

E. WOODY TRIHEY & ASSOCIATES
INSTREAM FLOW AND RIVERINE HABITAT ASSESSMENTS

P.O. BOX 111774
ANCHORAGE, ALASKA 99511
(907) 562-7707

NOV 6 1984
CONFIDENTIAL: UNPUBLISHED WORK
PRODUCT PREPARED IN ANTICIPATION
OF LITIGATION; RESTRICTED
DISTRIBUTION

TO: Aquatic Studies Group
FROM: Woody Trihey *Woody*
SUBJECT: Geographic Locations of Habitat Inventory Reconnaissance Sites
DATE: October 30, 1984

Attached for your information is a set of plates of the middle Susitna River with the geographic locations of our habitat inventory reconnaissance sites delineated. Please contact us if you need additional copies.

EWT/ds

cc: Larry Gilbertson
Bill Wilson
Christopher Estes
Dana Schmidt
Bruce Barrett
Larry Moulton
Steve Bredthauer

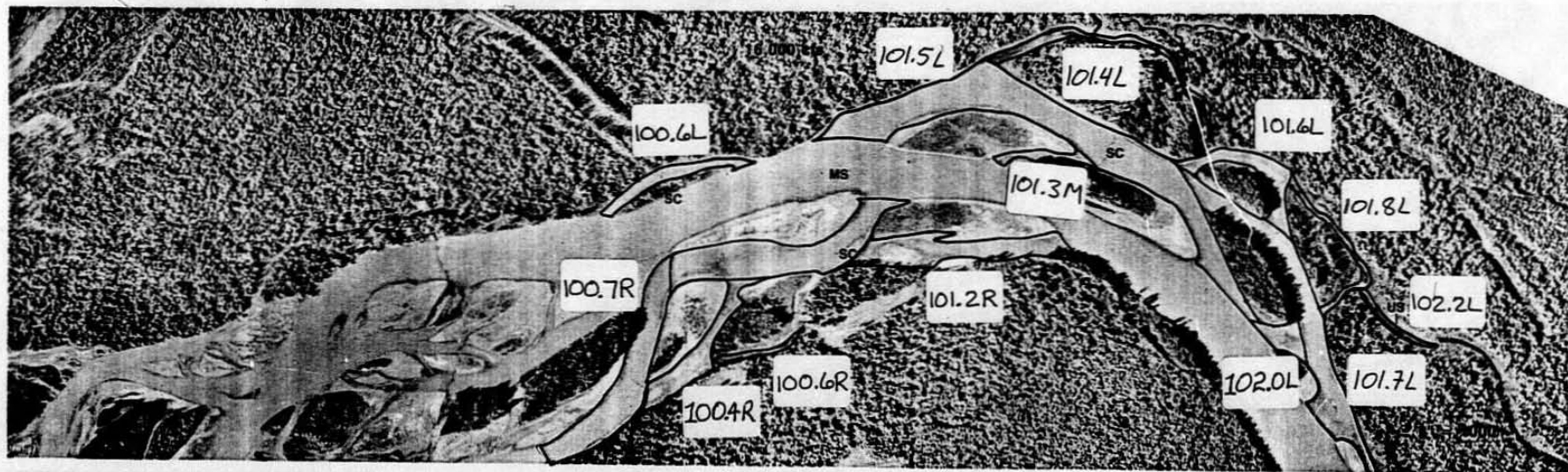
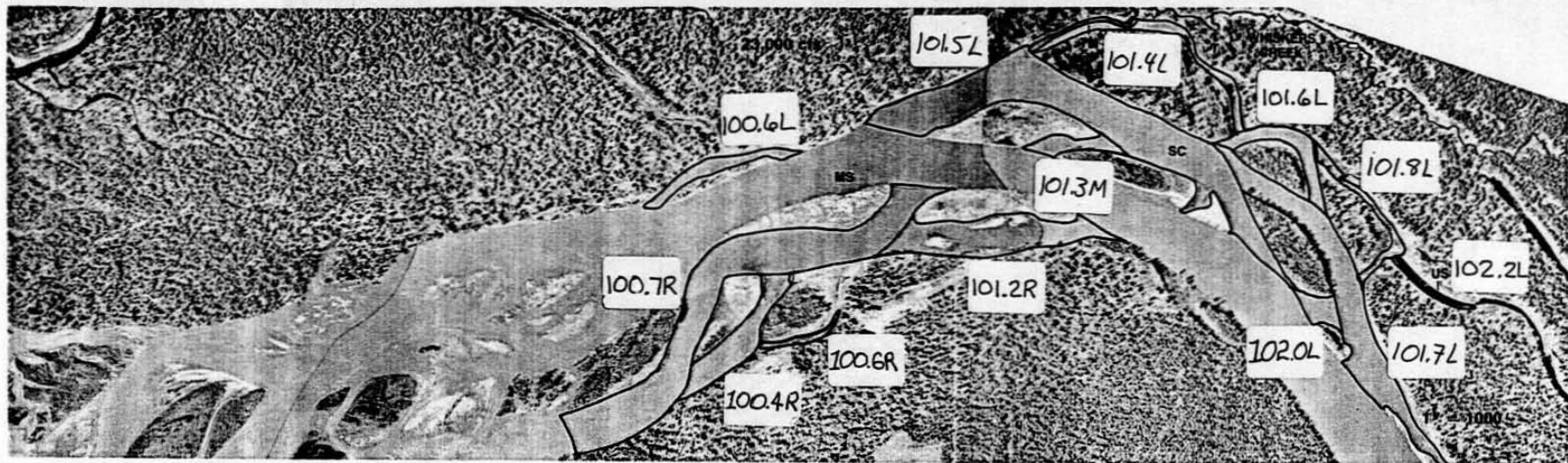
Designations

345
412

EWTA

Channel Designations

505
412



LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

MIDDLE SUSITNA RIVER

PLATE 18 OF 18 RIVER MILE 101 TO 102

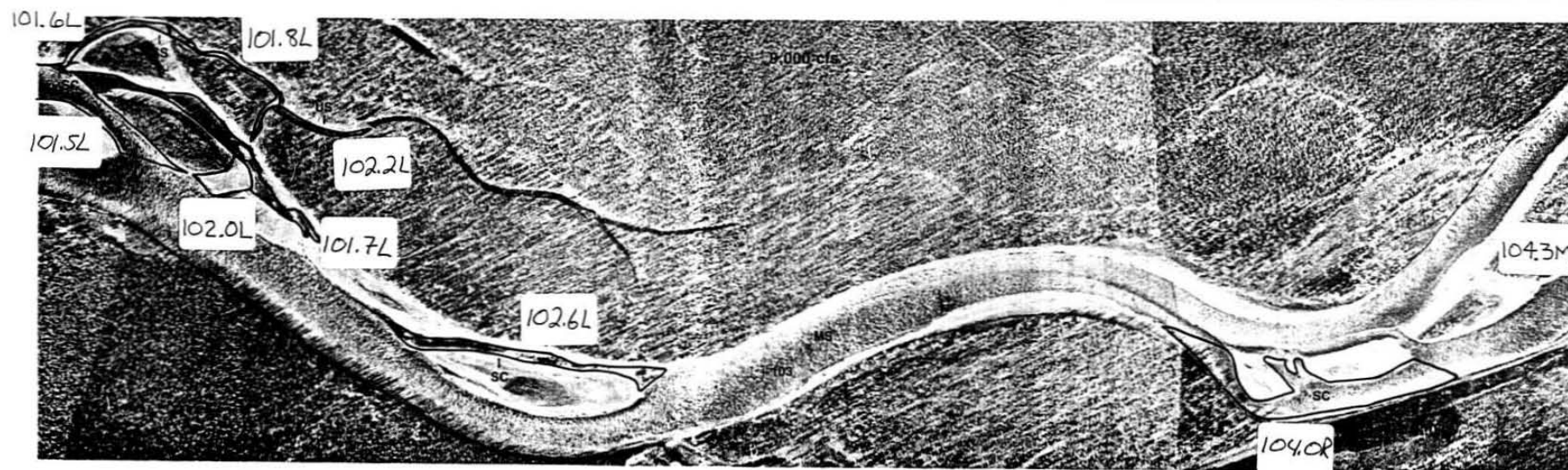
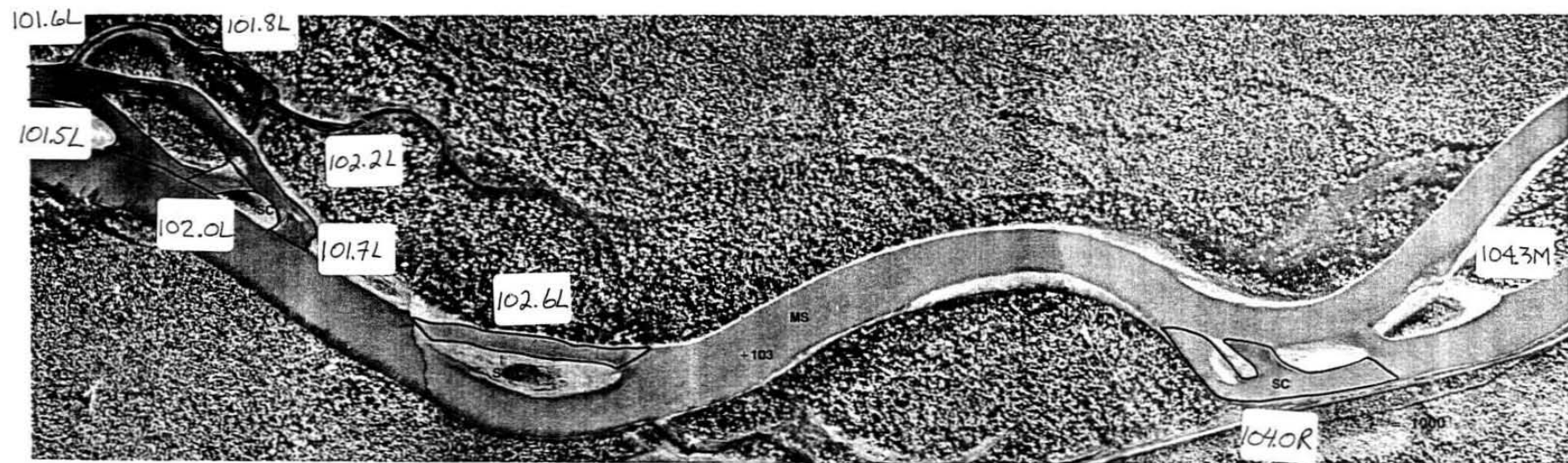
ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EW&A

E. WOODS, FRIEDMAN & ASSOCIATES

HARZA-ERASCO

SUSITNA JOINT VENTURE



LEGEND

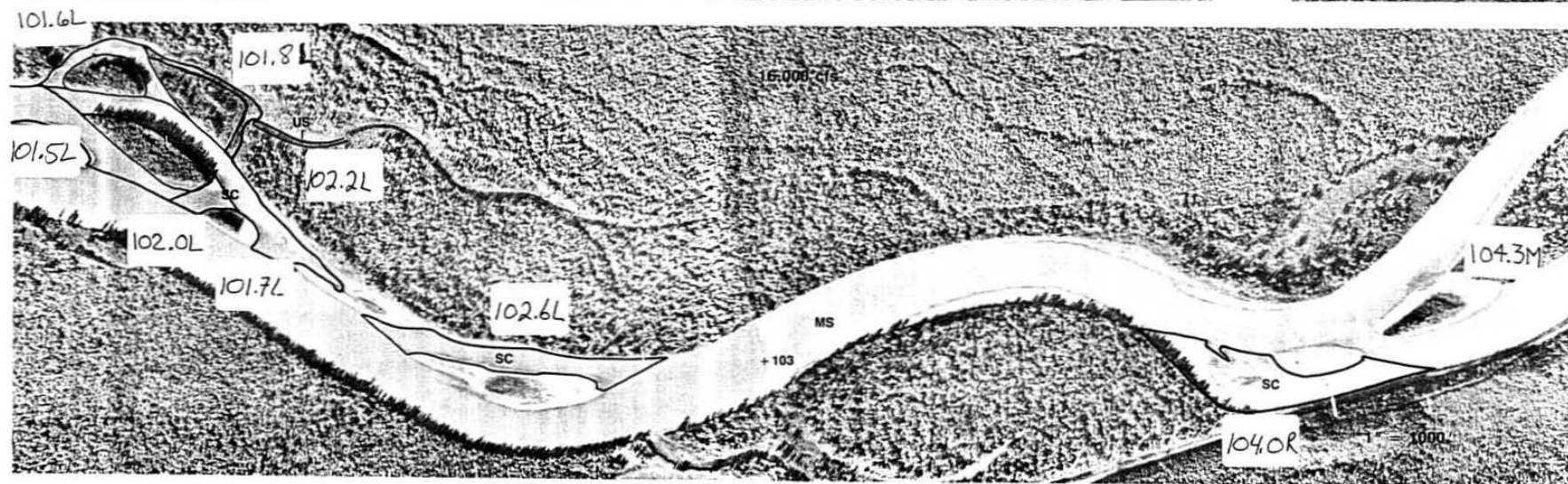
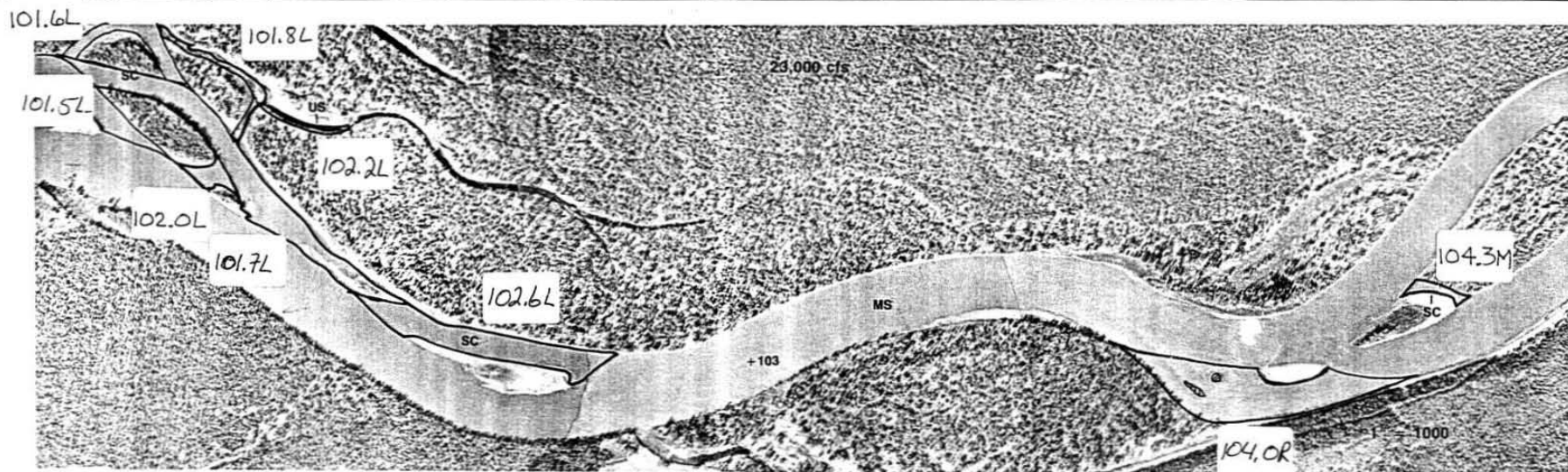
MS	MAINSTEM	TM	TRIBUTARY MCUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

MIDDLE SUSITNA RIVER

PLATE 17 OF 18 RIVER MILE 102 TO 104

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EWTA **HAZRA-ERASCO**
SUSITNA JOINT VENTURE



LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

MIDDLE SUSITNA RIVER

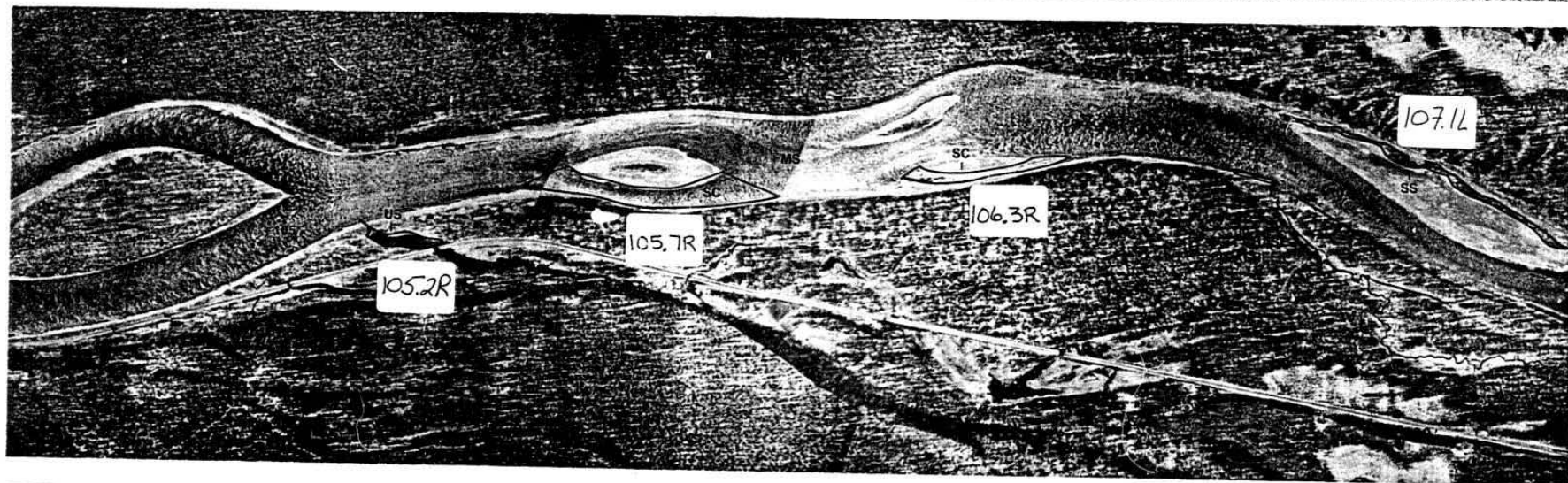
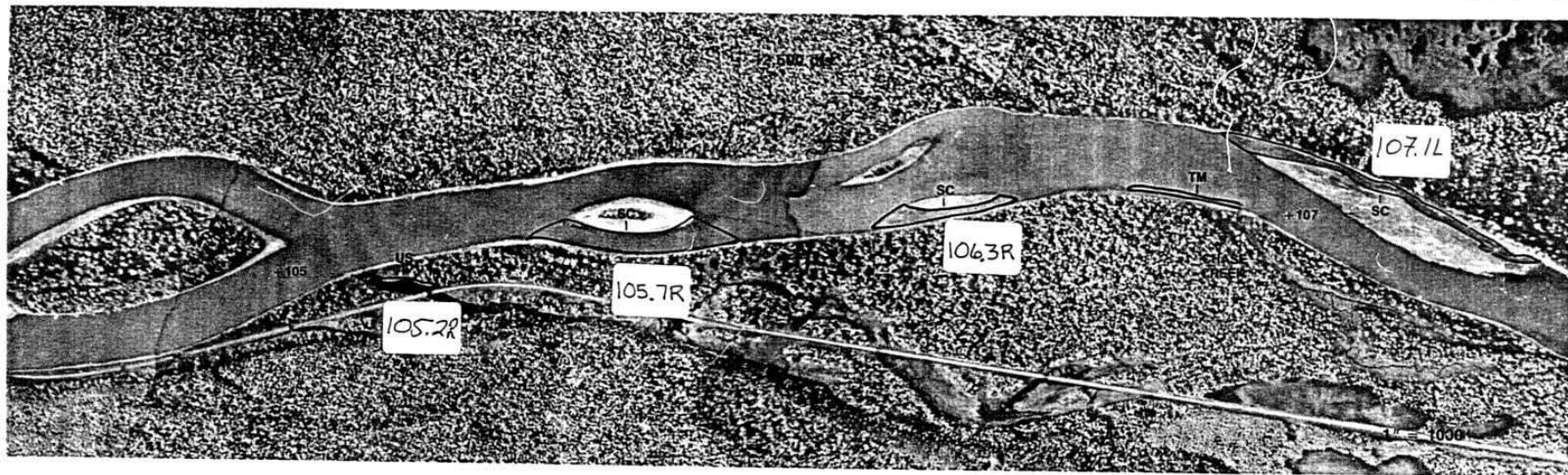
PLATE 17 OF 18

RIVER MILE 102 TO 104

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EWTA
ENGINEERING & WATER TECHNOLOGY ASSOCIATES

HARTA-EBASCO
SUSITNA JOINT VENTURE



LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

MIDDLE SUSITNA RIVER

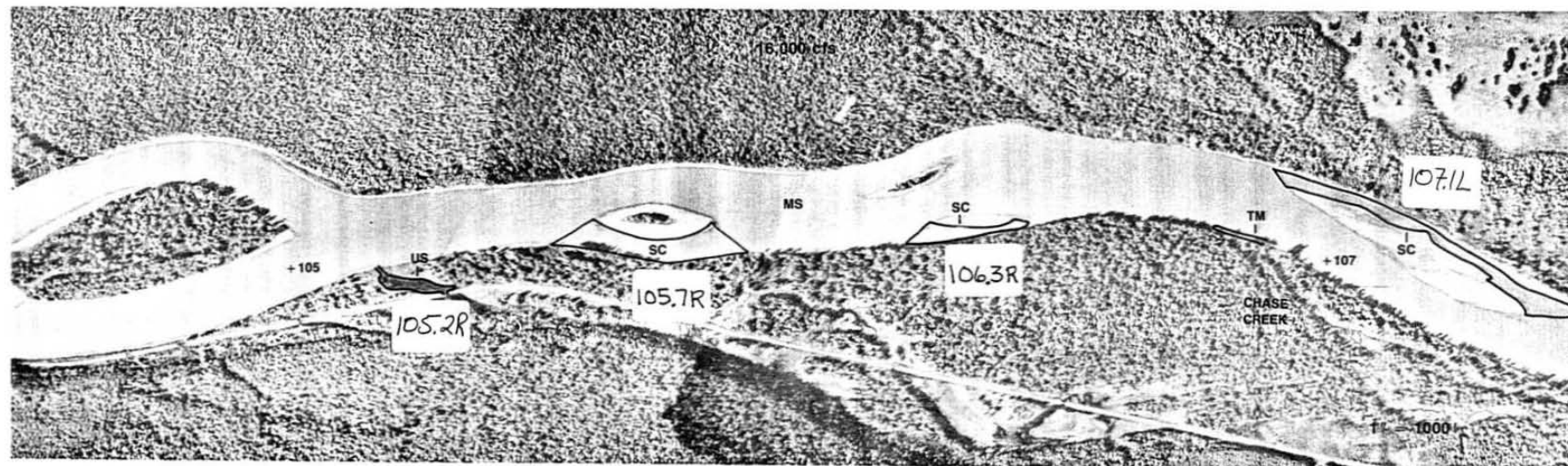
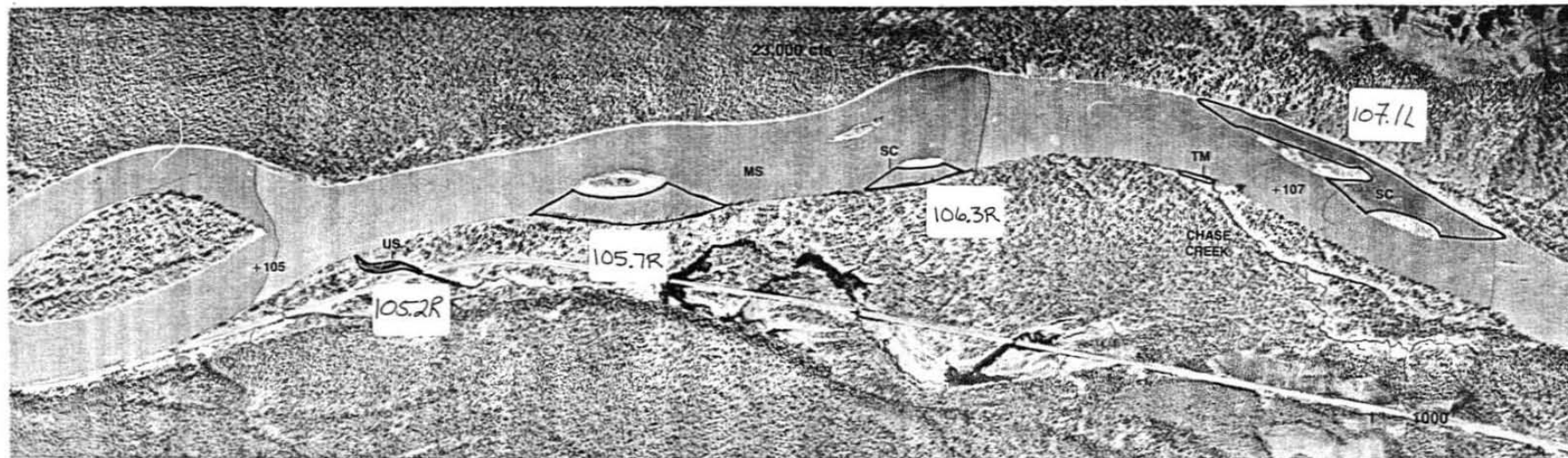
PLATE 16 OF 18

RIVER MILE 105 TO 107

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EW&A
ENGINEERING & ARCHITECTS

HARZA-EBASCO
SUSITNA JOINT VENTURE



LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

MIDDLE SUSITNA RIVER

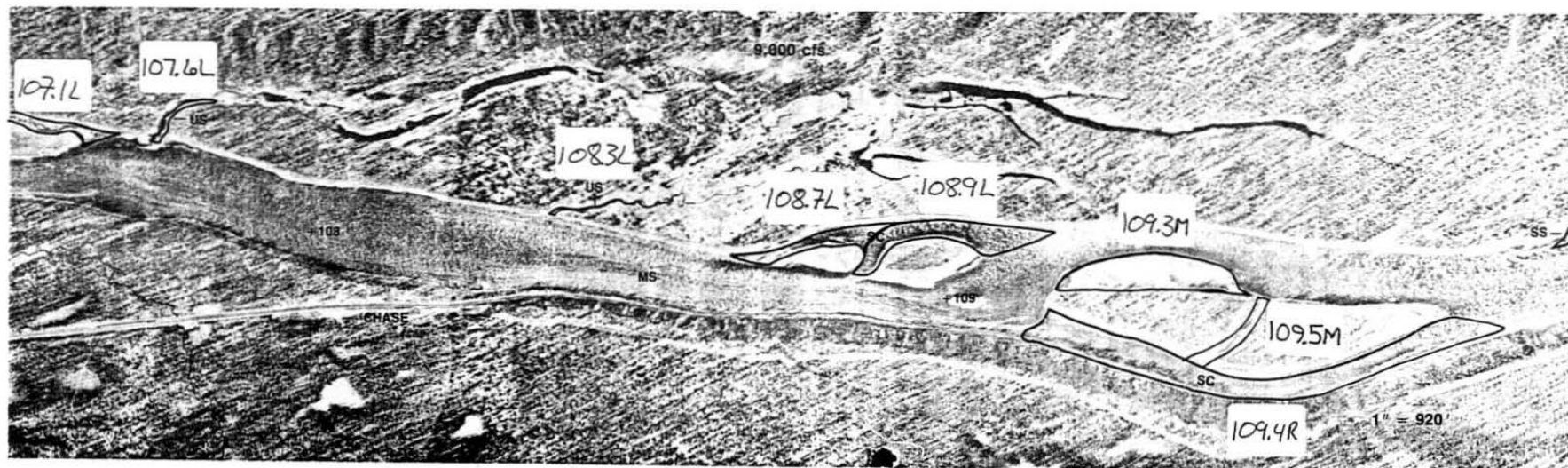
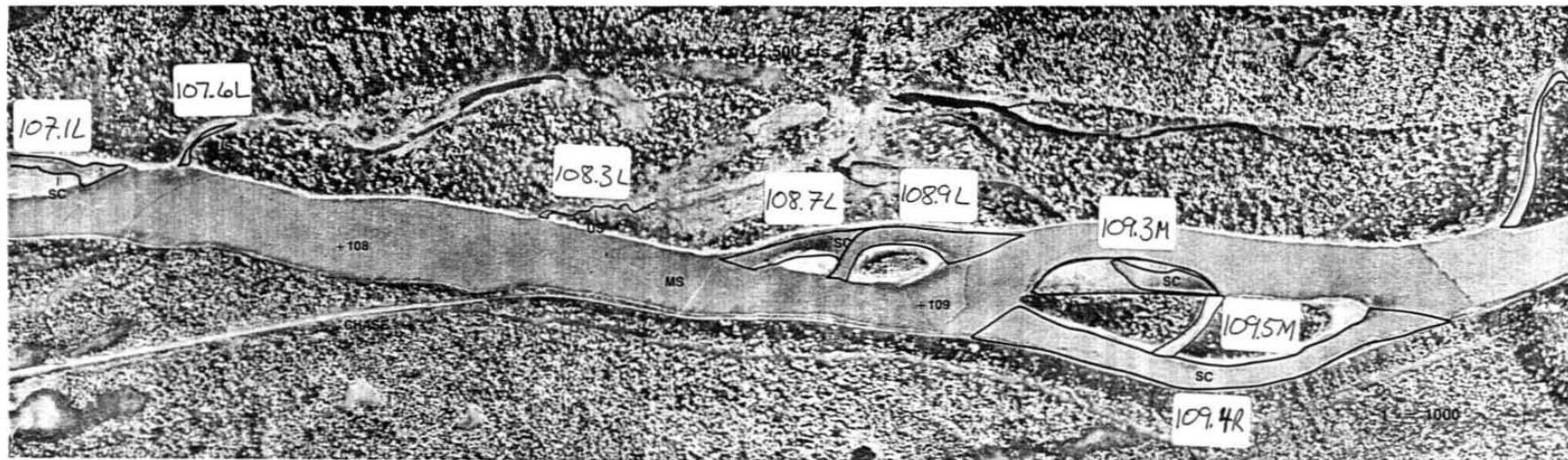
PLATE 16 OF 18 RIVER MILE 105 TO 107

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EW&A

HARZA-EBASCO

SUSITNA JOINT VENTURE



LEGEND

MS MAINSTEM	TM TRIBUTARY MOUTH
SC SIDE CHANNEL	T TRIBUTARY
SS SIDE SLOUGH	+ RIVER MILE
US UPLAND SLOUGH	

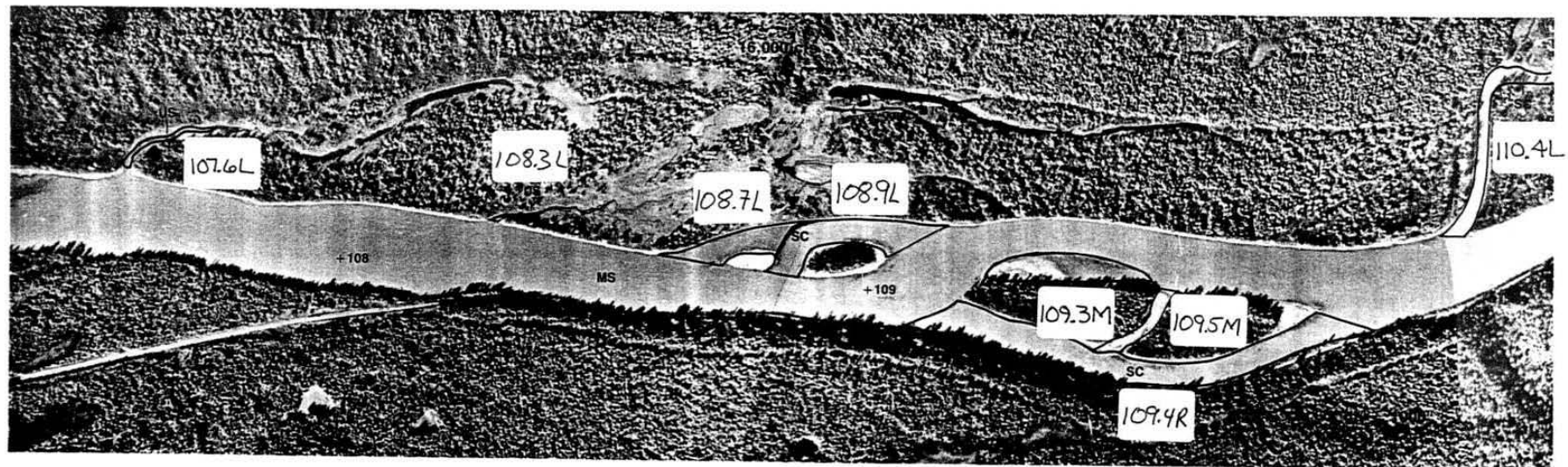
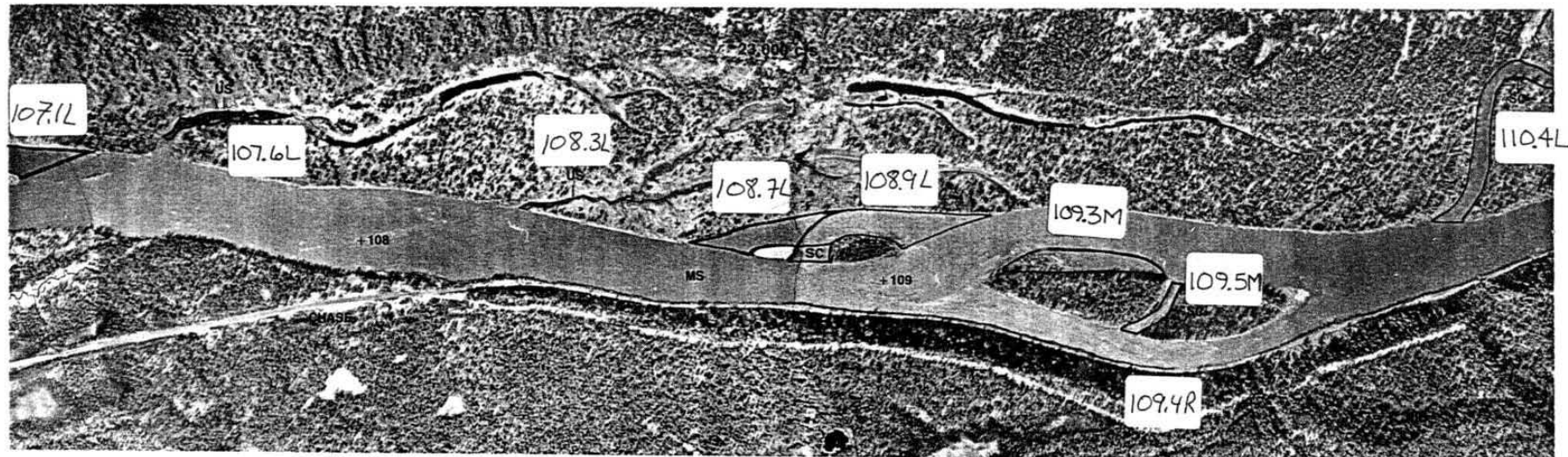
MIDDLE SUSITNA RIVER

PLATE 15 OF 18 RIVER MILE 108 TO 110

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EWTA
ELECTRICITY WORKING TOGETHER

HARZA-ERASCO
SUSITNA JOINT VENTURE



LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

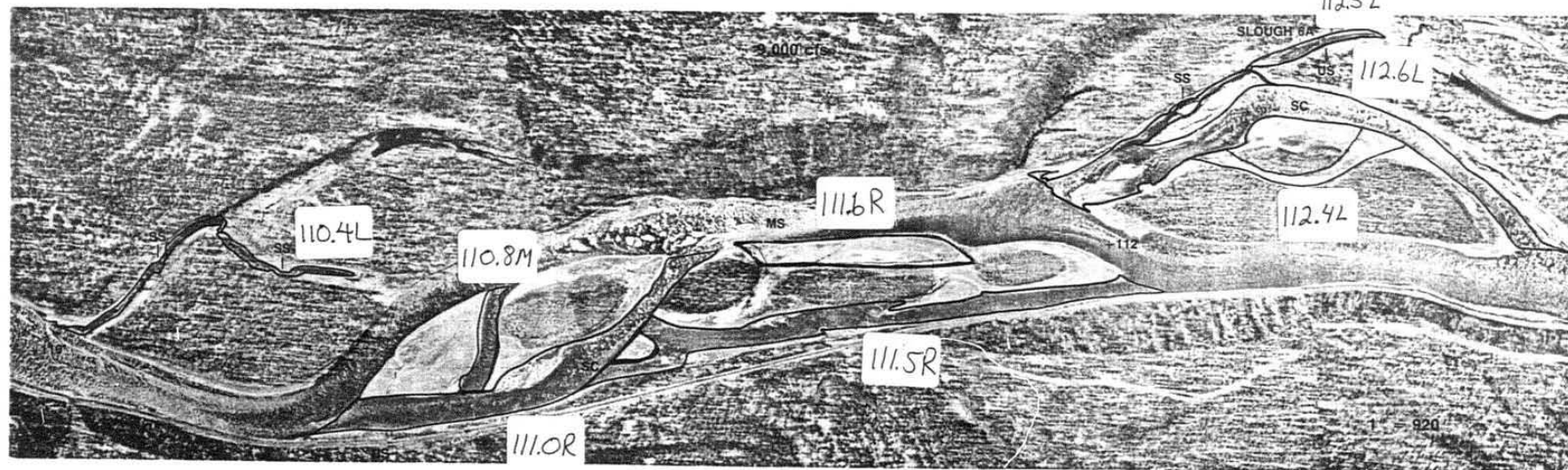
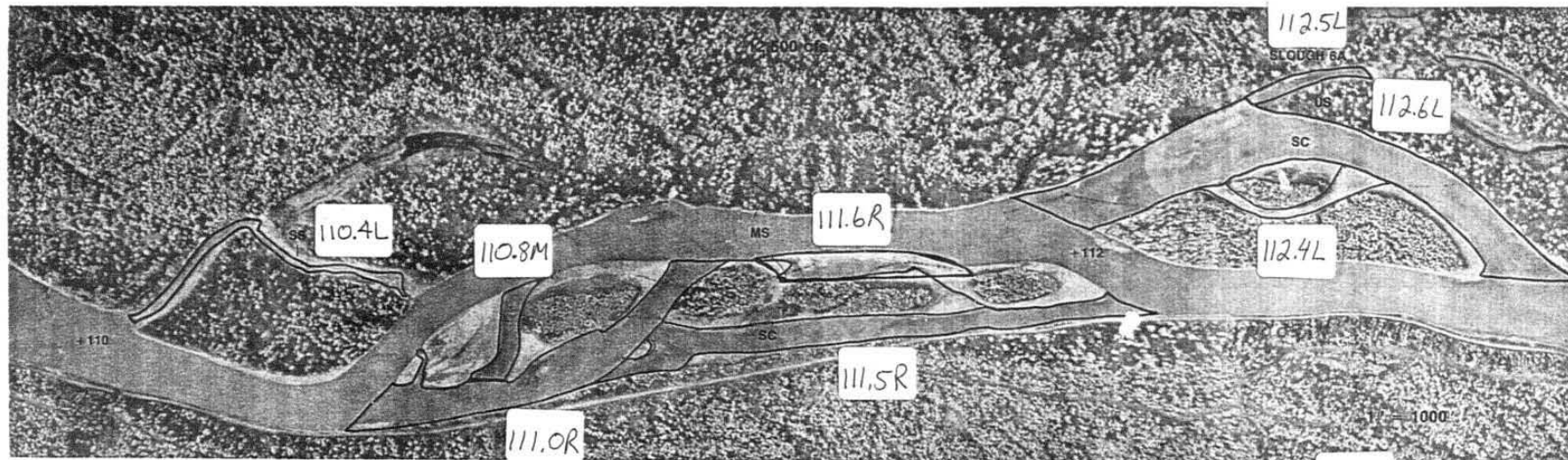
MIDDLE SUSITNA RIVER

PLATE 15 OF 18 RIVER MILE 108 TO 110

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EW&A
ENGINEERING & ARCHITECTS

HARZA-EBASCO
SUSITNA JOINT VENTURE



LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

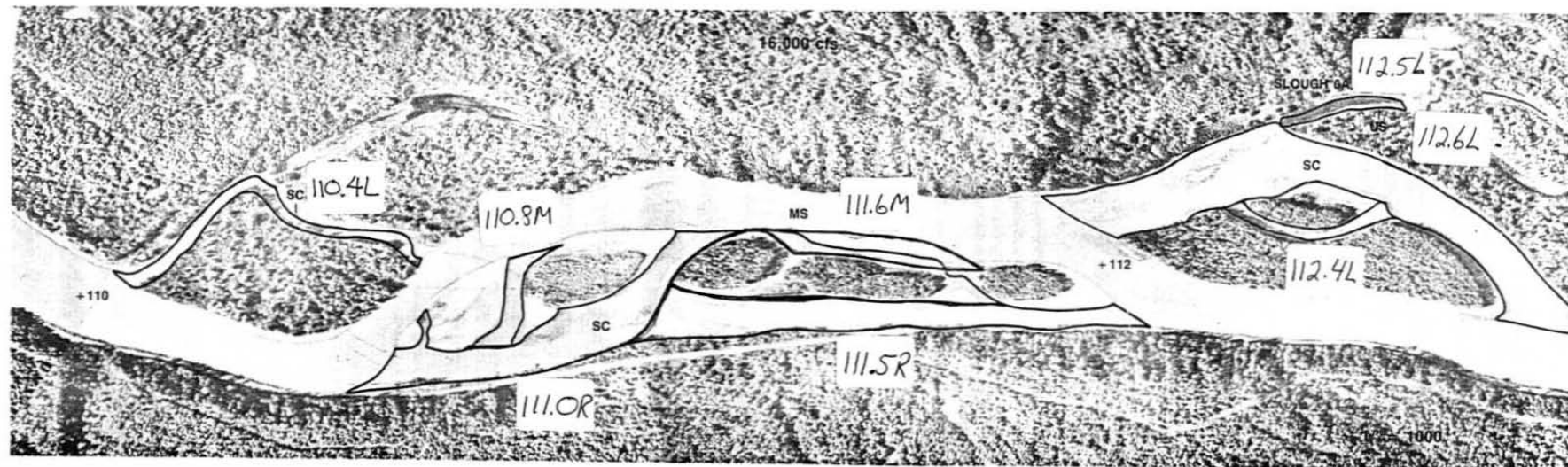
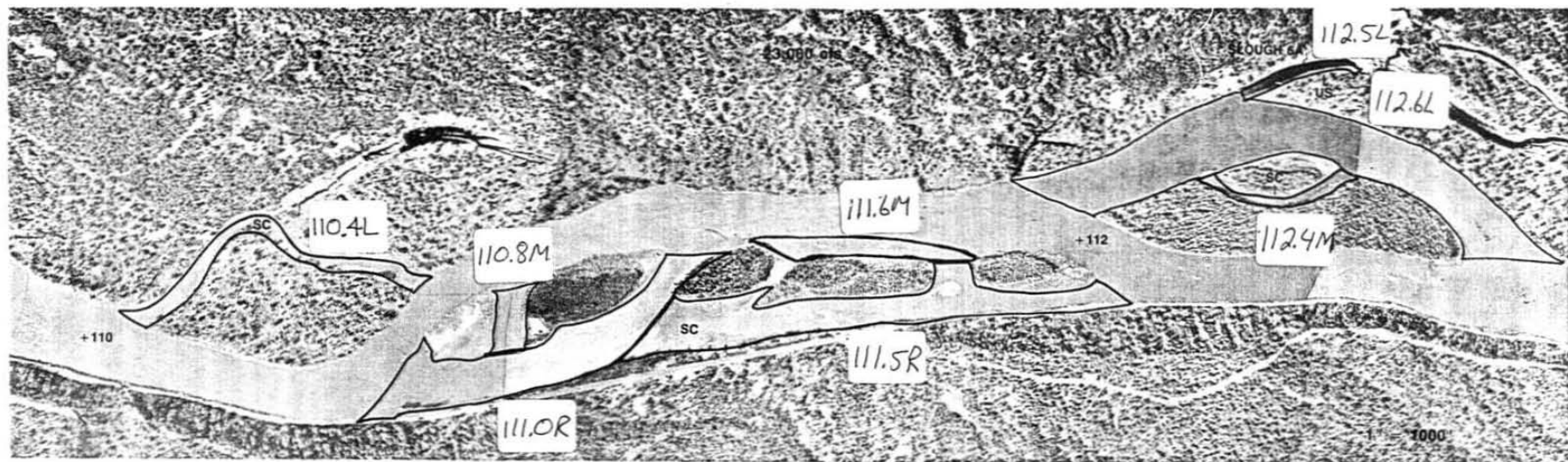
MIDDLE SUSITNA RIVER

PLATE 14 OF 18 RIVER MILE 110 TO 112

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EW&A
WOODWARD CLARK & ASSOCIATES

HARZA-EBASCO
SUSITNA JOINT VENTURE



LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

MIDDLE SUSITNA RIVER

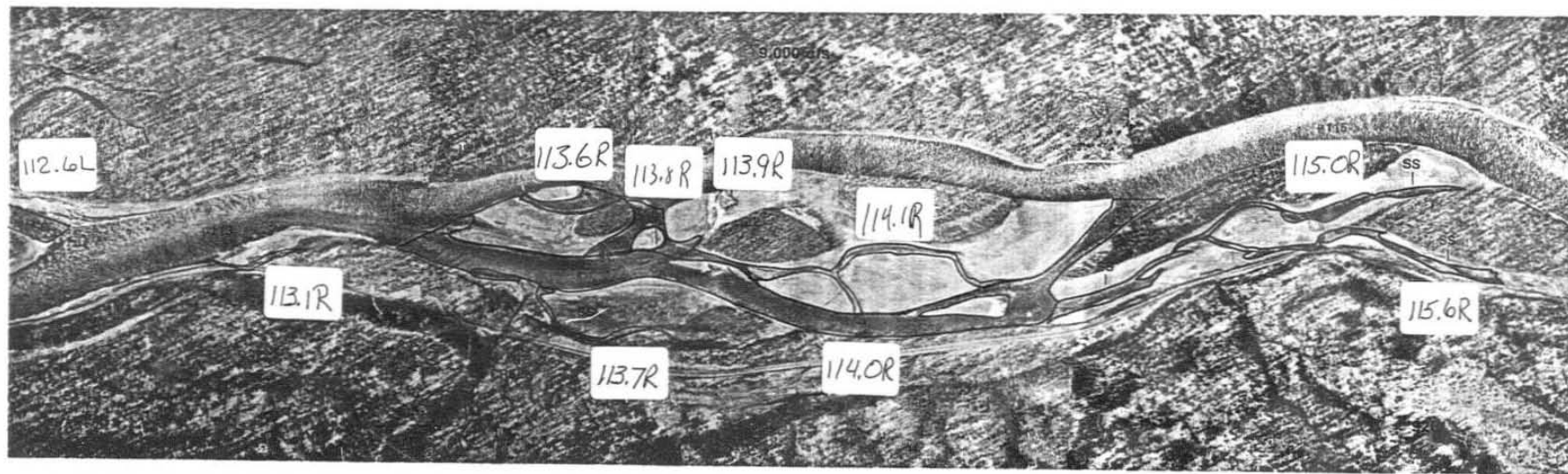
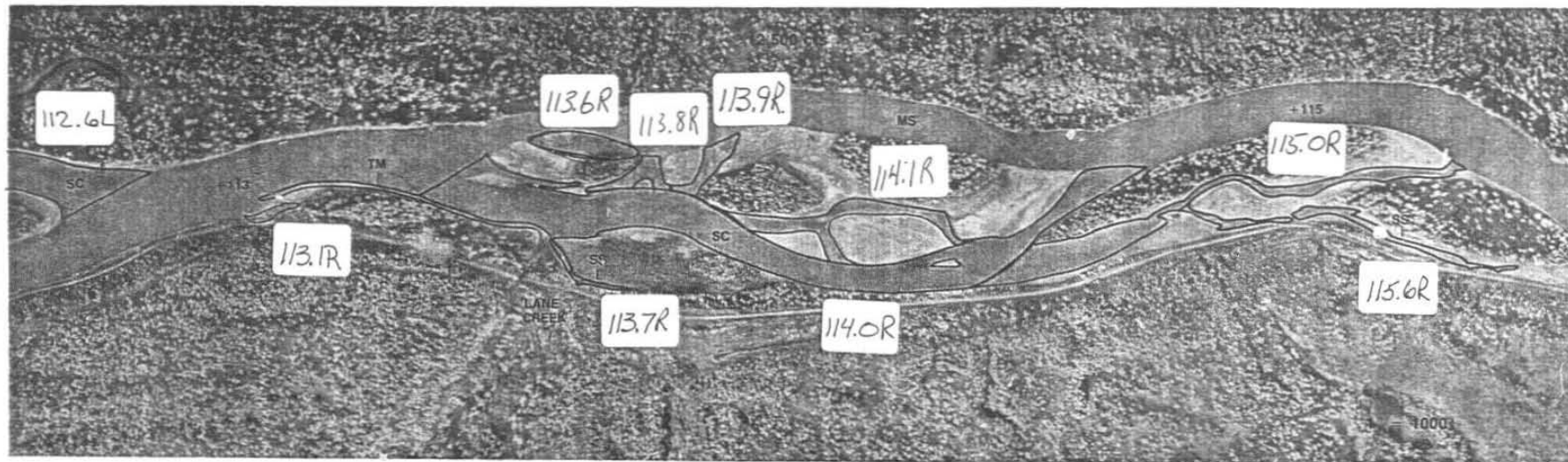
PLATE 14 OF 18 RIVER MILE 110 TO 112

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EW&A

HARZA-ERASCO

SUSITNA JOINT VENTURE



LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

MIDDLE SUSITNA RIVER

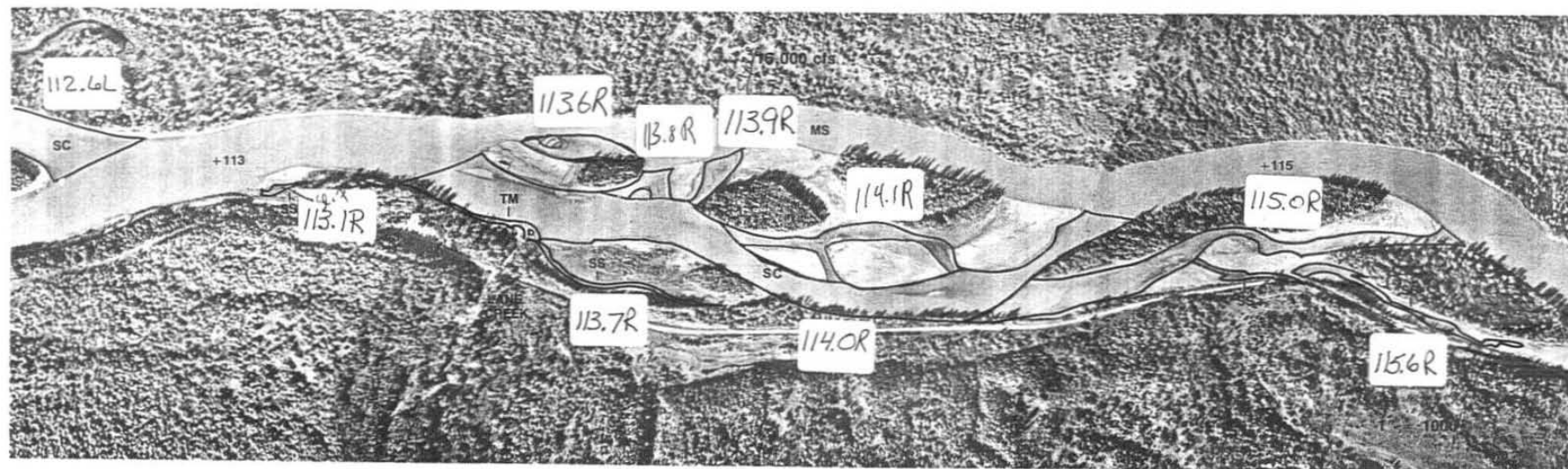
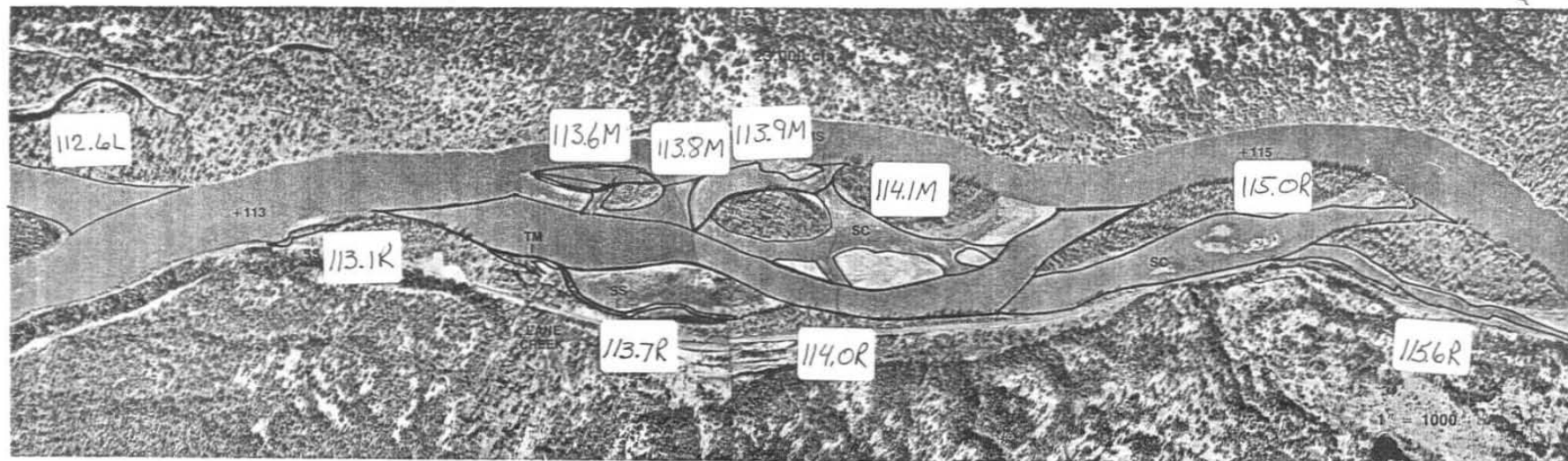
PLATE 13 OF 18 RIVER MILE 113 TO 115

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EWT&A

HARZA-EDASCO

SUSITNA JOINT VENTURE



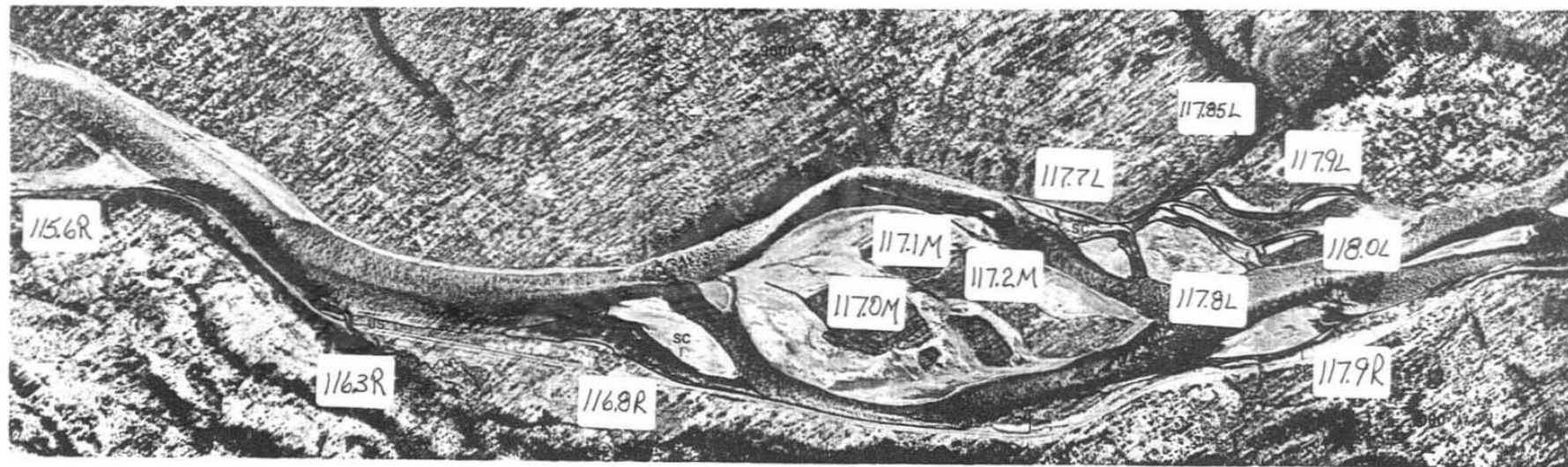
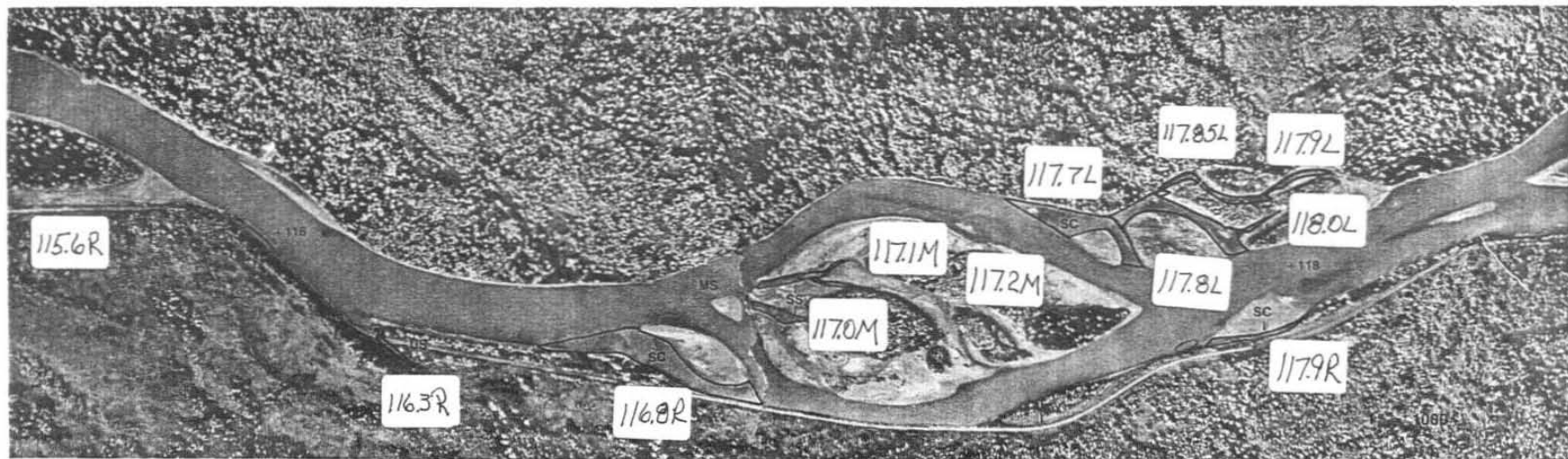
LEGEND			
MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

MIDDLE SUSITNA RIVER

PLATE 13 OF 18 RIVER MILE 113 TO 115

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EWTA **HARZA-ERASCO**
SUSITNA JOINT VENTURE



LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

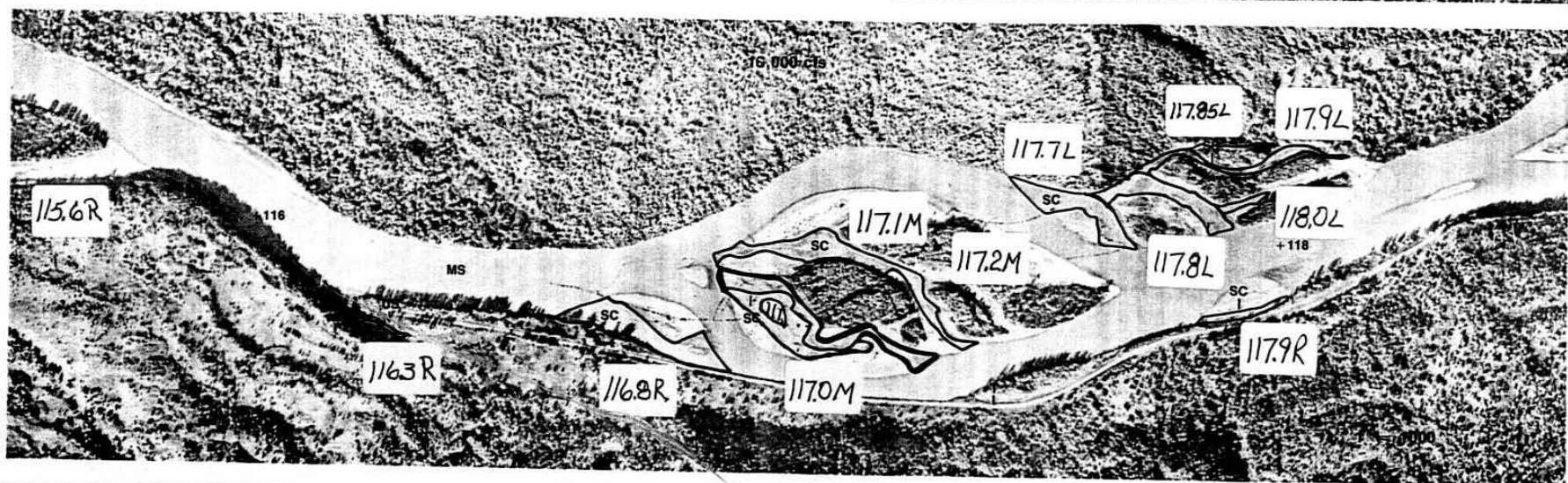
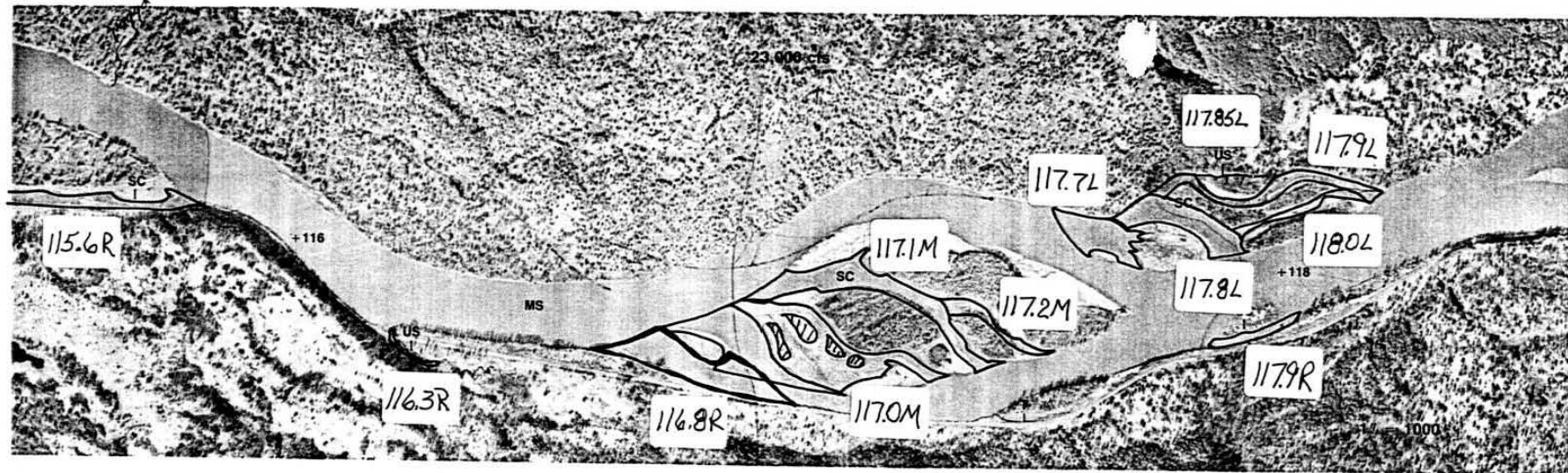
MIDDLE SUSITNA RIVER

PLATE 12 OF 18 RIVER MILE 116 TO 118

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EW&A
ENGINEERING & ARCHITECTS

HAZAR-EDASCO
SUSITNA JOINT VENTURE



LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

MIDDLE SUSITNA RIVER

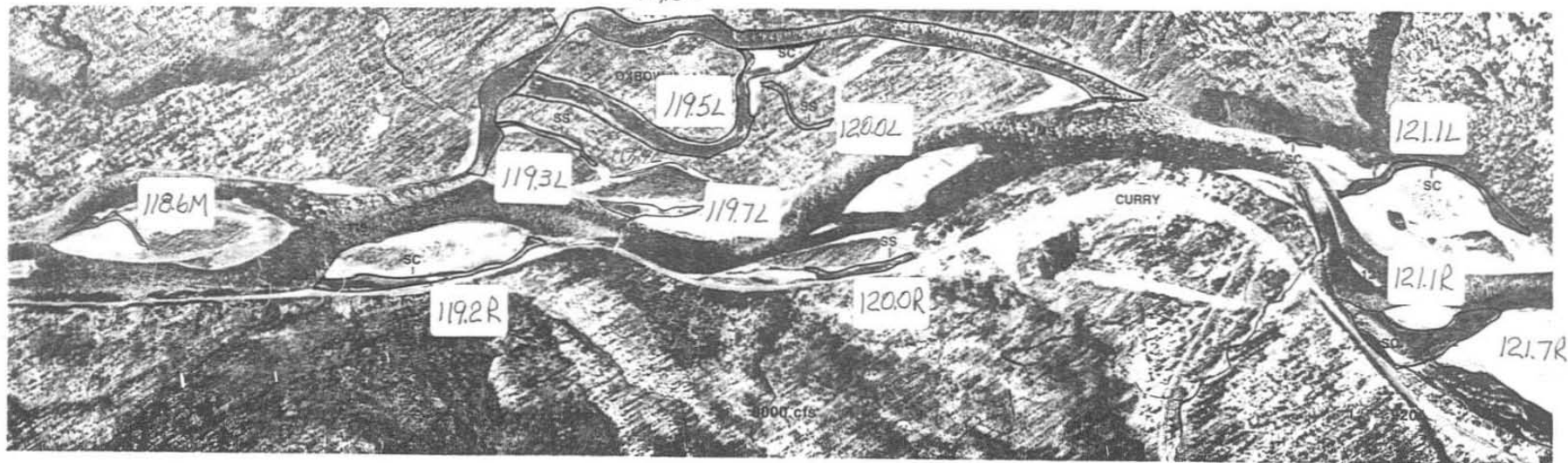
PLATE 12 OF 18

RIVER MILE 116 TO 118

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EWTA
ELECTRIC WORKS TRUST ASSOCIATION

HARZA-EBASCO
SUSITNA JOINT VENTURE



LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

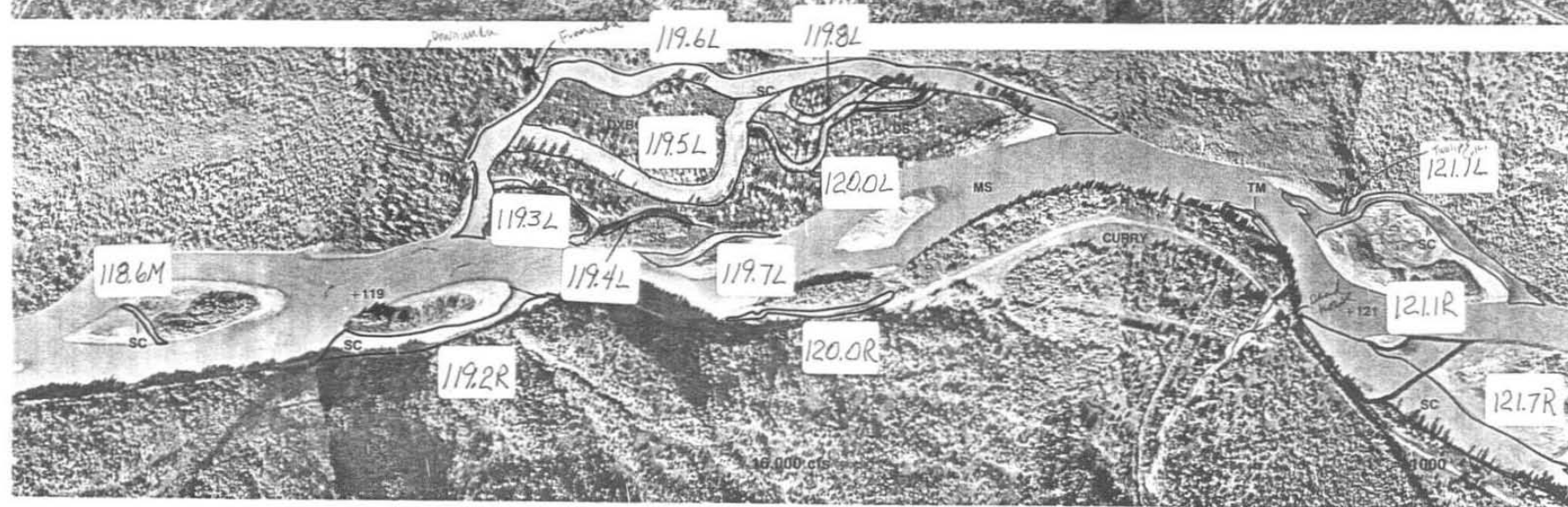
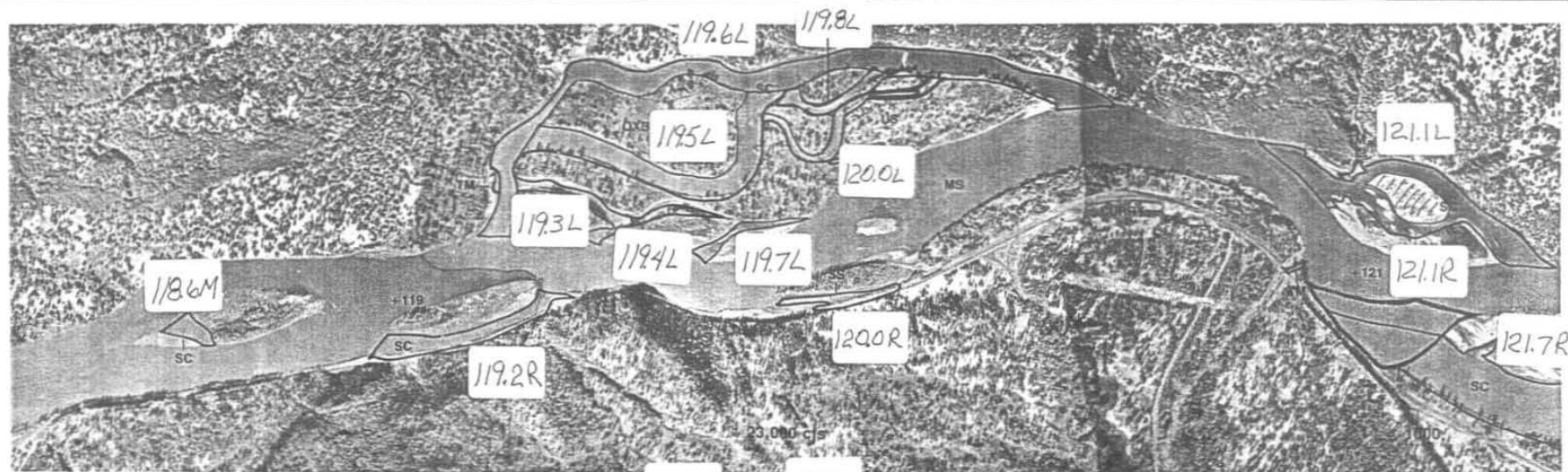
MIDDLE SUSITNA RIVER

PLATE 11 OF 18 RIVER MILE 119 TO 121

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EW&A
ENGINEERING & ARCHITECTURE

HARZA-EEASCO
SUSITNA JOINT VENTURE



LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

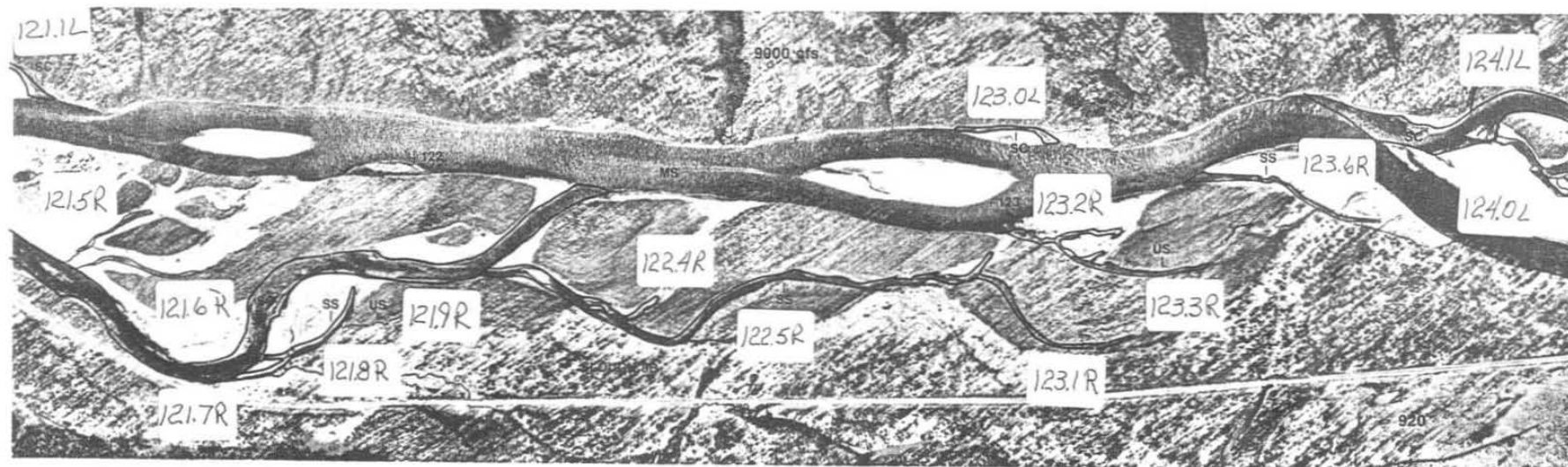
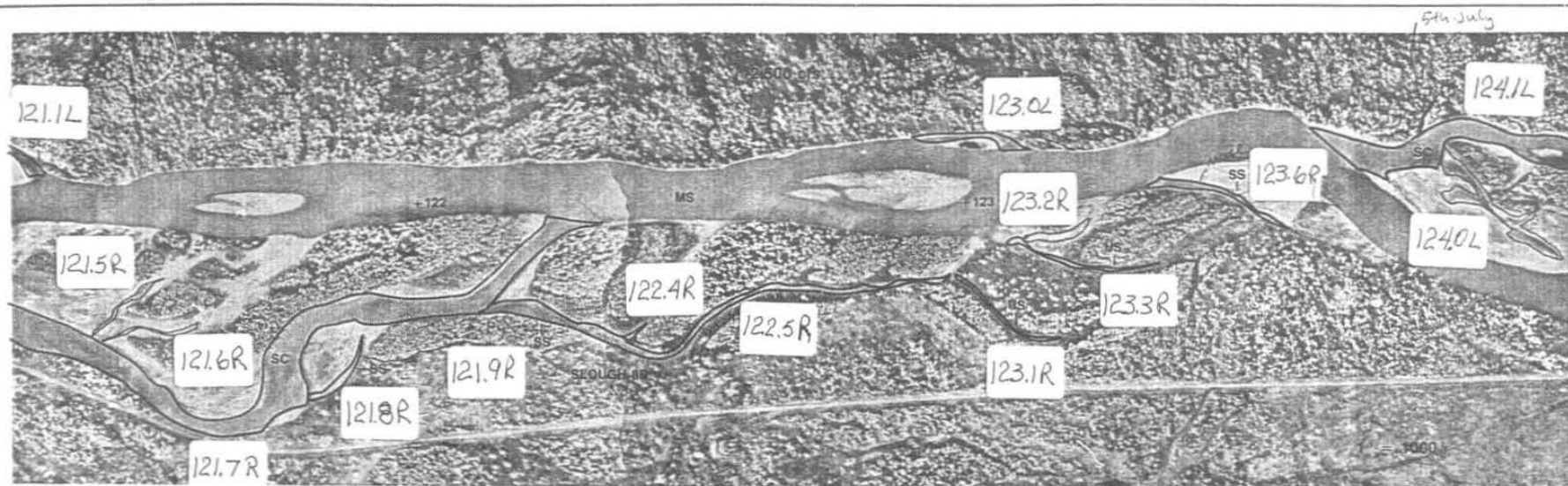
MIDDLE SUSITNA RIVER

PLATE 11 OF 18 RIVER MILE 119 TO 121

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EW&A
ENGINEERING & ARCHITECTURE

HARZA-HEASCO
SUSITNA JOINT VENTURE



LEGEND

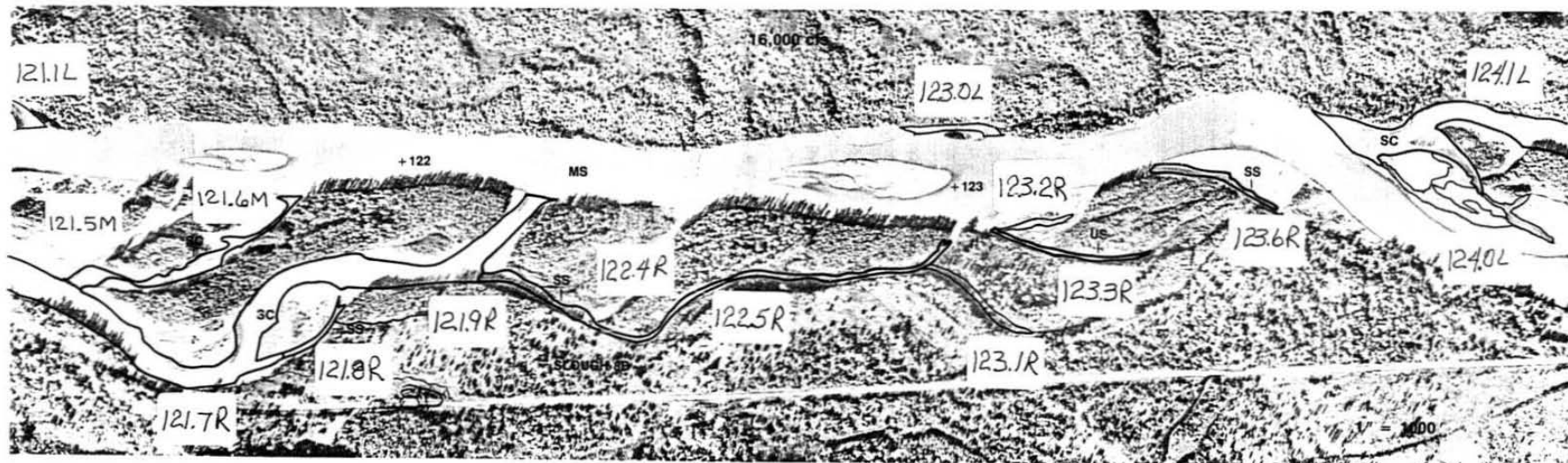
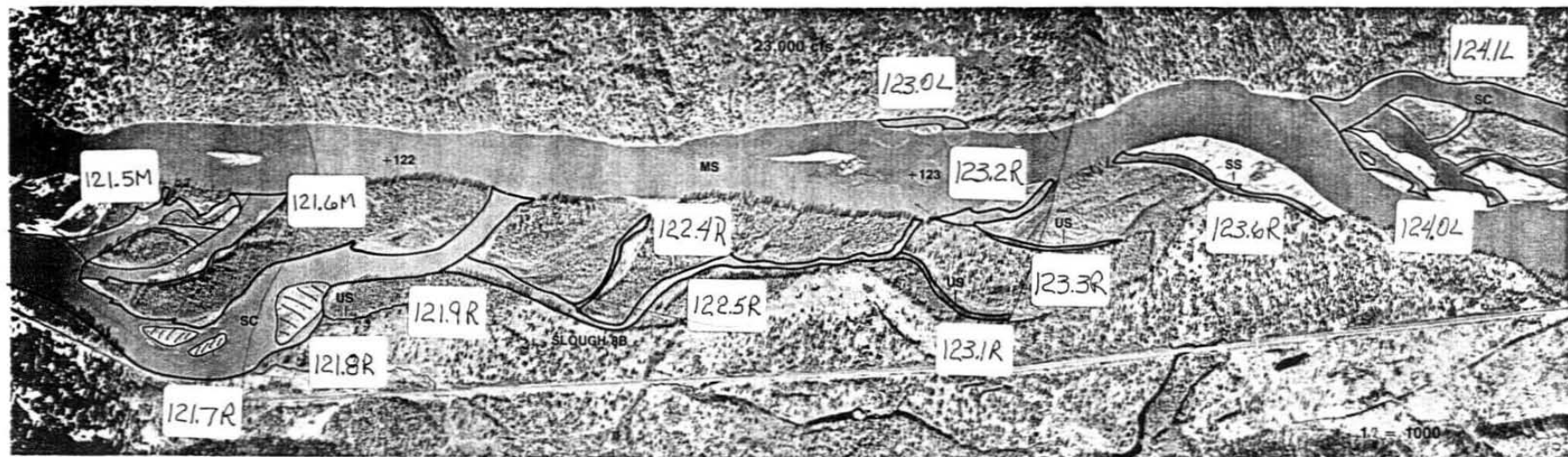
MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

MIDDLE SUSITNA RIVER

PLATE 10 OF 18 RIVER MILE 122 TO 124

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EWT&A HARTZ-HEASCO
SUSITNA JOINT VENTURE



LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

MIDDLE SUSITNA RIVER

PLATE 10 OF 18

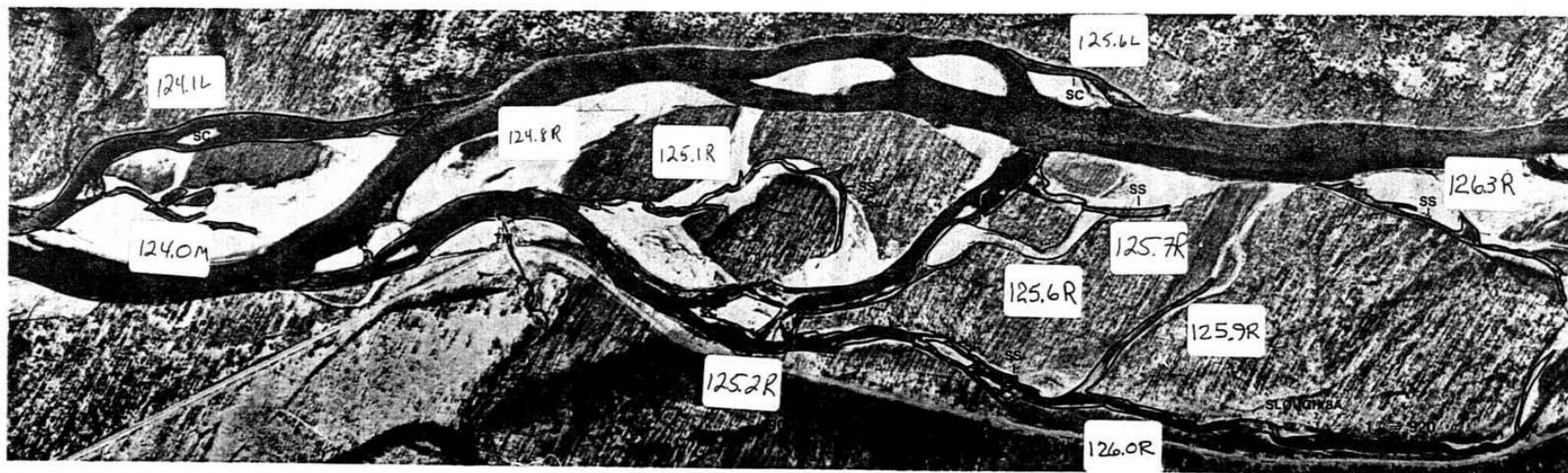
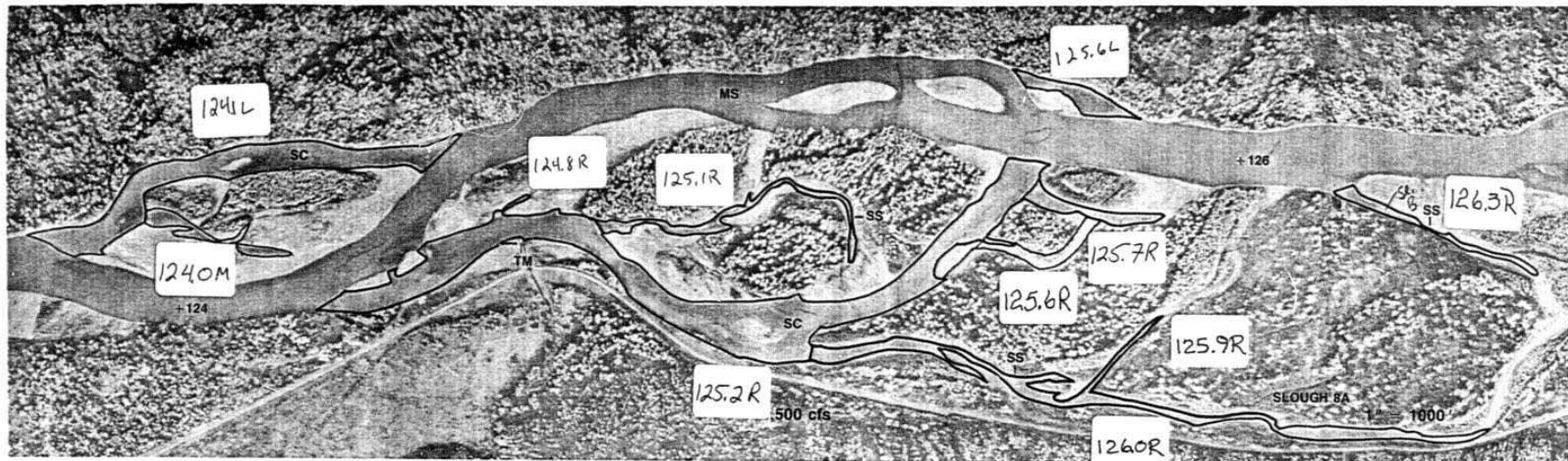
RIVER MILE 122 TO 124

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EWI&A

HARZA-ERASCO

SUSITNA JOINT VENTURE



LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

MIDDLE SUSITNA RIVER

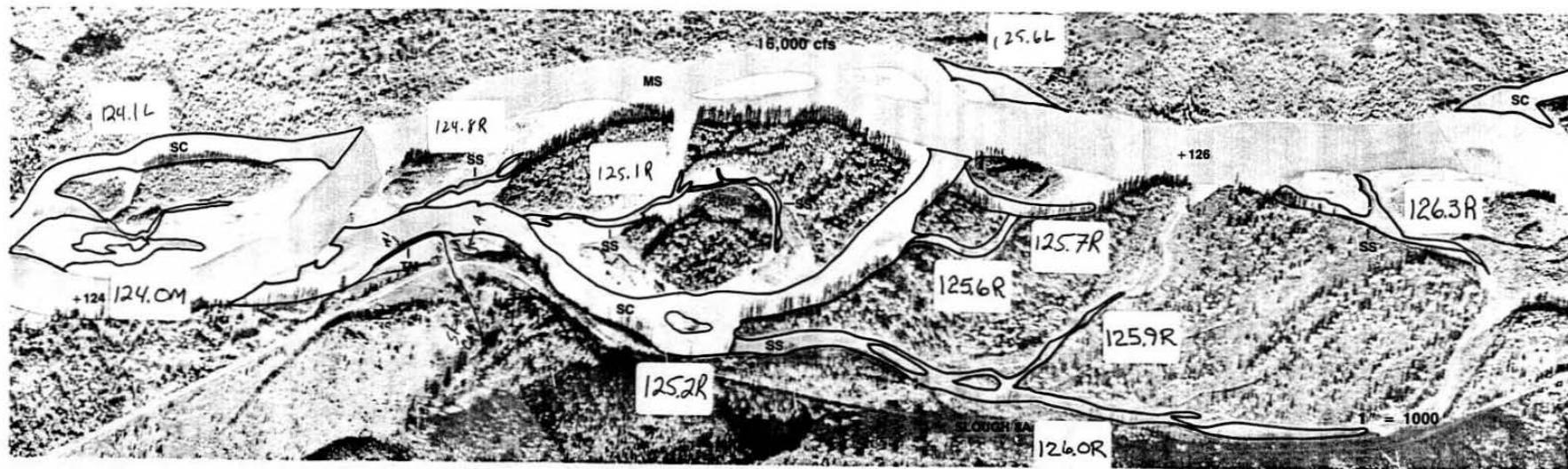
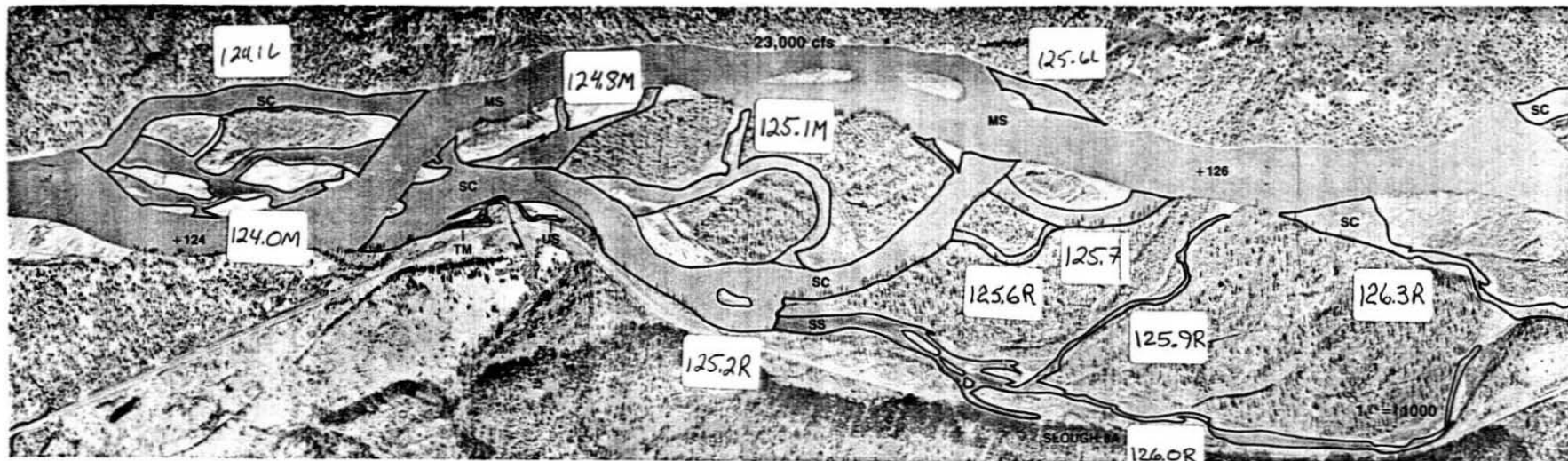
PLATE 9 OF 18

RIVER MILE 124 TO 126

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EW&A
W. WOODY TRIMBY & ASSOCIATES

HARZA-EBASCO
SUSITNA JOINT VENTURE



LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

MIDDLE SUSITNA RIVER

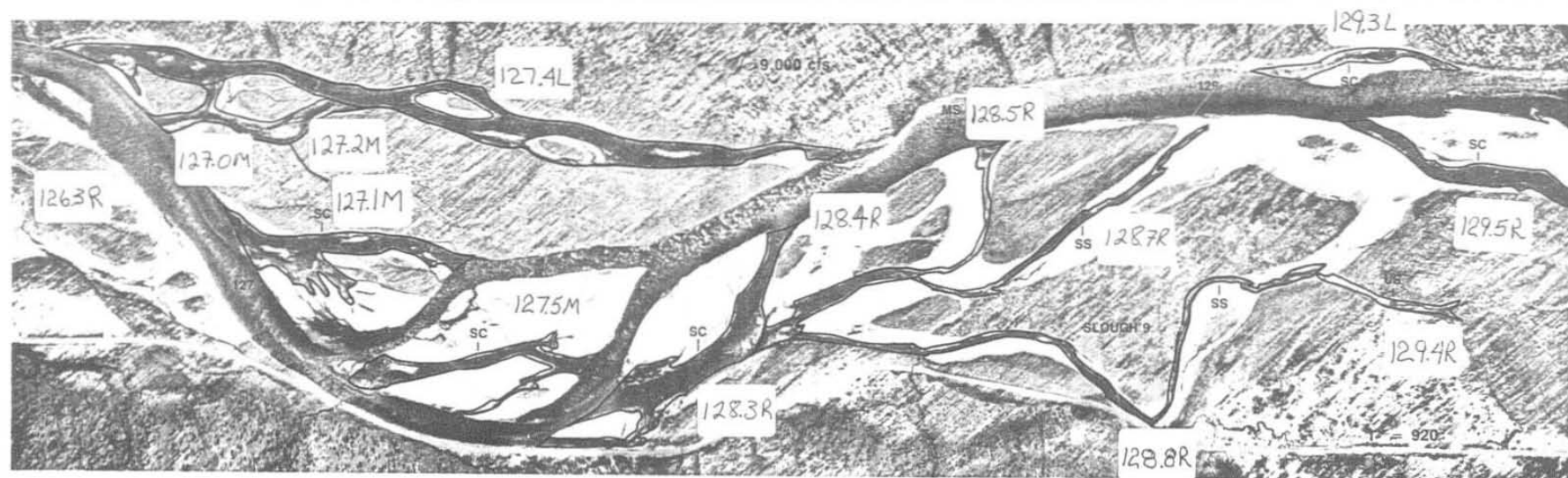
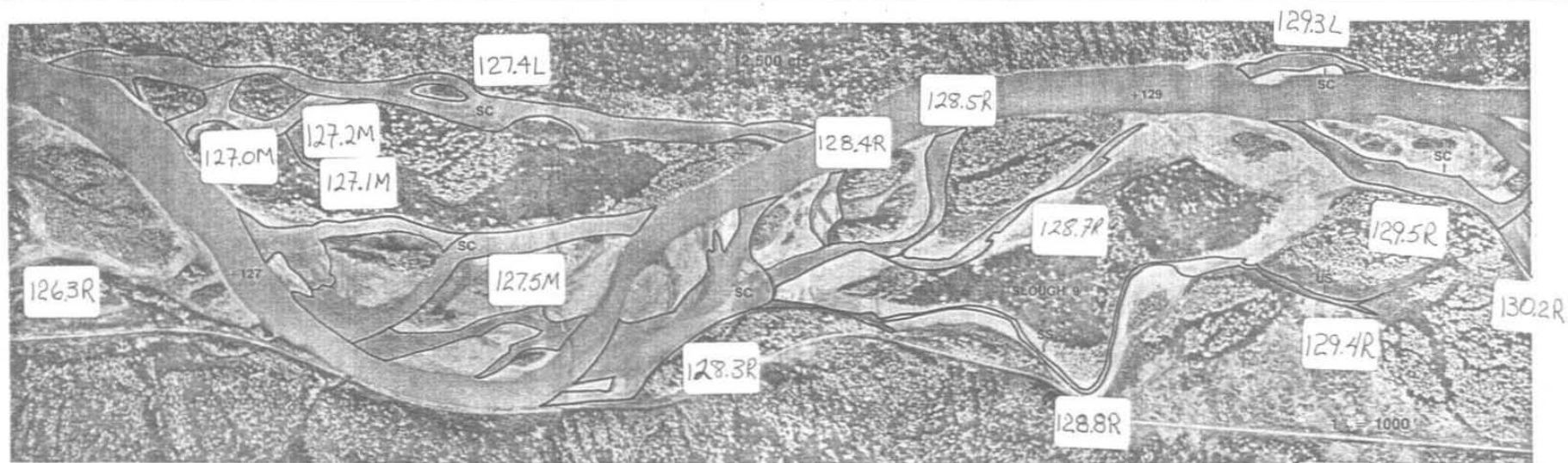
PLATE 9 OF 18

RIVER MILE 124 TO 126

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EWTA
ENGINEERING & ARCHITECTURE

HARZA-ERASCO
SUSITNA JOINT VENTURE



LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

MIDDLE SUSITNA RIVER

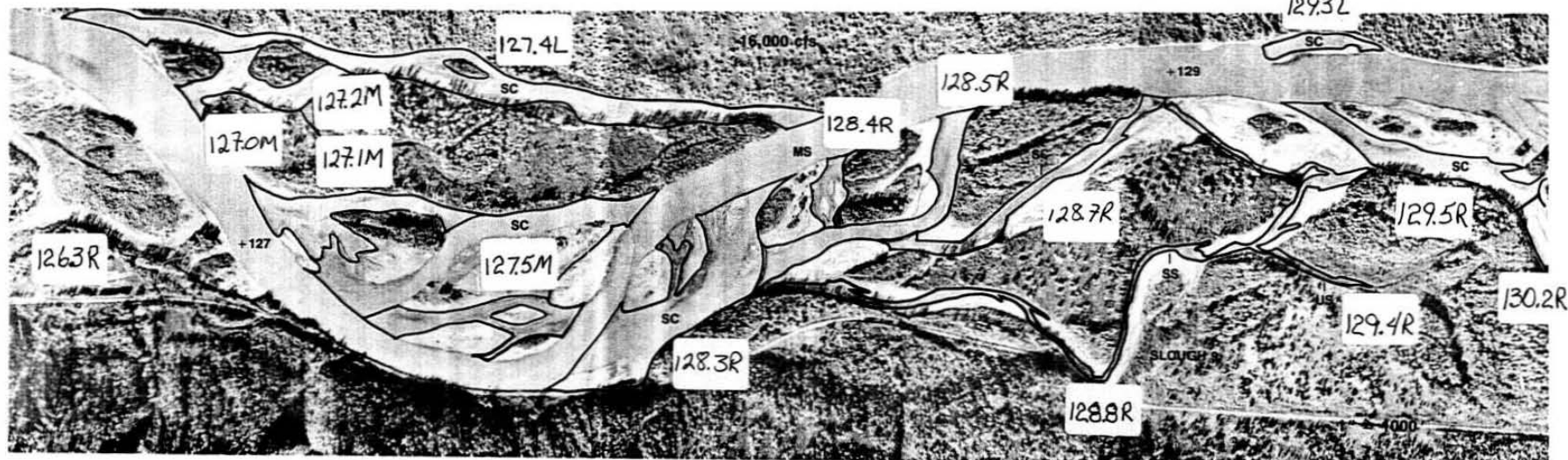
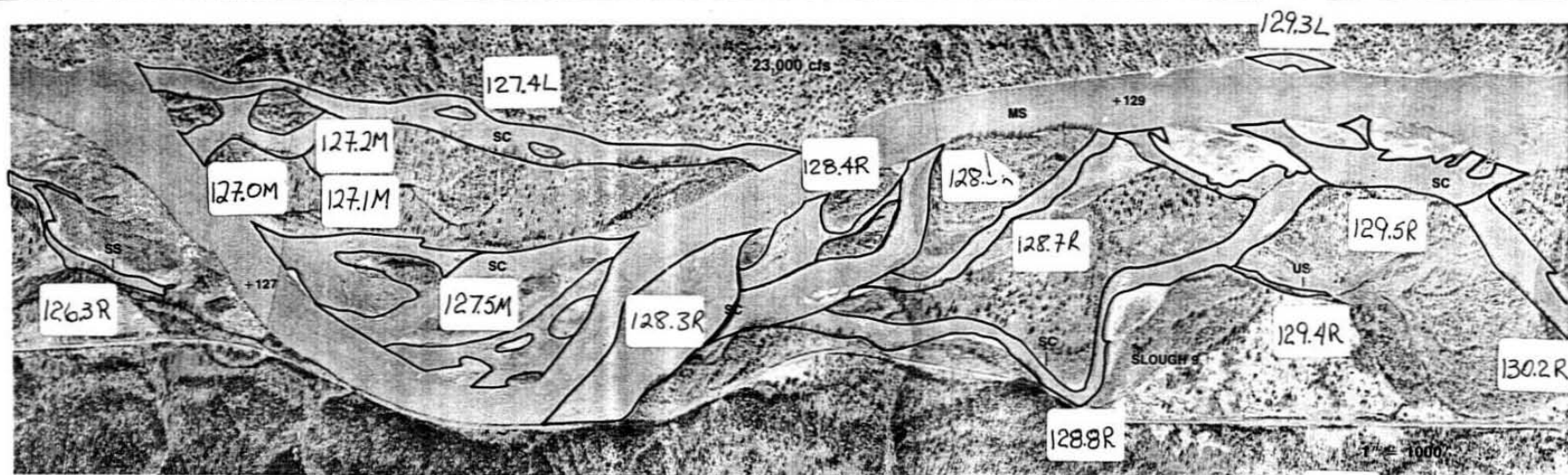
PLATE 8 OF 18

RIVER MILE 127 TO 129

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EWTA
ELECTRICITY WORKS
TERRACE & ASSOCIATES

HAZRA-ERASSCO
SUSITNA JOINT VENTURE



LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

MIDDLE SUSITNA RIVER

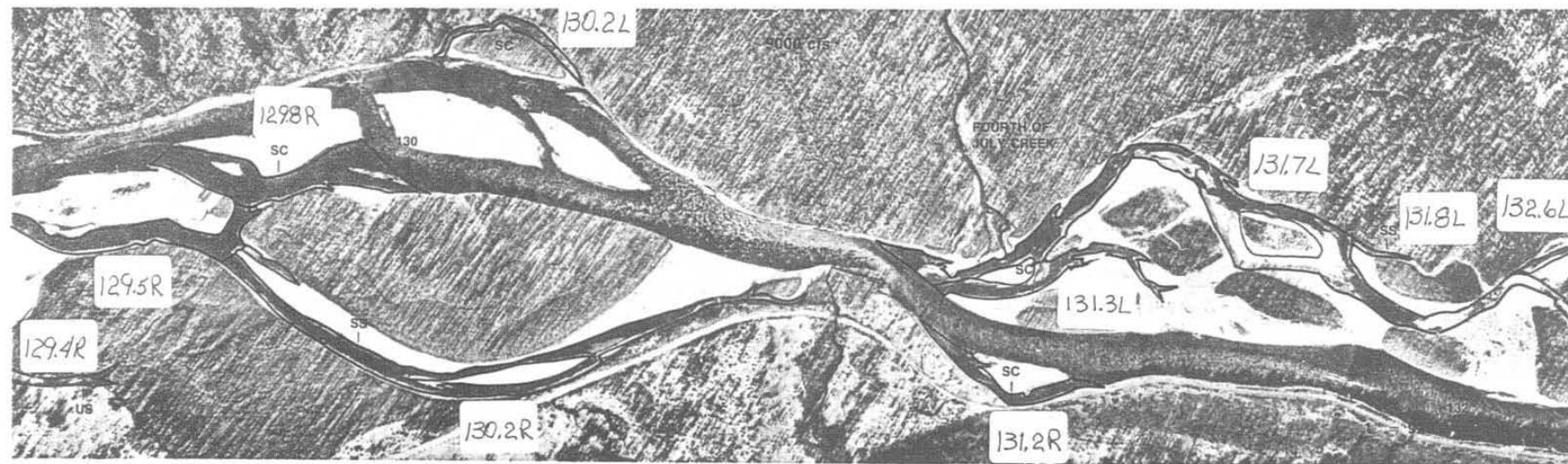
PLATE 8 OF 18

RIVER MILE 127 TO 129

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EWT&A
ENGINEERING, DESIGN & CONSTRUCTION

HARZA-ERASCO
SUSITNA JOINT VENTURE



LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

MIDDLE SUSITNA RIVER

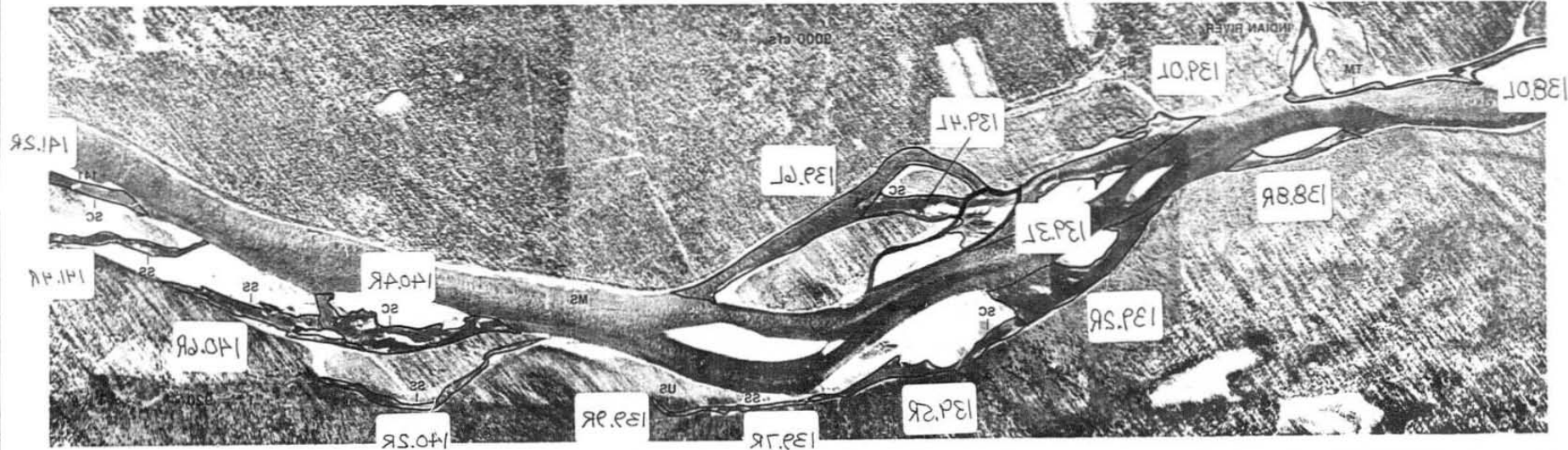
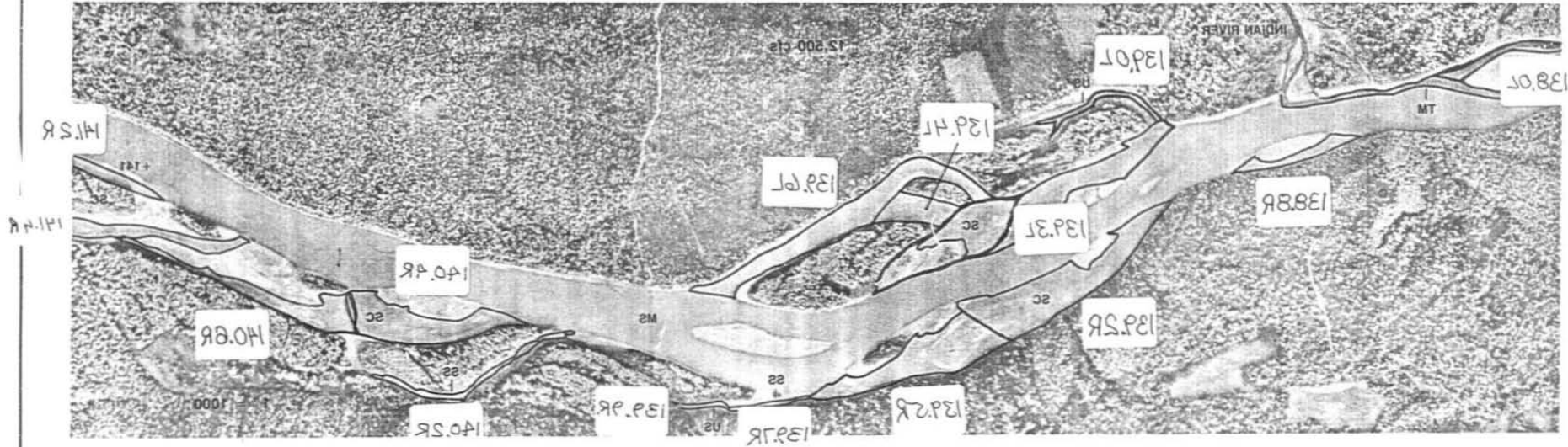
PLATE 7 OF 18

RIVER MILE 130 TO 132

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EW&A
ENGINEERING, WRITING & ARCHITECTS

HAZRA-EBASCO
SUSITNA JOINT VENTURE



ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

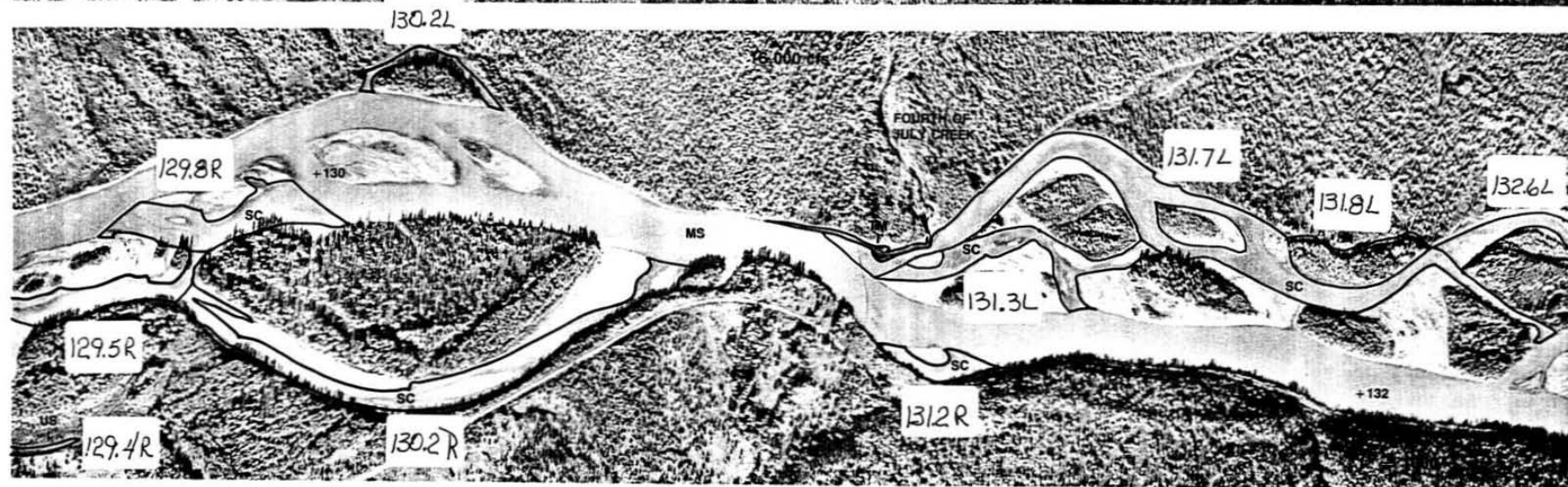
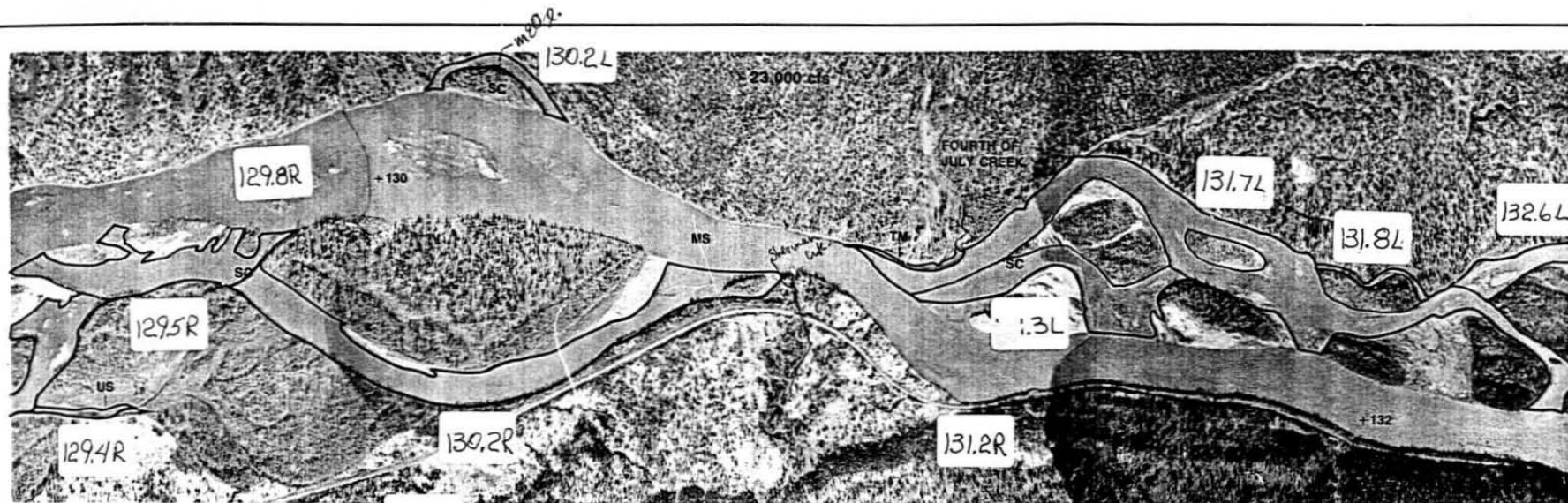
EWTA
SUSITNA JOINT VENTURE
ALASKA-ENBESCO

MIDDLE SUSITNA RIVER

PLATE 4 OF 18 RIVER MILE 139 TO 141

LEGEND

MS MAINSTEM
SC SIDE CHANNEL
SS SIDE SLOUGH
US UPLAND SLOUGH
MT TRIBUTARY MOUTH
T TRIBUTARY
+ RIVER MILE



LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

MIDDLE SUSITNA RIVER

PLATE 7 OF 18

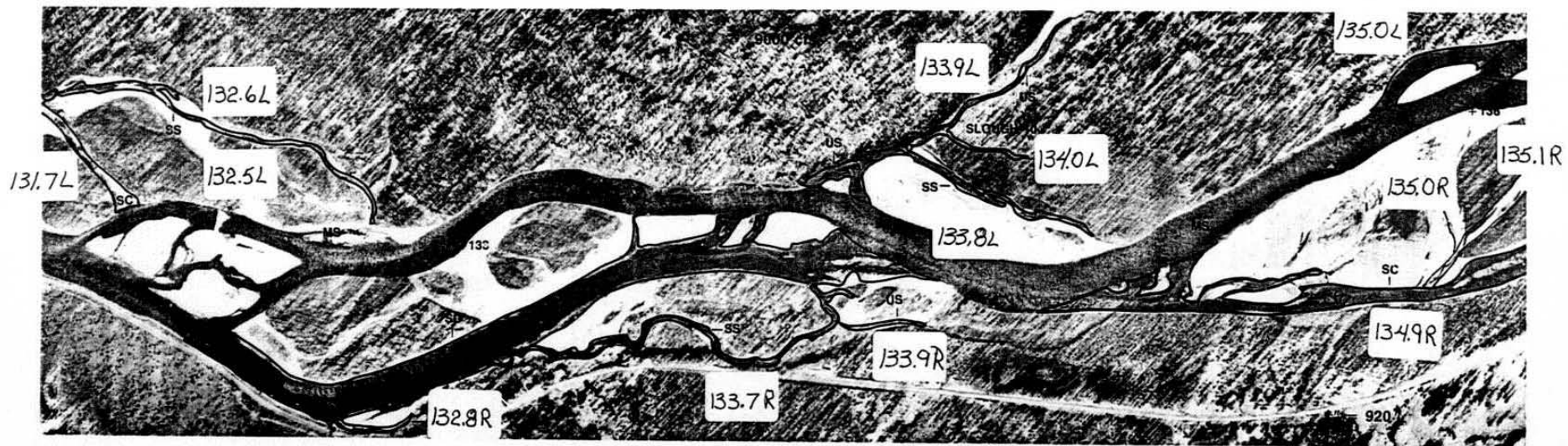
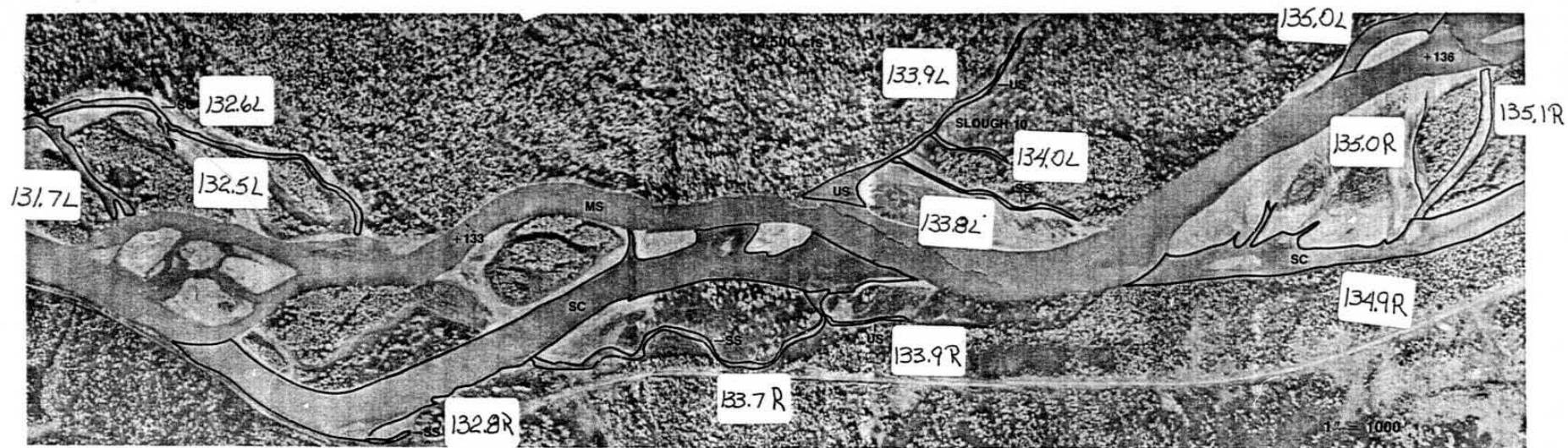
RIVER MILE 130 TO 132

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EWT&A

HARZA-EBASCO

SUSITNA JOINT VENTURE



LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

MIDDLE SUSITNA RIVER

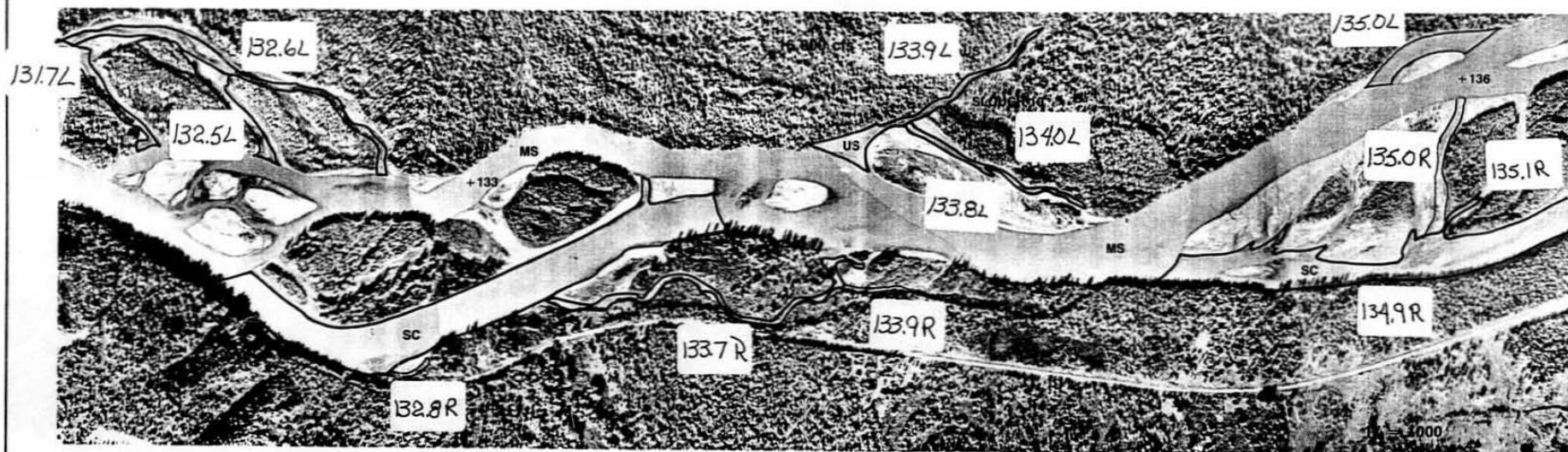
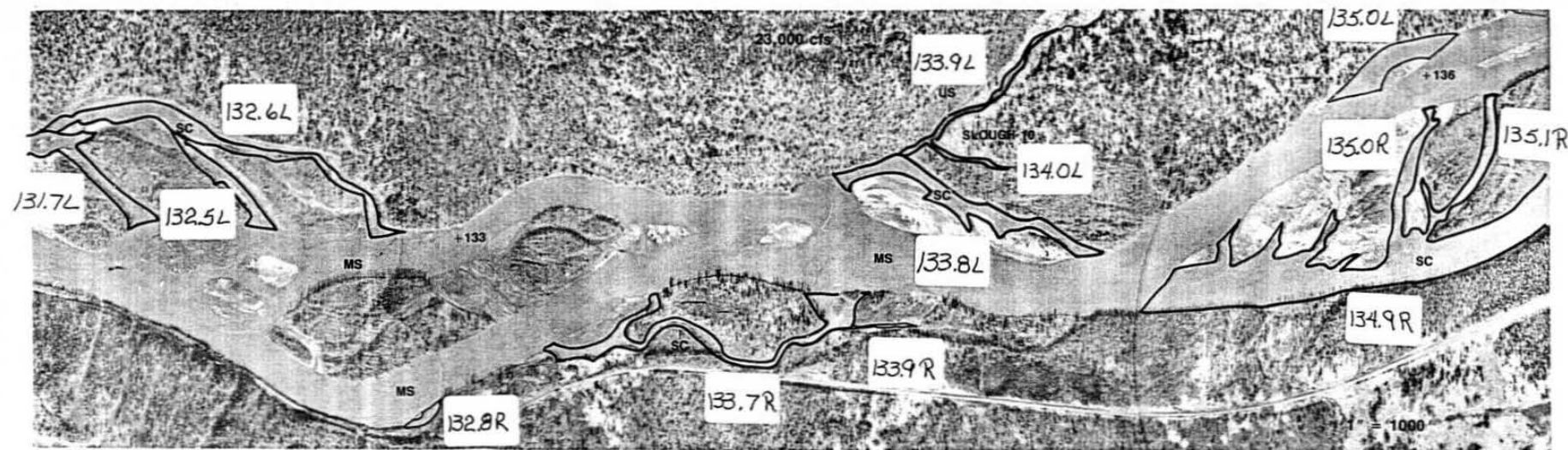
PLATE 6 OF 18

RIVER MILE 133 TO 136

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EWTA
WOODY TRIMET & ASSOCIATES

HARZA-EBASCO
SUSITNA JOINT VENTURE



LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

MIDDLE SUSITNA RIVER

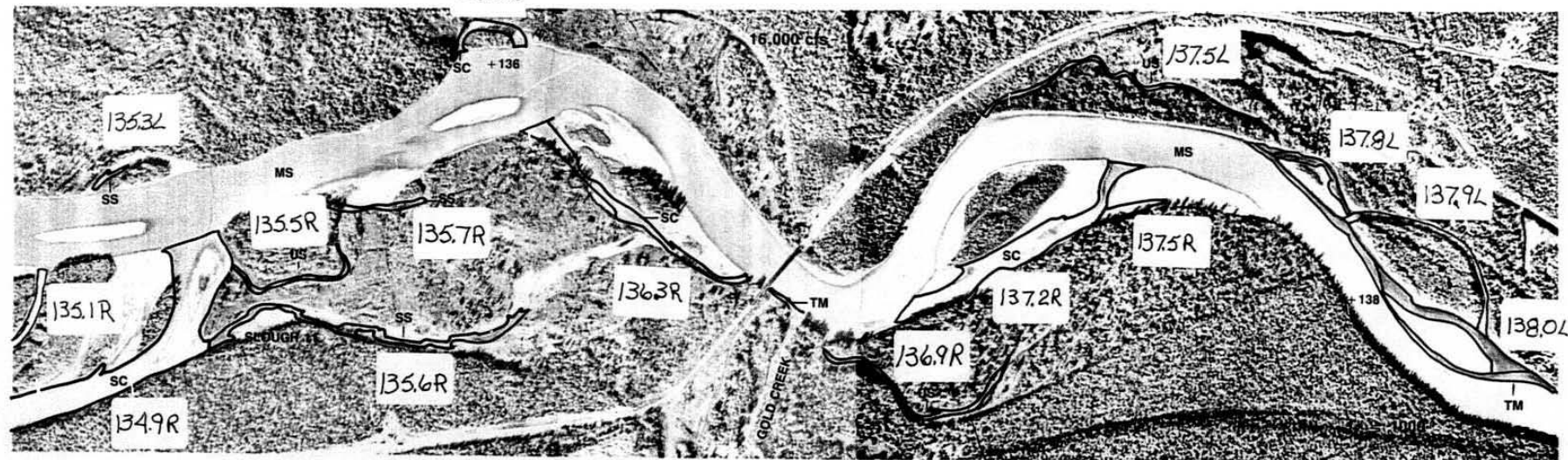
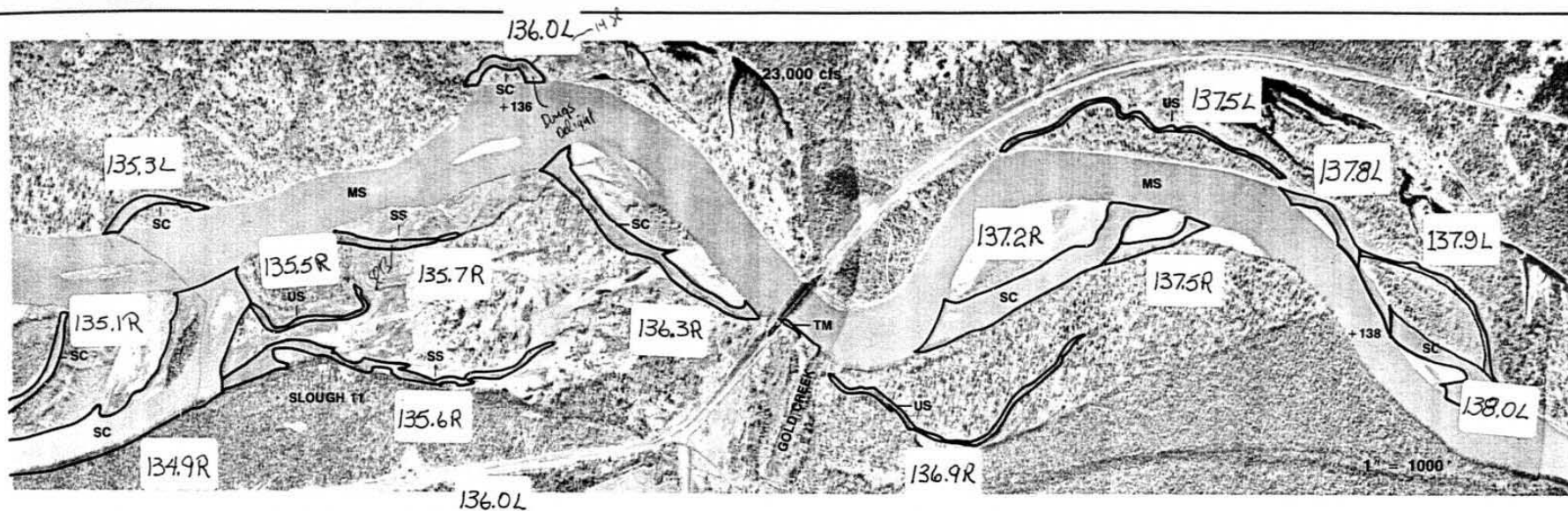
PLATE 6 OF 18

RIVER MILE 133 TO 136

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EWT&A
ENGINEERING, DESIGN & CONSTRUCTION

HARZA-EBASCO
SUSITNA JOINT VENTURE



LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

MIDDLE SUSITNA RIVER

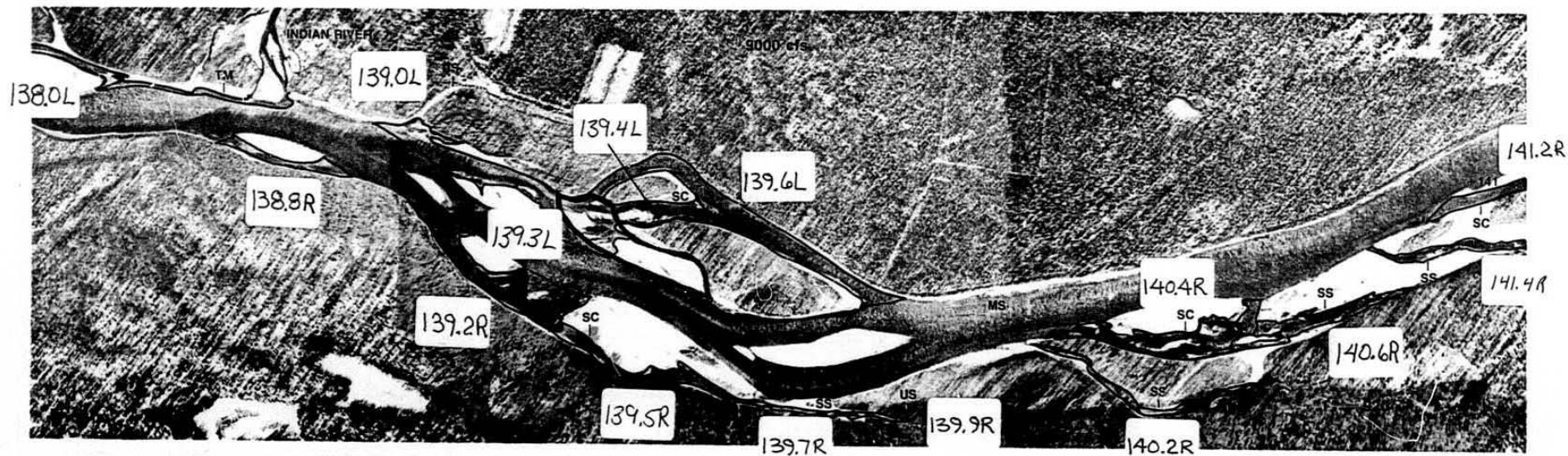
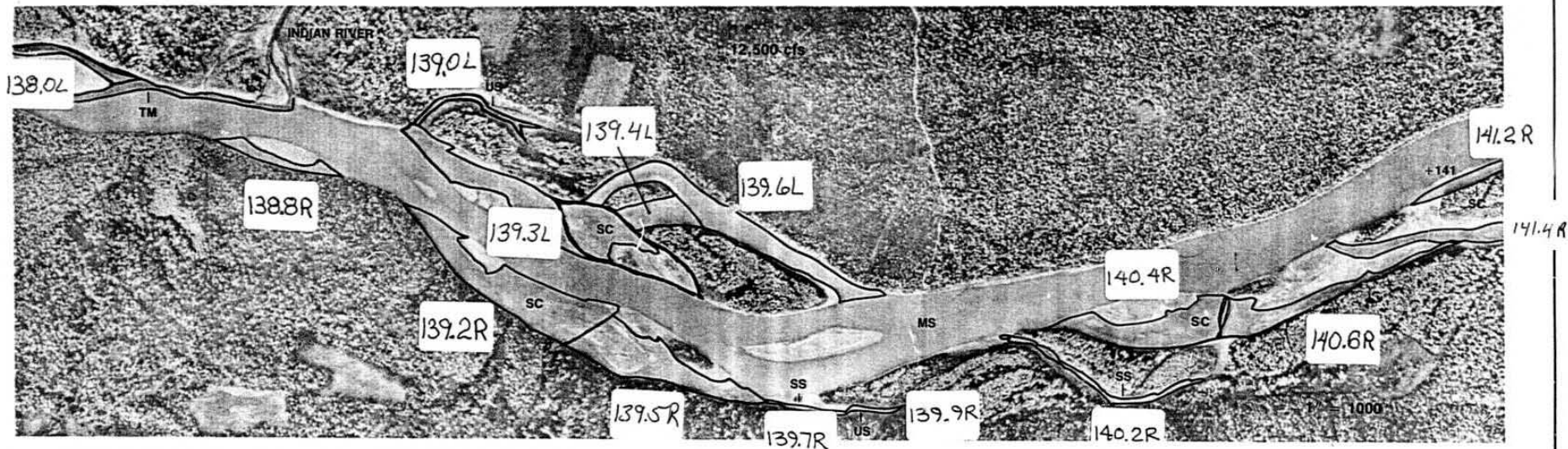
PLATE 5 OF 18

RIVER MILE 136 TO 138

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EWTA
WINDY TRIBUTARY ASSOCIATES

HARZA-EBASCO
SUSITNA JOINT VENTURE



LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

MIDDLE SUSITNA RIVER

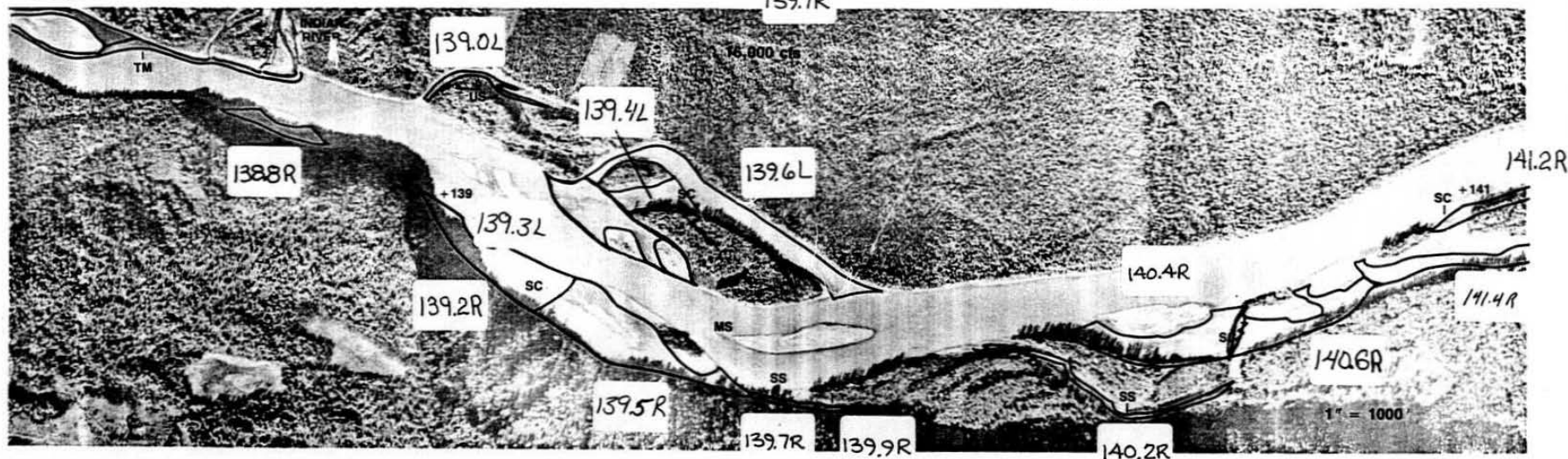
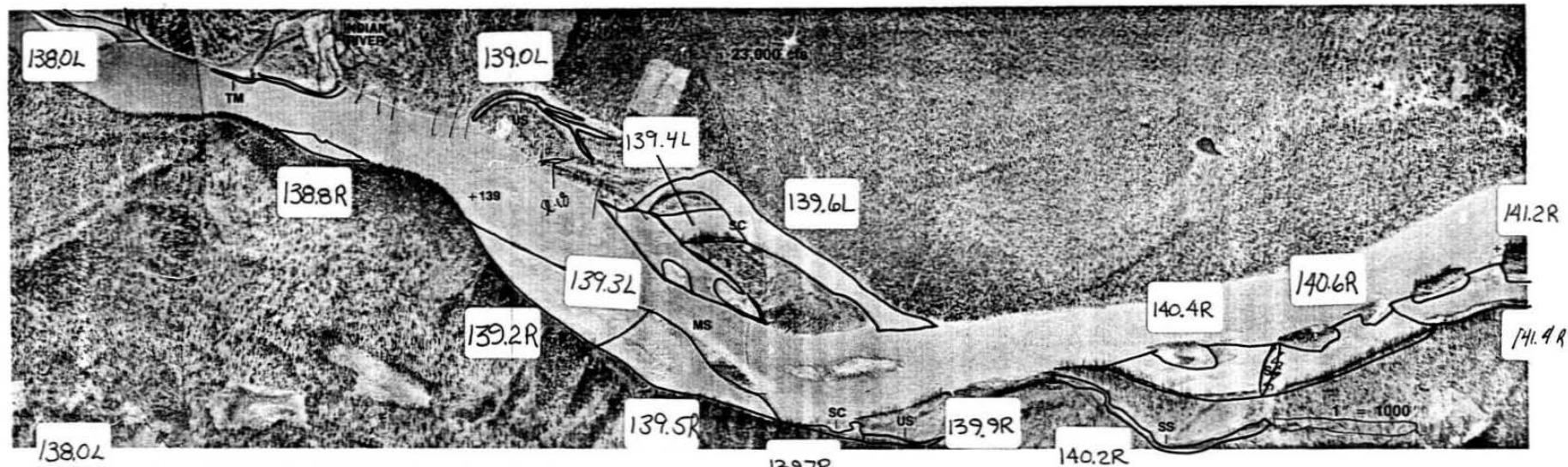
PLATE 4 OF 18

RIVER MILE 139 TO 141

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EWTA
E. WOODS TRIMBY & ASSOCIATES

HARZA-EBASCO
SUSITNA JOINT VENTURE



LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

MIDDLE SUSITNA RIVER

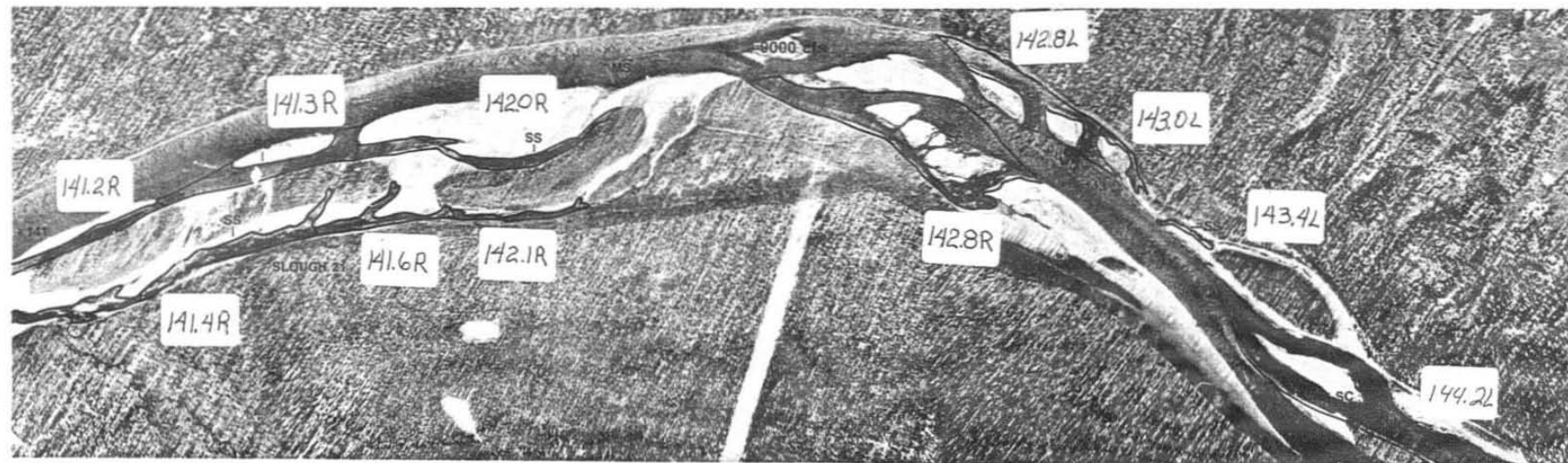
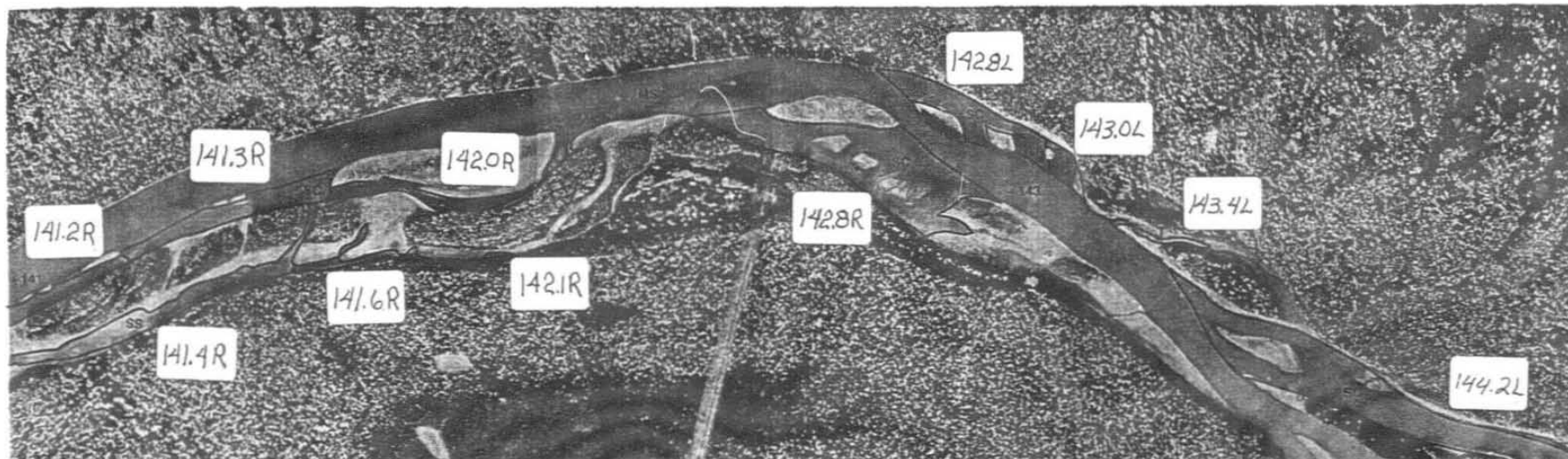
PLATE 4 OF 18

RIVER MILE 139 TO 141

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EW&A
ENGINEERING & ARCHITECTS

HARZA-ERASCO
SUSITNA JOINT VENTURE



LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

MIDDLE SUSITNA RIVER

PLATE 3 OF 18

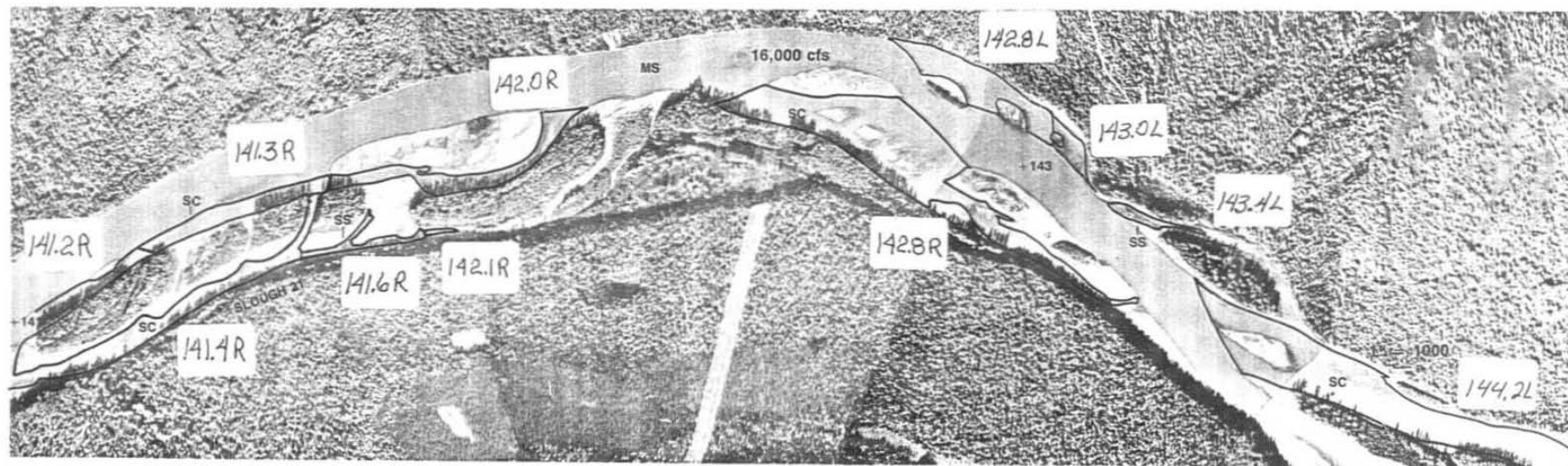
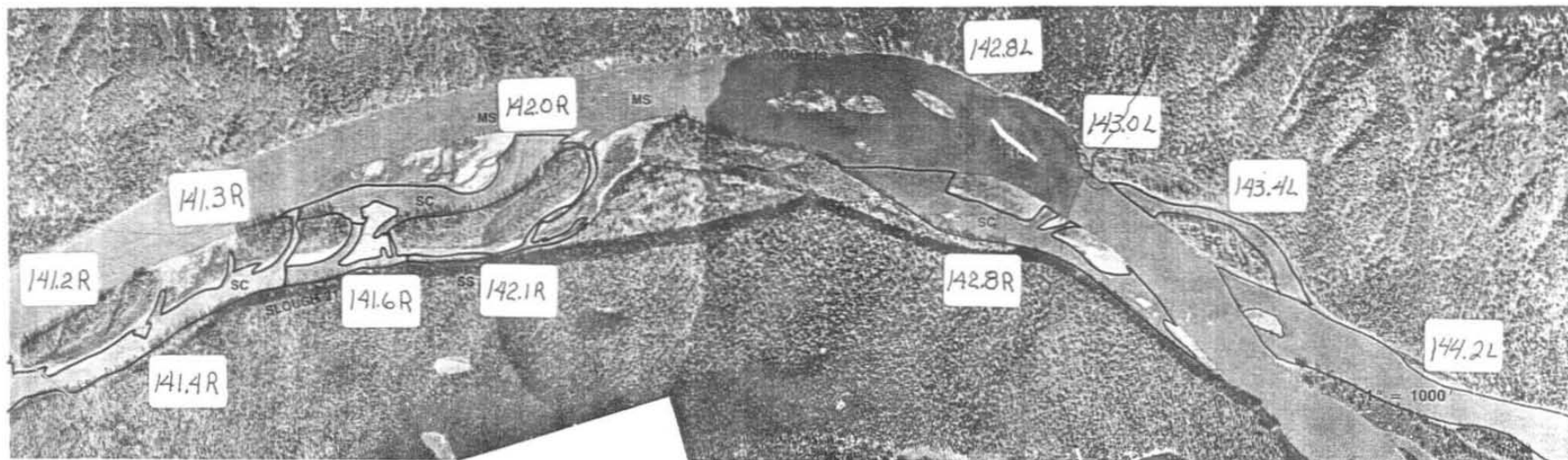
RIVER MILE 142 TO 144

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EW&A

HARZA-EBASCO

SUSITNA JOINT VENTURE



LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

MIDDLE SUSITNA RIVER

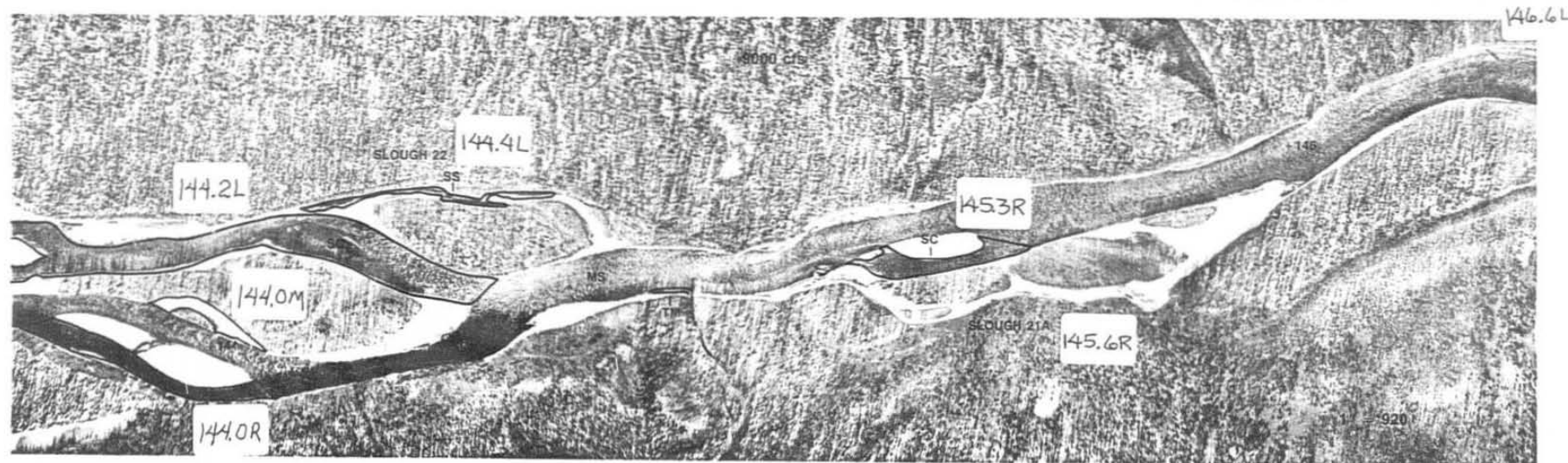
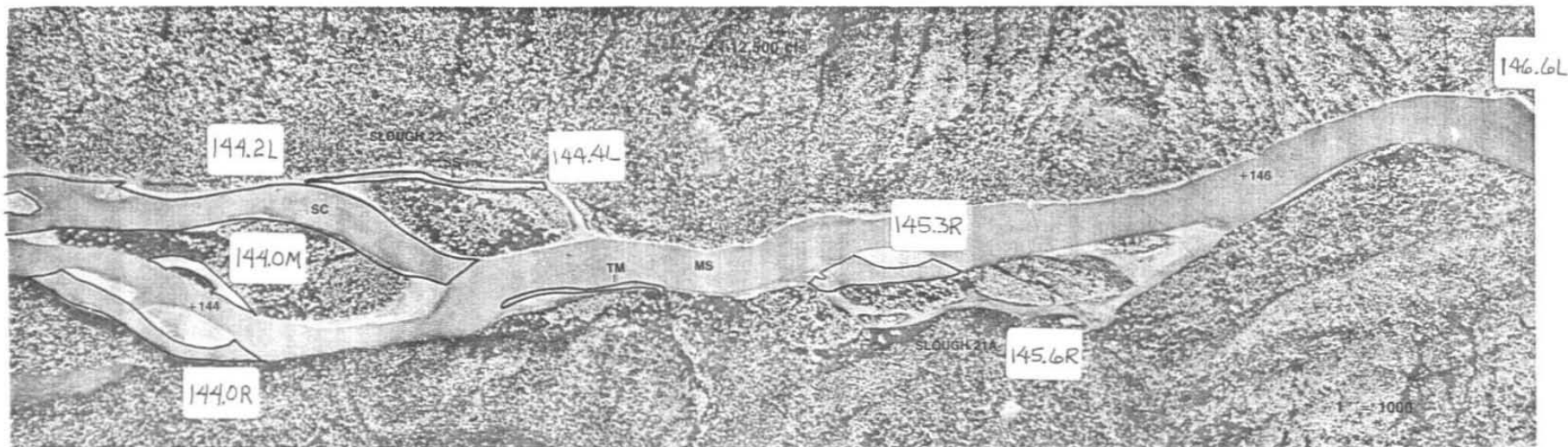
PLATE 3 OF 18

RIVER MILE 142 TO 144

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EWT&A
ENGINEERING, WRITING, TESTING & ARCHITECTURE

HARZA-ERASCO
SUSITNA JOINT VENTURE



LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

MIDDLE SUSITNA RIVER

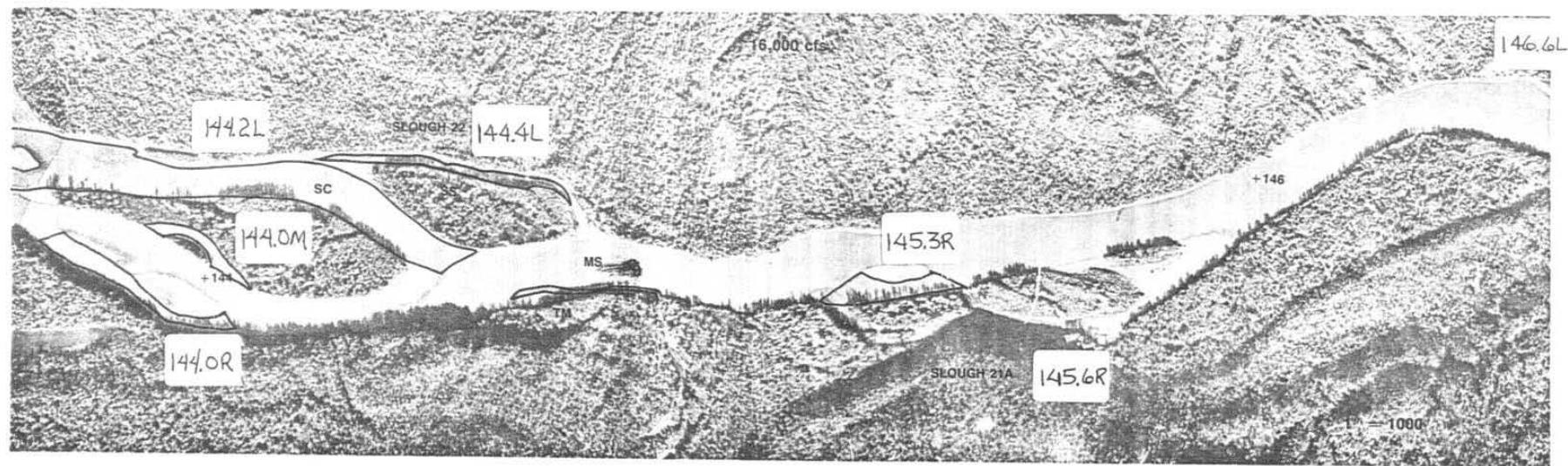
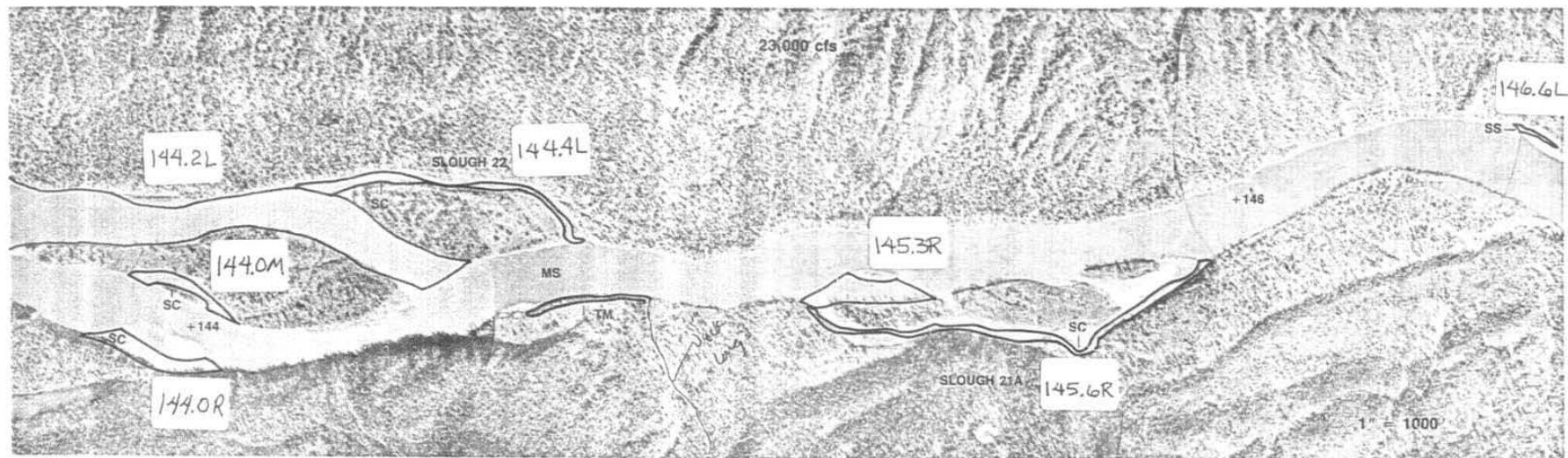
PLATE 2 OF 18

RIVER MILE 144 TO 146

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EWTA
ELECTRICITY WORKING TOGETHER

HARZA-HEASCO
SUSITNA JOINT VENTURE



LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

MIDDLE SUSITNA RIVER

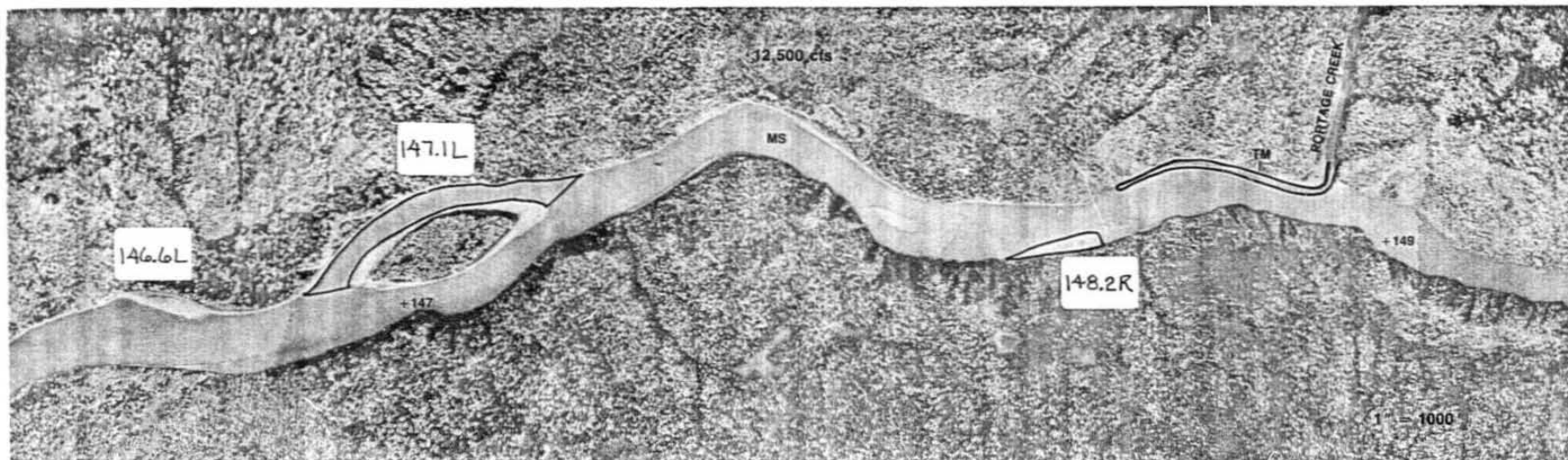
PLATE 2 OF 18

RIVER MILE 144 TO 146

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EWI&A
ENGINEERING & ARCHITECTURE

HARZA-EBASCO
SUSITNA JOINT VENTURE



LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

MIDDLE SUSITNA RIVER

PLATE 1 OF 18

RIVER MILE 147 TO 149

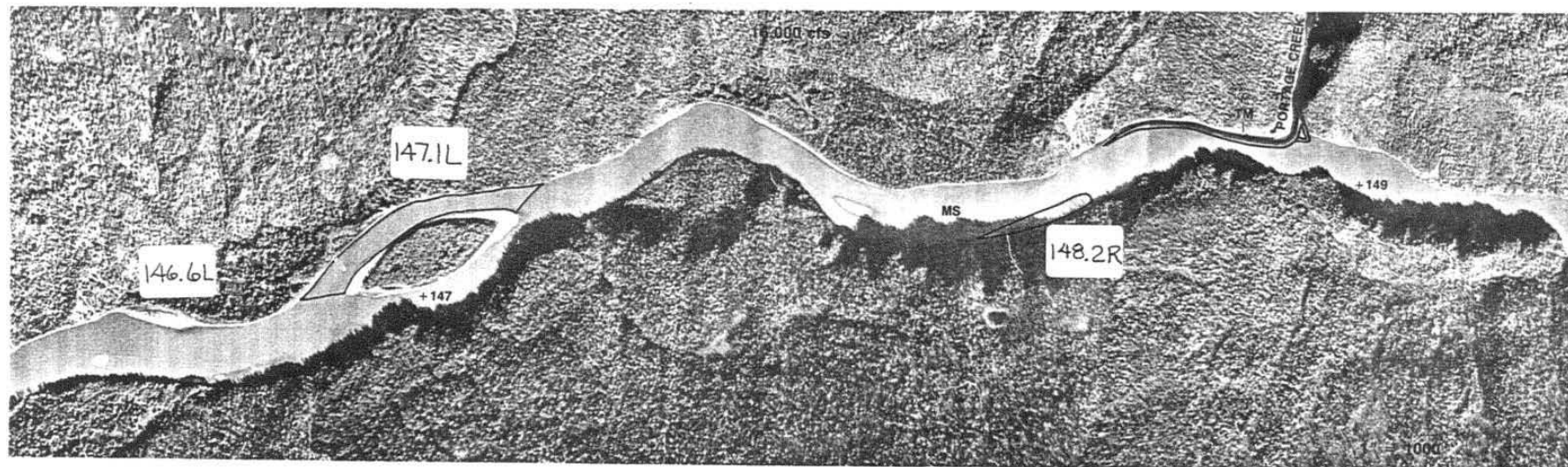
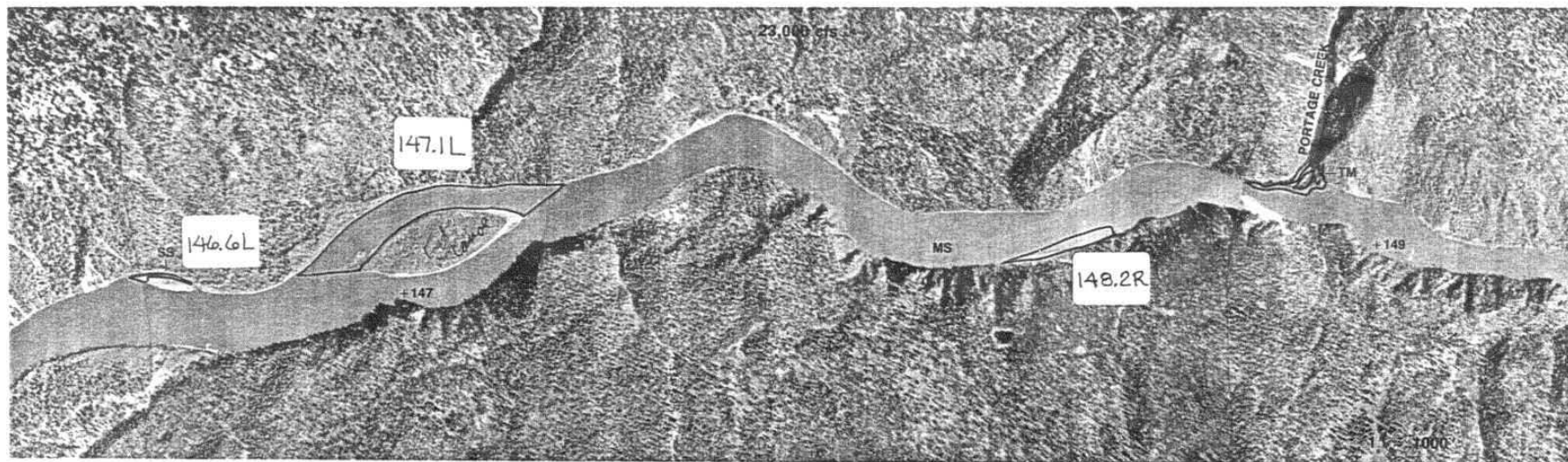
ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EW&A

ENGINEERS ARCHITECTS

HARTA-EBASCO

SUSITNA JOINT VENTURE



LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

MIDDLE SUSITNA RIVER

PLATE 1 OF 18

RIVER MILE 147 TO 149

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EWTT&A
ENGINEERING, WRITING, TESTING & ANALYSIS

HARZA-EBASCO
SUSITNA JOINT VENTURE