

APPENDIX B: DISTRIBUTION OF FISH RADIO-TAGGED IN THE MIDDLE AND LOWER SUSITNA RIVER, 2013

**Susitna-Watana Hydroelectric Project
(FERC No. 14241)**

**Study of Fish Distribution and Abundance in the
Middle and Lower Susitna River Study (9.6)**

**Appendix B
Distribution of Fish Radio-Tagged in the Middle and
Lower Susitna River, 2013**

Initial Study Report

Prepared for

Alaska Energy Authority



SUSITNA-WATANA HYDRO

Clean, reliable energy for the next 100 years.

Prepared by

LGL Alaska Research Associates, Inc.]

February 2014 Draft

LIST OF FIGURES

Figure B1. Live detections of radio-tagged Arctic Grayling released in the Middle Susitna River, 1 June – 31 August, 2013.....	1
Figure B2. Live detections of radio-tagged Arctic Grayling #9004 released in the Middle Susitna River on 13 June, 2013.	2
Figure B3. Live detections of radio-tagged Arctic Grayling #9016 released in the Middle Susitna River on 16 June, 2013.	3
Figure B4. Live detections of radio-tagged Burbot released in the Middle Susitna River, 1 June – 31 August, 2013.....	4
Figure B5. Live detections of radio-tagged Burbot #9047 released in the Middle Susitna River on 21 June, 2013.	5
Figure B6. Live detections of radio-tagged Dolly Varden released in the Middle Susitna River, 1 June – 31 August, 2013.....	6
Figure B7. Live detections of radio-tagged Dolly Varden #9031 released in the Middle Susitna River on 17 June, 2013.	7
Figure B8. Live detections of radio-tagged Dolly Varden #9067 released in the Talkeetna River on 14 July, 2013.....	8
Figure B9. Live detections of radio-tagged Longnose Sucker released in the Middle Susitna River, 1 June – 31 August, 2013.....	9
Figure B10. Live detections of radio-tagged Longnose Sucker #9037 released in the Middle Susitna River on 20 June, 2013.....	10
Figure B11. Live detections of radio-tagged Longnose Sucker #9028 released in the Middle Susitna River on 17 June, 2013.....	11
Figure B12. Live detections of radio-tagged Rainbow Trout released in the Middle Susitna River, 1 June – 31 August, 2013.....	12
Figure B13. Live detections of radio-tagged Rainbow Trout #9008 released in the Middle Susitna River on 14 June, 2013.....	13
Figure B14. Live detections of radio-tagged Rainbow Trout #9018 released in the Middle Susitna River on 16 June, 2013.....	14
Figure B15. Live detections of radio-tagged Rainbow Trout #9079 released in the Montana Creek on 7 July, 2013.	15

Figure B16. Live detections of radio-tagged Humpback Whitefish released in the Middle Susitna River, 1 June – 31 August, 2013.....	16
Figure B17. Live detections of radio-tagged Round Whitefish released in the Middle Susitna River, 1 June – 31 August, 2013.....	17
Figure B18. Live detections of radio-tagged Round Whitefish #9013 released in the Middle Susitna River on 15 June, 2013.....	18
Figure B19. Live detections of radio-tagged Round Whitefish #9011 released in the Middle Susitna River on 14 June, 2013.....	19
Figure B20. Radio telemetry survey zones in the Middle and Upper Susitna River, 2013.	20
Figure B21. Radio telemetry survey zones in the Lower Susitna River, 2013.....	21

LIST OF TABLES

Table B1. Arctic grayling two-week post tagging location status by tagging group.....	22
Table B2. Burbot two-week post tagging location status by tagging group.....	23
Table B3. Dolly Varden two-week post tagging location status by tagging group.	24
Table B4. Longnose sucker two-week post tagging location status by tagging group.....	25
Table B5. Northern pike two-week post tagging location status by tagging group.....	26
Table B6. Rainbow trout two-week post tagging location status by tagging group.	27
Table B7. Humpback whitefish two-week post tagging location status by tagging group.....	28
Table B8. Round whitefish two-week post tagging location status by tagging group.	29

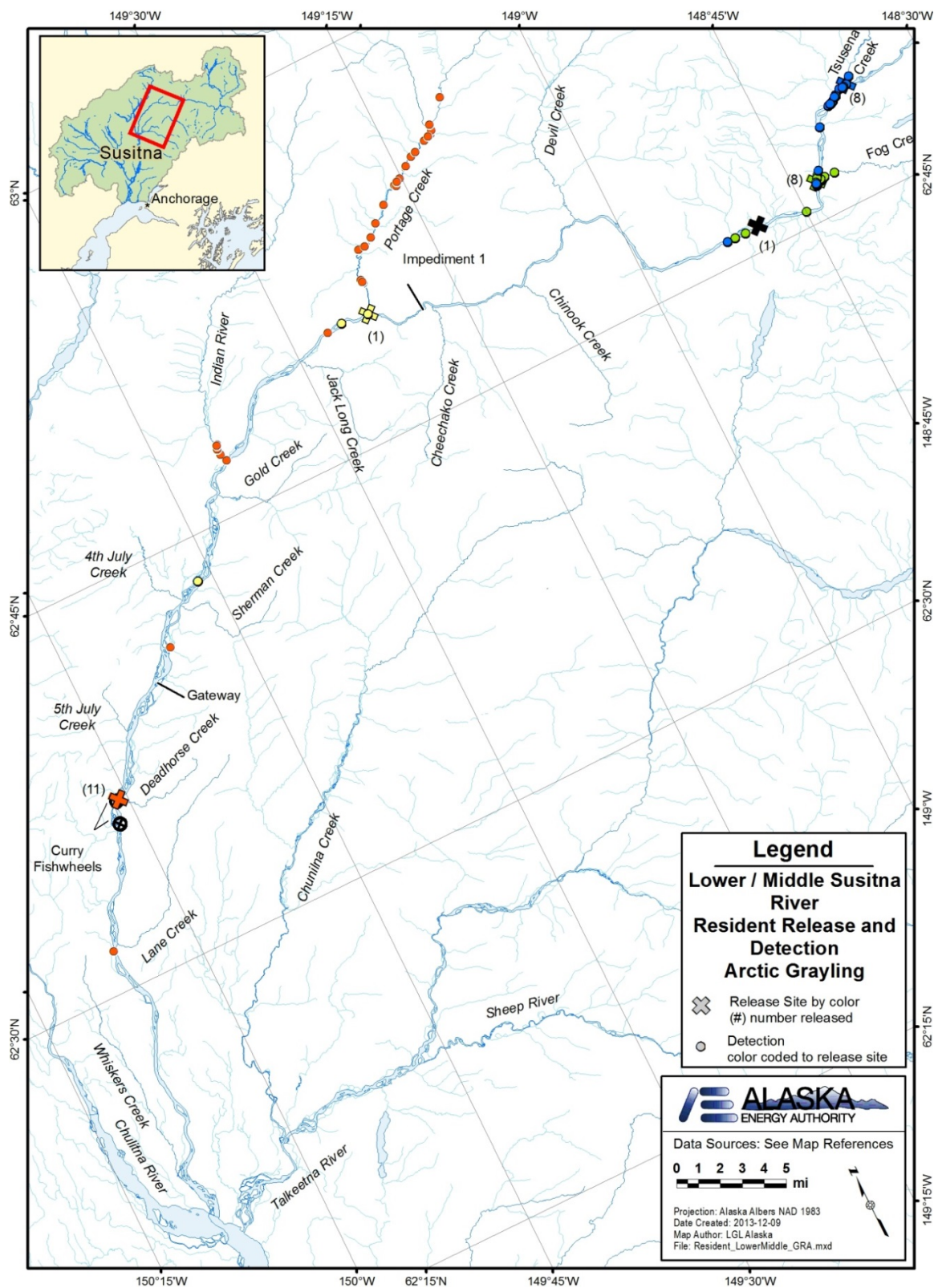
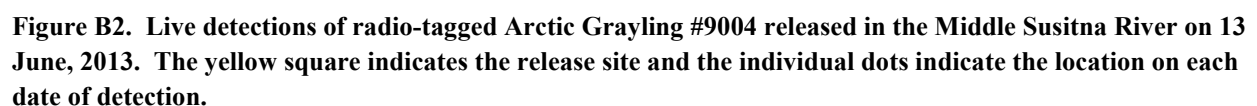


Figure B1. Live detections of radio-tagged Arctic Grayling released in the Middle Susitna River, 1 June – 31 August, 2013. Color-coded X's indicate release sites and respectively colored individual dots indicate last-known locations of each unique fish for each two week analysis period (see Table B1).



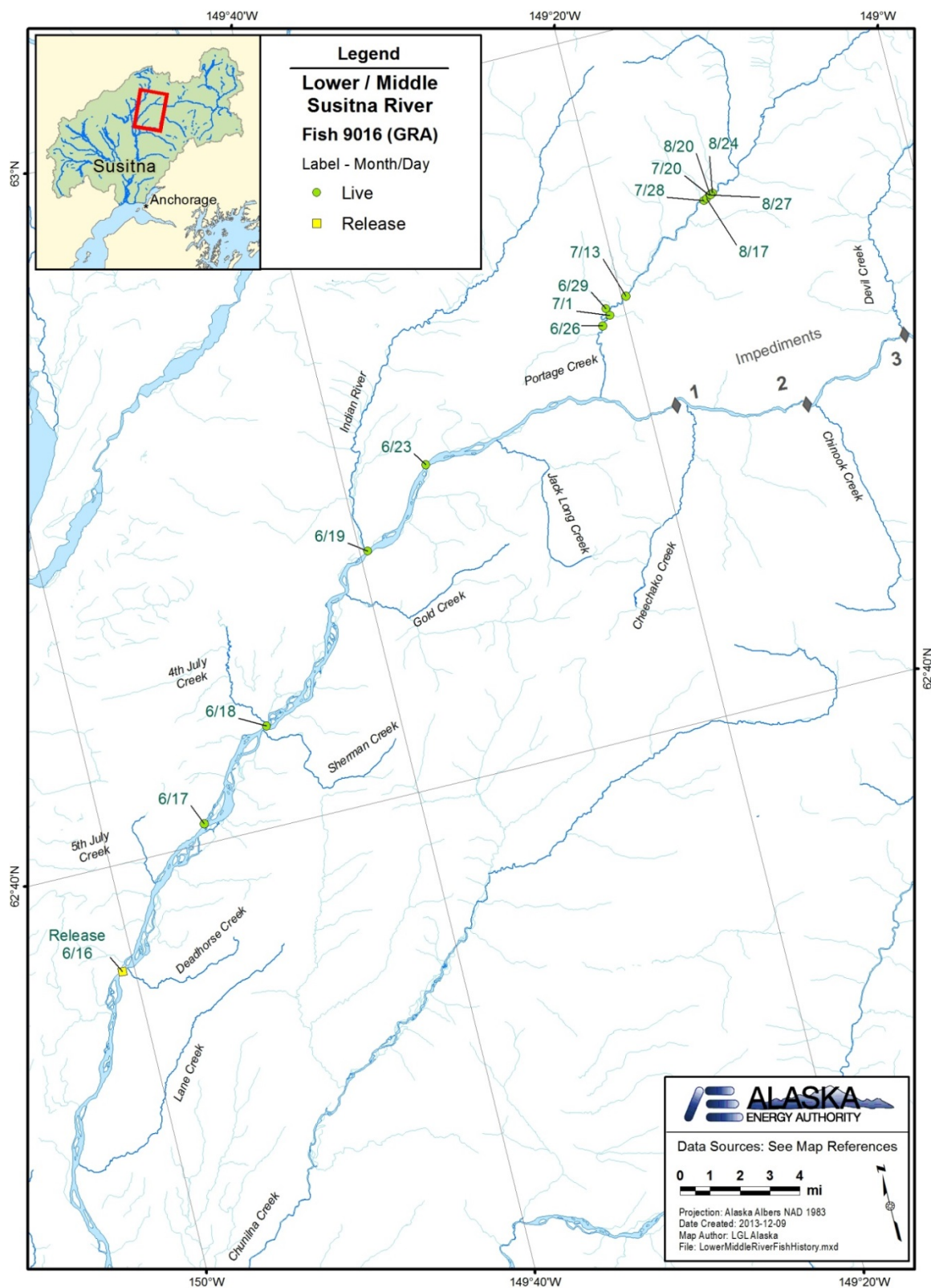


Figure B3. Live detections of radio-tagged Arctic Grayling #9016 released in the Middle Susitna River on 16 June, 2013. The yellow square indicates the release site and the individual dots indicate the location on each date of detection.

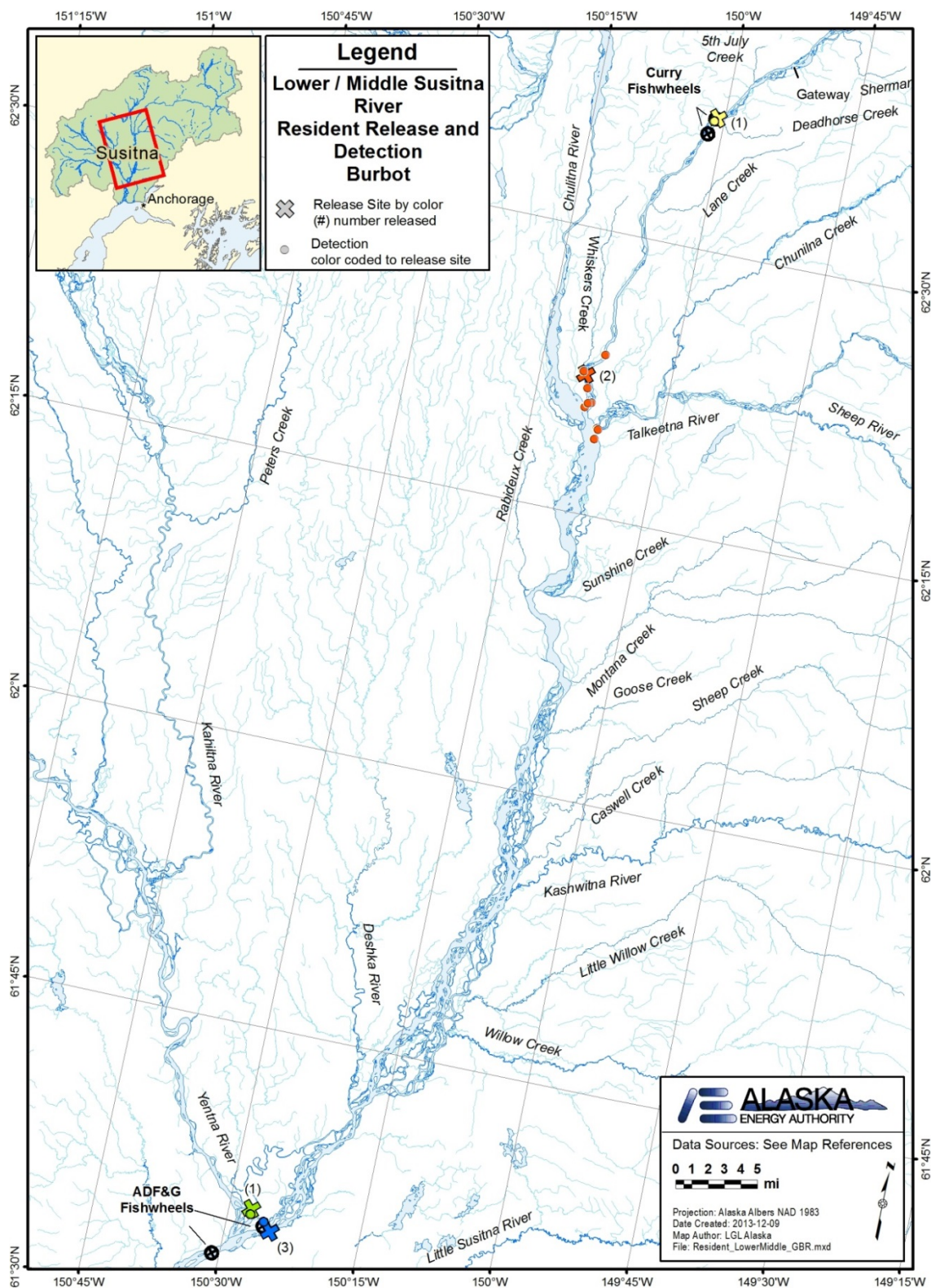


Figure B4. Live detections of radio-tagged Burbot released in the Middle Susitna River, 1 June – 31 August, 2013. Color-coded X's indicate release sites and respectively colored individual dots indicate last-known locations of each unique fish for each two week analysis period (see Table B2).

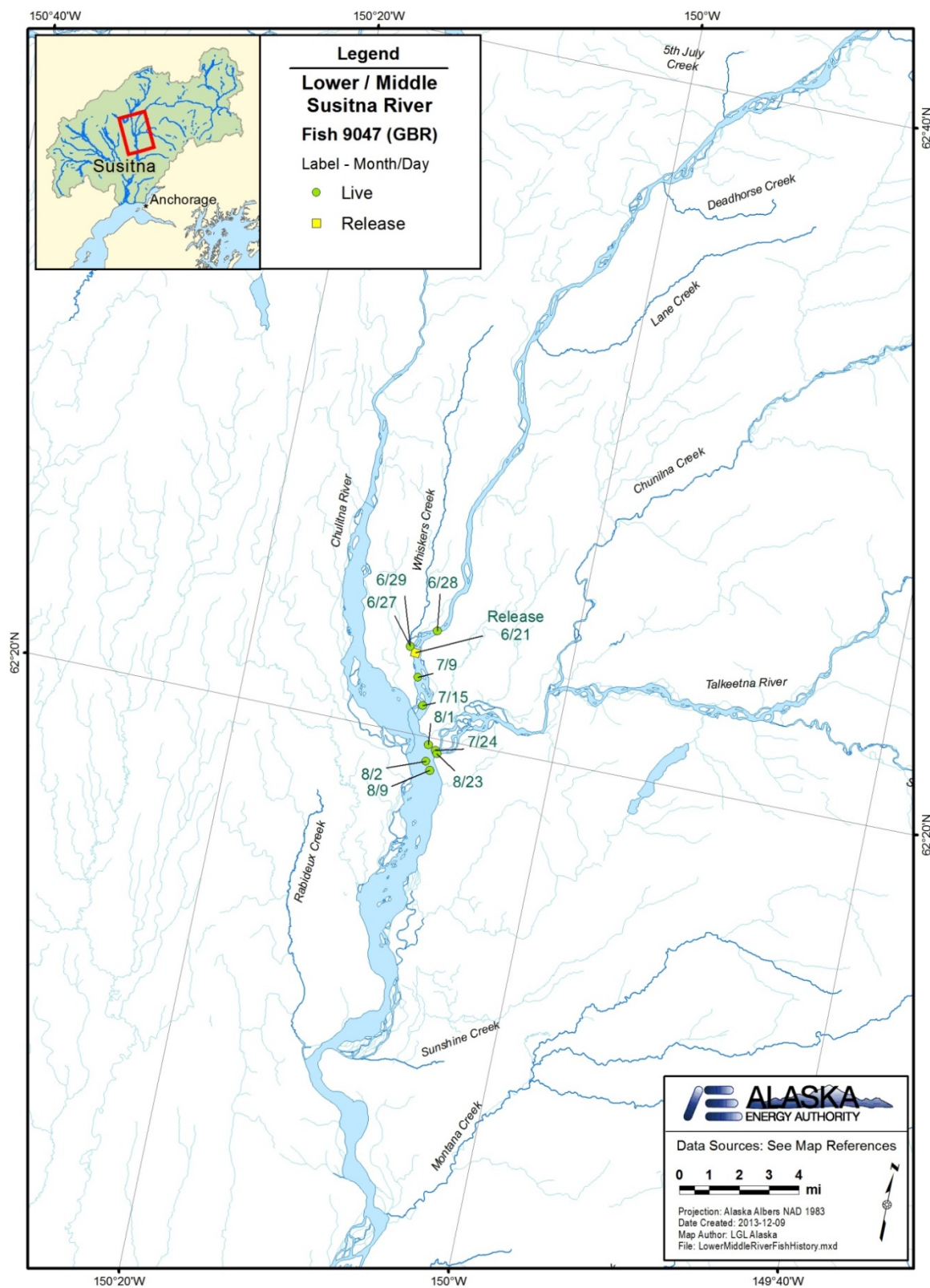


Figure B5. Live detections of radio-tagged Burbot #9047 released in the Middle Susitna River on 21 June, 2013. The yellow square indicates the release site and the individual dots indicate the location on each date of detection.

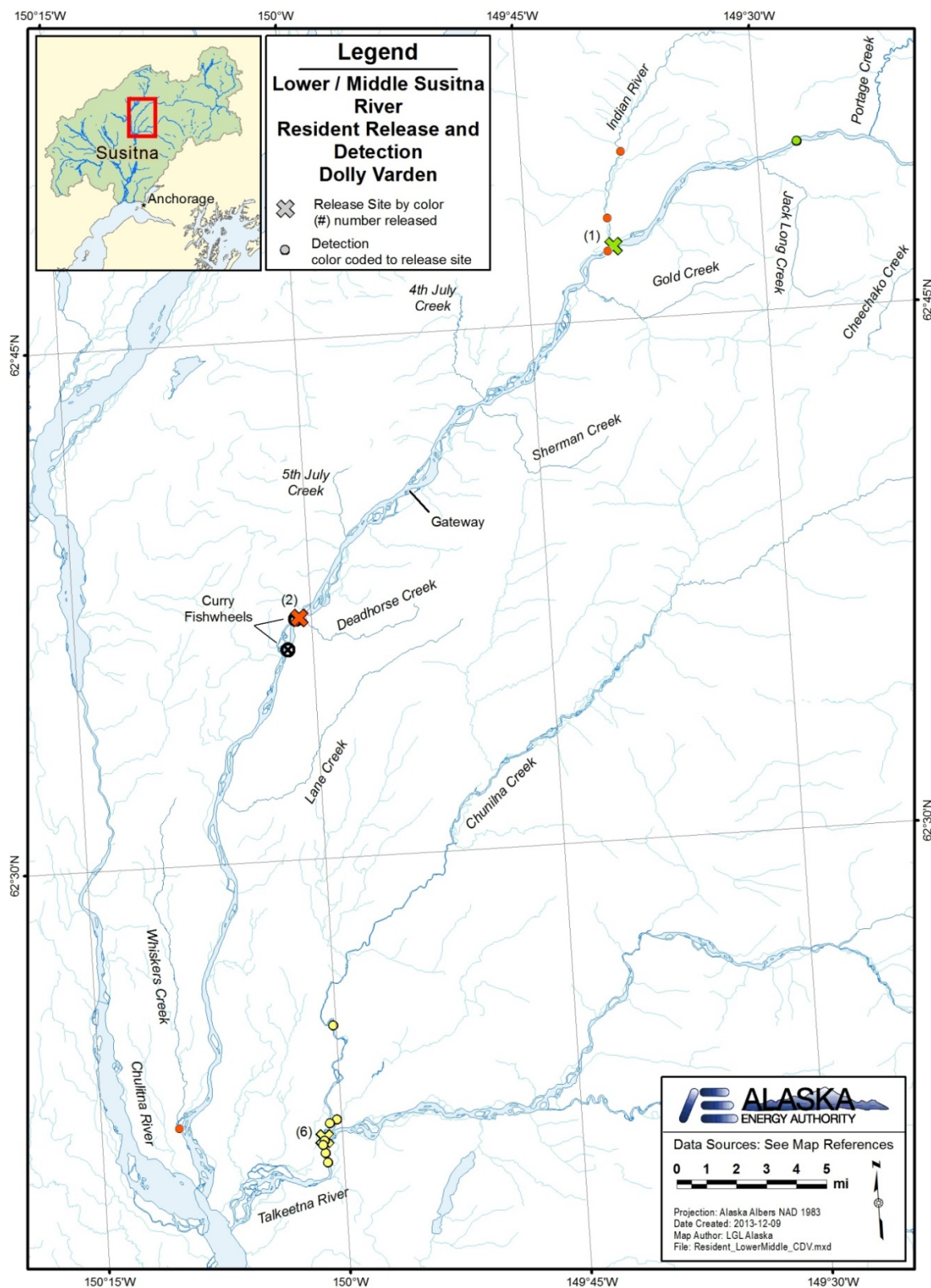


Figure B6. Live detections of radio-tagged Dolly Varden released in the Middle Susitna River, 1 June – 31 August, 2013. Color-coded X's indicate release sites and respectively colored individual dots indicate last-known locations of each unique fish for each two week analysis period (see Table B3).

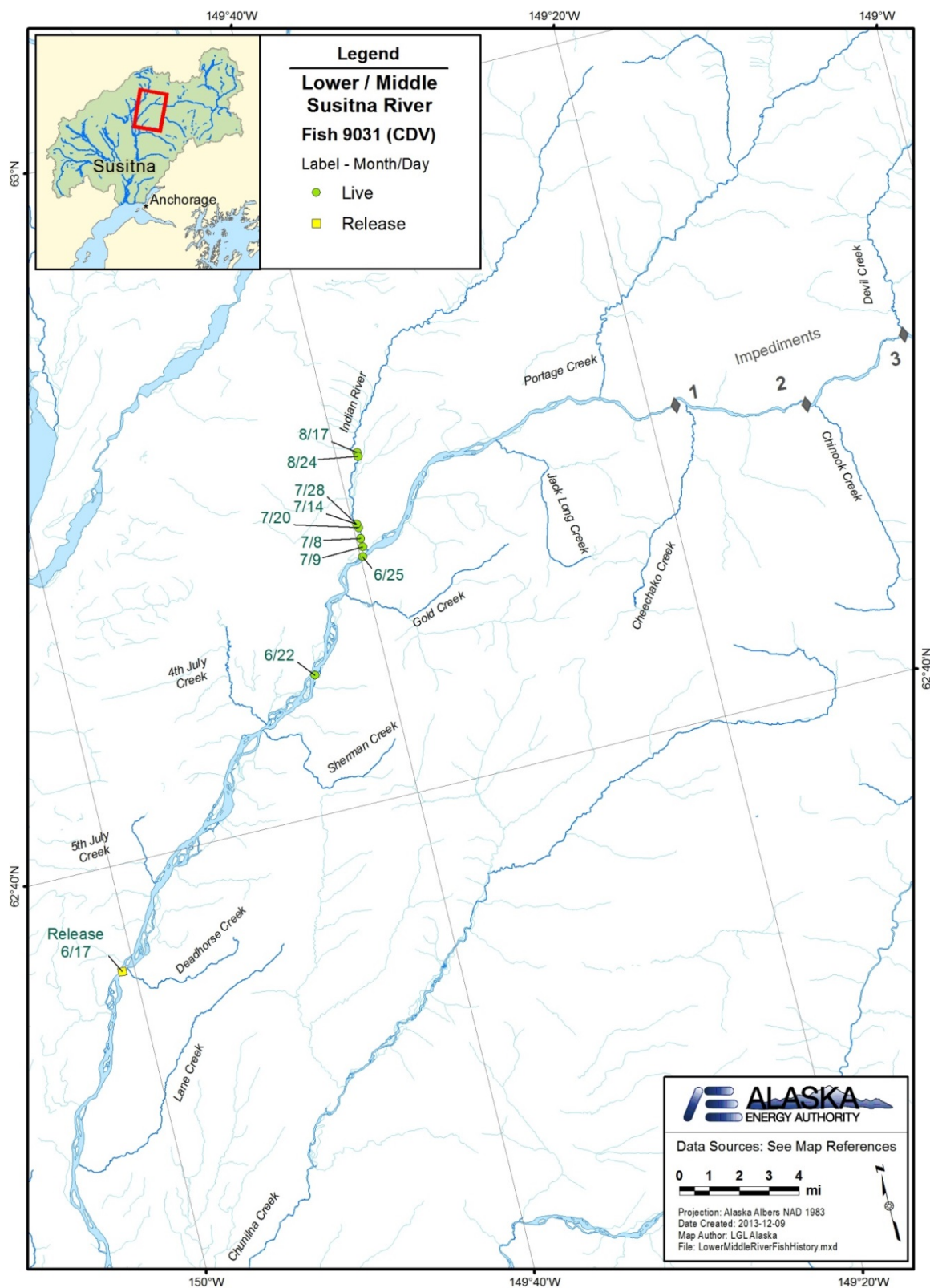


Figure B7. Live detections of radio-tagged Dolly Varden #9031 released in the Middle Susitna River on 17 June, 2013. The yellow square indicates the release site and the individual dots indicate the location on each date of detection.

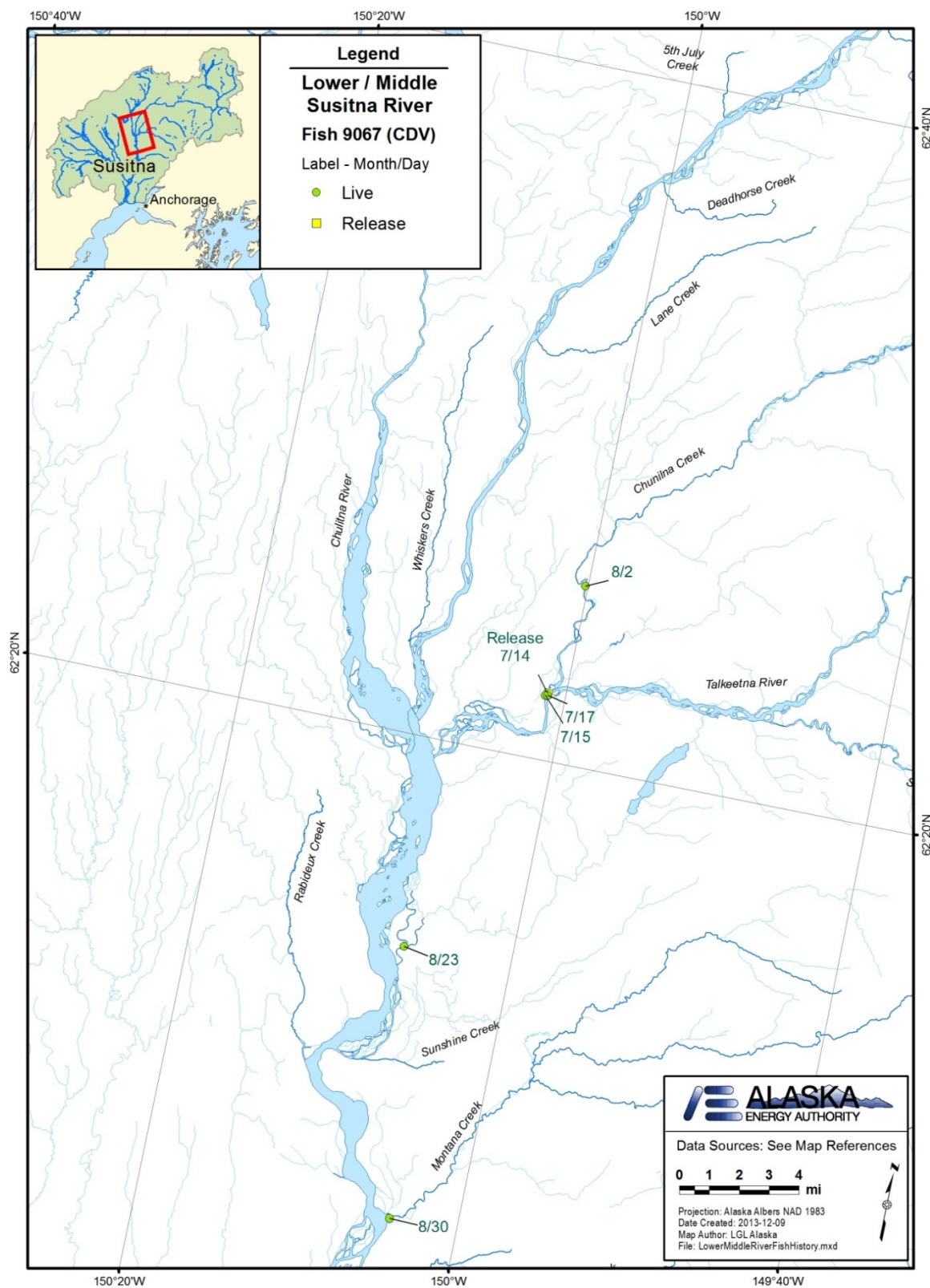


Figure B8. Live detections of radio-tagged Dolly Varden #9067 released in the Talkeetna River on 14 July, 2013. The yellow square indicates the release site and the individual dots indicate the location on each date of detection.

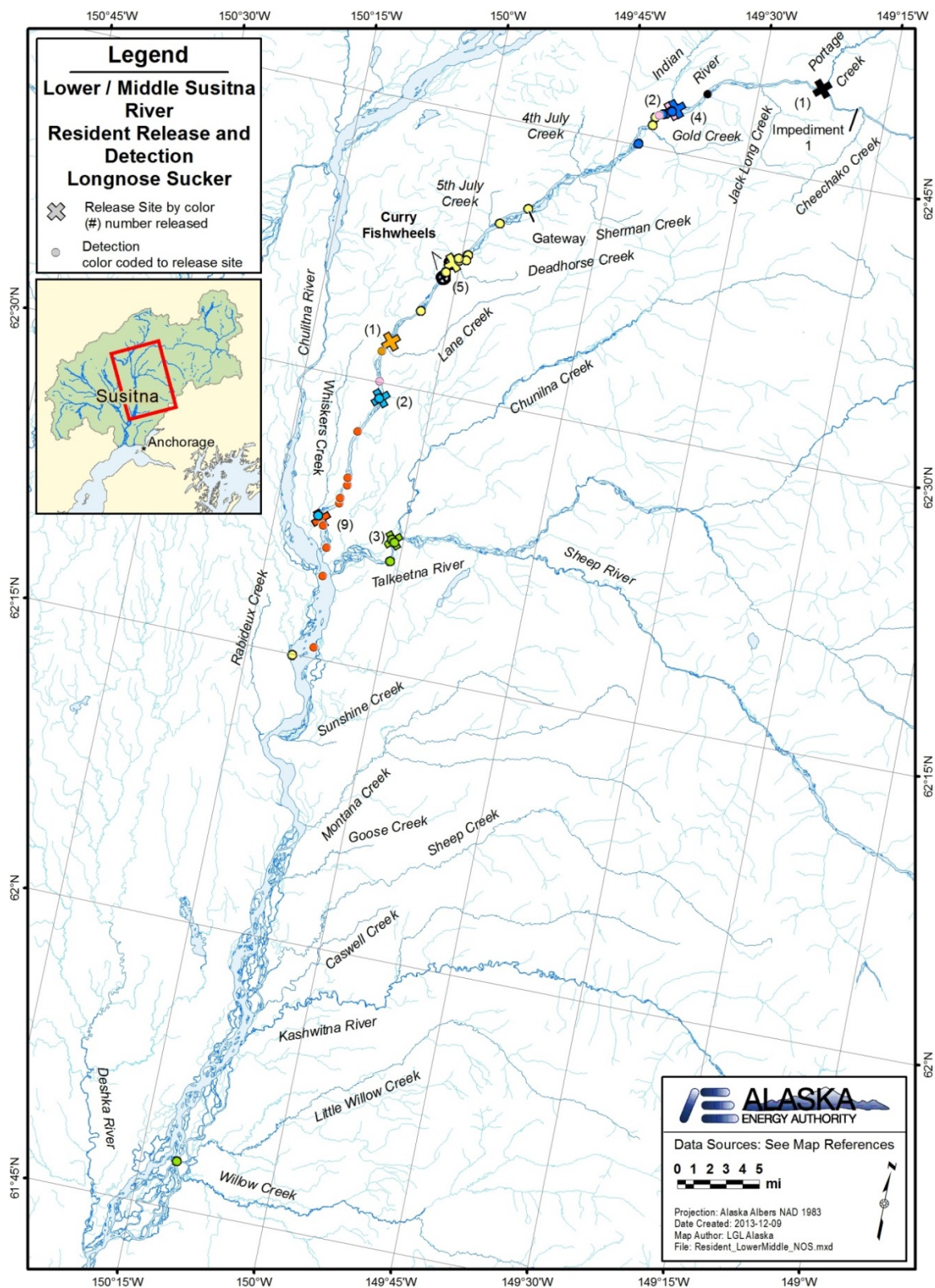


Figure B9. Live detections of radio-tagged Longnose Sucker released in the Middle Susitna River, 1 June – 31 August, 2013. Color-coded X's indicate release sites and respectively colored individual dots indicate last-known locations of each unique fish for each two week analysis period (see Table B4).

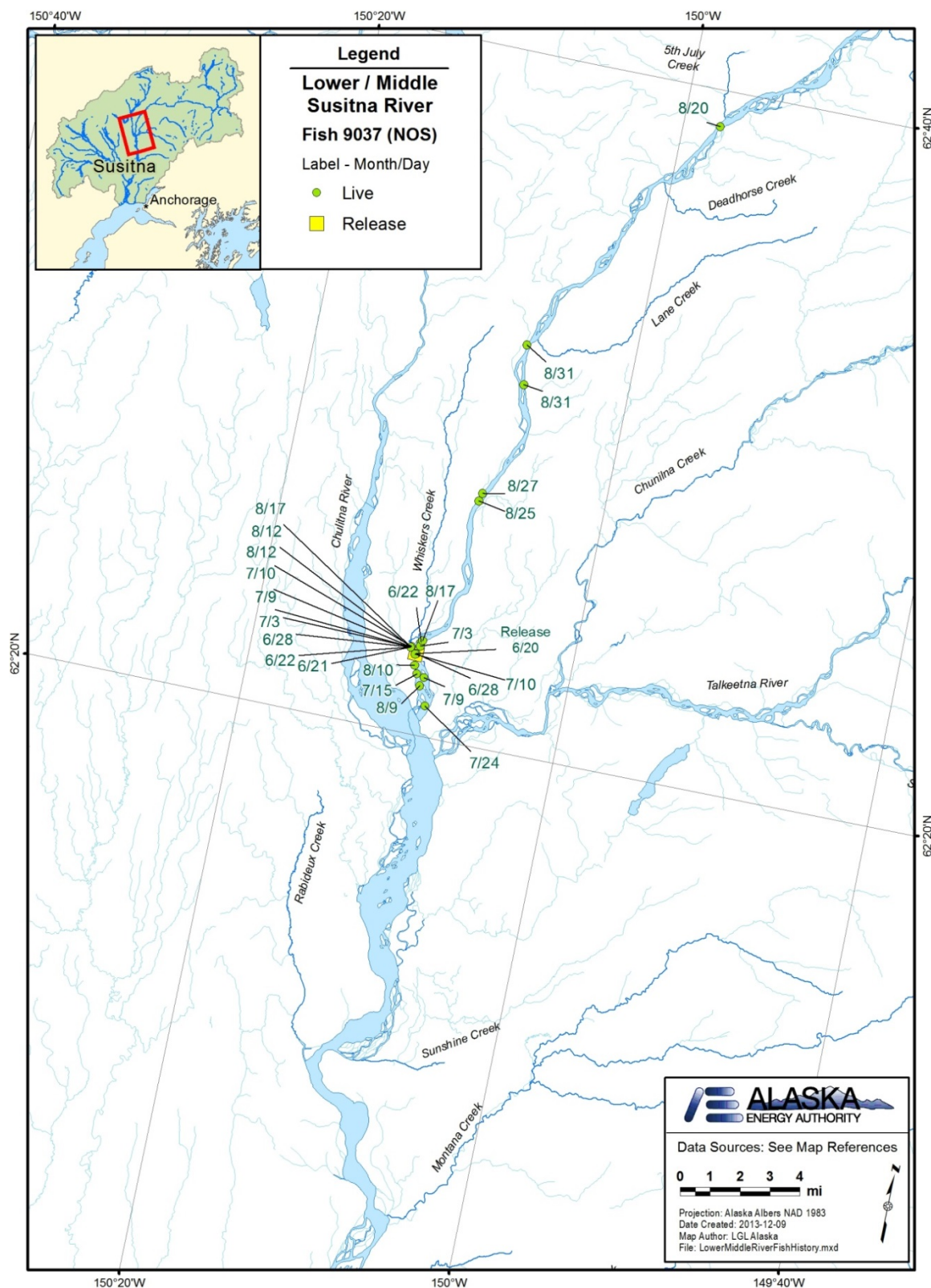


Figure B10. Live detections of radio-tagged Longnose Sucker #9037 released in the Middle Susitna River on 20 June, 2013. The yellow square indicates the release site and the individual dots indicate the location on each date of detection.

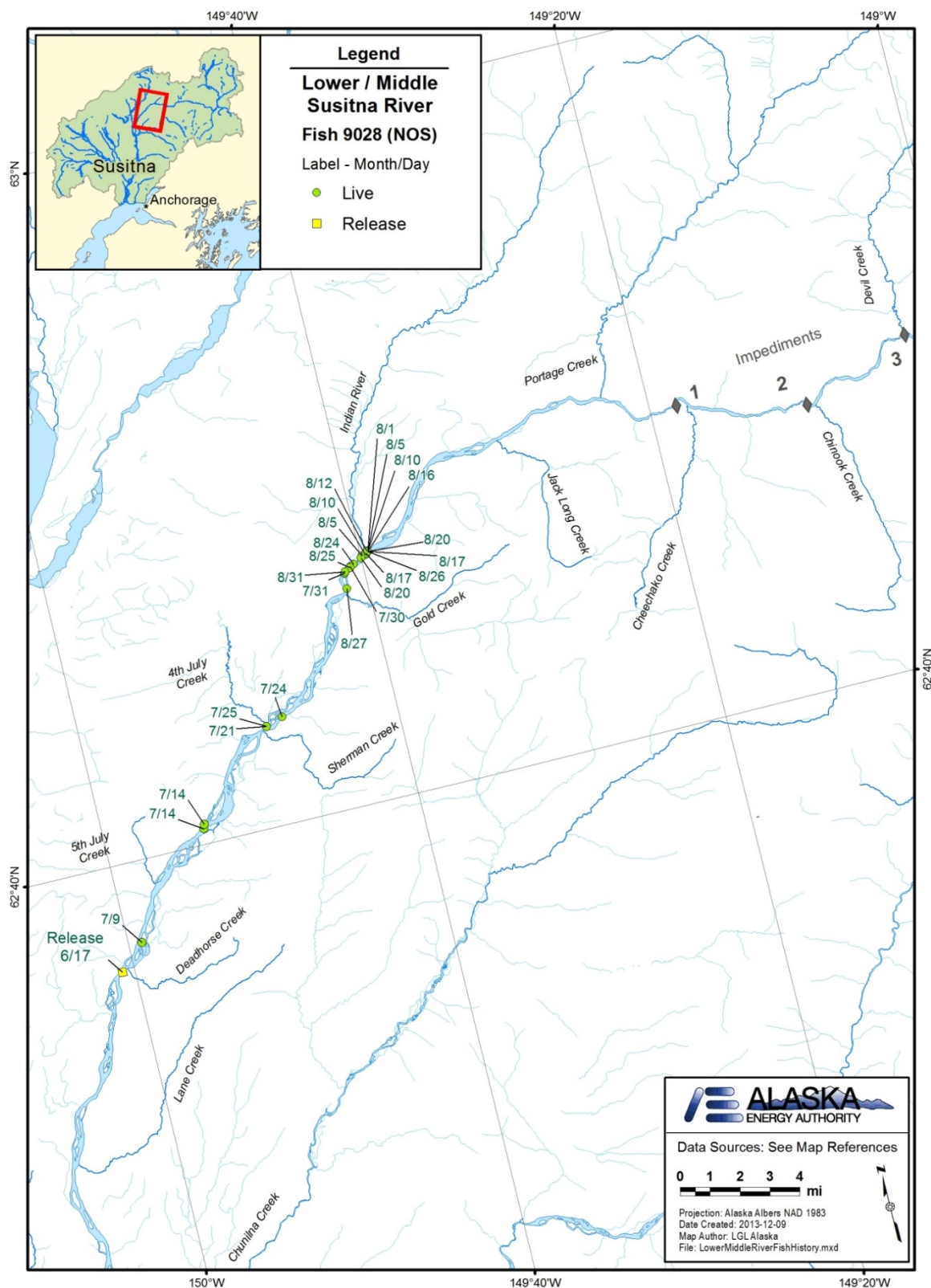
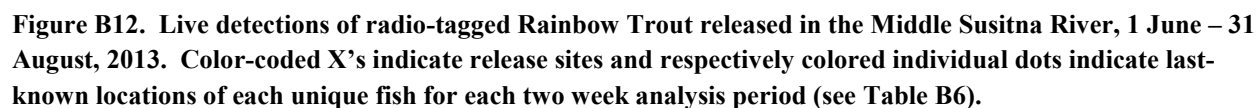


Figure B11. Live detections of radio-tagged Longnose Sucker #9028 released in the Middle Susitna River on 17 June, 2013. The yellow square indicates the release site and the individual dots indicate the location on each date of detection.



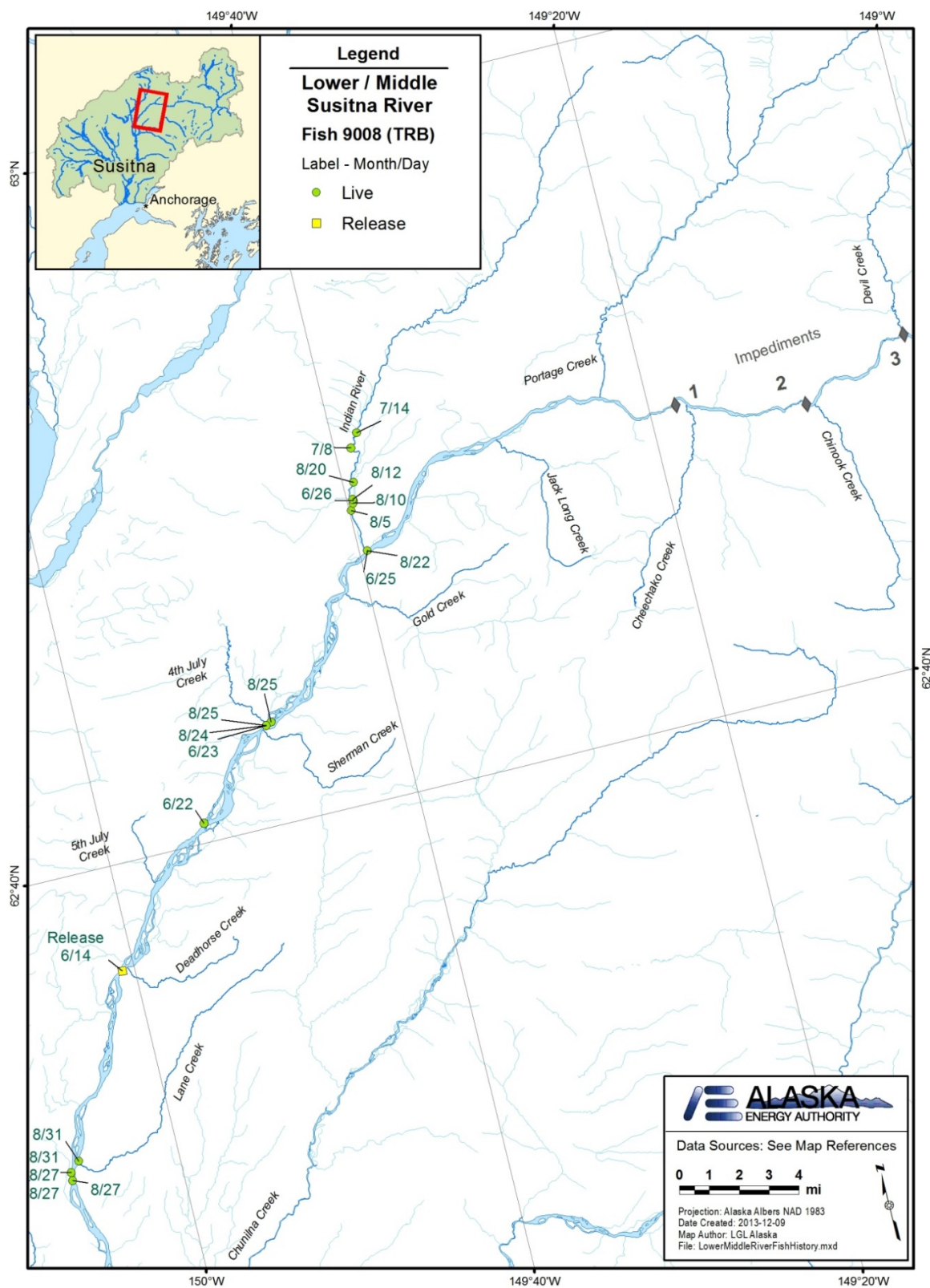


Figure B13. Live detections of radio-tagged Rainbow Trout #9008 released in the Middle Susitna River on 14 June, 2013. The yellow square indicates the release site and the individual dots indicate the location on each date of detection.

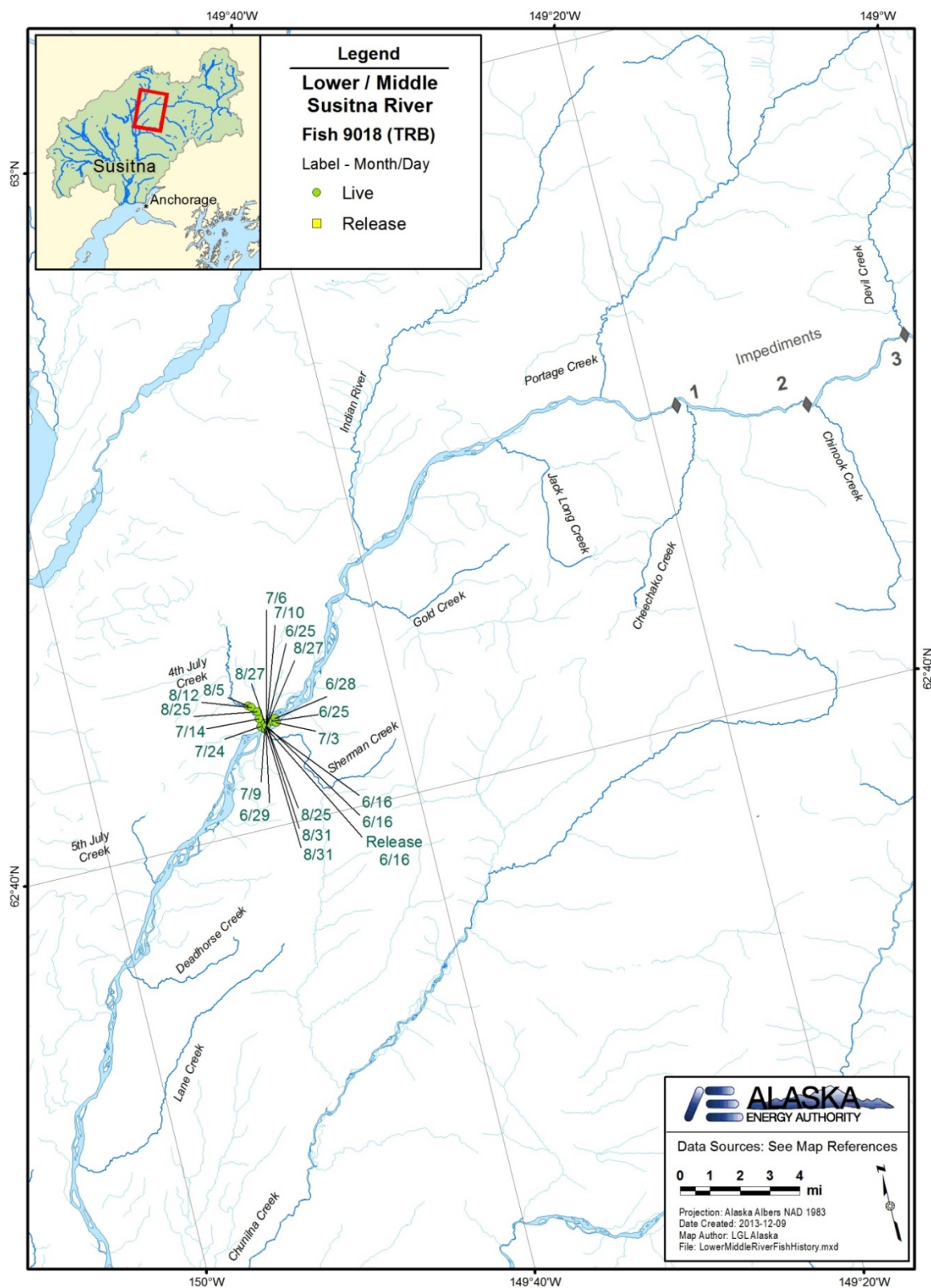


Figure B14. Live detections of radio-tagged Rainbow Trout #9018 released in the Middle Susitna River on 16 June, 2013. The yellow square indicates the release site and the individual dots indicate the location on each date of detection.

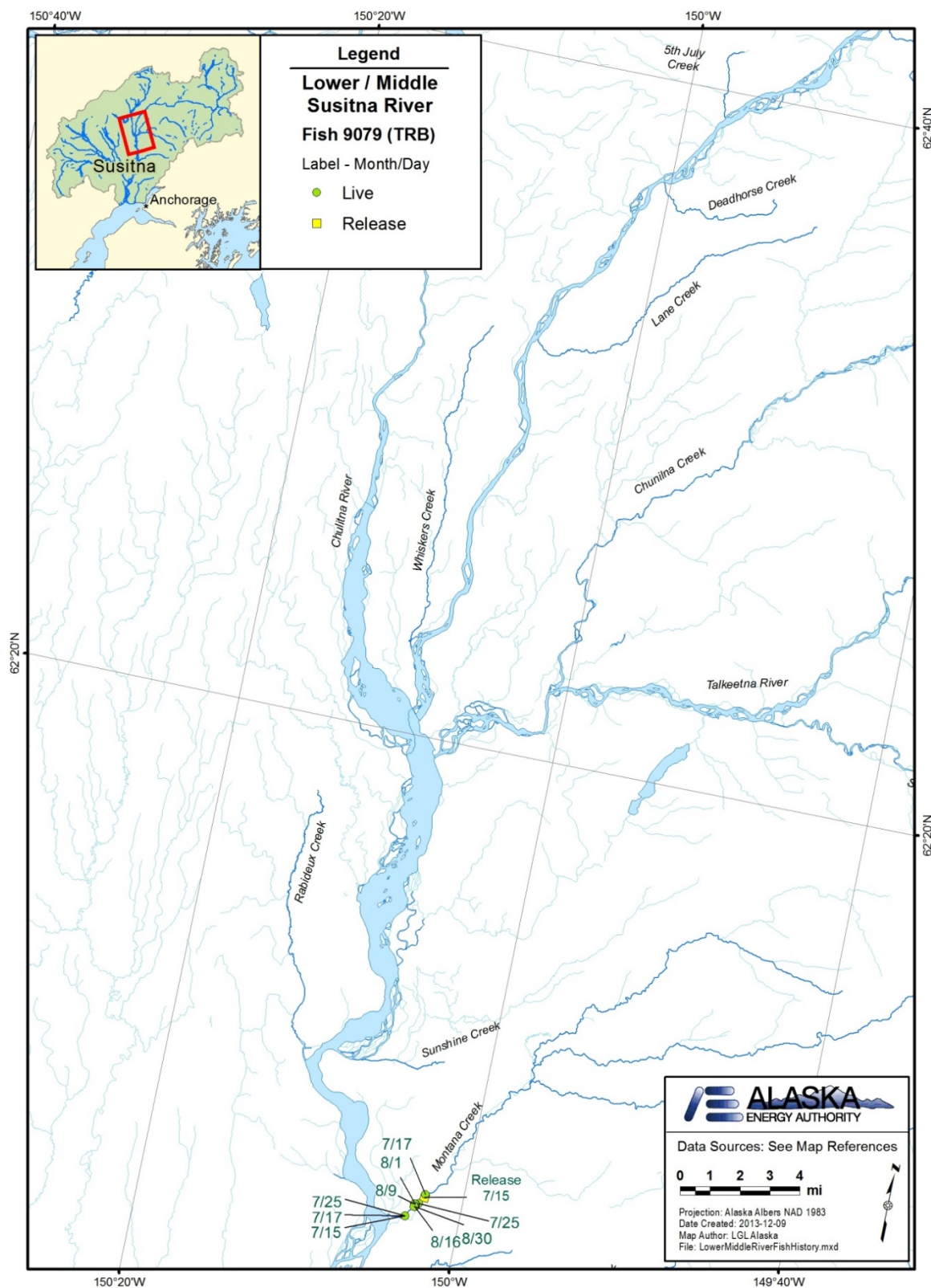


Figure B15. Live detections of radio-tagged Rainbow Trout #9079 released in the Montana Creek on 7 July, 2013. The yellow square indicates the release site and the individual dots indicate the location on each date of detection.

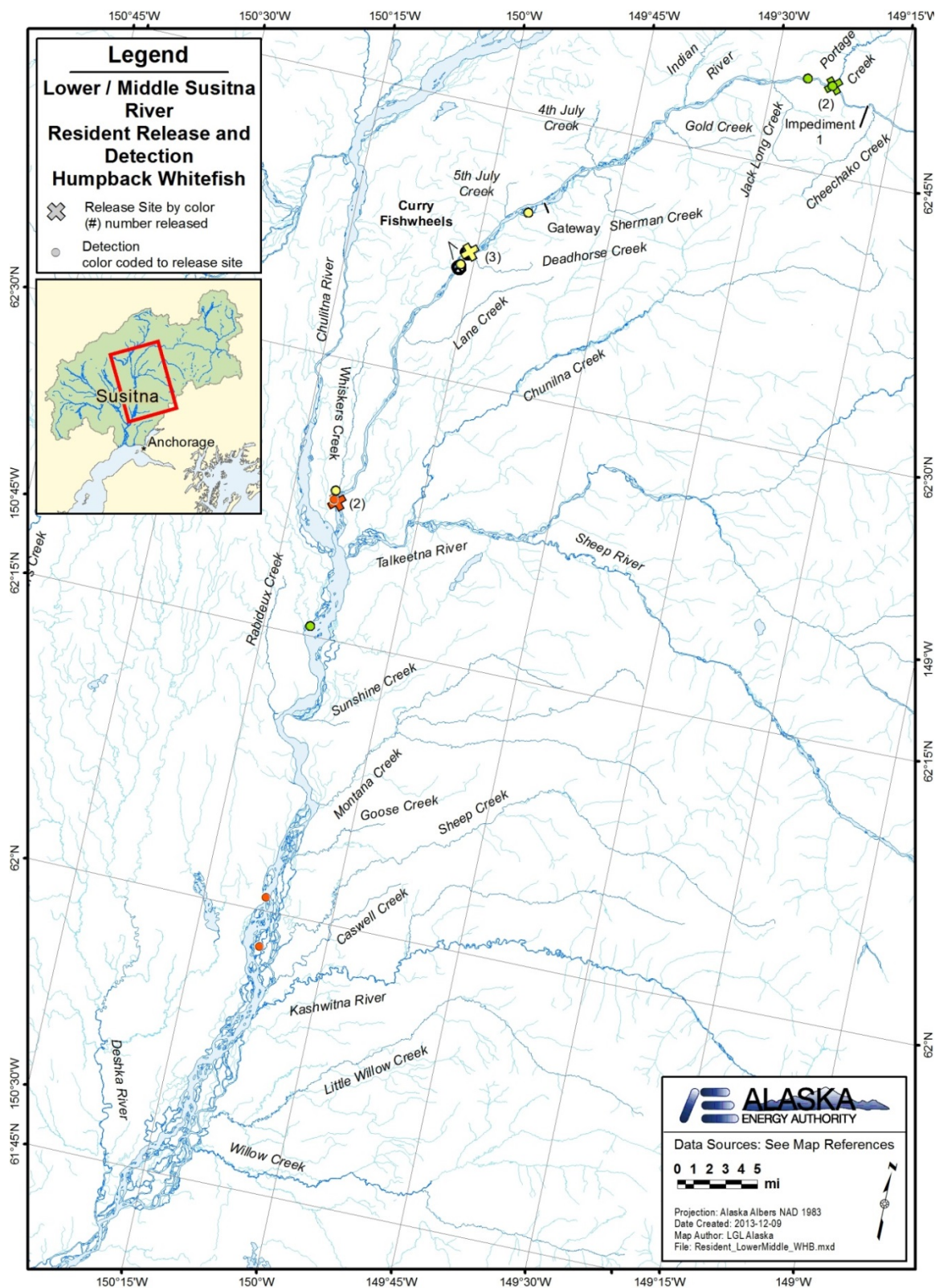


Figure B16. Live detections of radio-tagged Humpback Whitefish released in the Middle Susitna River, 1 June – 31 August, 2013. Color-coded X's indicate release sites and respectively colored individual dots indicate last-known locations of each unique fish for each two week analysis period (see Table B7).

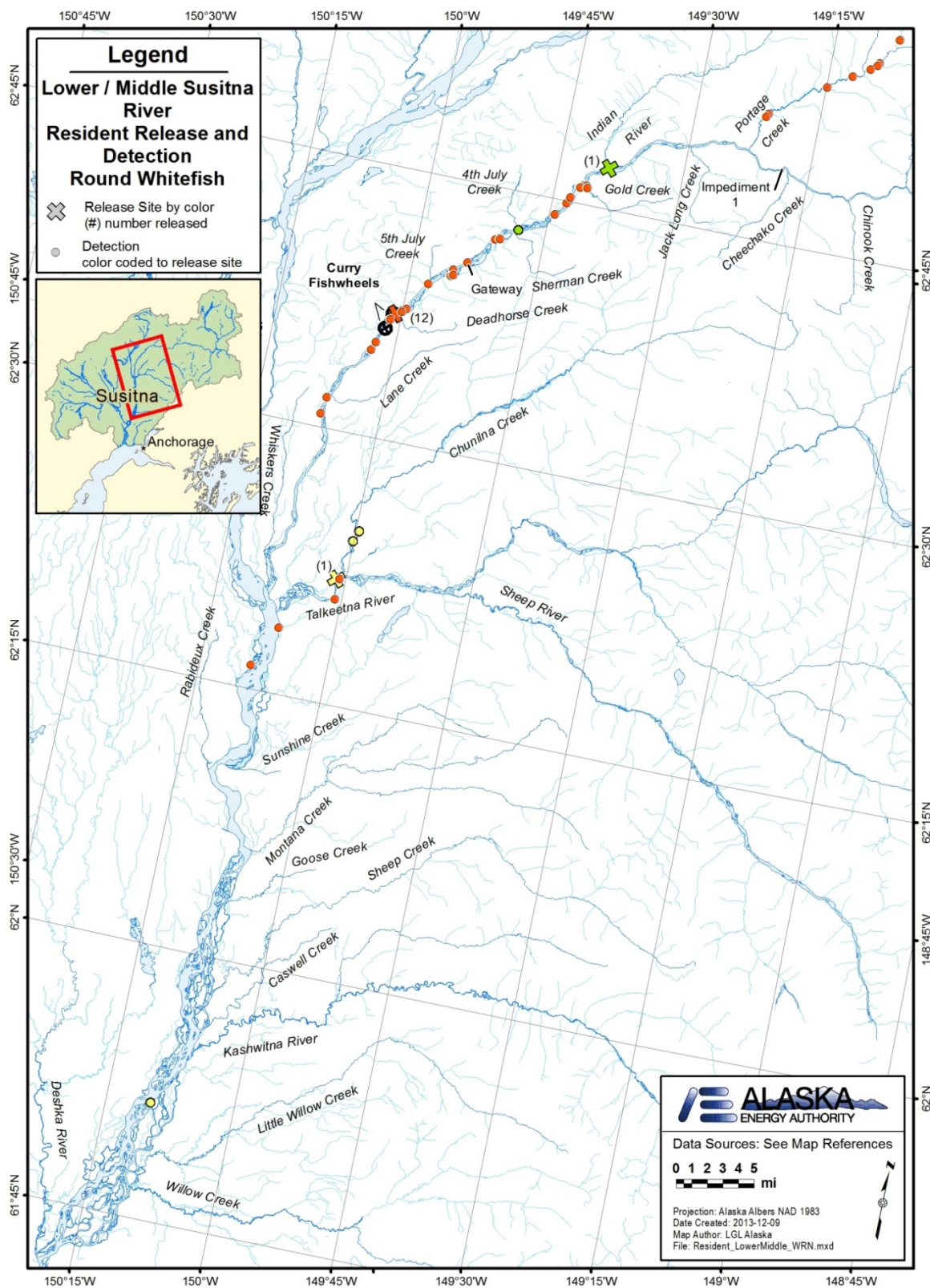


Figure B17. Live detections of radio-tagged Round Whitefish released in the Middle Susitna River, 1 June – 31 August, 2013. Color-coded X's indicate release sites and respectively colored individual dots indicate last-known locations of each unique fish for each two week analysis period (see Table B8).

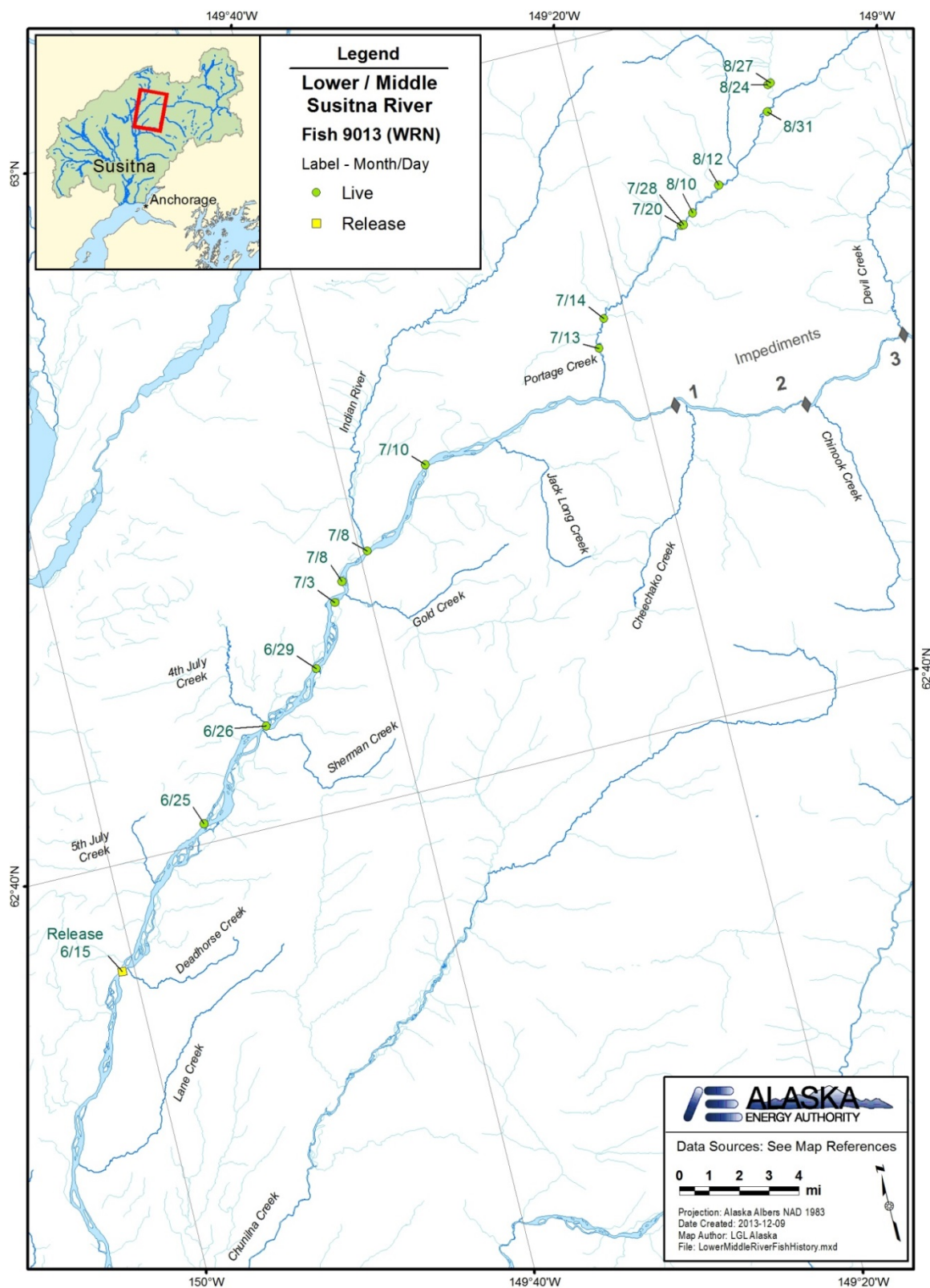


Figure B18. Live detections of radio-tagged Round Whitefish #9013 released in the Middle Susitna River on 15 June, 2013. The yellow square indicates the release site and the individual dots indicate the location on each date of detection.

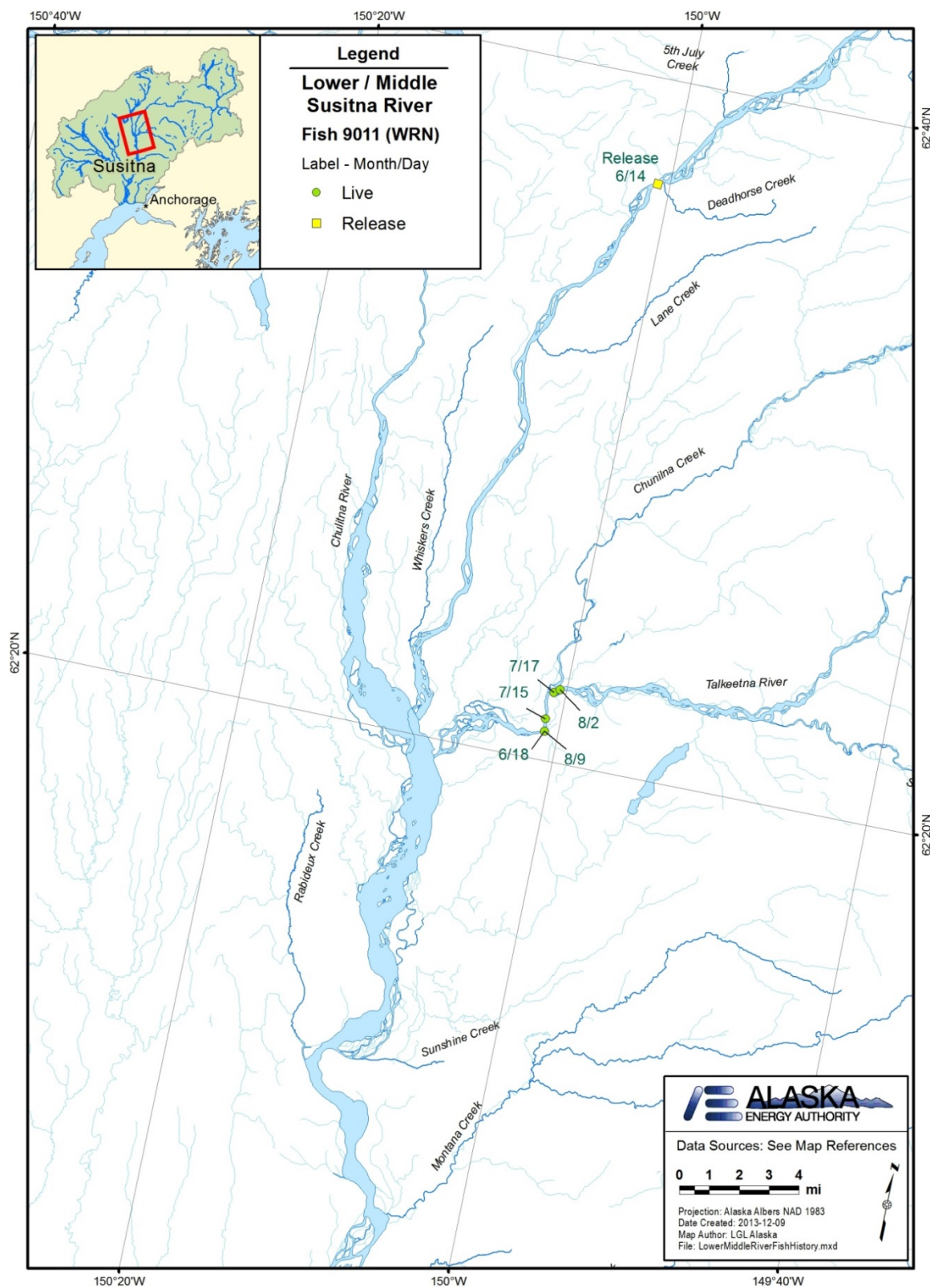
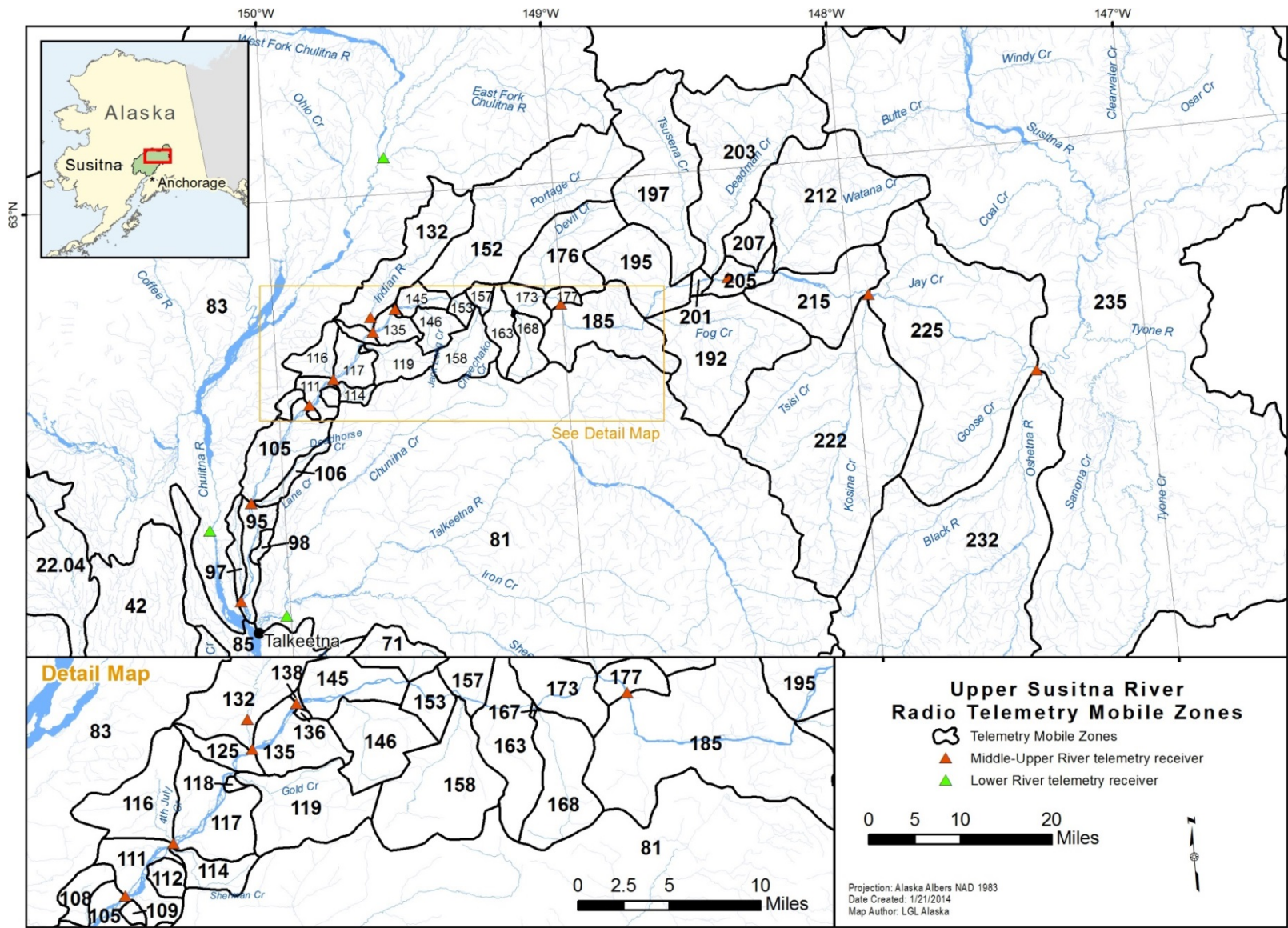


Figure B19. Live detections of radio-tagged Round Whitefish #9011 released in the Middle Susitna River on 14 June, 2013. The yellow square indicates the release site and the individual dots indicate the location on each date of detection.



Zone Number	Zone Name	Zone Description
105	LaneGateway	Susitna River: Lane Creek to Gateway
106	LaneCreek	Lane Creek
108	5thJulyCreek	5th of July Creek
109	Slough8A	Slough 8A
111	Gateway4thJuly	Susitna River: Gateway to 4th July Creek
112	Slough9	Slough 9
114	ShermanCreek	Sherman
116	4thofJuly	4th of July Creek
117	4thofJulySlough11	Susitna River: 4th of July Creek to Slough 11 Station
118	Slough11	Slough 11
119	Gold	Gold Creek
125	Slough11Indian	Susitna River: Slough 11 to Indian River
132	Indian	Indian River
135	IndianPowerline	Susitna River: Indian River to Powerline
136	Slough21	Slough 21
138	PowerlineSlough21	Susitna River: Powerline to Slough 21
145	Slough21Portage	Susitna River: Slough 21 to Portage Creek
146	JackLong	Jack Long Creek
152	Portage	Portage Creek
153	PortageImpediment1	Susitna River: Portage Creek to Impediment 1
157	Impediment1Cheechako	Susitna River: Impediment 1 to Chechako Station
158	Cheechako	Cheechako Creek
163	CheechakoImpediment2	Susitna River: Cheechako Station to Impediment 2
167	Impediment2Chinook	Susitna River: Impediment 2 to Chinook Creek
168	Chinook	Chinook Creek
173	ChinookImpediment3	Susitna River: Chinook Creek to Impediment 3
176	Devil	Devil Creek
177	Impediment3Devil	Susitna River: Impediment 3 to Devil Station
185	DevilFog	Susitna River: Devil Station to Fog Creek
192	Fog	Fog Creek
195	FogDamSite	Susitna River: Fog Creek to Watana Dam Site
197	Tsusena	Tsusena Creek
201	DamSiteDeadman	Susitna River: Watana Dam Site to Deadman Creek
203	Deadman	Deadman Creek
205	DeadmanWantana	Susitna River: Deadman Creek to Watana Creek
207	Creek192	Creek 192
212	Watana	Watana Creek
215	WatanaKosina	Susitna River: Watana Creek to Kosina Creek
222	Kosina	Kosina Creek
225	KosinaOshetna	Susitna River: Kosina Creek to Oshetna River
232	Oshetna	Oshetna River
235	AboveOshetna	Susitna River above the Oshetna River

Figure B20. Radio telemetry survey zones in the Middle and Upper Susitna River, 2013.

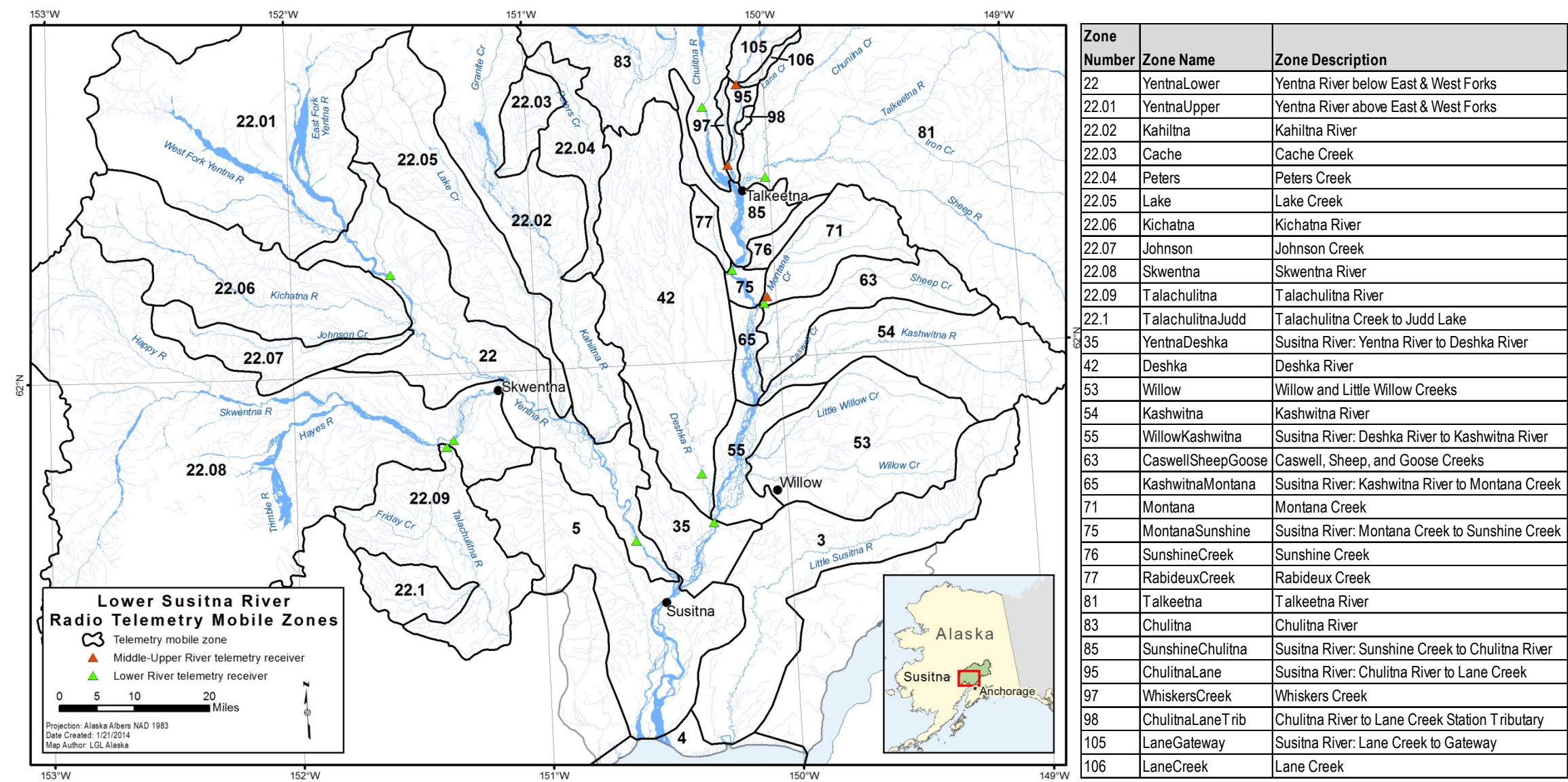


Figure B21. Radio telemetry survey zones in the Lower Susitna River, 2013.

Table B1. Arctic grayling two-week post tagging location status by tagging group.

Arctic grayling		RIs before 7/1						RIs 7/15 - 7/31				RIs 7/15 - 7/31				RIs 7/15 - 7/31				RIs 8/15 - 8/30	
Zone Name	Zone Number	RIs	1 Jul	15 Jul	1 Aug	15 Aug	30 Aug	RIs	1 Aug	15 Aug	30 Aug	RIs	1 Aug	15 Aug	30 Aug	RIs	1 Aug	15 Aug	30 Aug	RIs	30 Aug
Proposed Watana Dam Site PRM 187.1																					
MOB - Tsusena Creek	197															8	3	1			
MOB - Fog - Dam Site	195													2		5	5	4			
MOB - Fog Creek	192												3	5	1						
MOB - Devil Stn - Fog	185											8	5	3	5			1	1	1	1
Upper Extent Devils Canyon PRM 166.1																					
Devils Island	180																				
MOB - Impediment3 - Devil Stn	177																				
MOB - Devils Creek	176																				
MOB - Chinook - Impediment3	173																				
MOB - Chinook Creek	168																				
MOB - Impediment2 - Chinook	167																				
MOB - Cheechako - Impediment2	163																				
MOB - Cheechako Creek	158																				
MOB - Impediment1 - Cheechako	157																				
Lower Extent Devils Canyon PRM 153.9																					
MOB - Portage - Impediment1	153																				
MOB - Portage trib	152		7	6	6	5	3														
MOB - Jack Long Creek	146																				
MOB - abv Powerline - Portage	145			1				1	1	1											
MOB - above Powerline	138																				
Powerline	137																				
MOB - Slough 21	136																				
MOB - Indian - Slough 21	135																				
MOB - Indian trib	132		1	1	1	1															
Indian River trib	131																				
Indian River	130		2	1			1														
MOB - Slough11 - Indian	125																				
MOB - Gold Creek	119																				
MOB - Slough 11	118																				
MOB - 4th of July - Slough 11	117									1											
MOB - 4th of July Creek	116																				
Fourth of July	115																				
MOB - Sherman Creek	114																				
MOB - Slough 9	112						1														
MOB - Gateway - 4th of July	111																				
Gateway	110																				
MOB - Slough 8A	109																				
MOB - 5th of July Creek	108																				
MOB - Lane Creek	106																				
MOB - Lane - Gateway	105	11																			
Lane Creek	100		1	1	1																
MOB - Trib off zone 95	98																				
MOB - Whiskers Creek	97																				
Whiskers	96																				
MOB - Talkeetna - Lane	95																				
Lower River																					
MOB - Sunshine - Talkeetna	85																				
ADFG - Middle Chulitna	84																				
MOB - Chulitna River	83																				
ADFG Chulitna	82																				
MOB - Talkeetna River	81																				
ADFG Talkeetna	80																				
Total Tags Live		11	11	10	8	6	5	1	1	1	1	8	8	8	8	8	8	7	5	1	1
Mort tags *		0	0	1	3	5	6	0	0	0	0	0	0	0	0	0	0	1	3	0	0

* current location of mort tags not shown in table

Table B2. Burbot two-week post tagging location status by tagging group.

Burbot		RIs before 7/1						RIs 8/1 - 8/14			RIs 8/15 - 8/30		RIs 8/15 - 8/30	
Zone Name	Zone Number	RIs	1 Jul	15 Jul	1 Aug	15 Aug	30 Aug	RIs	15 Aug	30 Aug	RIs	30 Aug	RIs	30 Aug
<i>Devils Canyon PRM 153.9-166.1</i>														
MOB - Lane - Gateway	105							1	1					
Lane Creek	100													
MOB - Trib off zone 95	98													
MOB - Whiskers Creek	97													
MOB - Talkeetna - Lane	96	2	1	1	1		1							
Whiskers	95		1	1										
<i>Lower River</i>														
MOB - Sunshine - Talkeetna	85				1	2								
ADFG - Middle Chulitna	84													
MOB - Chulitna River	83													
ADFG Chulitna	82													
MOB - Talkeetna River	81						1							
ADFG Talkeetna	80													
ADFG Sunshine	78													
MOB - Rabideux Creek	77													
MOB - Sunshine Creek	76													
MOB - Montana - Sunshine	75													
MOB - Montana Creek	71													
MOB - Kashwitna - Montana	70													
Montana	65													
MOB - Caswell area tribs	63													
MOB - Deshka - Kashwitna	55													
MOB - Kashwitna River	54													
MOB - Willow and Little Willow cr	53													
MOB - Deshka River	42													
ADFG Deshka Weir	41													
ADFG Deshka River	40													
MOB - Yentna - Deshka	35												3	3
ADFG Talachulitna Weir	28													
ADFG Skwentna	27													
ADFG Upper Yentna	26													
ADFG Lake Weir	24													
MOB - Yentna River	22													
ADFG Lower Yentna	20													
ADFG Susitna Station	6													
MOB - Confluence - Yentna	5										1	1		
Total Tags Live		2	2	2	2	2	2	1	1	0	1	1	3	3
Mort tags *		0	0	0	0	0	0	0	0	1	0	0	0	0

* current location of mort tags not shown in table

Table B3. Dolly Varden two-week post tagging location status by tagging group.

Dolly Varden		RIs before 7/1						RIs 7/1 - 7/14					RIs 8/1 - 8/14			RIs 8/15 - 8/30	
Zone Name	Zone Number	RIs	1 Jul	15 Jul	1 Aug	15 Aug	30 Aug	RIs	15 Jul	1 Aug	15 Aug	30 Aug	RIs	15 Aug	30 Aug	RIs	30 Aug
<i>Devils Canyon PRM 153.9-166.1</i>																	
MOB - abv Powerline - Portage	145																1
MOB - above Powerline	138																
Powerline	137																
MOB - Slough 21	136																
MOB - Indian - Slough 21	135																
MOB - Indian trib	132						1										
Indian River trib	131			1	1	1											
Indian River	130																
MOB - Slough11 - Indian	125		1													1	
MOB - Gold Creek	119																
MOB - Slough 11	118																
MOB - 4th of July - Slough 11	117																
MOB - 4th of July Creek	116																
Fourth of July	115																
MOB - Sherman Creek	114																
MOB - Slough 9	112																
MOB - Gateway - 4th of July	111																
Gateway	110																
MOB - Slough 8A	109																
MOB - 5th of July Creek	108																
MOB - Lane Creek	106																
MOB - Lane - Gateway	105	1											1				
Lane Creek	100																
MOB - Trib off zone 95	98																
MOB - Whiskers Creek	97																
Whiskers	96													1	1		
MOB - Talkeetna - Lane	95																
<i>Lower River</i>																	
MOB - Sunshine - Talkeetna	85											1					
ADFG - Middle Chulitna	84																
MOB - Chulitna River	83																
ADFG Chulitna	82																
MOB - Talkeetna River	81							6	6	6	6	5					
ADFG Talkeetna	80																
Total Tags Live		1	1	1	1	1	1	6	6	6	6	6	1	1	1	1	1
Mort tags *		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

* current location of mort tags not shown in table

Longnose Sucker		Rls before 7/1						Rls before 7/1						Rls 7/1 - 7/14				Rls 7/15 - 7/31			Rls 7/15 - 7/31			Rls 7/15 - 7/31		Rls 8/15 - 8/30		Rls 8/15 - 8/30		Rls 8/15 - 8/30		Rls 8/15 - 8/30			
Zone Name	Zone Number	Rls	1 Jul	15 Jul	1 Aug	15 Aug	30 Aug	Rls	1 Jul	15 Jul	1 Aug	15 Aug	30 Aug	Rls	1 Jul	15 Jul	1 Aug	15 Aug	30 Aug	Rls	1 Aug	15 Aug	30 Aug	Rls	1 Aug	15 Aug	30 Aug	Rls	30 Aug	Rls	30 Aug	Rls	30 Aug	Rls	30 Aug
Devils Canyon PRM 153.9-166.1																																			
MOB - abv Powerline - Portage	145																																		
MOB - above Powerline	138																																		
Powerline	137																																		
MOB - Slough 21	136																																		
MOB - Indian - Slough 21	135																																		
MOB - Indian trib	132																																		
Indian River trib	131																																		
Indian River	130																																		
MOB - Slough11 - Indian	125					1	1	1																											
MOB - Gold Creek	119																																		
MOB - Slough 11	118																																		
MOB - 4th of July - Slough 11	117																																		
MOB - 4th of July Creek	116																																		
Fourth of July	115																																		
MOB - Sherman Creek	114																																		
MOB - Slough 9	112																																		
MOB - Gateway - 4th of July	111																																		
Gateway	110				1																														
MOB - Slough 8A	109																																		
MOB - 5th of July Creek	108																																		
MOB - Lane Creek	106																																		
MOB - Lane - Gateway	105	5	4	2	2	2	1		1																										
Lane Creek	100		1																																

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Table B5. Northern pike two-week post tagging location status by tagging group.

Northern Pike		RIs 8/15 - 8/30	
Zone Name	Zone Number	RIs	30 Aug
<i>Lower River</i>			
MOB - Montana - Sunshine	75		
MOB - Montana Creek	71		
Montana	70		
MOB - Kashwitna - Montana	65		
MOB - Caswell area tribs	63		
MOB - Deshka - Kashwitna	55		
MOB - Kashwitna River	54		
MOB - Willow and Little Willow cr	53		
MOB - Deshka River	42		
ADFG Deshka Weir	41		
ADFG Deshka River	40		
MOB - Yentna - Deshka	35	5	4
MOB - Confluence - Yentna	5		
Total Tags Live		5	4
Mort tags *		0	1

* current location of mort tags not shown in table

Table B6. Rainbow trout two-week post tagging location status by tagging group.

Rainbow Trout		RIs before 7/1						RIs before 7/1						RIs 7/1 - 7/14					RIs 7/1 - 7/14					RIs 7/15 - 7/31				RIs 7/15 - 7/31				RIs 8/15 - 8/30		RIs 8/15 - 8/30		RIs 8/15 - 8/30	
Zone Name	Zone Number	RIs	1 Jul	15 Jul	1 Aug	15 Aug	30 Aug	RIs	1 Jul	15 Jul	1 Aug	15 Aug	30 Aug	RIs	15 Jul	1 Aug	15 Aug	30 Aug	RIs	1 Aug	15 Aug	30 Aug	RIs	1 Aug	15 Aug	30 Aug	RIs	30 Aug	RIs	30 Aug	RIs	30 Aug					
Devi's Canyon PRM 153.9-166.1																																					
MOB - Indian - Slough 21	135																														1	1					
MOB - Indian trib	132		1	2	4	4	1																														
Indian River trib	131																																				
Indian River	130			3																																	
MOB - Slough11 - Indian	125																																				
MOB - Gold Creek	119																																				
MOB - Slough 11	118																																				
MOB - 4th of July - Slough 11	117			1											1																						
MOB - 4th of July Creek	116				2	1			2	1	1	3					1																				
Fourth of July	115			1			2			2	1		2				1	2																			
MOB - Sherman Creek	114															1																					
MOB - Slough 9	112																																				
MOB - Gateway - 4th of July	111		1					3	1		1				2	1	1																				
Gateway	110																																				
MOB - Slough 8A	109																																				
MOB - 5th of July Creek	108																																				
MOB - Lane Creek	106																																				
MOB - Lane - Gateway	105	8	6	1	1	1	1																				1										
Lane Creek	100				1	1	2																														
MOB - Trib off zone 95	98																																				
MOB - Whiskers Creek	97																																				
Whiskers	96																											1									
MOB - Talkeetna - Lane	95																												1								
Lower River																																					
MOB - Sunshine - Talkeetna	85												1	1																							
ADFG - Middle Chulitna	84																																				
MOB - Chulitna River	83																																				
ADFG Chulitna	82																																				
MOB - Talkeetna River	81													8	8	8	7	6																			
ADFG Talkeetna	80																																				
ADFG Sunshine	78																																				
MOB - Rabideux Creek	77																																				
MOB - Sunshine Creek	76																																				
MOB - Montana - Sunshine	75																																				
MOB - Montana Creek	71																		6	1	4	3															
Montana	70																			5	1																
MOB - Kashwitna - Montana	65																																				
MOB - Caswell area tribs	63																																				
MOB - Deshka - Kashwitna	55																																				
Total Tags Live		8	8	8	8	7	6	3	3	3	3	3	2	8	8	8	8	7	2	2	2	2	2	6	6	5	4	1	1	1	1	1					
Mort tags *		0	0	0	0	1	2	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	1	2	0	0	0	0						

* current location of mort tags not shown in table

Table B7. Humpback whitefish two-week post tagging location status by tagging group.

Whitefish, humpback		RIs before 7/1						RIs 7/15 - 7/31				RIs 7/15 - 7/31			
Zone Name	Zone Number	RIs	1 Jul	15 Jul	1 Aug	15 Aug	30 Aug	RIs	1 Aug	15 Aug	30 Aug	RIs	1 Aug	15 Aug	30 Aug
<i>Devils Canyon PRM 153.9-166.1</i>															
MOB - abv Powerline - Portage	145											2	2		
MOB - above Powerline	138														
Powerline	137														
MOB - Slough 21	136														
MOB - Indian - Slough 21	135														
MOB - Indian trib	132														
Indian River trib	131														
Indian River	130														
MOB - Slough11 - Indian	125														
MOB - Gold Creek	119														
MOB - Slough 11	118														
MOB - 4th of July - Slough 11	117														
MOB - 4th of July Creek	116														
Fourth of July	115														
MOB - Sherman Creek	114														
MOB - Slough 9	112														
MOB - Gateway - 4th of July	111														
Gateway	110														
MOB - Slough 8A	109														
MOB - 5th of July Creek	108														
MOB - Lane Creek	106														
MOB - Lane - Gateway	105							2	2	1					
Lane Creek	100														
MOB - Trib off zone 95	98														
MOB - Whiskers Creek	97									1					
Whiskers	96		1												
MOB - Talkeetna - Lane	95	2													
<i>Lower River</i>															
MOB - Sunshine - Talkeetna	85													1	1
ADFG - Middle Chulitna	84														
MOB - Chulitna River	83														
ADFG Chulitna	82														
MOB - Talkeetna River	81														
ADFG Talkeetna	80														
ADFG Sunshine	78														
MOB - Rabideux Creek	77														
MOB - Sunshine Creek	76														
MOB - Montana - Sunshine	75														
MOB - Montana Creek	71														
MOB - Kashwitna - Montana	65		1	2	1	1	1								
Total Tags Live		2	2	2	1	1	1	2	2	1	1	2	2	1	1
Mort tags *		0	0	0	1	1	1	0	0	1	1	0	0	1	1

* current location of mort tags not shown in table

Table B8. Round whitefish two-week post tagging location status by tagging group.

Whitefish, round		RIs before 7/1						RIs 7/1 - 7/14					RIs 7/1 - 7/14					RIs 7/15 - 7/31			
Zone Name	Zone Number	RIs	1 Jul	15 Jul	1 Aug	15 Aug	30 Aug	RIs	15 Jul	1 Aug	15 Aug	30 Aug	RIs	15 Jul	1 Aug	15 Aug	30 Aug	RIs	1 Aug	15 Aug	30 Aug
Devils Canyon PRM 153.9-166.1																					
MOB - Portage trib	152			2	2	2	2														
MOB - Jack Long Creek	146																				
MOB - abv Powerline - Portage	145																				
MOB - above Powerline	138																				
Powerline	137																				
MOB - Slough 21	136																				
MOB - Indian - Slough 21	135																	1			
MOB - Indian trib	132																				
Indian River trib	131																				
Indian River	130																				
MOB - Slough11 - Indian	125																				
MOB - Gold Creek	119						1														
MOB - Slough 11	118																				
MOB - 4th of July - Slough 11	117		1	1	2	2	1														
MOB - 4th of July Creek	116																				
Fourth of July	115			1															1		
MOB - Sherman Creek	114																				
MOB - Slough 9	112																				
MOB - Gateway - 4th of July	111		1	1	1	1	1														
Gateway	110		2																		
MOB - Slough 8A	109																				
MOB - 5th of July Creek	108																				
MOB - Lane Creek	106																				
MOB - Lane - Gateway	105	11	3	1	2	1	1						1	1	1	1	1				
Lane Creek	100		1	2		1	1														
MOB - Trib off zone 95	98																				
MOB - Whiskers Creek	97																				
Whiskers	96																				
MOB - Talkeetna - Lane	95				1																
Lower River																					
MOB - Sunshine - Talkeetna	85		1	1	1	2	2														
ADFG - Middle Chulitna	84																				
MOB - Chulitna River	83																				
ADFG Chulitna	82																				
MOB - Talkeetna River	81				1			1	1	1	1										
ADFG Talkeetna	80		1	1		1	1														
ADFG Sunshine	78																				
MOB - Rabideux Creek	77																				
MOB - Sunshine Creek	76																				
MOB - Montana - Sunshine	75																				
MOB - Montana Creek	71																				
Montana	70																				
MOB - Kashwitna - Montana	65																				
MOB - Caswell area tribs	63																				
MOB - Deshka - Kashwitna	55										1										
Total Tags Live		11	10	10	10	10	10	1	1	1	1	1	1	1	1	1	1	1	1	0	0
Mort tags *		0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1

* current location of mort tags not shown in table