4.5	4.5	4.0	4.0	3.5	3.0	3.0	4.5	4.0
810925	12	3.0	3.0	3.0	3.0	3.0	3.5	4.5	4.5	4.0	4.0	3.5	3.0	3.0	4.5	3.5
810926	12	3.0	2.5	2.5	2.0	2.5	3.0	4.0	4.0	3.5	3.0	3.0	3.0	2.0	4.0	3.0

Values = -.0 indicate missing data.

Table EC- 15. Daily thermograph statistics, lower Susitna River, 1981, above Fourth of July, R.M. 131.3, 30N/03W/03/DAB.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
810927	12	2.5	2.5	2.0	2.0	2.5	2.5	3.0	3.0	3.0	2.5	2.0	2.0	2.0	3.0	2.5
810928	7	2.0	1.5	1.0	1.0	1.0	1.5	2.0	-.0	-.0	-.0	-.0	-.0	1.0	2.0	1.4

Values = -.0 indicate missing data.

Table EC- 16. Daily thermograph statistics, lower Susitna River, 1981, Gold Creek, R.M. 136.8, 31N/02W/20/BAA.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
810724	3	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	9.0	9.0	8.5	8.5	9.0	8.8
810725	12	8.5	8.5	8.5	8.5	8.5	9.0	9.5	9.5	9.5	9.0	8.5	8.5	8.5	9.5	8.8
810726	12	8.0	8.0	8.0	8.0	8.5	8.5	8.5	9.0	9.0	8.5	8.5	8.0	8.0	9.0	8.4
810727	12	7.5	7.5	7.5	7.5	8.0	8.5	9.0	9.5	9.0	9.0	8.5	8.0	7.5	9.5	8.3
810728	12	8.0	8.0	7.5	7.5	8.0	8.0	8.0	8.5	8.5	8.0	8.0	8.0	7.5	8.5	8.0
810729	12	8.0	8.0	8.0	8.0	8.0	8.5	9.0	9.5	9.0	8.5	8.5	8.5	8.0	9.5	8.5
810730	12	8.0	8.0	8.0	8.0	8.0	8.5	8.5	9.0	9.0	8.5	8.5	8.5	8.0	9.0	8.4
810731	12	8.0	8.0	8.0	8.0	8.0	8.5	8.5	9.0	9.0	8.5	8.5	8.5	8.0	9.0	8.4
810801	12	8.5	8.5	8.5	8.5	8.5	9.0	9.0	9.0	9.0	9.0	9.0	9.0	8.5	9.0	8.8
810802	12	9.0	8.5	8.5	8.5	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	8.5	9.0	8.9
810803	12	9.0	8.5	8.5	8.5	9.0	9.5	9.5	9.5	9.5	9.5	9.5	9.5	8.5	9.5	9.2

Values = -.0 indicate missing data.

Table EC- 17. Daily thermograph statistics, lower Susitna River, 1981, above Gold Creek, R.M. 136.8, 31N/02W/20/BAA.

DATE	# OBS.	TEMPERATURE AT TIME 0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400	MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
810724	4	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	11.0	10.5	10.5	10.5	10.5	11.0	10.6
810725	12	10.5	10.5	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.5	10.1
810726	12	10.0	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	10.0	9.5
810727	12	9.5	9.5	9.5	9.5	9.5	9.5	9.5	10.0	10.0	10.0	10.0	10.0	9.5	10.0	9.7
810728	12	10.0	10.0	9.5	9.5	9.5	9.5	9.5	9.5	9.0	9.0	9.0	9.0	9.0	10.0	9.4
810729	12	9.0	9.0	9.0	9.0	9.5	9.5	10.0	9.5	9.5	9.5	9.0	9.0	9.0	10.0	9.3
810730	12	8.5	8.0	8.5	8.5	9.0	9.5	9.5	10.0	10.0	10.0	9.5	9.5	8.0	10.0	9.2
810731	6	9.5	9.5	9.0	9.0	9.0	9.5	-.0	-.0	-.0	-.0	-.0	-.0	9.0	9.5	9.3
810801	9	-.0	-.0	-.0	8.5	8.5	9.0	9.0	9.0	9.0	9.0	9.0	9.0	8.5	9.0	8.9
810802	12	9.0	9.0	8.5	8.5	8.5	8.5	8.5	8.5	8.5	9.0	9.0	9.0	8.5	9.0	8.7
810803	11	9.0	9.0	8.5	8.5	8.5	8.5	9.0	9.0	9.5	9.5	9.5	-.0	8.5	9.5	9.0
810807	7	-.0	-.0	-.0	-.0	-.0	8.5	9.0	9.0	9.0	8.5	8.5	8.5	8.5	9.0	8.7
810808	12	8.5	8.5	8.0	8.0	8.5	8.5	9.0	9.5	9.5	9.0	9.0	9.0	8.0	9.5	8.8
810809	12	9.0	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	9.0	9.0	9.0	8.5	9.0	8.7
810810	12	9.0	8.5	8.5	8.5	8.5	9.0	9.0	9.0	9.0	9.0	8.5	8.5	8.5	9.0	8.8
810811	12	8.5	8.5	8.5	8.0	8.0	8.0	8.0	8.0	8.5	8.5	8.5	8.5	8.0	8.5	8.3
810812	12	8.5	8.5	8.5	8.5	8.5	8.5	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.5	8.3
810813	12	8.0	8.0	8.0	8.0	8.0	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	8.0	7.7
810814	12	7.5	7.5	7.5	7.0	7.0	7.0	7.0	7.0	7.5	7.5	7.0	7.0	7.0	7.5	7.2
810815	9	7.0	7.0	7.0	7.0	6.5	6.5	-.0	-.0	-.0	7.0	7.0	6.5	6.5	7.0	6.8

Values = -.0 indicate missing data.

Table EC- 17. Daily thermograph statistics, lower Susitna River, 1981, above Gold Creek, R.M. 136.8, 31N/02W/20/BAA.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
810816	12	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
810817	6	6.0	6.0	5.5	5.5	5.5	5.5	-.0	-.0	-.0	-.0	-.0	-.0	5.5	6.0	5.7
810821	9	-.0	-.0	-.0	7.0	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.0	7.5	7.4
810822	12	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	8.0	8.0	8.0	8.0	7.5	8.0	7.7
810823	6	7.5	7.5	7.5	-.0	-.0	-.0	-.0	-.0	-.0	8.5	8.5	8.5	7.5	8.5	8.0
810824	12	8.0	8.0	8.0	7.5	7.5	7.5	7.5	8.0	8.0	8.0	8.0	8.0	7.5	8.0	7.8
810825	12	8.5	8.5	8.5	8.0	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.0	8.5	8.5
810826	12	9.0	9.0	9.0	9.0	9.0	9.0	9.5	10.5	10.5	10.5	9.5	9.5	9.0	10.5	9.5
810827	12	9.5	9.5	9.5	9.5	10.0	10.5	10.5	11.0	11.0	11.0	11.0	11.0	9.5	11.0	10.3
810828	12	11.0	11.0	11.0	11.0	11.0	11.0	11.5	11.5	11.5	11.5	11.5	11.5	11.0	11.5	11.3
810829	12	11.5	11.5	11.5	11.5	11.0	11.0	10.5	10.5	10.5	10.5	10.0	10.0	10.0	11.5	10.8
810830	11	10.0	10.0	10.0	10.5	10.5	10.5	10.5	10.5	-.0	10.0	10.0	10.0	10.0	10.5	10.2
810831	12	10.0	10.0	9.5	9.5	9.5	10.0	10.0	10.0	10.0	9.5	9.0	9.0	9.0	10.0	9.7
810901	12	9.0	8.5	8.0	8.0	8.0	8.5	8.5	8.5	8.0	8.0	8.0	8.0	8.0	9.0	8.3
810902	12	8.0	8.0	8.0	8.0	7.5	7.5	7.5	7.5	7.5	7.0	7.0	7.0	7.0	8.0	7.5
810903	12	7.0	7.0	7.0	7.0	7.0	7.5	7.5	7.5	7.5	7.0	7.0	7.0	7.0	7.5	7.2
810904	12	7.0	7.0	7.0	7.0	7.0	7.5	7.5	8.0	7.5	7.0	7.0	7.0	7.0	8.0	7.2
810905	12	7.0	7.0	7.0	7.0	7.0	7.5	7.5	7.5	7.5	7.0	7.0	7.0	7.0	7.5	7.2
810906	12	6.5	6.5	6.5	6.5	7.0	8.0	8.0	7.5	7.0	7.0	6.0	5.0	5.0	8.0	6.8
810907	12	4.0	4.5	5.0	5.5	6.0	6.5	8.0	7.5	7.0	6.5	6.0	6.0	4.0	8.0	6.0

Values = -.0 indicate missing data.

Table EC- 17. Daily thermograph statistics, lower Susitna River, 1981, above Gold Creek, R.M. 136.8, 31N/02W/20/BAA.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
810908	12	6.0	6.0	6.0	6.0	6.0	6.5	7.0	7.5	7.0	6.0	4.0	3.0	3.0	7.5	5.9
810909	3	2.0	0.0	0.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	0.0	2.0	.7
810910	12	5.5	5.5	5.5	5.5	6.0	6.5	7.0	7.0	6.5	6.0	6.0	6.0	5.5	7.0	6.1
810911	12	6.0	6.0	6.0	6.0	6.0	7.0	7.0	6.5	6.5	6.0	6.0	6.0	6.0	7.0	6.3
810912	12	6.0	6.0	6.0	6.0	6.0	6.0	6.5	6.5	6.0	5.5	5.0	5.0	5.0	6.5	5.9
810913	12	5.0	5.0	5.0	5.5	6.0	6.0	7.0	6.5	6.0	5.5	5.0	5.0	5.0	7.0	5.6
810914	12	4.5	4.0	4.0	4.5	5.0	6.0	6.5	6.0	5.5	5.0	4.5	4.5	4.0	6.5	5.0
810915	9	4.5	4.5	4.5	5.0	5.5	6.0	6.5	7.0	6.0	-.0	-.0	-.0	4.5	7.0	5.5
810916	3	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	6.5	6.5	6.5	6.5	6.5	6.5
810917	12	6.0	6.0	6.0	6.0	6.5	6.5	6.5	7.0	7.0	6.5	6.5	6.0	6.0	7.0	6.4
810918	12	6.0	6.0	6.0	6.0	6.0	6.5	6.5	6.5	6.5	6.5	6.5	6.0	6.0	6.5	6.3
810919	12	6.0	6.0	6.0	6.0	6.0	6.0	6.5	6.5	6.5	6.5	6.5	6.0	6.0	6.5	6.2
810920	11	6.0	6.0	6.0	5.5	-.0	5.5	6.0	6.0	6.0	6.0	6.0	6.0	5.5	6.0	5.9
810921	12	6.0	6.0	5.5	5.5	5.0	5.5	5.5	6.0	6.0	5.5	5.5	5.0	5.0	6.0	5.6
810922	12	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.5	4.5	4.5	5.0	4.9
810923	12	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.0	4.0	3.5	3.5	3.5	4.5	4.3
810924	12	3.5	3.5	3.5	3.5	3.0	3.0	3.0	3.0	2.5	2.5	2.5	2.0	2.0	3.5	3.0
810925	12	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.0	3.0	3.0	2.5	2.5	2.5	3.0	2.6
810926	12	2.0	2.0	2.0	1.5	1.5	1.5	1.5	1.5	1.5	1.0	1.0	.5	.5	2.0	1.5
810927	12	.5	.5	.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.5	.1

Values = -.0 indicate missing data.

Table EC- 17. Daily thermograph statistics, lower Susitna River, 1981, above Gold Creek, R.M. 136.8, 31N/02W/20/BAA.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
810928	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.0
810929	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-.0	-.0	-.0	0.0	0.0	.0

Values = -.0 indicate missing data.

Table EC- 18. Daily thermograph statistics, lower Susitna River, 1981, Indian River, R.M. 138.7, 31N/02W/09/CDA.

DATE	# OBS.	TEMPERATURE AT TIME 0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400	MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
810718	3	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	8.5	8.0	7.5	7.5	8.5	8.0
810719	12	7.5	7.5	7.5	7.5	7.5	8.0	8.0	8.5	9.0	8.5	8.5	8.0	7.5	9.0	8.0
810720	12	8.0	8.0	7.5	7.5	7.5	8.0	8.5	8.5	8.5	8.5	8.5	8.0	7.5	8.5	8.1
810721	12	8.0	7.5	7.5	7.5	8.0	8.5	9.0	9.0	9.0	8.0	8.5	8.5	7.5	9.0	8.3
810722	12	8.0	8.0	8.0	8.0	8.0	8.0	8.5	9.0	9.0	9.0	8.5	8.5	8.0	9.0	8.4
810723	12	8.5	8.0	8.0	8.0	10.0	8.5	9.0	9.5	10.0	9.5	9.0	8.5	8.0	10.0	8.9
810724	12	8.5	8.5	8.5	8.5	8.5	9.5	10.5	10.5	10.0	9.5	9.0	9.0	8.5	10.5	9.2
810725	12	8.5	8.5	8.5	8.5	8.5	8.5	9.0	9.5	9.5	9.5	9.5	9.0	8.5	9.5	8.9
810726	12	8.5	8.5	8.0	8.5	8.5	8.5	9.0	9.0	9.5	9.0	8.5	8.5	8.0	9.5	8.7
810727	12	8.0	8.0	8.0	8.0	8.5	9.5	10.0	10.0	10.0	10.0	9.5	9.0	8.0	10.0	9.0
810801	9	-.0	-.0	-.0	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
810802	12	8.5	8.0	8.0	8.0	8.0	8.0	8.5	8.5	8.5	8.5	8.5	8.0	8.0	8.5	8.3
810803	12	8.0	8.0	7.5	7.5	8.0	8.5	9.5	10.0	10.0	9.5	9.0	8.5	7.5	10.0	8.7
810804	12	8.0	7.5	7.5	7.5	7.5	8.5	9.5	10.5	10.5	10.0	9.5	9.0	7.5	10.5	8.8
810805	12	8.5	8.0	7.5	8.0	8.5	9.5	10.0	10.0	10.0	9.5	9.5	9.0	7.5	10.0	9.0
810806	12	8.5	8.5	8.0	8.0	8.5	8.5	9.0	9.5	9.5	9.5	9.0	9.0	8.0	9.5	8.8
810807	12	8.5	8.5	8.0	8.0	8.0	8.5	9.0	9.5	9.5	9.0	9.0	8.5	8.0	9.5	8.7
810808	12	8.5	8.5	8.5	8.5	8.5	9.5	9.5	10.5	10.5	10.0	9.5	9.0	8.5	10.5	9.3
810809	12	9.0	8.5	8.5	8.5	8.5	9.0	9.5	9.5	9.5	9.0	9.0	9.0	8.5	9.5	9.0
810810	12	8.5	8.5	8.5	8.5	8.5	8.5	9.0	9.0	9.0	9.0	9.0	8.5	8.5	9.0	8.7

Values = -.0 indicate missing data.

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Table EC- 18. Daily thermograph statistics, lower Susitna River, 1981, Indian River, R.M. 138.7, 31N/02W/09/CDA.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
810811	6	8.5	8.0	8.0	8.0	8.0	8.5	-.0	-.0	-.0	-.0	-.0	-.0	8.0	8.5	8.2
810812	3	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	8.0	8.0	8.0	8.0	8.0	8.0
810813	12	7.5	7.5	7.5	7.5	7.5	7.5	8.0	8.0	8.0	7.5	7.5	7.5	7.5	8.0	7.6
810814	12	7.5	7.0	7.0	7.0	7.0	7.0	7.5	7.5	7.5	7.5	7.0	7.0	7.0	7.5	7.2
810815	12	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
810816	12	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.5	7.5	7.0	7.5	7.1
810817	6	7.5	7.5	7.5	7.5	7.5	7.5	-.0	-.0	-.0	-.0	-.0	-.0	7.5	7.5	7.5
810818	7	-.0	-.0	-.0	-.0	-.0	7.5	8.0	7.5	7.5	7.5	7.5	7.5	7.5	8.0	7.6
810819	12	7.0	7.0	7.0	7.0	7.0	7.5	7.5	7.5	7.5	7.5	7.5	7.0	7.0	7.5	7.3
810820	12	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
810821	12	7.0	6.5	6.5	6.5	7.0	7.5	8.5	8.5	8.5	8.5	8.0	7.5	6.5	8.5	7.5
810822	12	7.5	7.5	7.5	7.0	7.0	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.0	7.5	7.4
810823	12	7.5	7.0	7.0	7.0	7.0	7.5	8.5	8.5	8.5	8.0	7.5	7.5	7.0	8.5	7.6
810824	4	7.0	7.5	7.5	7.5	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	7.0	7.5	7.4
810825	8	7.5	7.0	7.0	7.0	7.5	7.5	8.5	9.0	-.0	-.0	-.0	-.0	7.0	9.0	7.6
810912	12	6.0	6.0	6.0	6.0	6.0	6.5	6.5	6.5	7.0	6.5	6.0	6.0	6.0	7.0	6.3
810913	12	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	5.5	5.5	6.0	6.0
810914	12	5.5	5.0	5.0	5.0	5.5	5.5	6.0	6.0	5.5	5.0	5.0	5.0	5.0	6.0	5.3
810915	12	5.0	5.0	5.0	5.0	5.5	5.5	6.0	6.0	6.0	6.0	5.5	5.5	5.0	6.0	5.5
810916	12	5.5	5.5	5.5	5.5	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	5.5	6.0	5.8

Values = -.0 indicate missing data.

Table EC- 18. Daily thermograph statistics, lower Susitna River, 1981, Indian River, R.M. 138.7, 31N/02W/09/CDA.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
810917	12	6.0	6.0	6.0	6.0	6.0	6.5	7.0	6.5	6.0	6.0	6.0	6.0	6.0	7.0	6.2
810918	12	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
810919	12	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
810920	12	6.0	6.0	5.5	5.5	6.0	6.0	6.0	6.0	6.0	6.0	5.5	5.5	5.5	6.0	5.8
810921	12	5.5	5.5	5.5	5.0	5.5	6.0	6.0	6.0	5.5	5.5	5.0	5.0	5.0	6.0	5.5
810922	12	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
810923	12	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
810924	12	5.0	5.0	4.5	4.5	4.5	4.5	4.5	5.0	4.0	4.0	4.0	4.0	4.0	5.0	4.5
810925	4	3.5	3.5	3.5	3.5	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	3.5	3.5	3.5

Values = -.0 indicate missing data.

Table EC- 19. Daily thermograph statistics, lower Susitna River, 1981, above Indian River, R.M. 138.7, 31N/02W/09/DCB.

DATE	# OBS.	TEMPERATURE AT TIME 0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400	MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
810719	6	-.0	-.0	-.0	-.0	-.0	-.0	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
810720	12	9.5	9.5	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	8.5	8.5	8.5	9.5	9.0
810721	12	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	9.0	9.0	9.0	8.5	9.0	8.6
810722	12	9.0	9.0	9.0	9.0	9.0	9.0	9.5	9.5	9.5	9.5	9.5	9.5	9.0	9.5	9.3
810723	12	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
810724	12	9.5	9.5	9.5	9.5	9.5	9.5	10.0	10.0	9.5	9.5	9.5	9.5	9.5	10.0	9.6
810725	12	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
810726	12	9.5	9.0	9.0	9.0	8.5	8.5	9.0	9.0	9.0	9.0	9.0	9.0	8.5	9.5	9.0
810727	12	9.0	9.0	9.0	9.0	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.0	9.5	9.3
810728	12	9.0	9.0	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.0	8.0	8.0	8.0	9.0	8.5
810729	5	8.0	8.0	8.0	8.0	8.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	8.0	8.0	8.0
810801	7	-.0	-.0	-.0	-.0	-.0	8.5	8.5	8.5	8.5	8.0	8.0	7.5	7.5	8.5	8.2
810802	12	7.5	7.5	7.0	7.0	7.0	7.5	7.5	7.5	7.5	8.0	8.0	8.0	7.0	8.0	7.5
810803	12	7.5	7.5	7.5	7.5	7.5	8.0	8.5	8.5	8.5	8.5	8.5	8.5	7.5	8.5	8.0
810804	12	8.5	8.0	8.0	8.0	8.0	8.5	9.0	9.5	9.0	9.0	8.5	8.5	8.0	9.5	8.5
810805	4	8.5	8.5	8.5	8.5	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	8.5	8.5	8.5
810808	3	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	8.5	8.5	8.5	8.5	8.5	8.5
810809	12	8.5	8.5	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.5	8.1
810810	12	8.0	8.0	8.0	8.0	8.0	8.0	8.5	8.5	8.5	8.0	8.0	8.0	8.0	8.5	8.1
810811	12	8.0	8.0	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	8.0	7.6

Values = -.0 indicate missing data.

Table EC- 19. Daily thermograph statistics, lower Susitna River, 1981, above Indian River, R.M. 138.7, 31N/02W/09/DCB.

DATE	# OBS.	TEMPERATURE AT TIME 0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400	MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
810812	12	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
810813	12	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
810814	12	7.0	7.0	7.0	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	7.0	6.6
810815	12	6.5	6.5	6.5	6.5	6.5	6.0	6.0	6.0	6.0	6.0	6.0	5.5	5.5	6.5	6.2
810816	12	5.5	5.5	5.5	5.5	5.0	5.0	5.0	5.5	5.5	5.5	5.5	5.5	5.0	5.5	5.4
810817	12	5.0	5.0	4.5	4.5	4.5	5.0	5.5	5.5	5.5	5.5	5.5	5.5	4.5	5.5	5.1
810818	12	5.5	5.5	5.5	5.5	6.0	6.5	6.5	6.5	6.5	6.5	6.5	6.5	5.5	6.5	6.1
810819	4	6.5	6.5	6.5	6.5	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	6.5	6.5	6.5
810820	11	-.0	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
810821	12	6.5	6.5	6.0	6.0	6.5	6.5	6.5	7.0	7.0	7.0	7.0	7.0	6.0	7.0	6.6
810822	12	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
810823	12	7.0	6.5	6.5	6.5	6.5	7.0	7.5	7.5	7.0	7.0	7.0	6.5	6.5	7.5	6.9
810824	12	6.5	6.5	6.0	6.5	7.5	7.5	7.5	7.5	7.5	7.0	7.0	7.0	6.0	7.5	7.0
810825	11	7.0	7.0	7.0	7.0	7.5	7.5	7.5	7.5	-.0	8.0	8.0	8.0	7.0	8.0	7.5
810826	12	8.5	8.5	8.0	8.0	8.5	8.5	9.0	9.0	9.5	9.5	9.5	9.5	8.0	9.5	8.8
810827	12	9.5	9.0	9.0	9.0	9.0	9.5	9.5	10.0	10.0	10.0	10.0	10.0	9.0	10.0	9.5
810828	12	10.0	10.0	9.5	9.5	9.5	10.0	10.5	10.5	10.5	10.5	10.5	10.5	9.5	10.5	10.1
810829	12	10.0	10.0	10.0	10.0	9.5	9.5	9.5	9.5	9.5	9.5	9.0	9.0	9.0	10.0	9.6
810830	12	9.0	9.0	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.0	9.0	9.0	9.5	9.3
810831	11	9.0	8.5	8.5	8.5	-.0	10.0	10.0	10.0	10.0	10.0	9.5	9.5	8.5	10.0	9.4

Values = -.0 indicate missing data.

Table EC- 19. Daily thermograph statistics, lower Susitna River, 1981, above Indian River, R.M. 138.7, 31N/02W/09/DCB.

DATE	# OBS.	TEMPERATURE AT TIME 0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400	MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
810901	12	9.0	9.0	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.0	8.0	8.0	8.0	9.0	8.5
810902	12	8.0	8.0	8.0	8.0	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	8.0	7.7
810903	12	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
810904	12	7.5	7.5	7.5	7.5	7.5	7.5	8.0	8.0	8.0	8.0	7.5	7.5	7.5	8.0	7.7
810905	12	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
810906	12	7.5	7.5	7.5	7.5	7.5	8.0	8.0	7.5	7.5	7.0	7.0	7.0	7.0	8.0	7.5
810907	12	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
810908	12	7.0	7.0	7.0	6.5	6.5	6.5	7.0	7.0	7.0	7.0	6.5	6.5	6.5	7.0	6.8
810909	12	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
810910	12	6.0	6.0	6.0	6.0	6.0	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.0	6.5	6.3
810911	12	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.0	6.0	6.0	6.5	6.4
810925	12	3.5	3.5	3.5	3.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.5	3.2
810926	12	2.5	2.5	2.0	2.0	2.0	2.0	2.5	2.5	2.0	1.5	1.5	1.5	1.5	2.5	2.0
810927	12	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.0	1.0	1.0	1.0	1.5	1.2
810928	12	1.0	1.0	1.0	1.0	1.0	.5	.5	0.0	0.0	0.0	.5	1.0	0.0	1.0	.6
810929	7	1.0	1.0	1.0	1.0	1.0	1.5	2.0	-.0	-.0	-.0	-.0	-.0	1.0	2.0	1.2

Values = -.0 indicate missing data.

Table EC- 20. Daily thermograph statistics, lower Susitna River, 1981, Slough 19, R.M. 140.0, 31N/11W/10/DBB.

DATE	# OBS.	TEMPERATURE AT TIME 0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400	MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
810827	1	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	5.0	5.0	5.0	5.0
810828	12	4.5	4.5	4.5	4.5	4.5	4.5	5.0	5.0	6.0	6.5	6.0	5.0	4.5	6.5	5.0
810829	12	5.0	4.5	4.5	4.5	4.5	4.5	5.0	5.0	5.0	5.0	5.0	5.0	4.5	5.0	4.8
810830	12	5.0	4.5	4.5	4.5	4.5	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.5	5.0	4.8
810831	12	4.5	4.5	4.5	4.5	4.5	5.0	5.0	6.0	6.0	6.5	5.5	4.5	4.5	6.5	5.1
810901	12	4.0	4.0	4.0	4.0	4.0	4.0	4.5	5.0	5.5	6.0	5.5	5.0	4.0	6.0	4.6
810902	12	4.0	4.0	4.0	4.0	4.0	4.5	4.5	5.0	5.5	5.5	5.0	4.5	4.0	5.5	4.5
810903	12	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5.0	5.5	6.0	6.0	5.0	4.5	6.0	4.9
810904	12	4.5	4.5	4.5	4.5	4.5	5.0	6.0	6.0	6.0	5.5	5.0	5.0	4.5	6.0	5.1
810905	12	4.5	4.5	4.5	4.5	5.0	5.0	5.5	5.5	5.5	5.0	4.5	4.5	4.5	5.5	4.9
810906	12	4.5	4.0	4.0	4.0	4.0	4.0	4.5	5.0	5.5	5.0	4.5	4.5	4.0	5.5	4.5
810907	12	4.0	3.5	3.5	3.5	4.0	4.0	4.5	5.5	6.0	5.5	5.0	4.5	3.5	6.0	4.5
810908	12	4.5	5.0	5.0	4.5	4.5	4.5	5.0	6.0	7.0	6.0	5.0	4.0	4.0	7.0	5.1
810909	12	4.0	3.5	3.5	3.5	4.0	5.0	6.0	6.5	6.0	5.5	5.0	5.0	3.5	6.5	4.8
810910	12	5.0	5.0	5.0	5.0	5.0	5.5	6.0	6.0	6.0	5.5	5.0	4.5	4.5	6.0	5.3
810911	12	4.5	4.0	4.0	4.0	4.0	4.5	5.0	6.0	6.0	6.0	6.0	5.0	4.0	6.0	4.9
810912	12	5.0	5.0	4.5	4.0	4.0	4.0	4.0	5.0	5.5	6.0	5.5	5.0	4.0	6.0	4.8
810913	3	4.5	4.0	4.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	4.0	4.5	4.2

Values = -.0 indicate missing data.

Table EC- 21. Daily thermograph statistics, lower Susitna River, 1981, Slough 21 (Intergravel), R.M. 142.0, 31N/11W/02/AAA.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
810827	12	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
810828	12	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
810829	12	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
810830	12	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
810831	12	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
810901	12	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
810902	12	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
810903	12	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
810904	12	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
810905	12	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
810906	12	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
810907	12	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
810908	12	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
810909	12	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
810910	12	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
810911	12	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
810912	12	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
810913	12	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
810914	12	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
810915	12	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0

Values = -.0 indicate missing data.

Table EC- 21. Daily thermograph statistics, lower Susitna River, 1981, Slough 21 (Intergravel), R.M. 142.0, 31N/11W/02/AAA.

DATE	# OBS.	TEMPERATURE AT TIME 0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400	MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
810916	12	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
810917	12	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
810918	12	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
810919	12	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
810920	12	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
810921	12	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
810922	12	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
810923	12	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
810924	12	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
810925	12	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
810926	12	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
810927	12	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
810928	12	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
810929	5	3.0	3.0	3.0	3.0	3.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	3.0	3.0	3.0

Values = -.0 indicate missing data.

Table EC- 22. Daily thermograph statistics, lower Susitna River, 1981, Slough 21, R.M. 142.0, 31N/11W/02/AAA.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
810828	12	5.0	5.0	5.0	5.0	5.5	5.5	8.0	9.0	8.5	7.0	6.0	5.5	5.0	9.0	6.3
810829	12	5.0	5.0	5.0	5.0	5.5	6.0	6.0	6.0	5.5	5.5	5.5	5.5	5.0	6.0	5.5
810830	12	5.5	5.5	5.5	5.5	5.5	6.0	6.5	5.5	5.0	5.0	5.5	5.0	5.0	6.5	5.5
810831	12	5.0	5.0	5.0	5.0	5.5	6.5	7.0	8.5	8.0	6.0	5.5	5.0	5.0	8.5	6.0
810901	12	4.5	4.5	4.5	4.5	4.5	4.5	6.5	8.0	8.0	6.5	5.5	5.0	4.5	8.0	5.5
810902	12	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.5	6.0	6.5	6.0	5.5	5.0	6.5	5.4
810903	12	5.5	5.5	5.0	5.0	5.0	5.5	6.0	6.0	7.0	6.0	5.5	5.5	5.0	7.0	5.6
810904	12	5.0	5.0	5.0	5.0	5.5	5.5	6.5	7.0	7.0	6.0	6.0	5.0	5.0	7.0	5.7
810905	12	5.5	5.5	5.5	5.5	5.5	6.5	7.0	7.0	6.0	6.0	5.0	5.0	5.0	7.0	5.8
810906	12	5.0	5.0	5.0	5.0	5.0	5.5	7.0	6.5	6.0	6.0	5.0	5.0	5.0	7.0	5.5
810907	12	5.0	4.5	4.5	4.5	4.5	5.0	6.0	7.0	6.5	6.0	5.5	5.0	4.5	7.0	5.3
810908	12	5.0	5.0	5.0	5.0	5.5	5.0	6.5	8.5	8.0	6.0	5.0	5.0	5.0	8.5	5.8
810909	12	4.5	4.5	4.5	4.5	5.0	5.0	6.5	7.0	6.0	6.0	5.5	5.5	4.5	7.0	5.4
810910	12	5.5	5.5	5.5	5.0	5.5	6.0	6.5	6.5	6.0	5.5	5.0	5.0	5.0	6.5	5.6
810911	12	5.0	5.0	5.0	5.0	5.5	6.0	6.0	6.0	6.5	6.0	6.0	6.0	5.0	6.5	5.7
810912	12	5.0	5.0	5.0	5.0	5.0	5.0	6.0	7.0	7.0	6.0	5.5	5.0	5.0	7.0	5.5
810913	12	5.0	5.0	5.0	5.0	5.0	5.5	6.0	6.5	7.0	6.0	5.5	5.5	5.0	7.0	5.6
810914	12	4.5	4.5	4.5	4.5	4.5	5.0	6.0	6.5	6.5	5.5	5.0	5.0	4.5	6.5	5.2
810915	12	4.5	4.5	4.5	4.5	5.0	5.5	6.5	7.0	6.0	6.0	5.0	5.0	4.5	7.0	5.3
810916	12	5.0	5.0	5.0	5.0	5.0	5.5	6.0	7.0	7.0	5.0	5.0	5.0	5.0	7.0	5.5

Values = -.0 indicate missing data.

Table EC- 22. Daily thermograph statistics, lower Susitna River, 1981, Slough 21, R.M. 142.0, 31N/11W/02/AAA.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
810917	12	5.0	5.0	5.0	5.0	5.0	5.0	5.5	7.5	7.5	6.0	5.5	5.0	5.0	7.5	5.6
810918	12	5.0	5.0	5.0	5.0	5.0	5.5	6.0	6.5	6.0	5.5	5.5	5.5	5.0	6.5	5.5
810919	12	5.0	5.0	5.0	5.0	5.0	5.5	6.0	6.0	6.0	6.0	5.0	5.0	5.0	6.0	5.4
810920	12	5.0	5.0	5.0	5.0	5.0	5.0	5.5	7.0	6.0	5.5	5.0	5.0	5.0	7.0	5.3
810921	12	4.5	4.5	4.5	4.5	5.0	5.5	5.5	6.5	6.0	5.5	5.0	5.0	4.5	6.5	5.2
810922	12	4.5	4.5	4.0	4.0	4.0	4.0	4.5	6.5	6.5	5.0	4.5	4.5	4.0	6.5	4.7
810923	12	4.5	4.5	4.5	4.5	4.5	5.0	5.5	5.5	5.0	4.5	4.0	4.0	4.0	5.5	4.7
810924	12	3.5	4.0	4.0	4.0	4.0	5.0	5.5	5.5	5.0	4.5	4.0	4.0	3.5	5.5	4.4
810925	12	4.0	4.0	4.0	4.0	4.0	4.5	5.0	6.0	6.0	4.5	4.0	4.0	4.0	6.0	4.5
810926	12	3.5	3.5	3.0	3.0	3.0	3.0	3.5	5.0	5.5	4.0	3.5	3.5	3.0	5.5	3.7
810927	12	3.0	3.0	3.0	3.0	3.0	4.0	5.0	5.0	5.0	4.0	4.0	4.0	3.0	5.0	3.8
810928	12	4.0	4.0	3.5	3.0	3.0	4.0	4.5	5.0	5.0	4.0	4.0	3.5	3.0	5.0	4.0
810929	8	3.5	3.0	3.0	3.0	3.5	4.0	4.0	5.0	-.0	-.0	-.0	-.0	3.0	5.0	3.6

Values = -.0 indicate missing data.

Table EC- 23. Daily thermograph statistics, lower Susitna River, 1981, above Portage Creek, R.M. 148.8, 32N/01W/25/CDA.

DATE	# OBS.	TEMPERATURE AT TIME 0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400	MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
810717	6	-.0	-.0	-.0	-.0	-.0	-.0	9.5	10.0	10.0	10.5	10.5	10.5	9.5	10.5	10.2
810718	12	10.0	10.0	10.0	10.0	9.5	9.5	9.5	10.0	10.0	10.0	10.5	10.5	9.5	10.5	10.0
810719	12	10.5	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.5	10.0
810720	12	10.0	10.0	10.0	10.0	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	10.0	9.7
810721	12	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	10.0	10.0	10.5	10.5	9.5	10.5	9.8
810722	12	10.0	10.0	9.5	9.5	9.5	9.5	9.5	10.0	10.5	10.5	10.5	10.5	9.5	10.5	10.0
810723	12	10.5	10.5	10.5	10.5	10.0	10.0	10.0	10.0	10.5	10.5	10.5	10.5	10.0	10.5	10.3
810724	12	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.5	10.5	10.5	10.5	10.5	10.0	10.5	10.2
810725	12	10.5	10.0	10.0	10.0	10.0	10.0	10.0	10.5	10.0	10.0	10.0	10.0	10.0	10.5	10.1
810726	12	10.0	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	10.0	9.5	10.0	9.6
810727	12	10.0	10.0	10.0	9.5	9.5	9.5	9.5	10.0	10.0	10.5	10.5	10.5	9.5	10.5	10.0
810728	12	10.5	10.0	10.0	10.0	10.5	10.5	11.5	11.5	11.0	10.5	10.0	10.0	10.0	11.5	10.5
810729	3	10.0	10.0	10.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	-.0	10.0	10.0	10.0
810801	12	10.5	10.5	10.5	10.5	10.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	10.5	9.9
810802	12	9.0	9.0	8.5	8.5	8.5	8.5	8.5	8.5	9.0	9.0	9.0	9.0	8.5	9.0	8.8
810803	12	9.0	9.0	8.5	8.5	8.5	8.5	9.0	9.5	9.5	9.5	10.0	9.5	8.5	10.0	9.1
810804	12	9.5	9.5	9.5	9.0	9.0	9.0	9.5	9.5	10.0	10.5	10.5	10.5	9.0	10.5	9.7
810805	11	10.5	10.5	10.0	10.0	10.0	-.0	10.5	10.5	11.0	11.0	11.0	11.0	10.0	11.0	10.5
810806	12	10.5	10.5	10.5	10.5	10.0	10.0	10.0	10.0	10.5	10.5	10.5	10.5	10.0	10.5	10.3
810807	12	10.5	10.5	10.0	10.0	10.0	9.5	9.5	10.0	10.0	10.0	9.5	9.5	9.5	10.5	9.9

Values = -.0 indicate missing data.

Table EC- 23. Daily thermograph statistics, lower Susitna River, 1981, above Portage Creek, R.M. 148.8, 32N/01W/25/CDA.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
810808	12	9.5	9.5	9.5	9.0	9.0	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.0	9.5	9.4
810809	12	9.0	9.0	9.0	8.5	8.5	8.5	8.5	8.5	9.0	9.0	9.0	9.0	8.5	9.0	8.8
810810	12	9.0	9.0	9.0	8.5	8.5	9.0	9.0	9.0	9.0	9.0	8.5	8.5	8.5	9.0	8.8
810811	12	8.5	8.5	8.0	8.0	8.0	8.0	8.0	8.0	8.5	8.5	8.5	8.5	8.0	8.5	8.3
810812	12	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
810813	12	8.5	8.5	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.5	8.1
810814	12	8.0	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	8.0	7.5
810815	12	7.5	7.5	7.5	7.5	7.0	7.0	7.0	7.0	7.0	6.5	6.5	6.5	6.5	7.5	7.0
810816	12	6.5	6.5	6.5	6.5	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.5	6.2
810817	12	6.0	6.0	5.5	5.5	5.5	5.5	5.5	5.5	6.0	6.0	6.5	6.5	5.5	6.5	5.8
810818	12	6.5	6.5	6.0	6.0	6.0	6.5	6.5	6.5	7.0	7.0	7.5	7.5	6.0	7.5	6.6
810819	12	7.5	7.5	7.0	7.0	7.0	7.0	7.5	7.5	7.5	7.5	8.0	8.0	7.0	8.0	7.4
810820	12	8.0	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	8.0	7.5
810821	12	7.5	7.5	7.5	7.0	7.0	7.0	7.0	7.5	7.5	7.5	7.5	7.5	7.0	7.5	7.3
810822	12	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	8.0	8.0	8.0	8.0	7.5	8.0	7.7
810823	12	8.0	8.0	7.5	7.5	7.5	7.5	7.5	7.5	8.0	8.0	8.0	8.0	7.5	8.0	7.8
810824	12	8.0	7.5	7.5	7.5	7.5	7.5	8.0	8.5	8.5	9.0	9.0	9.0	7.5	9.0	8.1
810825	12	9.0	9.0	9.0	9.0	10.0	10.0	10.0	10.0	10.0	9.5	9.5	9.5	9.0	10.0	9.5
810826	12	10.0	10.0	10.5	11.0	11.0	11.0	11.0	11.0	11.5	10.0	10.0	10.0	10.0	11.5	10.6
810827	12	11.0	11.0	11.0	11.5	12.0	12.5	12.0	11.0	11.0	11.0	11.0	11.0	11.0	12.5	11.3

Values = -.0 indicate missing data.

Table EC- 23. Daily thermograph statistics, lower Susitna River, 1981, above Portage Creek, R.M. 148.8, 32N/01W/25/CDA.

DATE	# OBS.	TEMPERATURE AT TIME												MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
		0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400			
810828	12	11.0	11.0	11.5	12.0	12.0	11.5	12.0	11.5	11.0	11.0	10.5	10.0	10.0	12.0	11.3
810829	12	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.5	9.5	9.5	10.0	9.9
810830	12	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.5	9.5	9.0	9.0	9.5	9.0	10.0	9.7
810831	12	10.0	10.0	10.0	10.0	10.0	10.0	9.5	9.0	9.0	8.0	8.0	8.0	8.0	10.0	9.3
810901	11	8.5	9.0	-.0	9.0	9.0	9.0	9.0	8.0	8.5	8.0	8.0	8.0	8.0	9.0	8.5
810902	12	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
810903	12	8.0	8.0	8.0	8.0	8.5	8.5	8.5	8.5	8.0	8.0	8.0	8.0	8.0	8.5	8.2
810904	12	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.0	8.0	8.0	8.0	8.0	8.5	8.3
810905	12	8.5	8.5	9.0	9.0	8.5	8.5	8.5	8.5	8.5	8.0	8.0	8.5	8.0	9.0	8.5
810906	12	8.5	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.5	8.0
810907	11	8.0	8.0	-.0	7.5	7.5	7.5	7.5	7.5	7.5	7.0	7.0	7.5	7.0	8.0	7.5
810908	7	7.5	8.0	7.5	7.5	7.0	7.0	6.0	-.0	-.0	-.0	-.0	-.0	6.0	8.0	7.2
810910	7	-.0	-.0	-.0	-.0	-.0	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
810911	12	8.0	8.0	7.5	7.5	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	8.0	7.3
810912	12	7.5	7.5	7.5	7.0	7.0	7.0	7.0	7.5	7.5	7.5	7.5	7.5	7.0	7.5	7.3
810913	12	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
810914	12	7.0	7.0	7.0	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	7.0	6.6
810915	12	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
810916	12	6.5	6.5	6.5	6.5	6.5	6.5	7.0	7.0	7.0	7.0	7.0	7.0	6.5	7.0	6.8
810917	12	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0

Values = -.0 indicate missing data.

Table EC- 23. Daily thermograph statistics, lower Susitna River, 1981, above Portage Creek, R.M. 148.8, 32N/01W/25/CDA.

DATE	# OBS.	TEMPERATURE AT TIME 0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	2400	MIN. TEMP.	MAX. TEMP.	MEAN TEMP.
810918	12	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
810919	12	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
810920	12	7.0	7.0	7.0	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	7.0	6.6
810921	12	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
810922	12	6.5	6.0	6.0	6.0	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	6.5	5.7
810923	12	5.5	5.5	5.5	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.5	4.5	4.5	5.5	5.0
810924	12	4.5	4.5	4.0	3.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.5	3.0	4.5	3.4
810925	11	3.5	3.5	3.5	3.5	3.0	3.0	-.0	3.5	3.5	3.5	3.5	3.5	3.0	3.5	3.4
810926	12	3.0	3.0	2.5	2.0	2.0	1.5	1.5	1.5	1.5	1.5	1.5	1.0	1.0	3.0	1.9
810927	12	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.0	1.5	1.4
810928	12	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
810929	12	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
810930	12	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
811001	12	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
811002	12	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
811003	9	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	-.0	-.0	-.0	1.5	1.5	1.5

Values = -.0 indicate missing data.

APPENDIX ED.

Stage data tables

Table ED-1. Staff gage readings from Sunshine Base Camp.

River Mile 79

Geographic Code 24N 05W 36 BDC

Date	Time	Height
810712	0400	2.57
810713	0400	2.75
810713	1100	2.60
810714	1100	1.80
810714	2045	1.55
810715	0033	1.59
810715	0910	1.57
810715	1705	1.62
810715	2125	1.60
810716	0840	1.80
810716	1440	1.92
810717	1100	2.05
810718	2230	1.80
810719	0800	1.90
810719	1200	1.95
810719	2100	1.98
810720	0930	1.85
810720	1900	1.98
810720	2200	2.00
810721	1600	1.98
810721	2100	1.85
810722	1400	1.60
810722	1900	1.45
810723	0900	1.22
810723	1500	1.30
810723	1730	1.38
810724	1400	1.20
810724	1900	1.15
810725	1200	1.40
810725	1900	1.40
810726	0530	1.36
810726	0930	1.40
810726	1800	1.30
810727	1600	1.10
810728	0700	0.80
810728	1300	0.70
810728	1930	0.50
810729	0930	0.34
810729	1445	0.34
810730	0710	0.34
810730	1930	0.38
810730	0830	0.24

Table ED-1 (Continued)

Date	Time	Height
810731	1800	0.15
810731	2250	0.50
810801	0700	0.18
810801	1030	0.18
810801	1600	0.52
810801	2000	1.20
810801	2200	1.65
810801	2345	2.00
810802	0800	3.20
810802	0930	3.30
810802	1200	3.70
810802	1330	3.75
810802	2030	3.66
810802	2330	3.47
810803	New Gage	
810804	1546	2.75
810805	1200	2.20
810806	1100	1.60
810806	1500	1.58
810806	2000	1.48
810807	0830	1.36
810807	1630	1.35
810808	0700	1.30
810808	1500	1.40
810808	2100	1.40
810809	1200	2.15
810809	1500	2.22
810809	2000	2.30
810810	1200	2.58
810810	1600	2.60
810811	1200	2.70
810811	1630	2.60
810811	2000	2.58
810811	2200	2.55
810812	0800	2.62
810812	1500	2.85
810812	2000	2.95
810812	2230	2.98
810813	0800	3.22
810818	1400	3.30
810813	2100	3.30
810814*		
810815*		
810816*		
810817	0730	3.30
810817	2000	2.60

Table ED-1 (Continued)

Date	Time	Height
810818	0900	2.10
810818	1600	1.88
810819	0930	1.45
810819	1200	1.40
810819	1900	1.30
810820	0900	1.45
810820	1730	1.70

* Readings absent due to submerged gage.

Table ED-2. Staff gage readings from Sunshine fishwheel located on the west shore immediately below the sonar site.

River Mile 81

Geographic Code 24N 05W 26 BAA

Date	Time	Height
810729	1800	2.20
810730	0900	2.24
810730	2150	2.20
810731	0906	2.10
810731	1445	2.08
810731	1930	1.98
810801	0500	1.92
810801	1425	2.20
810801	1905	2.26
810802-810805*		
810806	1021	2.41
810806	1920	2.29
810806	2235	2.28
810807	1000	2.21
810807	1400	2.20
810808	0530	2.18
810808	0805	2.20
810808	1310	2.28
810808	1716	2.26
810808	2050	2.28
810809	0908	2.59
810809	1645	2.75
810810	0800	2.85
810810	1710	2.90
810810	2100	2.95
810811-810816*		
810817	1700	3.3
810818	1020	2.84
810818	1700	2.70
810818	1940	2.74
810819	1053	2.48
810821	0600	2.65
810821	1550	2.65
810825	0830	2.10
810825	1600	2.00
810828	0830	1.84
810830	0925	1.82
810830	1920	1.80
810831	1005	1.76
810901	2000	1.58
810902	1001	1.48
810903	0928	1.18

Table ED-2 (Continued)

Date	Time	Height
810903	1948	1.01
810904	1730	0.80
810905	1055	0.64
810905	1950	0.64
810906	0916	0.62
810906	1844	0.59
810907	0930	0.61

* Readings absent due to a submerged gage.

Table ED-3. Staff gage readings from Talkeetna Base Camp.

River Mile 101

Gographic Code 27N 05W 26 DDD

Date	Time	Height
810625	1130	1.51
810625	1205	1.53
810626	0830	1.59
810627	1030	1.71
810627	1700	1.85
810628	0800	2.64
810628	2000	3.05
810629	0800	3.30
810629	1800	3.35
810701	New Gage was installed	
810701	0900	2.84
810702	0830	2.35
810703	0930	1.63
810704	1300	1.21
810705	1700	0.89
810706	1000	0.94
810707	0830	1.27
810708	0800	2.85
810708	1000	3.10
810709	0800	3.09
810710	0800	4.18
810710	1200	4.52
810710	2000	6.10
810710	2300	6.35
810711	0900	6.35
810711	1800	6.60
810711	2300	6.60
810712	0900	6.76
810712	1500	7.10
810712	1800	7.43
810713	0930	6.51
810713	1400	6.26
810713	1930	6.09
810714	0930	5.51
810714	1900	5.01
810715	0830	4.68
810716	0800	4.85
810716	1500	5.01
810716	1800	5.18
810717	0830	5.22
810717	1400	5.35
810717	2100	5.51
810718	0900	5.76
810719	0900	5.95

Table ED-3 (Continued)

Date	Time	Height
810720	0900	5.76
810721	0800	5.85
810721	2000	5.35
810722	0800	5.18
810722	2200	5.01
810723	0800	4.89
810724	0900	4.68
810725	0900	5.01
810726	0900	5.14
810727	0900	5.10
810728	0930	4.51
810728	2000	4.14
810729	0900	4.01
810730	0900	4.01
810731	0900	3.76
810801	0900	3.68
810801	1300	4.18
810801	2200	5.76
810801	2400	6.55
810802	0400	7.14
810802	0800	7.63
810802	1900	7.05
810803	0900	6.75
810803	2300	6.43
810804	0900	5.76
810805	0930	4.93
810806	0900	4.26
810806	1800	4.08
810807	1000	3.68
810808	1100	3.97
810809	1000	5.43
810809	1800	5.93
810810	0800	5.89
810811	0400	6.05
810811	1000	6.18
810812	0800	6.01
810812	1400	6.18
810813	0800	6.43
810813	1700	6.68
810814	1000	7.21
810815	0900	7.47
810815	1600	7.73
810816	0900	7.13
810816	1400	6.97
810817	0900	6.59
810817	1200	6.30
810817	2300	5.72

Table ED-3 (Continued)

Date	Time	Height
810818	0900	5.30
810819	0900	4.60
810820	0900	4.88
810820	1400	5.22
810821	0900	5.59
810821	1100	5.76
810822	0900	6.10
810823	1000	5.72
810824	0900	5.30
810825	0900	4.51
810826	0900	3.97
810826	1800	3.89
810827	0700	3.68
810828	0900	3.64
810829	0800	3.60
810830	0900	3.58
810831	0900	3.39
810901	0930	3.19
810902	0930	3.04
810903	0900	2.68
810904	0900	2.36
810905	1030	2.19
810906	1100	2.08
810909	1100	1.89
810910	1000	1.72
810911	0900	1.81
810912	0900	1.86

Table ED-4. Staff gage readings from Curry Fishwheel Camp.

River Mile 120.0

Geographic Code 29N 04W 16 DBA

Date	Time	Height
810626	1600	2.16
810627	1100	2.21
810628	0930	3.13
810629	0930	3.23
810630	0900	3.63
810701	1800	2.91
810702	0930	2.53
810703	0830	2.06
810704	0900	1.72
810705	1100	1.52
810706	0900	1.55
810707	0900	1.83
810708	1000	3.29
810709	0930	3.21
810710	1400	4.73
810711	--	--
810712	1145	6.07
810713	0830	5.82
810714	0930	4.96
810715	0830	4.37
810716	1200	4.62
810717	1800	4.92
810718	0830	5.16
810719	1400	5.29
810720	1030	5.22
810721	1100	5.10
810722	0930	4.67
810723	0930	4.46
810724	0930	4.64
810725	--	--
810726	1000	5.16
810727	1000	5.16
810728	1030	4.31
810729	1030	4.11
810730	1400	2.96
810731	1000	3.76
810801	1030	4.01
810802	0700	7.25
810803	0900	6.52
810804	0900	5.85
810805	0730	5.10
810806	1330	4.08

Table ED-4 (Continued)

Date	Time	Height
810807	2000	3.88
810808	1000	3.92
810809	0900	5.08
810810	0800	5.29
810811	0800	5.52
810812	0900	5.46
810813	0930	5.76
810814	1100	6.26
810815	0800	6.35
810816	0800	6.23
810817	0800	5.72
810818	0830	4.78
810819	0830	4.31
810820	0700	4.63
810821	0800	5.17
810822	0800	5.44
810823	0830	5.07
810824	0800	4.74
810825	0830	4.18
810826	0830	3.78
810827	0800	3.56
810828	0900	3.53
810829	1000	3.52
810830	0900	3.51
810831	0800	3.37
810901	0800	3.22
810902	0800	3.09
810903	0730	2.83
810904	1000	2.55
810905	0830	2.46
810906	0830	2.41
810907	0830	2.41
810908	0830	2.42
810909	1000	2.25
810910	0830	2.13
810911	0900	2.17
810912	1100	2.23
810913	--	--
810914	--	--
810915	1000	0.29
810916	0700	0.22
810917	0830	0.17
810918	0900	0.11
810919	0830	0.00
810920	0900	0.15
810921	0730	0.36

Table ED-5. Stage recordings from stable staff gage placements at general habitat evaluation study sites in the Yentna Reach.

Site	Staff Gage Number	Date	Time	Height
Fish Creek	YE011A	810622	1915	2.48
		810623	1500	2.06
Alexander Creek, Site A	YE021B	810702	1950	2.09
		810703	1310	1.45
		810826	1830	0.70
		810827	1700	0.59
		810911		Dewatered
	YE021A	810718		2.14
		810719	2030	1.73
		810720		1.73
		810811	1720	1.46
		810812	1615	1.93
		810813	1330	3.01
Alexander Creek, Site B	YE031A	810702	1555	2.70
		810703	1230	1.96
		810719	1930	6.88
		810720		6.90
		810811	1700	
		810812	1730	
		810813		Flooded
		810826	1815	1.33
		810827	1550	1.16
	YE031A	810911		Dewatered
Alexander Creek, Site C	YE041A	810717		2.62
		810718		2.17
		810719	1655	1.85
		810811	1600	1.48
		810812	1800	2.11
		810813	1545	3.27
		810826		Dewatered
	YE041B	810827	1315	1.55
		810828	1336	1.50
		810911	1550	0.99
		810912	1340	1.08
		810913	1410	1.05
	YE042A	810623		2.21
		810701	1330	3.40
		810702	1320	2.28
		810703	1145	1.50

Table ED-5 (Continued)

Site	Staff Gage Number	Date	Time	Height
Anderson Creek	YE051A	810717	1355	2.78
		810718		2.22
		810810	1715	1.35
		810811	1330	1.79
		810812	1400	2.00
		810827		Dewatered
	YE052A	810705		1.50
		810826	1435	2.60
		810828	1215	2.75
		810911		Dewatered
Kroto Slough Mouth	YE061A	810717	1245	2.55
		810718	1145	1.91
		810719	1500	1.33
		810720		1.13
		810721		1.51
		810722		1.13
		810723	1230	0.42
		810724	1200	0.21
		810810	1150	0.61
		810811	1315	1.26
		810812	1325	1.59
		810813	1800	3.30
	YE061B	810620		2.92
		810621	1250	3.01
		810622	1305	2.45
		810623	1330	2.48
		810703		0.48
		810704		Dewatered
		810705		Dewatered
		810719	1500	5.19
		810720		5.60
		810721		6.00
		810722		5.59
		810723	1230	4.89
		810724	1200	4.63
		810805		4.24
		810806	1230	3.63
		810809	1920	4.78
		810810	1150	5.14
		810811	1315	5.72
		810812	1325	6.02
	YE061C	810705		1.44
		810814	1130	3.30
	YE061D	810910	1840	2.00
		810911	1215	1.70
		810914	1300	1.50

Table ED-5 (Continued)

Site	Staff Gage Number	Date	Time	Height
Mid-Kroto Slough	YE071A	810721		2.81
		810722		2.21
		810723		1.59
		810724		1.64
		810809		0.93
		810810		1.53
		810811		2.91
	YE071B	810620	1745	3.14
		810705	1640	2.04
		810706	1315	1.91
		810707	1100	1.96
		810723		6.00
		810724	1415	5.97
		810809	1710	5.40
		810914	1515	0.86
		810915	1620	0.71
		810916	1555	0.57
Mainstem Slough	YE081A	810718		2.07
		810719	1525	1.73
		810720		1.64
		810721		1.91
		810722	2045	1.13
		810723	1245	0.59
		810809	1800	Dewatered
		810810	1210	0.63
		810811	1115	1.15
		810814	1230	Flooded
		810826		Dewatered
Deshka River, Site A	YE091A	810721	1610	1.64
		810722		0.87
		810723		0.19
		810724	1430	0.24
		810805		0.82
		810806	1700	Dewatered
	YE091B	810807	1330	1.76
		810808	1215	2.64
		810809	1445	2.61
		810829		0.86
		810830		0.66
		810831		0.54
	YE092A	810618		2.32
		810706	2015	1.21
		810707	1300	1.39
		810708		2.11
		810709		3.15
		810909	1550	1.39
		810915	1710	0.14

Table ED-5 (Continued)

Site	Staff Gage Number	Date	Time	Height
Deshka River, Site A	YE092B	810915	1710	2.39
		810916	1625	2.16
		810917	1000	1.09
Deshka River, Site B	YE101A	810721	1230	2.73
		810722		1.94
		810723	1315	1.14
		810805		1.18
		810806	1630	0.14
		810807	1230	0.28
		810809	1440	0.49
		810829		0.99
		810830		0.95
		810831		0.73
	YE101B	810807	1230	2.10
		810808	1200	1.97
		810809	1440	2.96
		810831		3.33
	YE101C	810618	1955	2.66
		810706	1855	0.56
		810707	1340	0.71
		810708		1.45
		810808	1200	4.60
		810909	1545	0.75
	YE101D	810915	1745	2.63
		810916	1650	2.38
		810917	1030	2.30
Deshka River, Site C	YE111A	810721	1405	2.39
		810722	1615	1.93
		810723	1540	0.89
		810581		0.82
	YE111B	810806	1515	2.65
		810807	1100	2.24
		810808	1135	2.25
		810829		1.20
		810830		1.12
		810831		0.99
	YE112A	810706	1630	1.61
		810707	1515	1.49
		810808	1140	4.12
		810829		3.09
		810830		2.99
		810831		2.85
		810914	1745	2.00
		810915	1905	1.92
		810916	1730	1.91

Table ED-5 (Continued)

Site	Staff Gage Number	Date	Time	Height
Lower Delta Islands	YE121A	810618		1.45
		810707		1.09
		810708		1.45
		810709		2.28
	YE122A	810618		2.19
		810624		2.45
		810707	1445	1.04
		810723		6.10
		810724	1530	6.15
		810807	1645	5.20
		810808	1300	5.26
		810915		Dewatered
	YE124A	810722	1815	1.30
		810723		0.92
		810724	1500	0.94
Little Willow Creek	YE131A	810618		1.62
		810707	1745	0.96
		810708	1330	1.23
		810709		2.16
		810722		3.81
		810723		4.16
		810724		4.15
		810806	1930	3.30
		810807	1800	3.28
		810808	1520	3.22
		810830		2.25
		810831		2.15
		810915		0.05
		810916		Dewatered
	YE132A	810619		1.73
		810624		1.49
		810708	1300	1.19
		810709		2.13
		810722		4.10
		810723		3.95
		810724		3.90
		810806	1915	3.06
		810807	1800	3.29
		810808	1520	3.22
		810829		2.33
		810830	1125	2.28
		810831		2.19
		810916	1440	1.61
		810917	1300	1.49

Table ED-5 (Continued)

Site	Staff Gage Number	Date	Time	Height
Little Willow Creek	YE133A	810624		1.70
		810708	1255	1.08
		810830		2.26
		810831		2.13
	YE133B	810915	1230	2.23
		810916	1355	2.03
		810917	1300	1.96

Table ED-6. Stage recordings from stable staff gage placements at general habitat evaluation study sites in the Sunshine Reach.

Site	Staff Gage Number	Date	Time	Height
Rustic Wilderness	SU011B	810726	1600	1.76
		810728	1600	1.15
		810813	1200	2.64
	SU011C	810829	1300	1.99
		810830	1400	1.96
Kashwitna River	SU021A	810828	1750	3.01
		810829	1130	3.18
		810915	1230	1.38
		810920	1500	1.20
		810921	1515	1.20
	SU022A	810726	1330	1.53
		810812	1200	1.03
		810813	1130	2.15
		810814	1445	2.25
		810815	1250	1.98
		810828	1730	0.47
		810829	1210	0.67
Caswell Creek	SU031A	810709	1600	2.68
		810710	1515	Flooded
		810725	1200	5.15
		810827	2020	2.98
		810828	1345	3.17
		810829	1030	3.17
		810917	1400	0.46
		810918	1600	0.60
Caswell Creek	SU031B	810811	1430	2.35
		810812	1430	2.43
		810813	1400	3.20
Slough-West Bank	SU041A	810813	1230	2.36
		810815	1400	2.75
	SU041B	810829	1630	1.71
		810830	1500	1.64
Sheep Creek Slough	SU051A	810810	1130	1.69
		810810	1600	1.94
		810815	1230	3.22
		810826	1530	0.49
		810827	1450	0.39
		810828	1200	0.48
		810917	1045	Dewatered
	SU051B	810709	1500	3.00
		810710	1730	5.80
		810725	1400	5.40

Table ED-6 (Continued)

Site	Staff Gage Number	Date	Time	Height
Goose (Lower) 1	SU061A	810707	1300	1.57
		810708	1200	1.87
		810709	1230	2.12
		810723	1115	3.48
		810724	1500	3.46
		810725	1820	3.74
		810809	1200	3.30
		810812	1100	4.11
		810814	1100	5.15
		810815	1210	5.21
		810825	1600	2.43
		810826	1715	2.28
		810827	1310	2.21
		810911	1300	1.05
		810916	1000	0.71
	SU061B	810911	1330	2.34
		810916	1000	2.01
		810916	1130	2.02
		810917	1700	1.96
		810918	1700	1.96
Goose (Lower) 2	SU071A	810723	1430	2.14
		810725	1700	2.20
		810729	1315	1.71
		810809	1600	1.82
	SU072B	810825	1930	2.43
		810826	1830	1.72
		810827	1250	1.68
	SU073A	810729	1300	2.51
		810809	1430	3.33
	SU073B	810825	1545	2.66
		810826	1920	2.35
		810827	1300	2.39
		810916	1600	0.80
Mainstem West Bank	SU081A	810621	1200	1.52
		810707	1130	0.94
		810708	1400	1.87
	SU081B	810722	1300	0.91
		810809	1700	0.84
	SU081C	810929	1145	1.39
		810930	1200	1.29
Montana Creek	SU091A	810706	1600	1.10
		810707	1530	1.04
		810708	1700	2.69

Table ED-7. Stage recordings from stable staff gage placements at general habitat evaluation study sites in the Talkeetna Reach.

Site	Staff Gage Number	Date	Time	Height
Montana Creek	SU093A	810722	1515	2.14
		810810	1500	1.82
		810812	1920	3.26
		810826	1210	1.62
		810827	1100	1.50
		810911	1200	0.95
		810929	1615	0.80
Mainstem 1	TA011A	810719		2.20
		810720		2.16
		810814		3.21
		810830		-1.20
		810913		-4.56
		810920		-5.00
		810621	1500	2.10
		810622	1130	2.19
		810623	1310	1.97
		810705	1700	0.98
		810706		0.93
Sunshine Creek	TA021A	810719		2.52
		810720		2.36
		810714		3.92
		810730		-0.17
	TA021B	810621		2.14
		810622		2.14
		810623		1.90
		810912		1.36
		810920		1.15
		811004		1.13
Birch Creek Slough	TA031A	810720		1.75
		810813		2.49
		810814		2.86
		810830		0.38
	TA031B	810622	1600	1.74
		810623	1115	1.70
		810705		1.05
		810707		1.14
		810912		1.58
		810920		1.02
Birch Creek	TA041A	810719		2.35
		810813		2.95
		810814		3.52
		810830		0.10

Table ED-7 (Continued)

Site	Staff Gage Number	Date	Time	Height
Birch Creek	TA041B	810621	1800	1.77
		810622	1350	1.78
		810623	0950	1.76
		810705		1.89
		810707		1.84
		810912		2.01
Cache Creek Slough	TA051A	810716		1.22
		810805		0.69
		810825		0.46
		810826		0.25
		810908		-1.30
		810909		-1.69
		810921		-1.90
	TA051B	810619	1700	1.69
		810620	1115	1.67
		810621	1100	1.63
		810701		2.41
Cache Creek	TA061A	810805		1.80
		810825		1.45
		810826		2.10
		810908		1.15
		810909		1.06
		811004		2.40
	TA061B	810619	1700	2.33
		810620	1230	2.35
		810621	1220	2.33
		810715		1.98
		810716		2.21
		810908		2.96
		810909		2.87
		810921		2.70
	TA062A	810620	1210	1.86
		810621	1200	1.81
		810715		1.78
Whiskers Creek Slough	TA071A	810804		2.43
		810805		1.33
		810825		1.00
		810826		0.55
	TA071B	810616	1200	2.35
		810616	1730	2.46
		810617	1040	2.70
		810701		2.89
		810908		2.16
		810909		2.03
		810921		1.62

Table ED-7 (Continued)

Site	Staff Gage Number	Date	Time	Height
Whiskers Creek	TA081A	810716		1.00
		810804		1.58
		810805		0.47
	TA081B	810616	1320	2.16
		810617	1300	2.15
		810701		2.69
Whiskers Creek	TA081B	810725		3.19
		810826		1.88
		810908		2.29
		810909		2.28
		810921		2.26
Slough 6A	TA091A	810718		2.36
		810806		1.28
		810808		1.33
		810816		2.08
		810827		1.08
		810828		1.05
	TA091B	810617	1520	1.99
		810618	1445	1.86
		810619	1030	1.84
		810703		1.75
		810704		1.54
		810806		3.10
		810807		2.97
		810808		3.11
		810827		2.76
		810828		2.80
		810910		1.59
		810911		1.59
		810923		0.89
	TA092A	810617	1500	1.89
		810618	1445	1.78
		810619	1030	1.75
		810703		1.65
Lane Creek	TA101A	810617	1030	1.79
		810618	1345	1.54
		810619	1210	1.52
	TA103B	810807		0.80
		810808		0.95
		810827		0.46
		810828		0.46
		810910		-0.60
	TA103C	810911		1.43
		810923		1.00

Table ED-7 (Continued)

Site	Staff Gage Number	Date	Time	Height
Lane Creek	TA104A	810617		2.40
		810618		2.12
		810619		2.08
		810910		1.43
		810923		0.70
Mainstem 2	TA111A	810717		1.72
		810718		2.06
		810806		0.39
		810807		0.18
		810808		0.26
		810923		-3.10
	TA111B	810617	1700	1.87
		810618	1115	1.61
		810619	1200	1.61
		810625		1.65
		810703		1.50
		810704		1.18
		810807		2.74
		810808		2.90
		810827		2.26
		810828		2.25
		810910		0.43
		810911		0.40

Table ED-8. Stage recordings from stable staff gage placements at general habitat evaluation study sites in the Gold Creek Reach.

Site	Staff Gage Number	Date	Time	Height
Mainstem Susitna-Curry	GC011B	810618	1545	2.35
		810619	1730	2.33
		810708	1330	3.97
		810709	1115	3.86
	GC011A	810724	1110	1.55
		810725	1215	2.00
Susitna Side Channel	GC021B	810618	1410	1.90
		810619	1620	1.90
		810708	1415	3.15
		810709	1230	2.89
		810808	1445	3.35
		810829	1230	2.76
		810830	1540	2.80
		810831	1530	2.58
		810916	1400	0.77
		810917	1230	0.76
		810918	1130	0.66
	GC021A	810724	1200	2.18
		810725	1215	2.45
		810807	1200	1.14
		810808	1445	1.27
		810809	1550	2.98
		810810	1700	3.00
		810829	1230	0.72
		810830	1540	0.75
		810831	1530	0.54
Mainstem Susitna-Gravel Bar	GC031B	810617	1755	1.95
		810618	1817	1.85
		810619		1.70
		810706	1045	0.95
		810707	1820	1.69
		810708	1630	3.33
	GC031A	810723	1300	1.62
		810724	1300	1.67
		810808	1300	0.43
		810809	1630	2.69
		810810	1635	2.79
		810812	1050	2.99
	GC031C	810917	1415	1.34
		810918	1030	1.30
		810927	1400	1.00
		810928	1200	0.99

Table ED-8 (Continued)

Site	Staff Gage Number	Date	Time	Height
Slough 8A	GC041A	810617	1520	1.73
		810618	1915	1.70
		810619	1330	1.60
		810706	1330	1.26
		810707	1700	1.55
		810708	1715	2.49
		810722	1345	3.53
		810723	1215	3.35
		810724	1430	3.34
		810807	1100	1.71
		810808	1110	2.80
		810809	1730	4.03
		810810	1615	4.23
	GC042A	810707	1645	1.49
		810708	1720	2.15
		810722	1530	3.13
		810724	1430	2.98
		810808	1245	2.47
		810809	1815	3.79
		810810	1530	3.88
4th of July Creek	GC051A	810617	1245	1.30
		810706	1615	1.37
		810706	1625	1.40
		810707	1330	1.33
		810708	1830	1.95
	GC051B	810914	1030	1.39
		810915	1330	1.31
		810916	1045	1.32
		810926	1445	1.32
		810927	1300	1.28
		810928	1500	1.25
	GC052A	810706	2030	1.59
		810707	1600	1.67
		810708	2000	2.92
		810828	1515	2.52
		810829	1645	2.45
		810914	1300	1.00
		810915	1315	0.88
		810916	1030	0.80
		810926	1445	0.52
		810927	1300	0.40
	GC052B	810811	1800	1.94
		810812	1300	2.22

Table ED-8 (Continued)

Site	Staff Gage Number	Date	Time	Height
Slough 10	GC061C	810616	1530	1.92
		810617	1020	1.74
		810705	1900	0.76
		810706	1530	0.96
		810706	1630	0.99
		810707	1150	1.36
	GC061B	810811	1445	2.54
		810812	1350	2.65
	GC061D	810914	1445	0.73
		810915	1445	0.59
		810916	1730	0.55
Slough 11	GC071A	810618	1030	1.70
		810619	1105	1.70
		810705	1800	1.10
		810706	2130	1.35
		810707	1100	1.53
	GC071B	810926	1315	0.85
		810927	1030	0.80
	GC072A	810706	2110	1.26
		810707	1000	1.40
Mainstem Susitna-Inside Bend	GC081B	810702	1845	1.70
		810703	2030	1.33
		810704	1630	1.11
		810927	0930	0.02
	GC081A	810719	1600	1.98
		810720	2000	2.11
		810721	0930	1.82
		810722	0950	1.08
		810725	1130	0.98
	GC081C	810926	1130	1.50
		810927	0930	1.33
Indian River	GC091C	810701	1630	2.20
		810703	1115	1.80
	GC091B	810717	1815	2.22
		810717	2030	2.27
		810718	1800	2.45
		810719	1330	2.52
	GC091D	810913	1315	1.20
		810924	1800	1.00
		810925	1500	1.00
	GC092B	810701	1900	2.32
		810702	1430	1.61
		810703	1030	1.07
	GC092A	810719	1150	2.49
		810811	1220	2.51
		810812	1710	2.50
		810813	1645	3.10

Table ED-8 (Continued)

Site	Staff Gage Number	Date	Time	Height
Indian River	GC092D	810904		1.74
		810911	1600	1.43
		810912	1630	1.34
		810913	1345	1.16
		810924	1750	0.35
		810925	1030	0.28
Slough 20	GC102A	810718	1700	2.41
		810719	1050	2.44
		810811	1100	2.50
		810812	1700	2.38
		810813	1615	2.84
		810824	1600	1.18
		810825	1400	0.69
		810826	0925	0.42
	GC102B	810911	1430	0.77
		810912	1500	0.80
		810913	1100	0.78
		810924	1630	0.75
		810925	1440	0.70
	GC101A	810719	1040	2.18
		810811	0945	2.25
		810812	1620	2.07
		810813	1535	2.62
	GC101B	810912	1615	1.14
		810913	1045	1.00
		810924	1600	0.41
		810925	1415	0.35
Mainstem Susitna-Island	GC111A	810703	1720	1.84
		810704	1200	1.59
		810705	1600	1.48
	GC112B	810716	1700	1.41
		810717	1330	1.82
		810718	1415	2.25
		810813	1440	2.80
		810815	1245	3.10
		810823	1400	1.65
		810824	1500	0.98
		810825	1130	0.41
	GC112D	810910	1515	2.35
		810911	1300	2.33
		810912	1245	2.26
		810924	1430	1.68
		810925	1345	1.62
		810926	1030	1.53

Table ED-8 (Continued)

Site	Staff Gage Number	Date	Time	Height
Portage Creek	GC121A	810703	1515	1.85
		810704	1010	1.80
		810705	1415	1.88
	GC121B	810717	1300	0.85
		810718	1215	2.00
		810722		0.18
	GC121C	810722		2.45
		810824	1200	1.90
		810825	1045	1.80
		810910	1130	0.67
		810911	1045	0.61
		810912	1120	0.63
		810924	1200	0.49
		810925	1300	0.42
		810926	1000	0.37
	GC121E	810911	1115	1.42
		810912	1100	1.44
		810924	1115	1.36
		810925	1300	1.31
		810926	1000	1.29
	GC122A	810716	1310	2.15
		810717	1130	2.39
		810718	1130	2.89
		810823	1230	2.00
		810824	1235	1.10
		810825	1100	0.30
	GC122B	810813	1245	5.30
		810815	1220	5.78
		810823	1230	3.83
		810824	1235	2.95
		810825	1100	2.09
	GC122C	810910	1245	2.36
		810911	1015	2.30
		810912	1145	2.28
		810924	1200	1.33
		810925	1300	1.18
		810926	1015	0.96
	GC123A	810704	1030	2.20
		810705	1500	2.08

Table ED-9. Conversion equations for staff gage placements at general habitat evaluation sites.

Site	Conversion equation
Kroto Slough Mouth	$YE061A_o = YE061B_o + 4.43$
Mid-Kroto Slough	$YE071A_o = YE071B_o + 4.41$
Deshka River, Site A	$YE092A_o = YE092B_o + 2.25$
Caswell Creek	$SU031B_o = SU031A_o + 3.26$
Sunshine Creek	$TA021A_o = TA021B_o + 5.00$
Cache Creek	$TA061A_o = TA061B_o + 1.81$
Whiskers Creek Slough	$TA071A_o = TA071B_o + 3.33$
Slough 6A	$TA091B_o = TA091A_o + 1.75$
Mainstem 2	$TA111A_o = TA111B_o + 2.64$

APPENDIX EE.

Cross section survey data of each selected habitat evaluation study site

Table EE-1. Cross section survey of slough 8A.

October 10, 1981

Transect 1 Dewatered

Station	Elevation
LBHP*	586.91
GB**	586.595
2.70 Bankfull	586.42
15.50	580.26
18.5	580.83
21.95	581.32
26.20	582.00
31.40	582.61
39.10	582.90
46.45	584.18
50.2	582.83
52.6	582.51
54.95	582.81
57.40	583.14
59.0	584.10
65.0	584.12
67.1	585.59
68.8 Bankfull	586.38
78.0 GB**	586.41
RBHP***	586.81

LBHP* - Left Bank Head Pin
GB** - Ground Elevation Beside Head Pin
RBHP*** - Right Bank Head Pin

Table EE-2. Cross section survey of slough 8A.

October 10, 1981

Transect 2 Dewatered

Station	Elevation
LBHP2*	585.81
GB**	585.42
11.3	585.77
21.1	585.15
26.6 Bankfull	585.07
37.2	584.31
48.55	583.80
57.4	583.60
70.8	583.91
77.8	583.20
88.35	583.76
95.2	584.03
103.4	583.87
116.85	584.31
125.5	584.23
131.3	583.77
137.9	583.49
150.9	583.65
166.3	583.77
170.55	583.50
137.8	583.91
194.1	583.50
199.95	583.20
207.0	583.57
233.25	583.57
247.65	583.51
257.6	583.29
269.4	583.62
264.3	583.32
328.5	583.16
336.05	582.86
381.7	582.86
396.3	583.21
427.6	583.21
443.9	582.76
452.7	583.49
463.45	583.79
480.4	584.07
486.7	584.11
490.6 Bankfull	584.70
487.3	585.44
507. GB**	586.23
RBHP***	586.58

Table EE-3. Cross section survey of slough 8A.

October 10, 1981

Transect 3 Dewatered

Station	Elevation
LBHP3*	585.43
GB**	585.06
11.8	584.79
21.5 Bankfull	584.12
24.6	583.41
26.4	582.43
34.5	580.88
45.0	580.29
48.3	581.48
52.4	581.27
56.45	581.05
61.70	581.49
70.6	581.68
81.25	581.76
91.4	581.66
99.70	581.32
107.6	581.17
111.6	580.98
116.0	581.07
119.1	581.50
121.5	582.16
123.4	582.52
125.85	582.77
129.0	583.55
131.2 Bankfull	584.31
138.2	584.89
147.1 GB**	585.15
RBHP***	585.48

Table EE-4. Cross section survey of slough 8A.

October 10, 1981

Transect 4 Dewatered

Station	Elevation
LBHP4*	583.43
GB**	583.01
3.7	582.70
19.2	582.07
41.6	581.90
46.5	581.83
49.7	581.42
53.5	581.04
59.0	580.59
69.0	580.10
74.8	580.48
77.55	581.13
80.80	581.42
116.7	581.39
145.9	581.55
168.4	581.12
184.4	580.95
200.85	581.01
221.7	585.26
228.8	581.57
233.2	581.77
236.0	582.14
237.4	582.84
240.3	583.03
242.4 Bankfull	583.66
246.9	583.90
255.0	584.68
259.9 GB**	584.78
RBHP***	585.19

Table EE-5. Cross section survey of slough 8A.

October 11, 1981

Transect 5 Dewatered

Station	Elevation
LBHP5*	583.08
GB**	582.56
5.0 Bankfull	582.37
8.2	580.21
10.1	579.37
13.5	578.27
16.35	577.67
19.5	576.98
24.1	576.76
28.8	577.53
31.1	576.86
34.8	577.50
39.3	576.06
45.7	574.99
47.3	575.28
50.45	574.97
52.4	575.61
55.2	576.25
57.7	577.05
61.5	576.73
63.65	577.11
66.9	576.41
70.3	575.94
74.2	576.11
78.3	576.47
81.9	576.62
84.0	576.21
86.5	576.33
88.75	575.51
90.7	574.66
93.0	574.02
95.0	573.74
98.7	574.23
100.9	575.17
102.3	575.56
104.2	575.91
106.1	575.77
108.0	575.05
109.3	574.54
110.7	573.48
114.7	573.54
116.1	574.26

Table EE-5 (Continued)

Slough 8A

Transect 5 (Continued).

Station	Elevation
118.4	573.88
121.8	573.54
126.3	573.17
129.5	573.40
140.3	573.24
147.8	573.61
153.3	573.59
156.0	573.95
164.0	574.14
170.6	574.58
175.55	574.95
178.5	574.77
182.0	575.30
185.55	574.75
187.35	574.66
188.7	575.09
144.9	575.12
198.1	575.43
202.7	575.03
208.4	575.25
211.7	574.79
216.2	575.81
217.2	576.93
218.6 Bankfull	577.72
226.1 GB**	578.22
RBHP***	578.68

Table EE-6. Cross section survey of slough 8A.

October 10, 1981

Transect 6 Dewatered

Station	Elevation
LBHP6*	576.39
GB**	575.85
14.0 Bankfull	575.66
33.6	574.74
58.3	574.07
105.3	573.82
123.45	573.44
130.5	573.47
194.55	573.03
222.5	573.39
240.35	573.77
257.3	573.30
269.15	573.19
278.4	574.23
286.9	575.09
291.2	575.39
294.3 Bankfull	576.57
298.4	477.15
304.0	577.80
309.0	578.37
314.1 GB**	578.27
RBHP***	578.77

Table EE-7. Cross section survey of slough 8A.

October 10, 1981

Transect 7 Mouth of Slough 8A

Station	Elevation
LBHP7*	566.56
GB**	566.09
11.7 Bankfull	566.21
16.3	565.38
22.0	564.21
28.85	563.47
36.6	563.10
38.9	563.13
44.8	562.40
53.6	562.36
62.85	562.25
100.55 L. Water Edge	561.07
L. Water Sur. Elev.	561.11
112.4	560.76
131.65	560.38
141.7	659.89
156.3	559.48
165.6	559.12
171.6	558.93
178	558.59
181	559.60
183.1 R. Water Edge	561.04
R. Water Sur. Elev.	561.13
185.8	562.72
190.6 Bankfull	568.47
194.16 GB**	568.52
RBHP***	569.00

Table EE-8. Cross section survey of slough 9.

October 14, 1981

Transect 1 Dewatered

Station	Elevation
LBHP1*	608.48
GB**	608.04
5.4	607.78
8.2 Bankfull	607.06
9.15	605.57
11.0	604.93
13.30	604.35
15.90	603.405
25.80	604.260
33.80	603.53
39.35	603.975
98.80	604.525
111.85	603.945
140.75	604.465
149.30	604.435
176.10	604.685
195.25	604.300
206.70	603.855
221.75	604.495
238.00	604.855
244.95	604.625
255.60	604.955
257.05	604.485
258.40	604.785
263.00	605.135
273.10	605.475
284.15	605.800
289.45	605.525
291.95	605.640
298.70	605.805

Table EE-8 (Continued)

Slough 9

Transect 1 (Continued)

Station	Elevation
301.45	605.905
304.15	605.365
310.00	604.450
335.00	604.205
336.35	603.945
341.20	604.245
370.30	604.325
376.25	604.695
381.00	604.075
384.40	603.225
391.00	602.385
393.60	602.155
398.40	602.450
400.35	603.235
402.45	603.765
404.25	604.315
410.85	602.655
413.00	606.525
414.55 Bankfull	607.625
418.30	608.895
423.00 GB**	608.595
RBHP***	699.140

Table EE-9. Cross section survey of slough 9.

October 14, 1981

Transect 5 Mouth of Slough 9

Station		Elevation
LBHP5*		597.705
GB**		597.295
2.00	Bankfull	597.225
4.60		596.295
7.60		595.645
12.10		594.805
15.15		593.985
17.50		593.335
21.9		593.675
33.25		594.075
42.00		593.640
47.45		593.325
53.95		593.725
67.30		592.545
81.35		591.710
90.40		591.395
103.10		591.475
112.05		591.225
130.05		591.355
146.60		591.545
167.70		591.330
181.90		591.115
188.15		591.030
188.80	L Water Sur. Elev.	590.745
188.80	L Water Edge	590.675
194.35		590.275
204.85		590.325
209.90		590.645
215.80	R. Water Sur. Elev.	590.725
215.80	R. Water Edge	590.665
216.30		590.750
221.20		591.31
226.90		593.705
231.40	Bankfull	598.985
238.25	GB**	599.075
238.25	RBNP***	599.675

Table EE-10. Cross section survey of slough 16B.

September 9, 1981

Transect 1 Mouth of Slough 16B

Station	Elevation
LBHP1*	703.49
GB**	702.98
2.0	702.43
5.0	701.70
7.0	700.81
10.0	700.55
12.0	700.30
16.0	699.74
19.0	699.32
22.0	699.04
25.0	698.82
30.0	698.58
35.0	698.38
40.0	698.04
45.0	697.80
50.0	697.66
56.0 L. Water Sur. Elev.	697.24
56.0 L. Water Edge	697.44
59.0	697.29
62.0	697.05
64.0	696.91
66.0	696.88
68.0	696.75
70.0	696.72
72.0	696.62
74.0	696.50
76.0	696.39
77.6	696.40
78.5	696.65
79.8 R. Water Sur. Elev.	697.23
79.8 R. Water Edge	697.15
84.9	700.17
95.35	700.91
95.35 GB**	700.91
95.35 RBHP***	701.32

Table EE-11. Cross section survey of slough 16B.

September 9, 1981

Transect 17 Dewatered

Station	Elevation
LBHP*	708.02
GB**	707.63
2.0	707.52
6.0	705.52
8.0	704.17
20.0	703.16
60.0	703.02
84.0	703.04
114.0	703.17
130.0	703.50
142.0	703.97
155.0	704.02
174.0	704.49
182.5	704.44
185.0	704.17
187.0	704.73
189.0	705.23
189.5	705.90
191.0	707.65
194.5 GB**	708.20
RBHP***	708.67

Table EE-12. Cross section survey of slough 19.

September 26, 1981

Transect 1 Mouth of Slough 19

Station	Elevation
LBHP1*	723.96
GB**	723.58
8.0	723.04
18.0	722.04
23.0	722.47
31.4	721.98
34.0	721.73
43.5	722.01
46.3 Bankfull	722.41
49.9	721.84
51.2	720.58
53.4	720.13
55.5 L. Water Sur. Elev.	719.18
55.5 L. Water Edge	719.06
56.05	718.92
56.55	718.86
57.1	718.79
57.55	718.91
57.85 R. Water Sur. Elev.	719.18
57.85 R. Water Edge	719.10
59.15	791.81
52.20	720.16
64.80	721.455
71.40	721.99
74.30	722.71
80.85	721.51
97.15 Bankfull	722.22
101.50	724.15
106.65	724.91
RBHP***	725.38

Table EE-13. Cross section survey of slough 19.

September 26, 1981

Transect 10

Station	Elevation
LBHP10*	725.32
GB**	724.94
3.45 Bankfull	723.82
4.50	722.30
5.70 L. Water Sur. Elev.	721.98
5.70 L. Water Edge	721.96
7.20	721.89
9.60 R. Water Sur. Elev.	721.98
9.60 R. Water Edge	721.95
16.55	722.33
12.2	723.60
13.5 Bankfull	723.82
16.15 GB**	725.16
16.15 RBHP***	725.72

Table EE-14. Cross section survey of slough 21.

September 5, 1981

Transect 1 Dewatered

Station	Elevation
LBHP*	759.42
GB**	758.82
22.0	758.18
34.0	756.52
40.0	755.86
50.0	754.32
61.5	753.81
69.0	754.53
75.5	754.30
79.0	753.72
81.9	754.05
96.0	754.01
105.0	755.03
123.0	755.70
135.6	755.85
139.3	755.24
155.8	755.98
159.1 GB**	756.06
RBHP***	756.67

Table EE-15. Cross section survey of slough 21.

September 5, 1981

Transect 1A Dewatered

Station	Elevation
LBHP*	757.30
GB**	756.88
50	756.79
12.0	756.42
20.5	755.97
26.6	755.81
29.5	755.35
34.5	756.80
39.0	757.90
50.0	758.90
57.6 GB**	759.94
RBHP***	760.47

Table EE-16. Cross section survey of slough 21.

August 25, 1981

Transect 13

Station	Elevation
LBHP*	750.45
GB**	750.08
2.0	750.04
7.0	746.02
13.5	745.07
20.0	745.75
42.0	745.08
66.0	745.51
82.0	745.71
86.2 L. Water Sur. Elev.	744.73
94.0	743.15
108.5	743.44
120.0	744.10
127.5	743.48
134.5	744.27
134.7 R. Water Sur. Elev.	744.73
138	750.77
141.5 GB**	750.96
RBHP***	751.30

Table EE-13. Cross section survey of slough 19.

September 26, 1981

Transect 1 Mouth of Slough 19

Station	Elevation
LBHP1*	723.96
GB**	723.58
8.0	723.04
18.0	722.04
23.0	722.47
31.4	721.98
34.0	721.73
43.5	722.01
46.3 Bankfull	722.41
49.9	721.84
51.2	720.58
53.4	720.13
55.5 L. Water Sur. Elev.	719.18
55.5 L. Water Edge	719.06
56.05	718.92
56.55	718.86
57.1	718.79
57.55	718.91
57.85 R. Water Sur. Elev.	719.18
57.85 R. Water Edge	719.10
59.15	791.81
52.20	720.16
64.80	721.455
71.40	721.99
74.30	722.71
80.85	721.51
97.15 Bankfull	722.22
101.50	724.15
106.65	724.91
RBHP1***	725.38

APPENDIX EF

Mainstem Susitna River discharge at Gold Creek versus time (May-October, 1981)

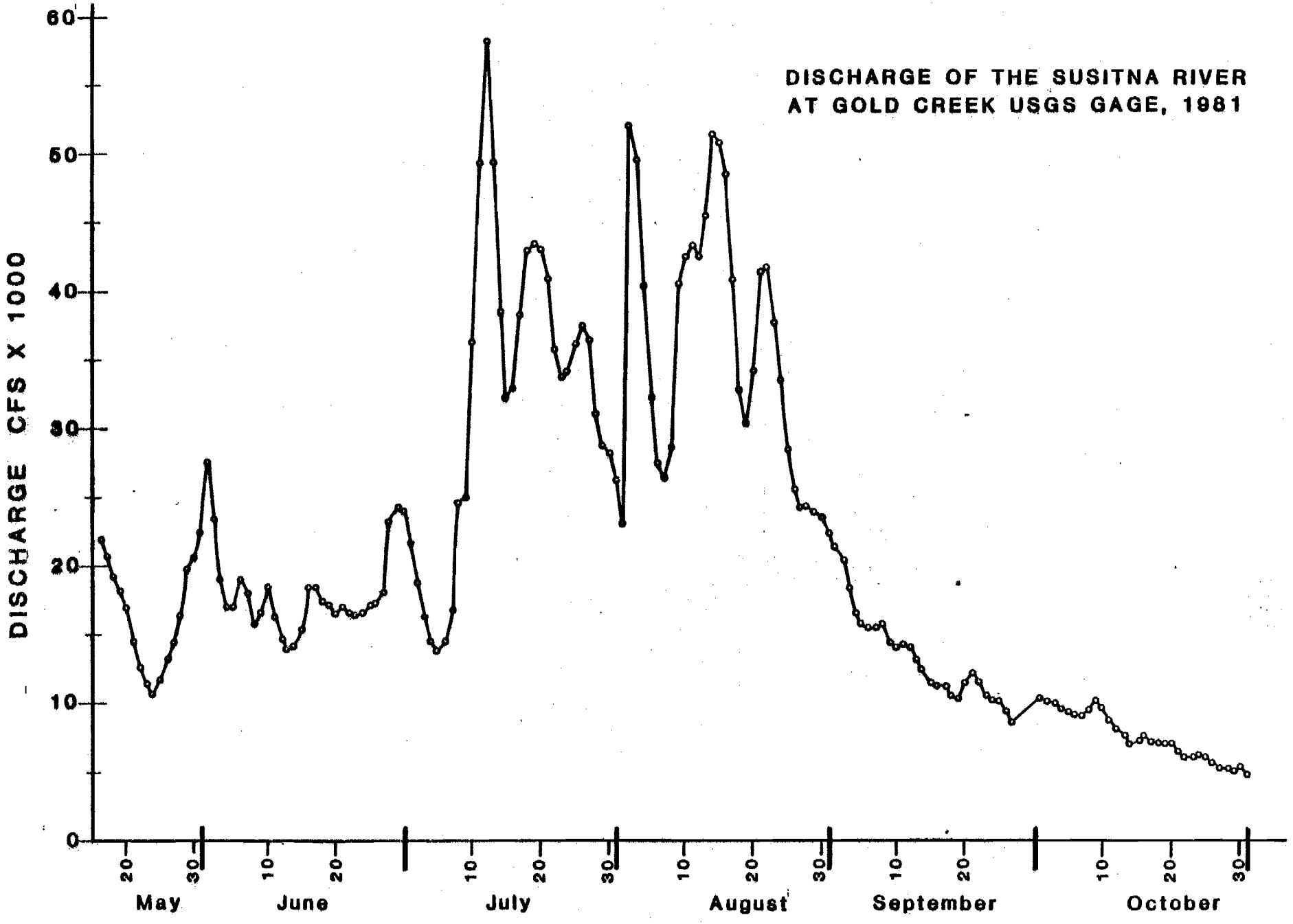

Figure EF-1. Mainstem Susitna River discharge at Gold Creek versus time (May - October, 1981).

APPENDIX EG

Methods supplement

METHODS SUPPLEMENT

Water Quality

Water Quality was evaluated at the fishery habitat evaluation and selected habitat evaluation staff gage placement sites in the study area below Devil Canyon and from the center of each index area in the study area above Devil Canyon. General habitat evaluation water quality data were collected twice monthly below Devil Canyon and once per month above Devil Canyon. Selected habitat evaluation water quality data were collected one time per seasonal period of low, medium, and high flows.

Dissolved oxygen (DO), pH, temperature, and specific conductance of surface waters were measured in the field with a Hydrolab model 4041 multiparameter meter. The instruments were operated following the manufacturers' instructions and when applicable calibrated according to the procedures established by the USGS (1981). Water samples for turbidity analysis were collected at the same time the preceding water quality field parameters were measured. Samples were collected in 250 ml plastic bottles filled two-thirds full and stored in a cool, dark location prior to analysis. Turbidity samples were returned to Anchorage at the conclusion of each sampling period for analysis on a Hach model 2100A turbidimeter. Air temperature was measured at these sites with a thermometer and shielded from the direct rays of the sun.

Surface water temperatures were continuously monitored at selected sites by Model J-90 Ryan thermographs to identify thermal characteristics within the study area. In addition to surface water temperatures, intragravel temperatures were continuously monitored by thermographs buried in the gravel to characterize the relationships between surface and ground water temperatures at selected habitat locations.

Hydrology

Mean column, point velocity, and depth measurements were measured with Marsh-McBirney, Price AA, or Pygmy flow meters and topsetting wading rods according to the respective manufacturers' instructions and procedures approved by the USGS (Smoot and Novak 1977; Buchanan and Somers 1973). Point velocities were measured at the same depth as the organism (i.e., fish) or object (i.e. minnow traps, spawning redd, etc.) of interest. The mean column velocity is the measurement of the average velocity in the same vertical plane as the preceding point velocity. In water with a depth of 2.5 feet or less, as measured with a topsetting wading rod, the mean column velocity was measured at the point located .6 of the total depth from the surface of the water. For depths greater than 2.5 feet, two velocities were measured to compute the mean column velocity. They were measured at .2 and .8 of the total depth from the surface of the water and averaged.

When using a Price AA or Pygmy flow meter, the velocity at the point of the current meter was determined by counting the number of signals ("clicks") per unit of time. Each meter was calibrated by the commercial supplier and an

UNITED STATES
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RATING TABLE FOR TYPE AA CURRENT METER

EQUATIONS: V=2.180R + .020 (2.200) 2.170R + .030 Std Rating No. 1

Time in Seconds	VELOCITY IN FEET PER SECOND									Time in Seconds
	Revolutions									
	3	5	7	10	15	20	25	30	40	
40	.183	.292	.401	.565	.837	1.11	1.38	1.65	2.20	40
41	.180	.286	.392	.552	.818	1.08	1.35	1.62	2.15	41
42	.176	.280	.383	.539	.799	1.06	1.32	1.58	2.10	42
43	.172	.273	.375	.527	.780	1.03	1.29	1.54	2.05	43
44	.169	.268	.367	.515	.763	1.01	1.26	1.51	2.00	44
45	.165	.262	.359	.504	.747	.989	1.23	1.47	1.96	45
46	.162	.257	.352	.494	.731	.968	1.20	1.44	1.92	46
47	.159	.252	.345	.484	.716	.948	1.18	1.41	1.88	47
48	.156	.247	.338	.474	.701	.928	1.16	1.38	1.84	48
49	.153	.242	.331	.465	.687	.910	1.13	1.35	1.80	49
50	.151	.238	.325	.456	.674	.892	1.11	1.33	1.76	50
51	.148	.234	.319	.447	.661	.875	1.09	1.30	1.73	51
52	.146	.230	.313	.439	.649	.858	1.07	1.28	1.70	52
53	.143	.226	.308	.431	.637	.843	1.05	1.25	1.67	53
54	.141	.222	.303	.424	.626	.827	1.03	1.23	1.63	54
55	.139	.218	.297	.416	.615	.813	1.01	1.21	1.61	55
56	.137	.215	.292	.409	.604	.799	.993	1.19	1.58	56
57	.135	.211	.288	.402	.594	.785	.976	1.17	1.55	57
58	.133	.208	.283	.396	.584	.772	.960	1.15	1.52	58
59	.131	.205	.279	.389	.574	.759	.944	1.13	1.50	59
60	.129	.202	.274	.383	.565	.747	.928	1.11	1.47	60
61	.127	.199	.270	.377	.556	.735	.913	1.09	1.45	61
62	.125	.196	.266	.372	.547	.723	.899	1.07	1.43	62
63	.124	.193	.262	.366	.539	.712	.885	1.06	1.40	63
64	.122	.190	.258	.361	.531	.701	.872	1.04	1.38	64
65	.121	.188	.255	.355	.523	.691	.858	1.03	1.36	65
66	.119	.185	.251	.350	.515	.681	.846	1.01	1.34	66
67	.118	.183	.248	.345	.508	.671	.833	.996	1.32	67
68	.116	.180	.244	.341	.501	.661	.821	.982	1.30	68
69	.115	.178	.241	.336	.494	.652	.810	.968	1.28	69
70	.113	.176	.238	.331	.487	.643	.799	.954	1.27	70
	3	5	7	10	15	20	25	30	40	

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RATING TABLE FOR TYPE AA CURRENT METER

Actual Rating Limits: 0.25 to 8.0 feet per second Date: 03-05-70

Time in Seconds	VELOCITY IN FEET PER SECOND									Time in Seconds
	Revolutions									
	50	60	80	100	150	200	250	300	350	
40	2.74	3.28	4.37	5.45	8.17	10.88	13.59	16.30	19.02	40
41	2.68	3.21	4.26	5.32	7.97	10.62	13.26	15.91	18.55	41
42	2.61	3.13	4.16	5.20	7.78	10.36	12.95	15.53	18.11	42
43	2.55	3.06	4.07	5.08	7.60	10.12	12.65	15.17	17.69	43
44	2.50	2.99	3.98	4.96	7.43	9.89	12.36	14.83	17.29	44
45	2.44	2.92	3.89	4.85	7.26	9.67	12.09	14.50	16.91	45
46	2.39	2.86	3.80	4.75	7.11	9.46	11.82	14.18	16.54	46
47	2.34	2.80	3.72	4.65	6.96	9.26	11.57	13.88	16.19	47
48	2.29	2.74	3.65	4.55	6.81	9.07	11.33	13.59	15.85	48
49	2.24	2.69	3.57	4.46	6.67	8.89	11.10	13.32	15.53	49
50	2.20	2.63	3.50	4.37	6.54	8.71	10.88	13.05	15.22	50
51	2.16	2.58	3.43	4.28	6.41	8.54	10.67	12.79	14.92	51
52	2.12	2.53	3.37	4.20	6.29	8.38	10.46	12.55	14.64	52
53	2.08	2.49	3.31	4.12	6.17	8.22	10.27	12.31	14.36	53
54	2.04	2.44	3.24	4.05	6.06	8.07	10.08	12.09	14.09	54
55	2.00	2.40	3.19	3.98	5.95	7.92	9.89	11.87	13.84	55
56	1.97	2.35	3.13	3.90	5.84	7.78	9.72	11.65	13.59	56
57	1.93	2.31	3.08	3.84	5.74	7.64	9.55	11.45	13.35	57
58	1.90	2.27	3.02	3.77	5.64	7.51	9.38	11.25	13.12	58
59	1.87	2.24	2.97	3.71	5.55	7.39	9.22	11.06	12.90	59
60	1.84	2.20	2.92	3.65	5.45	7.26	9.07	10.88	12.69	60
61	1.81	2.16	2.88	3.59	5.37	7.14	8.92	10.70	12.48	61
62	1.78	2.13	2.83	3.53	5.28	7.03	8.78	10.53	12.28	62
63	1.75	2.10	2.79	3.47	5.20	6.92	8.64	10.36	12.09	63
64	1.72	2.06	2.74	3.42	5.12	6.81	8.51	10.20	11.90	64
65	1.70	2.03	2.70	3.37	5.04	6.71	8.38	10.05	11.71	65
66	1.67	2.00	2.66	3.32	4.96	6.61	8.25	9.89	11.54	66
67	1.65	1.97	2.62	3.27	4.89	6.51	8.13	9.75	11.37	67
68	1.62	1.94	2.58	3.22	4.82	6.41	8.01	9.60	11.20	68
69	1.60	1.92	2.55	3.17	4.75	6.32	7.89	9.46	11.04	69
70	1.58	1.89	2.51	3.13	4.68	6.23	7.78	9.33	10.88	70
	50	60	80	100	150	200	250	300	350	

Figure EG-1. USGS type AA current meter rating table.

equation for the relationship between velocity and revolutions per unit time was derived. To facilitate field use, the equation was solved for a number of revolutions ("stop counts") and various time steps. A rating table (Figure EG-1) which shows the velocity for a given number of revolutions per time interval was provided with each meter. The real trick in using the rating table was to memorize the "stop counts". One counted clicks for at least 40 seconds, remembering to stop counting at one of the stop counts in the rating table. (Failure to do so would negate the ability to obtain the velocity directly from the rating table. One could not simply interpolate between stop count values given in the table; the rating curve equation had to be solved.) The rating table was usually constructed in one-second steps from 40 seconds to 70 seconds. When using a Marsh-McBirney electronic flow meter, the meter was set at the desired water depth and allowed to calibrate for 20 seconds prior to reading the meter.

Locations of point and mean column velocity measurements included minnow traps, salmon redds, gillnets, and trot line sites. Velocities were also measured at sites where fish were observed.

Minnow trap velocities were measured at the upstream mouths of traps each time they were set. Location and identification of salmon redds where velocity and depth were measured were based on standards established by the ADF&G (Estes, Hepler, and Hoffmann 1981) and the Arctic Environmental Information and Data Center, AEIDC (Baldridge 1981). Biologists selected vantage points within

study sites that allowed both good visability for observation and created the least disturbance to the fish. Polarized sun glasses were worn to screen out reflected glare from the water and increase the observer's efficiency. Redds were defined by direct observation of the repeated fanning and digging actions of the female at the same site. Redds were located by observing characteristic spawning behavior including biting and chasing of intruders by a male-female pair, or an individual adult remaining over a distinct excavated depression in the streambed. When a redd was located, the site was marked by methods similar to those used by Bovee and Cochnauer (1977). After all of the redds within a sampling site were identified, the velocities and depths were measured.

Velocities at set gillnet and trot line sites were measured at three equally spaced intervals along the length of the initial set when set perpendicular to the flow. When set parallel to the flow, one velocity measurement was taken immediately upstream of the net or trot line. Measurements which were recorded were collected when the gillnets and trot lines were set.

Every attempt was made to obtain velocity measurements. When location of fish sampling gear and water depth made these measurements impossible to obtain, this was noted on the point specific habitat evaluation form.

Staff gages were installed at fishery habitat and selected habitat evaluation sites in the study area below Devil Canyon. Staff gages were read twice monthly, with the exception of side sonar and fishwheel site staff gages which were read every six (6) hours when the sites were manned by AA crews.

A transect was surveyed and the stream bed profile determined in a plane perpendicular to the flow of water at each selected habitat gage site prior to installing a gage. Selected habitat staff gage elevations in the study area between Talkeetna and Devil Canyon were determined from the R&M Consultants datum used to establish streambed elevations. The staff gage was read before and after collecting the selected habitat discharge data. This information can be used to develop stage/discharge rating curves. Where applicable, mainstem discharge information will be obtained from the closest USGS gaging station as a control.

Discharge was measured at selected habitat locations during three seasonal flow periods (high, medium, and low). These measurements and the following discussion were based on procedures developed by the USGS (Smoot and Novak, 1977; Buchanan and Somers 1973), and USFWS Instream Flow Group (Bovee and Milhous 1978; Trihey and Wegner 1981).

Discharge was computed from the mean column velocity and depth information recorded at vertical columns (verticals) collected along the transects surveyed when placing the staff gages. A tagline was stretched across the water parallel to the transect. One attempted to subdivide the channel such that no more than 5% of the total flow passed between successive verticals. The spaces between verticals were termed cells. Verticals were placed such that they best described velocity distribution and changes in the cross sectional channel geometry. If the direction of flow was not at right angles to the cross section, the velocity vector normal to the section was located. The cosine of the horizontal angle (Figure EG-2) was measured by holding the discharge measurement note sheet in a horizontal position with the point of

origin (O) on the left edge over the tag line, bridge rail, or any other feature parallel to the cross section. With the long side parallel to the direction of flow, the tagline or bridge rail would intersect the value of the cosine of the angle (a) on the top, bottom, or right edge. The measured velocity was multiplied by the cosine of the angle to determine the velocity vector component normal to the section measured.

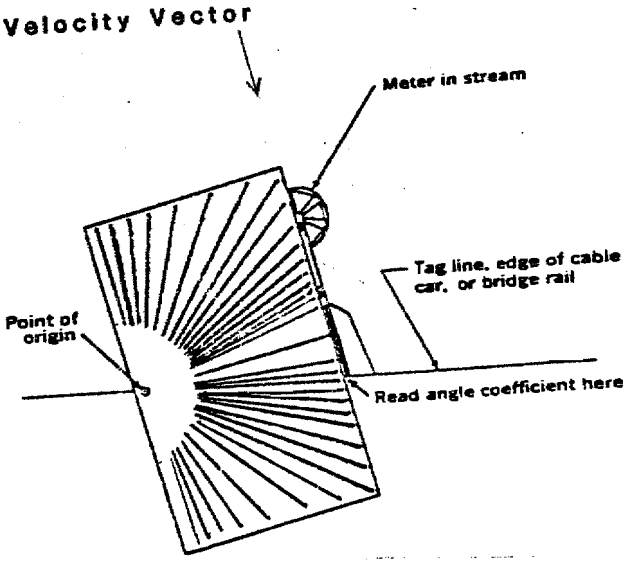


Figure EG-2. Measurement of Horizontal Angles (from Buchanan and Somers 1973).

Substrate data were collected based on procedures used by the AEIDC (1981), ADF&G (Estes, Hepler, and Hoffmann 1981) and Shirazi (1979), at fishery

habitat evaluation (point specific and general habitat) and selected habitat evaluation sites.

Selected habitat evaluation substrate data were collected along the discharge measurement transect(s) at each velocity and depth measurement site. Point specific habitat evaluation substrate data collected from a 2 foot radius around velocity and depth measurement sites.

Substrate classes were assessed by selecting up to three prodominant substrate groups and recording the percent of each. The size and type of substrate was grouped into the following classes:

0. Organic Detrius
1. Silt Clay
2. Sand
3. 1/16" - 1/4"
4. 1/4" - 1"
5. 1" - 3"
6. 3" - 5"
7. 5" - 10"
8. 10" +
9. Bedrock

Notes were also made as to the presence and amount (% cover) of periphyton (attached algae) and other aquatic vegetation.

Maps were drafted which identified substrate data sampling sites and the locations of various substrate classes (DATA PROCEDURES). The boundary between each distinct substrate class area within the sampling site was delineated on the planimetric View Map form (AH-81-03). The substrate

classification within each of these distinct areas was also identified and recorded on the map. Substrate from each of these areas was photographed. Photographs were taken at each transect using photography procedures similar to those used by R&M Consultants (Griffiths 1981). A 60 x 60 cm grid subdivided into 5 x 5 cm squares (Figure EG-3) or a ruler was placed on top of the substrate and photographed (Kellerhals and Bray 1970; Griffiths 1981).

Mapping

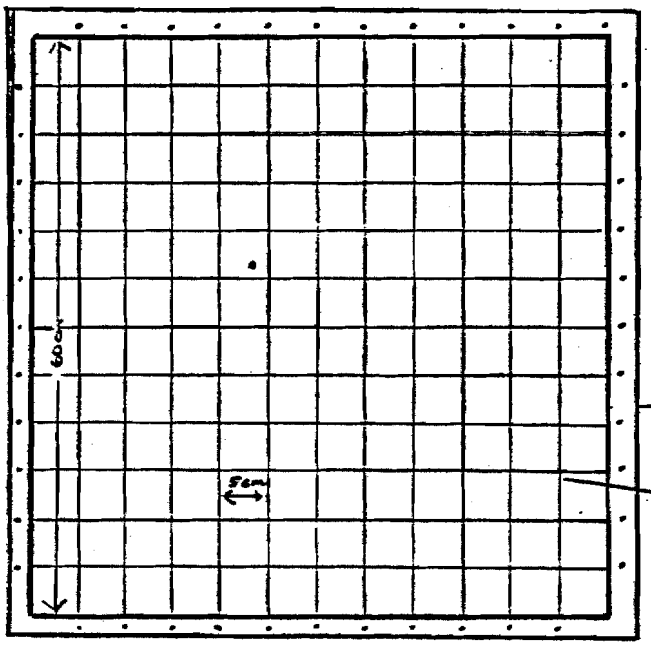
An upstream view cross-sectional profile map was drafted for each staff gage transect (Figure EG-4). The staff gage location and the channel dimensions; top width, wetted perimeter, bankfull top width, and water's edges, of the cross sectional profile were included when possible. Definition of terms follow:

Top Width: The top length of the water surface of a channel cross section measured in a plane perpendicular to the direction of the flow between the two water's edges.

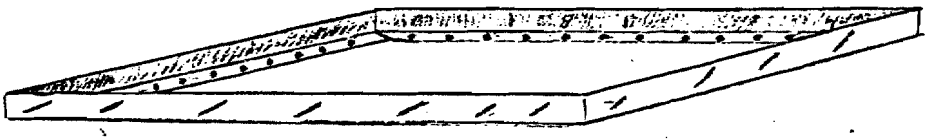
Wetted Perimeter: The length of the submerged portion of a channel cross section measured in a plane perpendicular to the direction of flow between the two water's edges.

Bankfull Top Width: The top width of a channel cross section measured in a plane perpendicular to the direction of flow between the two highest water's edgemarks.

Water's Edge: The point where the water surface comes into contact with the bank.



TOP VIEW



SIDE VIEW WITH FRAME UPSIDE DOWN
SHOWN WITHOUT WIRES

Figure EG-3. Substrate Grid Diagram.

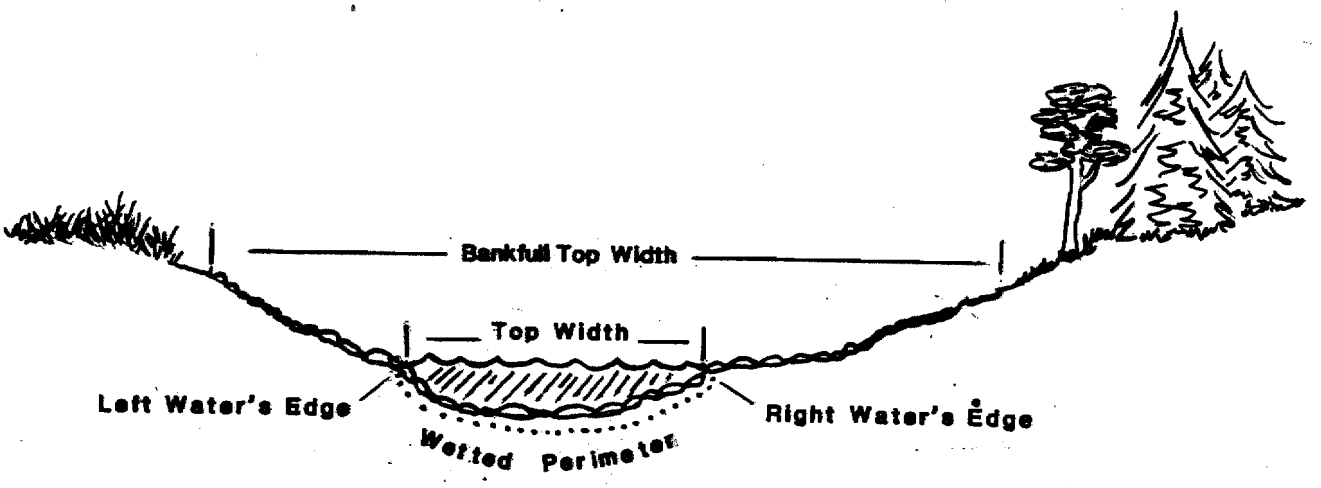


Figure EG-4. Cross Sectional Profile Diagram.

Selected habitat evaluation sites were morphometrically mapped (Figure EG-5). A tag line was stretched along transects to determine horizontal distances between the two banks and the position of each vertical depth measurement between them. An electronic distance measuring (EDM) system was substituted for taglines when the distance between the bank was greater than 150 feet. Depths were measured from a boat with a Raytheon Model DE 719B portable survey fathometer or on foot with a wading rod depending upon depth and accessibility. Where use of the tag line and/or wading rod was not feasible due to the length of transect and depth of water, the following method was used. A person located on the shore would operate an EDM and direct the boat operator via two-way radio. When the boat crossed the transect, a distance registered on the EDM and manually recorded. At the same time that distances were measured, a radio signal was transmitted to the boat and a marking device was triggered by the boat operator to record the depth on the fathometer chart.

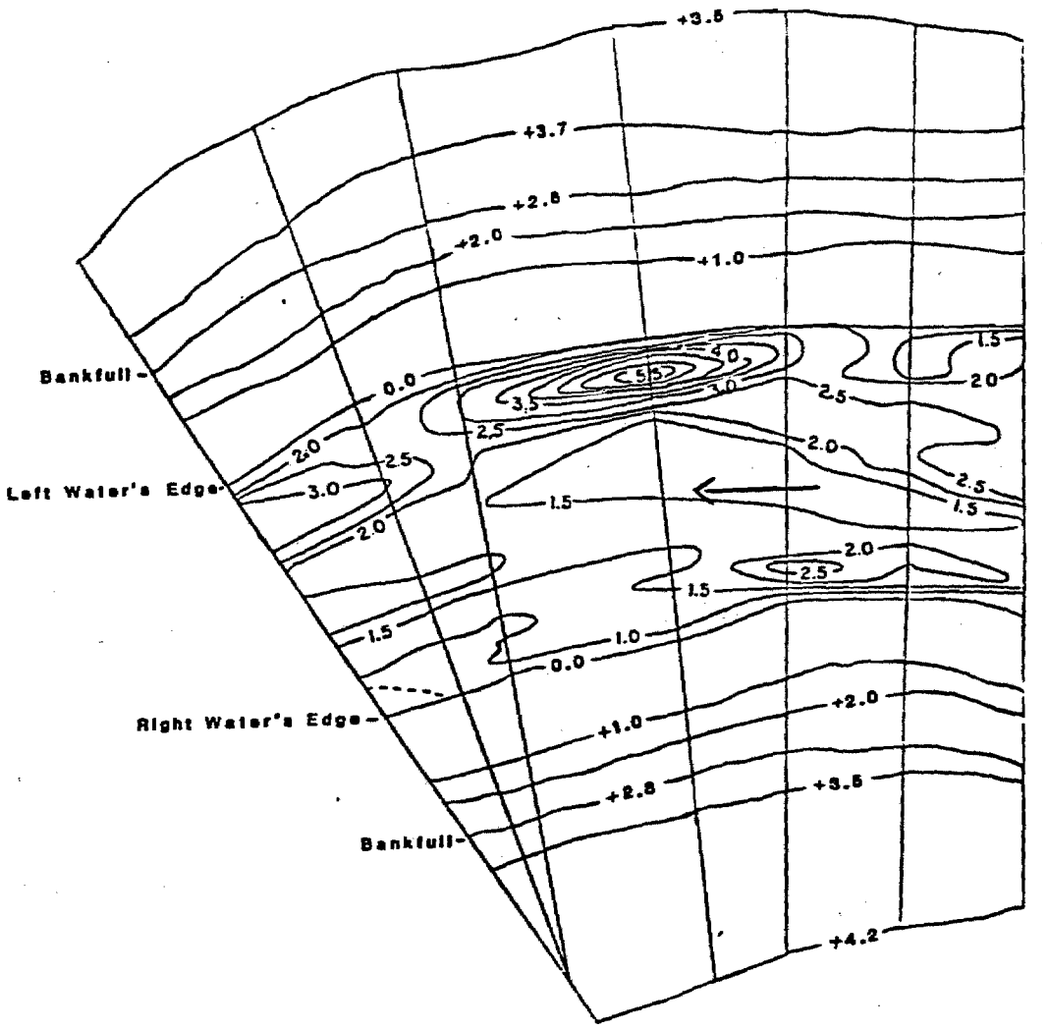


Figure EG-5. Example of morphometric map with depths and elevations in feet (modified from Bovee and Cochnauer, 1977).

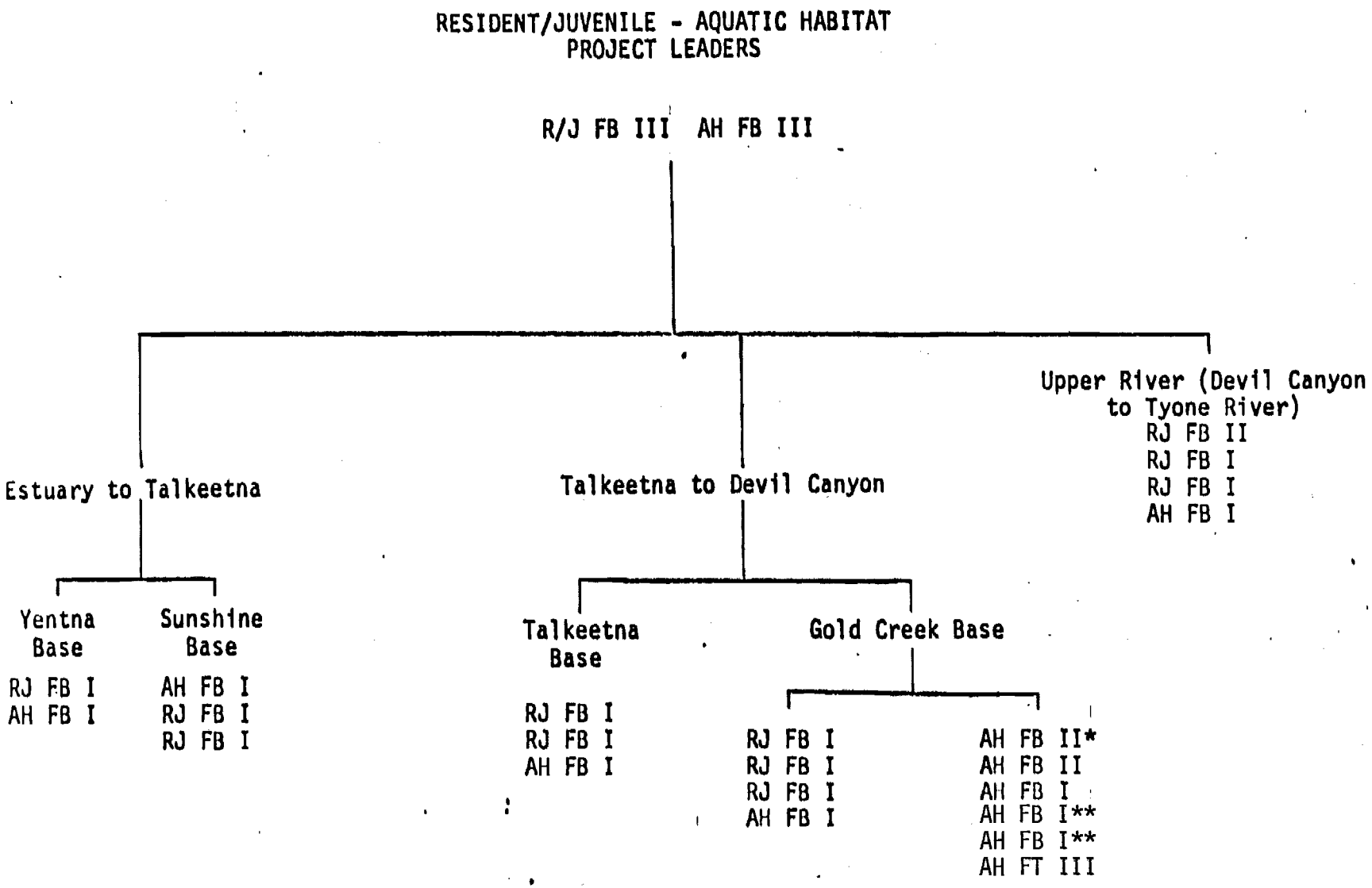
At least one photograph was taken at each of the fishery habitat and selected habitat evaluation sampling sites which represented the general habitat. Additional slides were taken to depict a unique situation or habitat type.

The information recorded on the top of the General Aquatic Habitat form (AH-81-01) was photographed for site identification prior to photographing the sampling site. Each AH crew member maintained a personal log book and established a section to record the photography information. Orientation (i.e. upstream view, downstream view, etc.), subject, time, and date were noted. Each roll of film and canister was assigned a number before use. As an example, the first roll of film being used by Roy Ball in 1979 would be labeled RB-79-01, the second RB-79-02, etc. He would list each photo under this number in his logbook, identify the date, stream name, survey area, and section number. The roll and canister number and the quantity of photos taken will also be recorded in the related data column space of the General Habitat Evaluation form (AH-81-01).

Level of Effort

Aquatic Habitat personnel were distributed within the study area as illustrated in Figures EG-6 and EG-7. The AH staff included one (1) FB III, two (2) FB II's and six (6) FB I's. Aquatic Habitat, RJ and AA crew members jointly collected Fishery Habitat Evaluation data.

RESIDENT AND JUVENILE ANADROMOUS (RJ) AND AQUATIC HABITAT AND INSTREAM FLOW (AH) STUDY
PERSONNEL DEPLOYMENT - ICE FREE MONTHS



*Selected Habitat Evaluation Study Crew.

**Data reduction and coding

Figure EG-6

RESIDENT AND JUVENILE ANADROMOUS (RJ) AND AQUATIC HABITAT AND INSTREAM FLOW (AH) STUDY

PERSONNEL DEPLOYMENT - ICE COVERED MONTHS

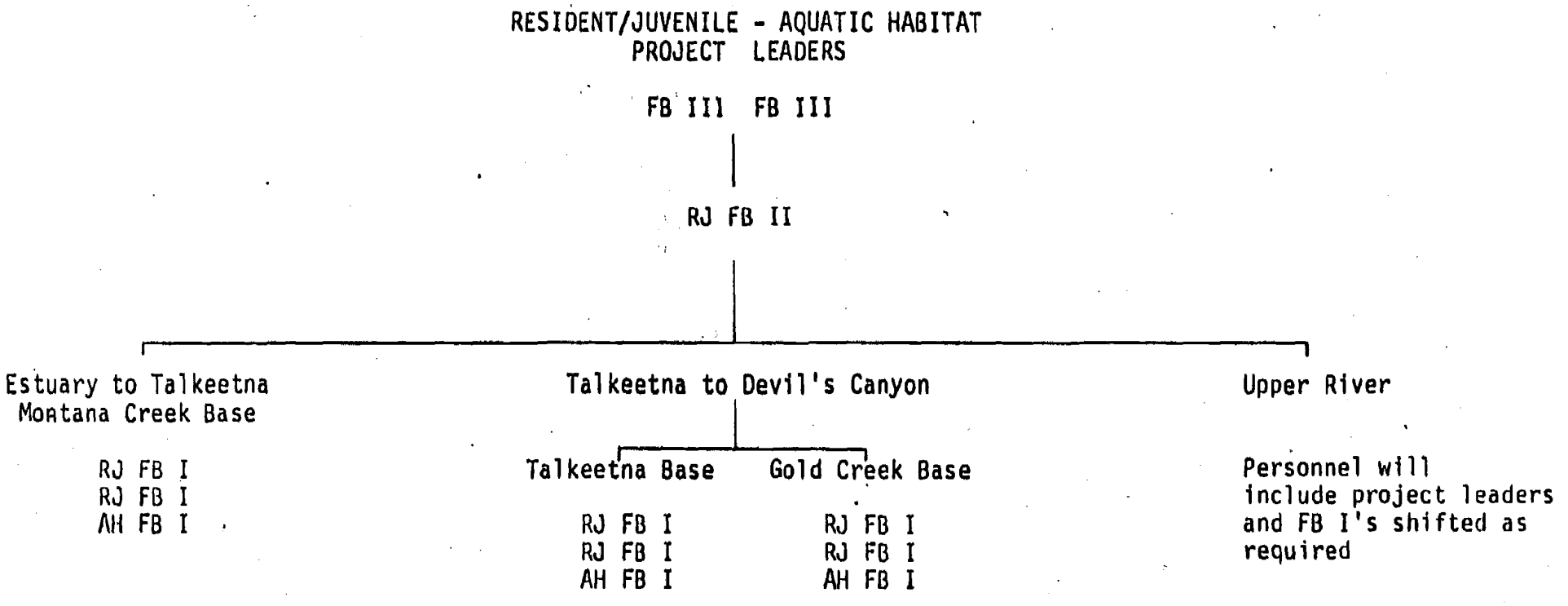


Figure EG-7.

DATA PROCEDURES

Assigning Gear Placement Site Numbers (GPSN)

The GPSN is a two-part code which identifies gear type and sample number, thus providing a sampling location designation for each point specific measurement made within a given sampling site.

The first part of the code indicates gear type employed at the sampling location; the second part indicates sample number. For example, if three minnow traps were set within a sampling site, the GPSN's would be: 5-01, 5-02, 5-03.

Gear code designations are as follows:

Gear Type	Code
Beach Seine	3
Burbot Set	10a
Drift Gillnet	1a
Electroshock	2
Gillnet	1
Hook and Line	9
Minnow Trap	5
Trot Line	10
Observation	0

GPSN's were included when mapping a sampling site. RJ and AA crew members assigned GPSN's and provided AH personnel with this information to facilitate the correlation of data. AH personnel assigned GPSN's when fishery data were not being collected.

Personal Log Book

A personal log book was maintained by each AH crew member. Daily entries were to include the following:

Date: Year, month, day

Sites visited and activities of that day

Weather: Air temperature, precipitation, cloud cover, wind, etc.

Military Time: Twenty-four (24) hour system

Water Conditions: Turbidity, clarity, color, odor, ice stage, floating debris, etc.

Sampling Problems

Equipment Problems

Suggestions for changes or improvements

Personal Impressions

Record of Photographs: Establish a separate section in the personnel log book for the following data: frame number, roll number, orientation, location, date, and time.

Crew Members: Names of AA, RJ, and AH sampling crew.

Completing Aquatic Habitat Forms

Instructions that were followed for completing the AH forms are explained in this section. The numbers introducing each instruction corresponds to a number encircled in the appropriate form. Numbers one (1) through ten (10) apply to all forms with the exception of Staff Gage form (AH-81-05) while

numbers greater than ten (10) apply to the specific form under which they are listed. On the staff gage form, numbers one (1) through six (6) refer to the general instructions whereas numbers seven (7) through thirteen (13) refer to specific information.

General Instructions

1. File No.: Indicates file location.

2. Crew: List names or initials of personnel making measurements and entering data on form.

3. Habitat Location: Enter descriptive name of study area (i.e. Slough 8A).

4. Sampling Site: Enter descriptive name of the sampling area within the habitat study location (i.e. head, mouth, etc.).

5. River Mile: Enter the number of miles from the river mouth to the habitat location. River miles are indicated on the Alaska Power Authority's Susitna River hydrographic map set.

6. Geographical Code (GC): Enter the 12 digit code identifying the sampling location.

7. Gage Number (no.) and Height (ht.): Record the established identification number for the gage and the stage reading (i.e., water depth at the gage).

8. Sampling period: Enter the the beginning and ending dates (General Habitat Form AH-81-01) for period which data was collected.

9. Page: Indicate the page number and the total number of pages used (i.e. 1 of 5, 2 of 5, 5 of 5).

10. Description: Enter any information which helps describe the sampling site or the sampling location (i.e. bend in river, riffle 100 yards downstream of small island, river is braided, straight, or meandering, etc. Figure EG-8).

General Aquatic Habitat Evaluation Form (AH-81-01)

This form to be completed in the field when measuring the general aquatic habitat parameters discussed in the study description.

Instructions:

1-10. Refer to general instructions.

11. Date: Enter date measurement is being taken.

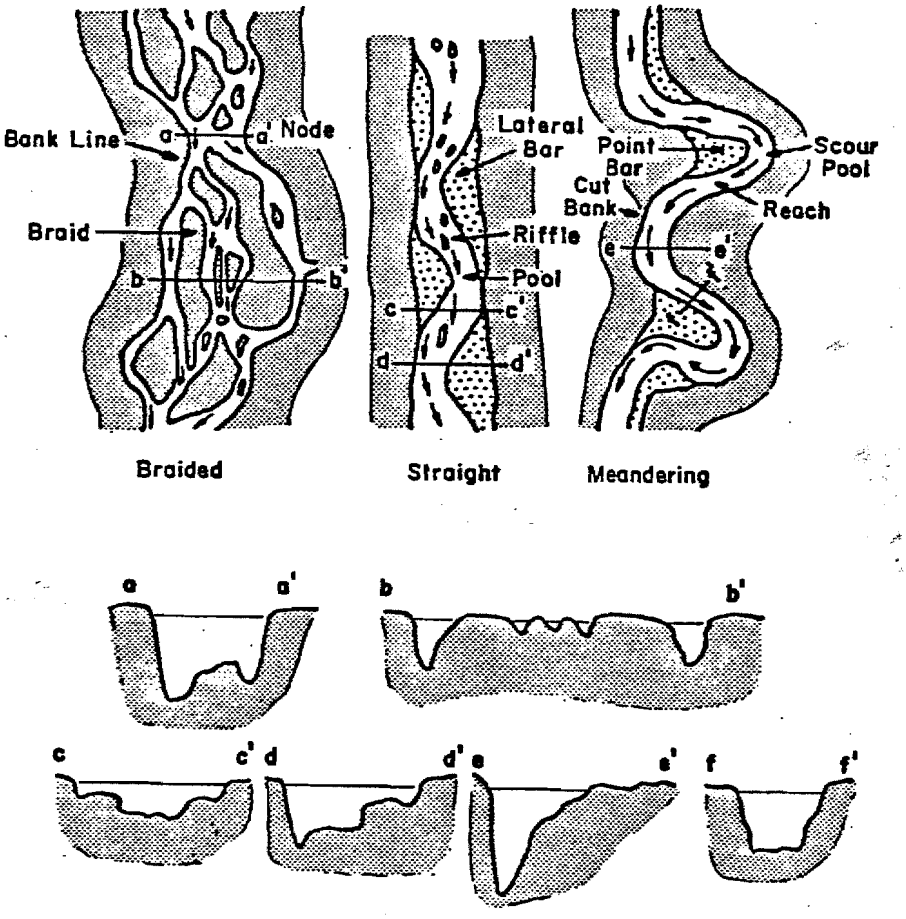


Figure EG-8.River channel patterns (from Richardson et al, 1975).

12. Military Time: Enter time using the 24 hour system (i.e. for 1:00 p.m., enter 1300).

13. Temperature (Temp) °C: Enter air and water temperature.

14. Specific Conductance (Cond, mhos/cm): Enter specific conductance value as measured by the procedure described in the methods section.

15. pH: Enter value as measured using the procedure described in the methods section.

16. Dissolved Oxygen (D.O., mg/l): Enter value as measured following the procedure in the methods section.

17. Meter and Serial Number: Enter type of meter and serial number.

18. Turbidity (NTU): Indicate with a check (✓) on left side of blank that a turbidity sample was taken, enter turbidity value after analysis.

19. Discharge (cfs): Indicate with a check on left side of blank when measurement is made, enter value after calculated from the discharge data form.

20. Related Data: Record number of any data forms that you know were filled out at the same time and place, film roll number and number

of photos taken and identification of photographer or other data that will relate (i.e., USGS, R&M etc.).

21. Date: Enter date data collected.

22. Aquatic Vegetation: Estimate the percent of the area within the sampling site covered by aquatic vegetation, specify if algae or macrophyte.

23. Substrate Classification (0-9): Estimate the three major substrate types within the sampling site and enter their respective percentages, also not if other identifiable size classes are present in minor amounts by entering a P for present.

24. Embeddedness: These data were not collected.

Point Specific Aquatic Habitat Evaluation Form (AH-81-02)

This form to be completed in the field when measuring the point specific habitat parameters discussed in the study description.

Instructions:

1-10. Refer to general instructions.

11. Date: Enter the date these measurements were taken.

12. GPSN: Enter the two-part gear placement site number (GPSN) which identifies the type of fish sampling gear indicated in the gear code and the sample number (i.e. trot line sample #3 would be 10-3).

13. Depth: Enter water depth at the gear placement site.

14. Velocity: Enter the point velocity at the depth of the sampling gear and the mean column velocity.

15. Substrate: Enter the percent and the class number of each sediment size class (up to three) identified within a two (2) foot radius of each velocity/depth measurement point.

16. Embeddedness: These date were not collected.

17. Aquatic Vegetation: Enter the percent (%) cover of algae or vascular plants within a two (2) foot radius of the gear placement site.

18. Related Data: Record the data form number of any data collected at the same time and site. Also note any observation which may be pertinent to the sample (i.e. minnow trap placed under cut bank, number of fish at three (3) foot intervals along gill net, etc.).

19. Notes: Include any information which may help in interpreting data. For example: document <u>any</u> deviation from the methods described in

the Procedures Manual and the conditions which prevented use of conventional methods, unusual weather or other circumstances.

Planimetric Map Form (AH-81-03)

A map describing the study habitat site is drawn on this form in the field.

Instructions:

1-10. Refer to general instructions.

11. Draft map to include the following:

Substrate

Cover

Bankfull top width and top water width

Pools and riffles

Channel dimensions

Location of staff gages and transect

Location of sampling gear (use GPSN)

Compass orientation

Discharge Form (AH-81-04)

This form to be completed in the field to record total discharge measurements and calculations.

Instructions:

1-10. Refer to general instructions.

11. Type Meter and Number: Record the type of meter (i.e., Price AA, Pygmy or Marsh McBirney meter) and the serial number.

12. Distance From Head Pin or Water's Edge: The horizontal measurement from the head pin or waters edge to each vertical along the transect.

13. Angle Coefficient: A correction factor for the angle of flow as it intersects the transect line. Values fall between 0.00 and 1.00 and are determined by use of an angle coefficient chart.

14. Velocity Depth: This is the vertical distance from the water surface to the channel bottom at each vertical measured to the nearest 0.1 foot if possible.

15. Streambed Elevation: Computed at each vertical by subtracting the velocity depth from the average of the right bank (RB) and left bank (LB) water surface elevations for that transect at that particular flow. Left and Right banks are determined by looking upstream. These data are collected only where surveyed head pins are established.

16. Observation Depth: Indicate at what depth the point velocity was measured. Velocity will be measured at .6 of the depth from the surface for a depth less than three (2.5) feet and .2 and .8 for depth greater than three (2.5) feet.

17. Revolutions: Recorded number of revolutions when using a Price AA or Pygmy flow meter. When using a Marsh McBirney meter draw a line through this column.

18. Time: Recorded in seconds by use of a stopwatch, when using a Price AA or Pygmy flow meter. When using a Marsh McBirney meter draw a line through this column.

19. Point Velocity: This is the velocity obtained from the rating table using revolution and time information or the velocity reading from a direct readout meter.

20. Mean Vertical Velocity: The average of the 0.2 and 0.8 point velocity readings for the vertical. If the velocity was measured only at 0.6 the depth this is the same as the point velocity.

21. Mean Cell Velocity: The average of the two adjacent mean vertical velocities. These are normally grouped beginning from the LB to the RB water's edges.

22. Mean Cell Depth: The average of the depths of two adjacent verticals.

23. Cell Width: The horizontal distance between adjacent verticals.

24. Cell Area: Computed by multiplying each mean cell depth with the cell width.

25. Flow (Discharge): Computed by multiplying each cell area by its respective mean cell velocity, and when applicable, the angle coefficient and totalling the resultant values.

26. Date: Enter the date the measurement is taken.

Staff Gage Form (AH-81-05)

Used to keep a complete record of all readings made on a specific staff gage.

Instructions:

1-6. Refer to general instructions.

7. Page: Indicate the page number and the total number of pages used.

8. Staff Gage No.: Enter the established identification number.

9. Calibration Factor: Distance from channel bottom to zero mark on gage.

10. Date: Enter date of reading.

11. Time: Record military time of reading.

12. Height: Record stage reading to the nearest 0.01 foot.

13. Q: Enter discharge of nearest USGS gage when available.

14. Initial: Initials of person who records staff gage data.

QUALITY CONTROL

A systematic approach for maintaining desired standards for the measurement of field parameters was established for the instruments used in this study. Thermometers were periodically compared to a National Bureau of Standards (NBS) standard thermometer for the range of temperatures to be encountered. If present, variations were noted and correction factors calculated and taped onto each thermometer.

Thermographs were calibrated by the manufacturer for temperature and timing. Operational thermographs were periodically inspected in the field comparing the temperature and time on the chart with the known time and temperature data. A mark was made on the chart at that point.

Water quality instruments were periodically evaluated by the USGS. Whenever a question arose concerning quality control, the USGS, EPA, and manufacturer of the data collection device were consulted.

Literature was periodically reviewed to insure that state-of-the-art data collection and analysis techniques were being observed. A hydraulic engineer was consulted to evaluate the accuracy of data collection and analysis techniques. The USFWS was periodically consulted to evaluate the accuracy of instream flow data collection and analysis techniques.

The project biometrician was consulted to evaluate the accuracy and statistical merit for collecting data.

State-of-the-art habitat data collection and analysis courses were attended when it was determined attendance will improve the quality of the program.

The field data were reviewed periodically by the field biologist responsible for its collection. A brief narrative (trip report) was prepared upon returning from the field summarizing the habitat characteristics described by the data set. Any abnormal or intervening field conditions or sampling problems which might have biased the data set are also to be discussed in the narrative.

Data Routing

Raw data were returned by the field crews to the Anchorage Su Hydro office for copying and filing at the end of each sampling period.

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File No. _____ GENERAL AQUATIC HABITAT EVALUATION AH-81-01 Page ____ of ____

Crew _____

Habitat Location _____ Sampling Site _____ River Mile _____ GC __ __ __/__ __ __/__ __/__ __ __/__

Description _____

DATE	TIME	GAGE NO.	GAGE HT.	TEMP. AIR	TEMP. H_2O	D.O. mg/l	pH	SPEC. COND.	METER* & SERIAL#	TURBIDITY (NTU)	DISCHARGE (CFS)	COMMENTS AND RELATED DATA

NOTES:

*Meter Type: A-Hydrolab; B-Other (Specify)

(ADF&G/Su Hydro, Habitat, 7/81)

File No. 03-81-7.10-____

POINT SPECIFIC AQUATIC HABITAT EVALUATION
AH-81-02

Page ____ of ____

Crew _____

Sampling Period _____ to _____

Habitat Location _____ Sampling Site _____ River Mile ___ GC ___ / ___ / ___ / ___ / ___

Description _____ Gage No. _____ height _____

DATE	GPSN	DEPTH	VELOCITY POINT*	VELOCITY MEAN	METER** SER.NO.	SUBSTRATE*** %CLASS	SUBSTRATE*** %CLASS	SUBSTRATE*** %CLASS	EMBEDDEDNESS Size 4-9	EMBEDDEDNESS %	EMBEDDEDNESS Size 0-3	VEG	COMMENTS AND RELATED DATA

EG-34

* ≤ 2.5 ft. measure at .6
> 2.5 ft. measure at .2 and .8

** Meter type: A-Marsh McBirney:
B- Price AA; C Pygmy

*** Substrate Codes

0 Organics	3 1/6"-1/4"	6 3"-5"
1 Silt	4 1/4"-1"	7 5"-10"
2 Sand	5 1"-3"	8 7"-10"
		9 Bedrock

(ADF&G/Su Hydro, Habitat, 7/81)

File No. _____ PLANIMETRIC MAP Page ___ ___

AH-81-03

Date _____ Gage #_____ Height _____

Crew _____

Habitat Location _____ Sampling Site _____ River Mile _____ GC ___ ___ / ___ ___ / ___ ___ / ___ ___ / ___

Description _____

(ADF&G/Su Hydro, Habitat 5/81)

File No.________ DISCHARGE AH-81-04 Page____of____

Crew____________ Date________

Habitat Location________ Sampling Site________ River Mile____ Meter Type____ No.____

GC _ _ _ _ / _ _ _ _ / _ _ _ / _ _ _ _ / _ Gage Number____ Height____

Description________

Distance from Head Pin (ft) LB RB	Angle Coef.	Vel. Depth (ft.)	*Stream-bed Elev.*	Obs. Depth %	Revo-lutions #	Time (sec)	*Velocity fps*			*Mean Cell Depth (ft.)*	*Cell Width (ft.)*	*Cell Area ($ft.^2$)*	*Flow (ft^3/s)*
							Point	*Mean Vertical*	*Mean Cell*				

(ADF&G/Su Hydro, Habitat 5/81)

STAFF GAGE NO. 10
AH-81-05

File No. ________ Page ___ of ___

Crew ________ GC__ __ __/__ __ __/__ __/__ __ __/__

Habitat Location ________

Sampling Site ________ River Mile ________

Calibration Factor ________

Date	Time	Height	Q	Initial	Date	Time	Height	Q	Initial

(ADF&G/Su Hydro, Habitat 5/81)

Appendix EH.
Incidental data.

Table EH-1. Study Site - Mushmeat Slough (MS-38)

River Mile 68.3

Geographic Code - 22N 05W 13 AAB

Date	Time	Depth (ft.)	Velocity	Location
810921		0.80	0.71	head of chum redd
810921		1.00	0.04	middle of chum redd
810921		0.75	0.06	below chum redd

Table EH-2. Study Site - Perdidula Slough System

River Mile 97.8

Geographic Code - 26N 05W 23 B--

DATE	TIME	D O (MG/L)	PH	SPEC COND MICROMHOS/CM	TEMP - °C AIR	TEMP - °C H2O	LOCATION
811006	1130	10.70	7.60	136.00	9.00	4.80	Pool A
811006	1130	8.40	7.60	162.00	9.00	5.50	Pool B
811006	1130	8.10	7.30	245.00	9.00	4.70	Pool C
811006	1130	10.10	7.50	248.00	9.00	4.50	Pool D
811006	1130	10.10	7.40	252.00	9.00	4.50	Pool E
811006	1130	10.80	7.50	269.00	9.00	4.30	Pool F
811006	1130	11.50	7.60	274.00	9.00	4.00	Pool G

Table EH-3. Study Site - Slough 8A

River Mile 125.3

Geographic Code 30N 03W 30 BCD

Date	Time	Depth (ft)	Velocity	Location
810808		1.5-2.0	0-.01	Chum Redd (1)
810808		1.0-1.5	0-0+	Chum Redds (4)

Table EH-4. Study Site - Indian River Mouth

River Mile 138.6

Geographic Code 31N 02W 09 CDA

Date	Time	Depth (ft)	Velocity	Location
810810		1.6	2.20	Chinook holding in current
810810		1.4	3.89	Chinook holding in current

Table EH-5. Study Site - Indian River Mouth

River Mile 138.6

Geographic Code 31N 02W 09 CDA

Date	Time	Depth (ft)	Velocity	Location
810810		1.0	0.843	Male and Female chum holding

Table EH-6. Study Site - Portage Creek Mouth

River Mile 148.8

Geographic Code 32N 01W 25 CDB

Date	Time	Depth (ft)	Velocity	Location
810805		1.5	0.383	Chinook milling