Flight Range	Season	Aircraft	Date	Flight Report Number	Flight Leg	Flight Code	Flight Type	Low Flight Permissible?	Mean Height Lower Than Restriction?	Comment Justification for Low Flight	Mean Height Above Ground (m)
Short-Range	Spring	UIT	2023-04-26	327850	1	CrewChg	Passenger	No	Yes		93.7
Short-Range	Spring	UIT	2023-04-27	328315	1	CrewChg	Passenger	No	Yes		141.1
Short-Range	Spring	UIT	2023-04-27	328315	2	Core	Slinging	Yes	Yes	Slinging	147.2
Short-Range	Spring	UIT	2023-04-27	328315	3	CrewChg	Passenger	No	Yes		75.9
Short-Range	Spring	UIT	2023-04-28	328723	1	CrewChg	Passenger	No	Yes		117.2
Short-Range	Spring	UIT	2023-04-28	328723	3	CrewChg	Passenger	No	Yes		292.8
Short-Range	Spring	UIT	2023-04-29	329113	1	CrewChg	Passenger	No	No		354.4
Short-Range	Spring	UIT	2023-04-29	329113	3	CrewChg	Passenger	No	Yes		198.3
Short-Range	Spring	UIT	2023-04-30	329185	1	CrewChg	Passenger	No	No		341.7
Short-Range	Spring	UIT	2023-04-30	329185	3	CrewChg	Passenger	No	Yes		261.7
Short-Range	Spring	UIT	2023-05-01	329557	1	CrewChg	Passenger	No	Yes		96.0
Short-Range	Spring	UIT	2023-05-01	329557	4	Medevac	Medevac	Yes	Yes		73.1
Short-Range	Spring	UIT	2023-05-01	329557	5	CrewChg	Passenger	No	Yes		259.5
Short-Range	Spring	UIT	2023-05-03	330793	1	CrewChg	Passenger	No	Yes		118.9
Short-Range	Spring	UIT	2023-05-03	330793	3	CrewChg	Passenger	No	Yes		117.2
Short-Range	Spring	UIT	2023-05-04	331123	1	CrewChg	Passenger	No	Yes		244.1
Short-Range	Spring	UIT	2023-05-05	331414	1	CrewChg	Passenger	No	No		384.0
Short-Range	Spring	UIT	2023-05-07	311960	1	CrewChg	Passenger	No	No		366.6
Short-Range	Spring	UIT	2023-05-07	311960	2	Core	Slinging	Yes	Yes	Slinging	214.4
Short-Range	Spring	UIT	2023-05-07	311960	3	Move	Slinging	Yes	Yes	Slinging	93.6
Short-Range	Spring	C-FGAV	2023-05-21	338781	1	CrewChg	Passenger	No	Yes		235.6
Short-Range	Spring	C-FGAV	2023-05-21	338781	3	PaxLoc	Passenger	No	Yes		169.0
Short-Range	Spring	C-FGAV	2023-05-21	338781	4	PaxLoc	Passenger	Yes	Yes	Site Inspection	179.5
Short-Range	Spring	C-FGAV	2023-05-21	338781	5	Core	Slinging	Yes	Yes	Slinging	202.7
Short-Range	Spring	C-FGAV	2023-05-21	338781	6	CrewChg	Passenger	No	Yes		294.2
Short-Range	Spring	C-FGAV	2023-05-22	339102	1	CrewChg	Passenger	No	Yes		103.3
Short-Range	Spring	C-FGAV	2023-05-22	339102	2	PaxLoc	Passenger	Yes	Yes	Weather	88.1
Short-Range	Spring	C-FGAV	2023-05-22	339102	3	Move	Slinging	Yes	Yes	Slinging	81.5
Short-Range	Spring	C-FGAV	2023-05-22	339102	4	Move	Slinging	Yes	Yes	Slinging	134.7
Short-Range	Spring	C-FGAV	2023-05-22	339102	5	Move	Slinging	Yes	Yes	Slinging	69.9
Short-Range	Spring	C-FGAV	2023-05-22	339102	6	Floor	Slinging	Yes	Yes	Slinging	90.5
Short-Range	Spring	C-FGAV	2023-05-22	339102	7	PaxLoc	Passenger	No	Yes		247.1
Short-Range	Spring	C-FGAV	2023-05-22	339102	8	CrewChg	Passenger	Yes	Yes	Weather	286.5
Short-Range	Spring	C-FGAV	2023-05-23	339614	1	CrewChg	Passenger	No	Yes		249.8
Short-Range	Spring	C-FGAV	2023-05-23	339614	2	Core	Slinging	Yes	Yes	Slinging	225.3
Short-Range	Spring	C-FGAV	2023-05-23	339614	4	PaxLoc	Passenger	No	Yes		223.3
Short-Range	Spring	C-FGAV	2023-05-23	339614	5	PaxLoc	Passenger	Yes	Yes	Site Inspection	243.8
Short-Range	Spring	C-FGAV	2023-05-23	339614	6	CrewChg	Passenger	No	Yes		236.1
Short-Range	Spring	C-FGAV	2023-05-24	340389	1	Core	Slinging	Yes	No	Slinging	315.6
Short-Range	Spring	C-FGAV	2023-05-24	340389	3	PaxLoc	Passenger	No	No		463.7
Short-Range	Spring	C-FGAV	2023-05-24	340389	4	PaxLoc	Passenger	No	Yes		164.5
Short-Range	Spring	C-FGAV	2023-05-24	340389	5	Move	Slinging	Yes	Yes	Slinging	98.4
Short-Range	Spring	C-FGAV	2023-05-24	340389	6	Move	Slinging	Yes	Yes	Slinging	123.1
Short-Range	Spring	C-FGAV	2023-05-24	340389	7	PaxLoc	Passenger	No	No		381.2
Short-Range	Spring	C-FGAV	2023-05-24	340389	9	CrewChg	Passenger	No	No		355.1
Short-Range	Spring	C-FGAV	2023-05-24	340389	2	Reposition	Slinging	Yes	Yes	Slinging	Full flight too low to distinguish from takeoff/landing
Short-Range	Spring	C-FGAV	2023-05-24	340389	8	Reposition	Slinging	Yes	Yes	Slinging	Full flight too low to distinguish from takeoff/landing
Short-Range	Spring	C-FGAV	2023-05-25	341017	1	CrewChg	Passenger	Yes	Yes	Weather	117.2
Short-Range	Spring	C-FGAV	2023-05-25	341017	5	Core	Slinging	Yes	Yes	Slinging	212.7
Short-Range	Spring	C-FGAV	2023-05-25	341017	6	CrewChg	Passenger	No	No		316.4
Short-Range	Summer	C-FGAV	2023-05-26	341590	5	PaxLoc	Passenger	No	Yes		147.9
Short-Range	Summer	C-FGAV	2023-05-26	341590	6	Move	Slinging	Yes	Yes	Slinging	138.9
Short-Range	Summer	C-FGAV	2023-05-26	341590	7	Move	Slinging	Yes	Yes	Slinging	150.8
Short-Range	Summer	C-FGAV	2023-05-27	342007	1	Move	Slinging	Yes	Yes	Slinging	163.5
Short-Range	Summer	C-FGAV	2023-05-27	342007	2	Move	Slinging	Yes	Yes	Slinging	150.2
Short-Range	Summer	C-FGAV	2023-05-27	342007	3	Move	Slinging	Yes	Yes	Slinging	205.9

Flight Range	Season	Aircraft	Date	Flight Report Number	Flight Leg	Flight Code	Flight Type	Low Flight Permissible?	Mean Height Lower Than Restriction?	Comment Justification for Low Flight	Mean Height Above Ground (m)
Short-Range	Summer	C-FGAV	2023-05-27	342007	4	Move	Slinging	Yes	Yes	Slinging	195.5
Short-Range	Summer	C-FGAV	2023-05-27	342007	5	Move	Slinging	Yes	Yes	Slinging	185.1
Short-Range	Summer	C-FGAV	2023-05-27	342007	6	Move	Slinging	Yes	Yes	Slinging	183.5
Short-Range	Summer	C-FGAV	2023-05-27	342007	7	Reposition	Slinging	Yes	Yes	Slinging	Full flight too low to distinguish from takeoff/landing
Short-Range	Summer	C-FGAV	2023-05-28	342286	1	Move	Slinging	Yes	Yes	Slinging	157.6
Short-Range	Summer	C-FGAV	2023-05-28	342286	2	Move	Slinging	Yes	Yes	Slinging	166.6
Short-Range	Summer	C-FGAV	2023-05-28	342286	3	Move	Slinging	Yes	Yes	Slinging	150.6
Short-Range	Summer	UIT	2023-05-29	342973	3	Wildlife	Ferry	Yes	Yes	Environmental Survey	299.0
Short-Range	Summer	UIT	2023-05-29	342973	5	Ferry	Ferry	No	No		386.4
Short-Range	Summer	C-FGAV	2023-05-31	408322	1	Reposition	Slinging	Yes	No	Slinging	611.2
Short-Range	Summer	C-FGAV	2023-06-02	587407	1	PaxLoc	Passenger	Yes	Yes	Weather	65.4
Short-Range	Summer	C-FGAV	2023-06-02	587407	3	Reposition	Slinging	Yes	Yes	Slinging	Full flight too low to distinguish from takeoff/landing
Short-Range	Summer	CFNDN	2023-06-20	598824	2	PaxLoc	Passenger	No	Yes		89.5
Short-Range	Summer	CFNDN	2023-06-20	598824	3	PaxLoc	Passenger	No	Yes		151.4
Short-Range	Summer	CFNDN	2023-06-21	598833	1	PaxLoc	Passenger	No	Yes		145.8
Short-Range	Summer	CFNDN	2023-06-21	598833	2	PaxLoc	Passenger	No	Yes		111.9
Short-Range	Summer	CFNDN	2023-06-21	598833	3	PaxLoc	Passenger	No	Yes		112.6
Short-Range	Summer	CFNDN	2023-06-21	598833	4	PaxLoc	Passenger	No	Yes		173.2
Short-Range	Summer	CFNDN	2023-06-21	598833	5	PaxLoc	Passenger	No	Yes		145.3
Short-Range	Summer	CFNDN	2023-06-21	598833	6	PaxLoc	Passenger	No	Yes		174.8
Short-Range	Summer	CFNDN	2023-06-23	599715	1	PaxLoc	Passenger	No	Yes		243.3
Short-Range	Summer	CFNDN	2023-06-23	599715	2	PaxLoc	Passenger	No	Yes		204.0
Short-Range	Summer	CFNDN	2023-06-25	600858	1	PaxLoc	Passenger	No	Yes		167.3
Short-Range	Summer	CFNDN	2023-06-25	600858	2	PaxLoc	Passenger	No	Yes		134.6
Short-Range	Summer	CFNDN	2023-06-26	601413	1	PaxLoc	Passenger	No	Yes		232.3
Short-Range	Summer	CFNDN	2023-06-26	601413	2	PaxLoc	Passenger	No	Yes		276.5
Short-Range	Summer	CFNDN	2023-06-27	602505	1	Core	Slinging	Yes	Yes	Slinging	79.4
Short-Range	Summer	CFNDN	2023-06-28	603156	1	PaxLoc	Passenger	No	Yes		210.4
Short-Range	Summer	CFNDN	2023-06-28	603156	4	PaxLoc	Passenger	No	Yes		125.6
Short-Range	Summer	CFNDN	2023-06-29	603840	2	PaxLoc	Passenger	No	Yes		164.5
Short-Range	Summer	CFNDN	2023-06-29	603840	3	PaxLoc	Passenger	No	Yes		185.6
Short-Range	Summer	CFNDN	2023-06-29	603840	4	PaxLoc	Passenger	No	Yes		174.1
Short-Range	Summer	CFNDN	2023-06-29	603840	5	PaxLoc	Passenger	No	Yes		156.9
Short-Range	Summer	CFNDN	2023-06-29	603840	6	PaxLoc	Passenger	No	Yes		252.5
Short-Range	Summer	CFNDN	2023-06-29	603840	7	PaxLoc	Passenger	No	Yes		241.1
Short-Range	Summer	CFNDN	2023-06-29	603840	1	Reposition	Slinging	Yes	Yes	Slinging	Full flight too low to distinguish from takeoff/landing
Short-Range	Summer	CFNDN	2023-06-30	604095	10	PaxLoc	Passenger	No	Yes		221.6
Short-Range	Summer	CFNDN	2023-06-30	604095	3	PaxLoc	Passenger	No	Yes		123.7
Short-Range	Summer	CFNDN	2023-06-30	604095	4	PaxLoc	Passenger	No	Yes		37.1
Short-Range	Summer	CFNDN	2023-06-30	604095	7	PaxLoc	Passenger	No	Yes		103.9
Short-Range	Summer	CFNDN	2023-06-30	604095	9	PaxLoc	Passenger	No	Yes		131.8
Short-Range	Summer	CFNDN	2023-06-30	604095	1	Reposition	Slinging	Yes	Yes	Slinging	Full flight too low to distinguish from takeoff/landing
Short-Range	Summer	CFNDN	2023-06-30	604095	8	PaxLoc	Passenger	No	Yes		Full flight too low to distinguish from takeoff/landing
Short-Range	Summer	CFNDN	2023-07-01	605001	1	PaxLoc	Passenger	No	Yes		174.1
Short-Range	Summer	CFNDN	2023-07-01	605001	3	PaxLoc	Passenger	No	Yes		217.4
Short-Range	Summer	CFNDN	2023-07-01	605001	4	PaxLoc	Passenger	No	Yes		121.8
Short-Range	Summer	CFNDN	2023-07-01	605001	5	PaxLoc	Passenger	No	Yes		253.0
Short-Range	Summer	CFNDN	2023-07-01	605001	6	PaxLoc	Passenger	No	Yes		119.0
Short-Range	Summer	CFNDN	2023-07-01	605001	8	PaxLoc	Passenger	No	Yes		144.4
Short-Range	Summer	CFNDN	2023-07-02	605517	2	PaxLoc	Passenger	No	Yes		144.7

Flight Range	Season	Aircraft	Date	Flight Report Number	Flight Leg	Flight Code	Flight Type	Low Flight Permissible?	Mean Height Lower Than Restriction?	Comment Justification for Low Flight	Mean Height Above Ground (m)
Short-Range	Summer	CFNDN	2023-07-02	605517	3	PaxLoc	Passenger	No	Yes		78.3
Short-Range	Summer	CFNDN	2023-07-03	606033	1	PaxLoc	Passenger	No	Yes		209.6
Short-Range	Summer	CFNDN	2023-07-03	606033	2	PaxLoc	Passenger	No	Yes		165.5
Short-Range	Summer	CFNDN	2023-07-03	606033	3	PaxLoc	Passenger	No	Yes		115.8
Short-Range	Summer	CFNDN	2023-07-03	606033	4	PaxLoc	Passenger	No	Yes		121.6
Short-Range	Summer	CFNDN	2023-07-05	607410	1	PaxLoc	Passenger	No	Yes		114.0
Short-Range	Summer	CFNDN	2023-07-05	607410	2	PaxLoc	Passenger	No	Yes		131.1
Short-Range	Summer	CFNDN	2023-07-05	607410	4	PaxLoc	Passenger	No	Yes		130.3
Short-Range	Summer	CFNDN	2023-07-05	607410	3	Reposition	Slinging	Yes	Yes		Full flight too low to distinguish from takeoff/landing
Short-Range	Summer	CFNDN	2023-07-06	607713	3	PaxLoc	Passenger	No	Yes		219.5
Short-Range	Summer	CFNDN	2023-07-07	608349	1	PaxLoc	Passenger	No	Yes		171.1
Short-Range	Summer	CFNDN	2023-07-07	608349	2	PaxLoc	Passenger	No	Yes		133.9
Short-Range	Summer	CFNDN	2023-07-07	608349	3	PaxLoc	Passenger	No	Yes		114.6
Short-Range	Summer	CFNDN	2023-07-07	608349	4	PaxLoc	Passenger	No	Yes		227.5
Short-Range	Summer	CFNDN	2023-07-08	609303	1	PaxLoc	Passenger	No	Yes		145.7
Short-Range	Summer	CFNDN	2023-07-08	609303	2	PaxLoc	Passenger	No	Yes		187.5
Short-Range	Summer	CFNDN	2023-07-09	609516	4	PaxLoc	Passenger	No	Yes		91.9
Short-Range	Summer	CFNDN	2023-07-09	609516	1	Reposition	Slinging	Yes	Yes		Full flight too low to distinguish from takeoff/landing
Short-Range	Summer	CFNDN	2023-07-10	610088	1	PaxLoc	Passenger	No	Yes		214.6
Short-Range	Summer	CFNDN	2023-07-10	610088	2	PaxLoc	Passenger	No	Yes		161.9
Short-Range	Summer	CFNDN	2023-07-10	610088	3	Reposition	Slinging	Yes	Yes		Full flight too low to distinguish from takeoff/landing
Short-Range	Summer	CFNDN	2023-07-11	610758	1	PaxLoc	Passenger	No	Yes		241.9
Short-Range	Summer	CFNDN	2023-07-11	610758	3	Reposition	Slinging	Yes	Yes		23.2
Short-Range	Summer	CFNDN	2023-07-11	610758	6	PaxLoc	Passenger	No	Yes		57.1
Short-Range	Summer	CFNDN	2023-07-11	610758	7	PaxLoc	Passenger	No	Yes		89.7
Short-Range	Summer	CFNDN	2023-07-11	610758	2	Reposition	Slinging	Yes	Yes		Full flight too low to distinguish from takeoff/landing
Short-Range	Summer	CFNDN	2023-07-13	612051	2	Pax	Passenger	No	Yes		195.3
Short-Range	Summer	CFNDN	2023-07-13	612051	3	PaxLoc	Passenger	No	Yes		223.4
Short-Range	Summer	CFNDN	2023-07-13	612051	1	Reposition	Slinging	Yes	Yes		Full flight too low to distinguish from takeoff/landing
Short-Range	Summer	CFNDN	2023-07-14	612696	1	Pax	Passenger	No	Yes		104.1
Short-Range	Summer	CFNDN	2023-07-14	612696	2	Reposition	Slinging	Yes	Yes		20.1
Short-Range	Summer	CFNDN	2023-07-14	612696	3	Pax	Passenger	No	Yes		225.7
Short-Range	Summer	CFNDN	2023-07-14	612696	4	Pax	Passenger	No	Yes		112.7
Short-Range	Summer	CFNDN	2023-07-14	612696	6	Pax	Passenger	No	Yes		45.2
Short-Range	Summer	CFNDN	2023-07-14	612696	7	PaxLoc	Passenger	No	Yes		130.3
Short-Range	Summer	CFNDN	2023-07-15	613317	2	PaxLoc	Passenger	No	Yes		143.7
Short-Range	Summer	CFNDN	2023-07-15	613317	3	Reposition	Slinging	Yes	Yes		23.2
Short-Range	Summer	CFNDN	2023-07-15	613317	4	PaxLoc	Passenger	No	Yes		128.3
Short-Range	Summer	CFNDN	2023-07-15	613317	5	Reposition	Slinging	Yes	Yes		20.8
Short-Range	Summer	CFNDN	2023-07-15	613317	1	Reposition	Slinging	Yes	Yes		Full flight too low to distinguish from takeoff/landing
Short-Range	Summer	CFNDN	2023-07-16	613785	1	PaxLoc	Passenger	No	Yes		104.8
Short-Range	Summer	CFNDN	2023-07-16	613785	2	PaxLoc	Passenger	No	Yes		119.3
Short-Range	Summer	CFNDN	2023-07-16	613785	3	PaxLoc	Passenger	No	Yes		162.5
Short-Range	Summer	CFNDN	2023-07-16	613785	5	PaxLoc	Passenger	No	Yes		126.8
Short-Range	Summer	CFNDN	2023-07-16	613785	7	PaxLoc	Passenger	No	Yes		86.0
Short-Range	Summer	CFNDN	2023-07-17	614478	1	PaxLoc	Passenger	No	Yes		86.5
Short-Range	Summer	CFNDN	2023-07-17	614478	2	PaxLoc	Passenger	No	Yes		103.3
Short-Range	Summer	CFNDN	2023-07-17	614478	3	Reposition	Slinging	Yes	Yes		22.3
Short-Range	Summer	CFNDN	2023-07-19	615783	1	PaxLoc	Passenger	No	Yes		185.0
Short-Range	Summer	CFNDN	2023-07-19	615783	4	PaxLoc	Passenger	No	Yes		278.9
Short-Range	Summer	CFNDN	2023-07-20	616494	1	PaxLoc	Passenger	No	Yes		203.8
Short-Range	Summer	CFNDN	2023-07-20	616494	2	Reposition	Slinging	Yes	Yes		22.6

Flight Range	Season	Aircraft	Date	Flight Report Number	Flight Leg	Flight Code	Flight Type	Low Flight Permissible?	Mean Height Lower Than Restriction?	Comment Justification for Low Flight	Mean Height Above Ground (m)
Short-Range	Summer	CFNDN	2023-07-20	616494	3	PaxLoc	Passenger	No	Yes		162.7
Short-Range	Summer	CFNDN	2023-07-20	616494	4	PaxLoc	Passenger	No	Yes		196.0
Short-Range	Summer	CFNDN	2023-07-21	617184	3	PaxLoc	Passenger	No	Yes		159.6
Short-Range	Summer	CFNDN	2023-07-21	617184	4	PaxLoc	Passenger	No	Yes		168.1
Short-Range	Summer	CFNDN	2023-07-21	617184	5	PaxLoc	Passenger	No	Yes		152.8
Short-Range	Summer	CFNDN	2023-07-22	617829	1	PaxLoc	Passenger	No	Yes		205.4
Short-Range	Summer	CFNDN	2023-07-22	617829	2	PaxLoc	Passenger	No	Yes		84.7
Short-Range	Summer	CFNDN	2023-07-22	617829	3	PaxLoc	Passenger	No	Yes		65.1
Short-Range	Summer	CFNDN	2023-07-22	617829	4	Reposition	Slinging	Yes	Yes		21.1
Short-Range	Summer	CFNDN	2023-07-23	618453	1	Reposition	Slinging	Yes	Yes		29.1
Short-Range	Summer	CFNDN	2023-07-23	618453	4	PaxLoc	Passenger	No	Yes		92.1
Short-Range	Summer	CFNDN	2023-07-23	618453	5	PaxLoc	Passenger	No	Yes		63.9
Short-Range	Summer	CFNDN	2023-07-26	620635	1	PaxLoc	Passenger	No	Yes		263.3
Short-Range	Summer	CFNDN	2023-07-26	620635	2	PaxLoc	Passenger	No	Yes		153.4
Short-Range	Summer	CFNDN	2023-07-27	621361	1	PaxLoc	Passenger	No	No		317.0
Short-Range	Summer	CFNDN	2023-07-27	621361	3	PaxLoc	Passenger	No	Yes		280.2
Short-Range	Summer	CFNDN	2023-07-27	621361	5	PaxLoc	Passenger	No	Yes		199.4
Short-Range	Summer	CFNDN	2023-07-27	621361	6	PaxLoc	Passenger	No	Yes		286.3
Short-Range	Summer	CFNDN	2023-07-28	621940	1	PaxLoc	Passenger	No	Yes		233.5
Short-Range	Summer	CFNDN	2023-07-28	621940	2	PaxLoc	Passenger	No	Yes		93.3
Short-Range	Summer	CFNDN	2023-07-28	621940	3	PaxLoc	Passenger	No	Yes		138.5
Short-Range	Summer	CFNDN	2023-07-28	621940	4	PaxLoc	Passenger	No	Yes		53.7
Short-Range	Summer	CFNDN	2023-07-28	621940	5	PaxLoc	Passenger	No	Yes		79.7
Short-Range	Summer	CFNDN	2023-07-28	621940	6	PaxLoc	Passenger	No	No		331.9
Short-Range	Summer	CFNDN	2023-07-29	622549	10	PaxLoc	Passenger	No	Yes		177.6
Short-Range	Summer	CFNDN	2023-07-29	622549	3	PaxLoc	Passenger	No	Yes		135.9
Short-Range	Summer	CFNDN	2023-07-29	622549	4	PaxLoc	Passenger	No	Yes		190.4
Short-Range	Summer	CFNDN	2023-07-29	622549	5	PaxLoc	Passenger	No	Yes		243.8
Short-Range	Summer	CFNDN	2023-07-29	622549	6	PaxLoc	Passenger	No	No		396.3
Short-Range	Summer	CFNDN	2023-07-29	622549	7	PaxLoc	Passenger	No	Yes		156.0
Short-Range	Summer	CFNDN	2023-07-29	622549	8	PaxLoc	Passenger	No	No		386.2
Short-Range	Summer	CFNDN	2023-07-29	622549	9	PaxLoc	Passenger	No	Yes		276.7
Short-Range	Summer	CFNDN	2023-07-30	623143	1	PaxLoc	Passenger	No	Yes		108.8
Short-Range	Summer	CFNDN	2023-07-30	623143	2	PaxLoc	Passenger	No	No		341.3
Short-Range	Summer	CFNDN	2023-07-30	623143	3	Ferry	Ferry	No	Yes		260.6
Short-Range	Summer	CFNDN	2023-07-30	623143	4	PaxLoc	Passenger	No	Yes		259.6
Short-Range	Summer	CFNDN	2023-07-30	623143	5	Ferry	Ferry	No	No		322.9
Short-Range	Summer	CFNDN	2023-07-30	623143	6	PaxLoc	Passenger	No	No		417.2
Short-Range	Summer	CFNDN	2023-07-30	623143	7	PaxLoc	Passenger	No	Yes		169.6
Short-Range	Summer	CFNDN	2023-07-30	623143	8	PaxLoc	Passenger	No	Yes		191.5
Short-Range	Summer	CFNDN	2023-07-31	623830	1	PaxLoc	Passenger	No	Yes		203.7
Short-Range	Summer	CFNDN	2023-07-31	623830	10	PaxLoc	Passenger	No	Yes		178.6
Short-Range	Summer	CFNDN	2023-07-31	623830	2	PaxLoc	Passenger	No	Yes		202.5
Short-Range	Summer	CFNDN	2023-07-31	623830	3	PaxLoc	Passenger	No	No		303.5
Short-Range	Summer	CFNDN	2023-07-31	623830	5	PaxLoc	Passenger	No	Yes		269.2
Short-Range	Summer	CFNDN	2023-07-31	623830	6	PaxLoc	Passenger	No	Yes		235.5
Short-Range	Summer	CFNDN	2023-07-31	623830	9	Ferry	Ferry	No	Yes		115.7
Short-Range	Summer	CFNDN	2023-08-01	624580	1	PaxLoc	Passenger	No	Yes		169.8
Short-Range	Summer	CFNDN	2023-08-01	624580	2	PaxLoc	Passenger	No	Yes		204.0
Short-Range	Summer	CFNDN	2023-08-01	624580	3	PaxLoc	Passenger	No	Yes		219.5
Short-Range	Summer	CFNDN	2023-08-01	624580	4	PaxLoc	Passenger	No	Yes		299.6
Short-Range	Summer	CFNDN	2023-08-02	625363	2	Reposition	Slinging	Yes	Yes	Slinging	20.7
Short-Range	Summer	CFNDN	2023-08-02	625363	3	Ferry	Ferry	No	Yes		154.0
Short-Range	Summer	CFNDN	2023-08-02	625363	4	PaxLoc	Passenger	No	Yes		131.4
Short-Range	Summer	CFNDN	2023-08-02	625363	5	PaxLoc	Passenger	No	Yes		102.3
Short-Range	Summer	CFNDN	2023-08-02	625363	6	Floor	Slinging	Yes	Yes	Slinging	155.5
Short-Range	Summer	CFNDN	2023-08-02	625363	7	Floor	Slinging	Yes	Yes	Slinging	191.4
Short-Range	Summer	CFNDN	2023-08-02	625363	8	PaxLoc	Passenger	No	Yes		164.4
Short-Range	Summer	CFNDN	2023-08-02	625363	9	Reposition	Slinging	Yes	Yes	Slinging	113.9

Flight Range	Season	Aircraft	Date	Flight Report Number	Flight Leg	Flight Code	Flight Type	Low Flight Permissible?	Mean Height Lower Than Restriction?	Comment Justification for Low Flight	Mean Height Above Ground (m)
Short-Range	Summer	CFNDN	2023-08-02	625363	1	Reposition	Slinging	Yes	Yes	Slinging	Full flight too low to distinguish from takeoff/landing
Short-Range	Summer	CFNDN	2023-08-02	625363	10	Reposition	Slinging	Yes	Yes	Slinging	Full flight too low to distinguish from takeoff/landing
Short-Range	Summer	CFNDN	2023-08-03	626074	11	PaxLoc	Passenger	No	Yes		123.7
Short-Range	Summer	CFNDN	2023-08-03	626074	13	PaxLoc	Passenger	No	Yes		171.9
Short-Range	Summer	CFNDN	2023-08-03	626074	14	Move	Slinging	Yes	Yes	Slinging	128.0
Short-Range	Summer	CFNDN	2023-08-03	626074	15	PaxLoc	Passenger	No	Yes		182.0
Short-Range	Summer	CFNDN	2023-08-03	626074	16	PaxLoc	Passenger	No	Yes		165.7
Short-Range	Summer	CFNDN	2023-08-03	626074	3	Move	Slinging	Yes	Yes	Slinging	147.7
Short-Range	Summer	CFNDN	2023-08-03	626074	4	PaxLoc	Passenger	No	Yes		181.2
Short-Range	Summer	CFNDN	2023-08-03	626074	5	Move	Slinging	Yes	Yes	Slinging	153.7
Short-Range	Summer	CFNDN	2023-08-03	626074	6	Move	Slinging	Yes	Yes	Slinging	162.3
Short-Range	Summer	CFNDN	2023-08-03	626074	7	Move	Slinging	Yes	Yes	Slinging	167.6
Short-Range	Summer	CFNDN	2023-08-03	626074	8	Move	Slinging	Yes	Yes	Slinging	149.5
Short-Range	Summer	CFNDN	2023-08-03	626074	9	PaxLoc	Passenger	No	Yes		156.3
Short-Range	Summer	CFNDN	2023-08-03	626074	1	PaxLoc	Passenger	No	Yes		Full flight too low to distinguish from takeoff/landing
Short-Range	Summer	CFNDN	2023-08-04	626620	1	CrewChg	Passenger	No	Yes		128.8
Short-Range	Summer	CFNDN	2023-08-04	626620	10	PaxLoc	Passenger	No	Yes		212.9
Short-Range	Summer	CFNDN	2023-08-04	626620	11	PaxLoc	Passenger	No	Yes		152.3
Short-Range	Summer	CFNDN	2023-08-04	626620	12	DrillServ	Slinging	Yes	Yes	Slinging	153.0
Short-Range	Summer	CFNDN	2023-08-04	626620	13	DrillServ	Slinging	Yes	Yes	Slinging	114.5
Short-Range	Summer	CFNDN	2023-08-04	626620	14	PaxLoc	Passenger	No	Yes		144.4
Short-Range	Summer	CFNDN	2023-08-04	626620	15	CrewChg	Passenger	No	Yes		170.0
Short-Range	Summer	CFNDN	2023-08-04	626620	2	Floor	Slinging	Yes	Yes	Slinging	227.2
Short-Range	Summer	CFNDN	2023-08-04	626620	3	PaxLoc	Passenger	No	Yes		245.1
Short-Range	Summer	CFNDN	2023-08-04	626620	4	DrillServ	Slinging	Yes	Yes	Slinging	134.8
Short-Range	Summer	CFNDN	2023-08-04	626620	7	DrillServ	Slinging	Yes	Yes	Slinging	163.6
Short-Range	Summer	CFNDN	2023-08-04	626620	8	PaxLoc	Passenger	No	Yes		127.4
Short-Range	Summer	CFNDN	2023-08-04	626620	9	PaxLoc	Passenger	No	Yes		149.5
Short-Range	Summer	CFNDN	2023-08-05	627196	1	CrewChg	Passenger	No	Yes		154.5
Short-Range	Summer	CFNDN	2023-08-05	627196	10	Core	Slinging	Yes	Yes	Slinging	127.1
Short-Range	Summer	CFNDN	2023-08-05	627196	11	CrewChg	Passenger	No	Yes		148.9
Short-Range	Summer	CFNDN	2023-08-05	627196	2	Core	Slinging	Yes	Yes	Slinging	138.0
Short-Range	Summer	CFNDN	2023-08-05	627196	3	DrillServ	Slinging	Yes	Yes	Slinging	166.3
Short-Range	Summer	CFNDN	2023-08-05	627196	4	PaxLoc	Passenger	No	Yes		106.4
Short-Range	Summer	CFNDN	2023-08-05	627196	5	PaxLoc	Passenger	No	Yes		123.0
Short-Range	Summer	CFNDN	2023-08-05	627196	6	PaxLoc	Passenger	No	Yes		155.9
Short-Range	Summer	CFNDN	2023-08-05	627196	7	Reposition	Slinging	Yes	Yes	Slinging	Full flight too low to distinguish from takeoff/landing
Short-Range	Summer	CFNDN	2023-08-06	627772	1	CrewChg	Passenger	No	Yes		127.7
Short-Range	Summer	CFNDN	2023-08-06	627772	10	CrewChg	Passenger	No	Yes		172.4
Short-Range	Summer	CFNDN	2023-08-06	627772	2	Core	Slinging	Yes	Yes	Slinging	141.7
Short-Range	Summer	CFNDN	2023-08-06	627772	3	PaxLoc	Passenger	No	Yes		237.1
Short-Range	Summer	CFNDN	2023-08-06	627772	4	PaxLoc	Passenger	No	Yes		140.6
Short-Range	Summer	CFNDN	2023-08-06	627772	5	PaxLoc	Passenger	No	Yes		136.8
Short-Range	Summer	CFNDN	2023-08-06	627772	6	PaxLoc	Passenger	No	Yes		121.9
Short-Range	Summer	CFNDN	2023-08-06	627772	7	PaxLoc	Passenger	No	Yes		130.6
Short-Range	Summer	CFNDN	2023-08-06	627772	8	DrillServ	Slinging	Yes	Yes	Slinging	148.8
Short-Range	Summer	CFNDN	2023-08-06	627772	9	DrillServ	Slinging	Yes	Yes	Slinging	141.0
Short-Range	Summer	CFNDN	2023-08-07	628129	1	CrewChg	Passenger	No	Yes		135.4
Short-Range	Summer	CFNDN	2023-08-07	628129	2	DrillServ	Slinging	Yes	Yes	Slinging	132.9
Short-Range	Summer	CFNDN	2023-08-07	628129	3	PaxLoc	Passenger	No	Yes		125.7
Short-Range	Summer	CFNDN	2023-08-07	628129	4	Move	Slinging	Yes	Yes	Slinging	137.7
Short-Range	Summer	CFNDN	2023-08-07	629050	1	Move	Slinging	Yes	Yes	Slinging	130.9
Short-Range	Summer	CFNDN	2023-08-07	629050	2	Move	Slinging	Yes	Yes	Slinging	122.2
Short-Range	Summer	CFNDN	2023-08-07	629050	3	CrewChg	Passenger	No	Yes		110.2
Short-Range	Summer	CFNDN	2023-08-08	629062	1	CrewChg	Passenger	No	Yes		143.5
Short-Range	Summer	CFNDN	2023-08-08	629062	10	Move	Slinging	Yes	Yes	Slinging	126.2
Short-Range	Summer	CFNDN	2023-08-08	629062	11	Move	Slinging	Yes	Yes	Slinging	149.7
Short-Range	Summer	CFNDN	2023-08-08	629062	12	PaxLoc	Passenger	No	Yes		200.7
Short-Range	Summer	CFNDN	2023-08-08	629062	13	CrewChg	Passenger	No	Yes		172.6

Flight Range	Season	Aircraft	Date	Flight Report Number	Flight Leg	Flight Code	Flight Type	Low Flight Permissible?	Mean Height Lower Than Restriction?	Comment Justification for Low Flight	Mean Height Above Ground (m)
Short-Range	Summer	CFNDN	2023-08-08	629062	2	PaxLoc	Passenger	No	Yes		92.1
Short-Range	Summer	CFNDN	2023-08-08	629062	3	Move	Slinging	Yes	Yes	Slinging	147.2
Short-Range	Summer	CFNDN	2023-08-08	629062	4	Move	Slinging	Yes	Yes	Slinging	158.8
Short-Range	Summer	CFNDN	2023-08-08	629062	5	Move	Slinging	Yes	Yes	Slinging	126.8
Short-Range	Summer	CFNDN	2023-08-08	629062	6	Move	Slinging	Yes	Yes	Slinging	162.3
Short-Range	Summer	CFNDN	2023-08-08	629062	7	Move	Slinging	Yes	Yes	Slinging	160.8
Short-Range	Summer	CFNDN	2023-08-08	629062	8	Move	Slinging	Yes	Yes	Slinging	176.4
Short-Range	Summer	CFNDN	2023-08-08	629062	9	Move	Slinging	Yes	Yes	Slinging	149.9
Short-Range	Summer	CFNDN	2023-08-09	629686	1	CrewChg	Passenger	No	Yes		177.3
Short-Range	Summer	CFNDN	2023-08-09	629686	2	Core	Slinging	Yes	Yes	Slinging	187.0
Short-Range	Summer	CFNDN	2023-08-09	629686	3	PaxLoc	Passenger	No	Yes		194.6
Short-Range	Summer	CFNDN	2023-08-09	629686	4	Floor	Slinging	Yes	Yes	Slinging	171.2
Short-Range	Summer	CFNDN	2023-08-09	629686	5	Floor	Slinging	Yes	Yes	Slinging	110.3
Short-Range	Summer	CFNDN	2023-08-09	629686	6	PaxLoc	Passenger	No	Yes		238.9
Short-Range	Summer	CFNDN	2023-08-09	629686	9	Core	Slinging	Yes	Yes	Slinging	181.8
Short-Range	Summer	CFNDN	2023-08-10	630403	1	CrewChg	Passenger	No	Yes		242.2
Short-Range	Summer	CFNDN	2023-08-10	630403	10	CrewChg	Passenger	No	Yes		227.5
Short-Range	Summer	CFNDN	2023-08-10	630403	2	Core	Slinging	Yes	Yes	Slinging	134.5
Short-Range	Summer	CFNDN	2023-08-10	630403	4	PaxLoc	Passenger	No	Yes		159.4
Short-Range	Summer	CFNDN	2023-08-10	630403	5	Move	Slinging	Yes	Yes	Slinging	66.1
Short-Range	Summer	CFNDN	2023-08-10	630403	6	Move	Slinging	Yes	Yes	Slinging	81.7
Short-Range	Summer	CFNDN	2023-08-10	630403	7	Move	Slinging	Yes	Yes	Slinging	77.6
Short-Range	Summer	CFNDN	2023-08-10	630403	9	PaxLoc	Passenger	No	Yes		135.8
Short-Range	Summer	CFNDN	2023-08-10	630403	3	Reposition	Slinging	Yes	Yes	Slinging	Full flight too low to distinguish from takeoff/landing
Short-Range	Summer	CFNDN	2023-08-11	630904	1	CrewChg	Passenger	No	Yes		195.3
Short-Range	Summer	CFNDN	2023-08-11	630904	11	Core	Slinging	Yes	Yes	Slinging	207.2
Short-Range	Summer	CFNDN	2023-08-11	630904	4	DrillServ	Slinging	Yes	Yes	Slinging	137.0
Short-Range	Summer	CFNDN	2023-08-11	630904	5	PaxLoc	Passenger	No	Yes		157.8
Short-Range	Summer	CFNDN	2023-08-11	630904	6	Floor	Slinging	Yes	Yes	Slinging	69.3
Short-Range	Summer	CFNDN	2023-08-11	630904	8	PaxLoc	Passenger	No	Yes		105.2
Short-Range	Summer	CFNDN	2023-08-11	630904	9	Wildlife	Passenger	Yes	Yes	Environmental Survey	98.2
Short-Range	Summer	CFNDN	2023-08-12	631567	1	CrewChg	Passenger	No	Yes		177.9
Short-Range	Summer	CFNDN	2023-08-12	631567	10	Move	Slinging	Yes	Yes	Slinging	98.0
Short-Range	Summer	CFNDN	2023-08-12	631567	11	PaxLoc	Passenger	No	Yes		179.0
Short-Range	Summer	CFNDN	2023-08-12	631567	12	PaxLoc	Passenger	No	Yes		113.1
Short-Range	Summer	CFNDN	2023-08-12	631567	13	CrewChg	Passenger	No	Yes		191.5
Short-Range	Summer	CFNDN	2023-08-12	631567	2	DrillServ	Slinging	Yes	Yes	Slinging	162.1
Short-Range	Summer	CFNDN	2023-08-12	631567	3	PaxLoc	Passenger	No	Yes		194.6
Short-Range	Summer	CFNDN	2023-08-12	631567	4	Move	Slinging	Yes	Yes	Slinging	188.1
Short-Range	Summer	CFNDN	2023-08-12	631567	5	Move	Slinging	Yes	Yes	Slinging	84.6
Short-Range	Summer	CFNDN	2023-08-12	631567	6	PaxLoc	Passenger	No	Yes		193.0
Short-Range	Summer	CFNDN	2023-08-12	631567	7	Move	Slinging	Yes	Yes	Slinging	90.2
Short-Range	Summer	CFNDN	2023-08-12	631567	8	Move	Slinging	Yes	Yes	Slinging	95.6
Short-Range	Summer	CFNDN	2023-08-12	631567	9	Move	Slinging	Yes	Yes	Slinging	86.0
Short-Range	Summer	CFNDN	2023-08-13	632167	1	DrillServ	Slinging	Yes	Yes	Slinging	140.4
Short-Range	Summer	CFNDN	2023-08-13	632167	10	PaxLoc	Passenger	No	Yes		174.1
Short-Range	Summer	CFNDN	2023-08-13	632167	12	CrewChg	Passenger	No	Yes		226.1
Short-Range	Summer	CFNDN	2023-08-13	632167	3	PaxLoc	Passenger	No	Yes		131.0
Short-Range	Summer	CFNDN	2023-08-13	632167	5	PaxLoc	Passenger	No	Yes		165.9
Short-Range	Summer	CFNDN	2023-08-13	632167	6	Floor	Slinging	Yes	Yes	Slinging	53.0
Short-Range	Summer	CFNDN	2023-08-13	632167	7	PaxLoc	Passenger	No	Yes		189.3
Short-Range	Summer	CFNDN	2023-08-13	632167	8	PaxLoc	Passenger	No	Yes		144.1
Short-Range	Summer	CFNDN	2023-08-14	633085	1	CrewChg	Passenger	Yes	Yes	Weather	129.3
Short-Range	Summer	CFNDN	2023-08-14	633085	2	PaxLoc	Passenger	Yes	Yes	Weather/Site Inspection	119.3
Short-Range	Summer	CFNDN	2023-08-14	633085	3	Core	Slinging	Yes	Yes	Weather	155.8
Short-Range	Summer	CFNDN	2023-08-14	633085	4	PaxLoc	Passenger	No	Yes		196.0

Flight Range	Season	Aircraft	Date	Flight Report Number	Flight Leg	Flight Code	Flight Type	Low Flight Permissible?	Mean Height Lower Than Restriction?	Comment Justification for Low Flight	Mean Height Above Ground (m)
Short-Range	Summer	CFNDN	2023-08-14	633085	5	DrillServ	Slinging	Yes	Yes	Slinging	177.5
Short-Range	Summer	CFNDN	2023-08-14	633085	6	DrillServ	Slinging	Yes	Yes	Slinging	178.5
Short-Range	Summer	CFNDN	2023-08-14	633085	7	CrewChg	Passenger	No	Yes		184.7
Short-Range	Summer	CFNDN	2023-08-14	633085	8	DrillServ	Slinging	Yes	Yes	Slinging	187.8
Short-Range	Summer	CFNDN	2023-08-15	633826	1	CrewChg	Passenger	No	Yes		185.7
Short-Range	Summer	CFNDN	2023-08-15	633826	2	PaxLoc	Passenger	No	Yes		270.7
Short-Range	Summer	CFNDN	2023-08-15	633826	3	DrillServ	Slinging	Yes	Yes	Slinging	158.6
Short-Range	Summer	CFNDN	2023-08-15	633826	4	PaxLoc	Passenger	No	Yes		208.7
Short-Range	Summer	CFNDN	2023-08-15	633826	5	Floor	Slinging	Yes	Yes	Slinging	81.4
Short-Range	Summer	CFNDN	2023-08-15	633826	6	PaxLoc	Passenger	No	Yes		186.9
Short-Range	Summer	CFNDN	2023-08-15	633826	7	CrewChg	Passenger	No	Yes		209.6
Short-Range	Summer	CFNDN	2023-08-16	634648	1	CrewChg	Passenger	No	Yes		156.7
Short-Range	Summer	CFNDN	2023-08-16	634648	10	Floor	Slinging	Yes	Yes	Slinging	138.1
Short-Range	Summer	CFNDN	2023-08-16	634648	11	PaxLoc	Passenger	No	Yes		166.5
Short-Range	Summer	CFNDN	2023-08-16	634648	12	CrewChg	Passenger	No	Yes		149.2
Short-Range	Summer	CFNDN	2023-08-16	634648	2	DrillServ	Slinging	Yes	Yes	Slinging	153.7
Short-Range	Summer	CFNDN	2023-08-16	634648	3	PaxLoc	Passenger	No	Yes		132.2
Short-Range	Summer	CFNDN	2023-08-16	634648	4	Move	Slinging	Yes	Yes	Slinging	53.2
Short-Range	Summer	CFNDN	2023-08-16	634648	5	PaxLoc	Passenger	No	Yes		62.7
Short-Range	Summer	CFNDN	2023-08-16	634648	6	PaxLoc	Passenger	No	Yes		112.7
Short-Range	Summer	CFNDN	2023-08-16	634648	7	Move	Slinging	Yes	Yes	Slinging	73.0
Short-Range	Summer	CFNDN	2023-08-16	634648	8	PaxLoc	Passenger	Yes	Yes	Slinging	112.8
Short-Range	Summer	CFNDN	2023-08-16	634648	9	Floor	Slinging	Yes	Yes	Slinging	114.2
Short-Range	Summer	CFNDN	2023-08-17	635308	1	CrewChg	Passenger	No	Yes		140.3
Short-Range	Summer	CFNDN	2023-08-17	635308	10	Reposition	Slinging	Yes	Yes	Slinging	116.6
Short-Range	Summer	CFNDN	2023-08-17	635308	11	PaxLoc	Passenger	No	Yes		108.5
Short-Range	Summer	CFNDN	2023-08-17	635308	12	PaxLoc	Passenger	No	Yes		200.4
Short-Range	Summer	CFNDN	2023-08-17	635308	13	PaxLoc	Passenger	No	Yes		122.1
Short-Range	Summer	CFNDN	2023-08-17	635308	15	DrillServ	Slinging	Yes	Yes	Slinging	158.6
Short-Range	Summer	CFNDN	2023-08-17	635308	16	CrewChg	Passenger	No	Yes		218.6
Short-Range	Summer	CFNDN	2023-08-17	635308	17	CrewChg	Passenger	No	Yes		174.5
Short-Range	Summer	CFNDN	2023-08-17	635308	3	PaxLoc	Passenger	No	Yes		135.1
Short-Range	Summer	CFNDN	2023-08-17	635308	4	CrewChg	Passenger	No	Yes		185.9
Short-Range	Summer	CFNDN	2023-08-17	635308	6	DrillServ	Slinging	Yes	Yes	Slinging	158.5
Short-Range	Summer	CFNDN	2023-08-17	635308	8	PaxLoc	Passenger	No	Yes		177.3
Short-Range	Summer	CFNDN	2023-08-17	635308	9	PaxLoc	Passenger	No	Yes		134.3
Short-Range	Summer	CFNDN	2023-08-18	635650	1	Core	Slinging	Yes	Yes	Slinging	163.1
Short-Range	Summer	CFNDN	2023-08-18	635650	11	Move	Slinging	Yes	Yes	Slinging	140.6
Short-Range	Summer	CFNDN	2023-08-18	635650	12	Move	Slinging	Yes	Yes	Slinging	133.6
Short-Range	Summer	CFNDN	2023-08-18	635650	13	Move	Slinging	Yes	Yes	Slinging	105.3
Short-Range	Summer	CFNDN	2023-08-18	635650	2	CrewChg	Passenger	No	Yes		204.9
Short-Range	Summer	CFNDN	2023-08-18	635650	4	PaxLoc	Passenger	No	Yes		53.0
Short-Range	Summer	CFNDN	2023-08-18	635650	5	PaxLoc	Passenger	No	Yes		104.5
Short-Range	Summer	CFNDN	2023-08-18	635650	7	DrillServ	Slinging	Yes	Yes	Slinging	128.1
Short-Range	Summer	CFNDN	2023-08-18	635650	8	PaxLoc	Passenger	No	Yes		149.0
Short-Range	Summer	CFNDN	2023-08-18	635650	9	Move	Slinging	Yes	Yes	Slinging	118.3
Short-Range	Summer	CFNDN	2023-08-19	636559	1	CrewChg	Passenger	No	Yes		130.4
Short-Range	Summer	CFNDN	2023-08-19	636559	10	PaxLoc	Passenger	No	Yes		196.8
Short-Range	Summer	CFNDN	2023-08-19	636559	11	PaxLoc	Passenger	No	Yes		66.1
Short-Range	Summer	CFNDN	2023-08-19	636559	12	PaxLoc	Passenger	No	Yes		145.5
Short-Range	Summer	CFNDN	2023-08-19	636559	13	PaxLoc	Passenger	Yes	Yes	Weather	80.1
Short-Range	Summer	CFNDN	2023-08-19	636559	14	PaxLoc	Passenger	Yes	Yes	Weather	129.9
Short-Range	Summer	CFNDN	2023-08-19	636559	16	Core	Slinging	Yes	Yes	Weather	97.1
Short-Range	Summer	CFNDN	2023-08-19	636559	17	CrewChg	Passenger	No	Yes		121.0
Short-Range	Summer	CFNDN	2023-08-19	636559	2	Move	Slinging	Yes	Yes	Slinging	102.8
Short-Range	Summer	CFNDN	2023-08-19	636559	3	Move	Slinging	Yes	Yes	Slinging	102.9
Short-Range	Summer	CFNDN	2023-08-19	636559	4	Move	Slinging	Yes	Yes	Slinging	124.4
Short-Range	Summer	CFNDN	2023-08-19	636559	5	Move	Slinging	Yes	Yes	Slinging	122.5
Short-Range	Summer	CFNDN	2023-08-19	636559	6	PaxLoc	Passenger	No	Yes		68.9
Short-Range	Summer	CFNDN	2023-08-19	636559	8	PaxLoc	Passenger	No	Yes		68.3

Flight Range	Season	Aircraft	Date	Flight Report Number	Flight Leg	Flight Code	Flight Type	Low Flight Permissible?	Mean Height Lower Than Restriction?	Comment Justification for Low Flight	Mean Height Above Ground (m)
Short-Range	Summer	CFNDN	2023-08-19	636559	9	GenSlng	Slinging	Yes	Yes	Slinging	102.6
Short-Range	Summer	CFNDN	2023-08-20	637141	1	CrewChg	Passenger	No	Yes		113.2
Short-Range	Summer	CFNDN	2023-08-20	637141	2	Core	Slinging	Yes	Yes	Slinging	107.7
Short-Range	Summer	CFNDN	2023-08-20	637141	3	PaxLoc	Passenger	No	Yes		85.8
Short-Range	Summer	CFNDN	2023-08-20	637141	4	PaxLoc	Passenger	No	Yes		131.8
Short-Range	Summer	CFNDN	2023-08-20	637141	6	PaxLoc	Passenger	No	Yes		98.0
Short-Range	Summer	CFNDN	2023-08-20	637141	8	CrewChg	Passenger	No	Yes		116.5
Short-Range	Summer	CFNDN	2023-08-20	637141	9	Core	Slinging	Yes	Yes	Slinging/Weather	124.5
Short-Range	Summer	CFNDN	2023-08-21	637885	1	Core	Slinging	Yes	Yes	Slinging	137.6
Short-Range	Summer	CFNDN	2023-08-21	637885	10	LocSlng	Slinging	Yes	Yes	Slinging	153.3
Short-Range	Summer	CFNDN	2023-08-21	637885	11	DrillServ	Slinging	Yes	Yes	Slinging	155.9
Short-Range	Summer	CFNDN	2023-08-21	637885	12	CrewChg	Passenger	No	Yes		112.7
Short-Range	Summer	CFNDN	2023-08-21	637885	2	CrewChg	Passenger	No	Yes		105.2
Short-Range	Summer	CFNDN	2023-08-21	637885	4	PaxLoc	Passenger	No	Yes		131.9
Short-Range	Summer	CFNDN	2023-08-21	637885	5	PaxLoc	Passenger	No	Yes		139.6
Short-Range	Summer	CFNDN	2023-08-21	637885	6	Floor	Slinging	Yes	Yes	Slinging	152.7
Short-Range	Summer	CFNDN	2023-08-21	637885	7	Move	Slinging	Yes	Yes	Slinging	70.9
Short-Range	Summer	CFNDN	2023-08-21	637885	8	Move	Slinging	Yes	Yes	Slinging	59.7
Short-Range	Summer	CFNDN	2023-08-21	637885	9	PaxLoc	Passenger	No	Yes		160.4
Short-Range	Summer	CFNDN	2023-08-22	638707	1	CrewChg	Passenger	No	Yes		121.2
Short-Range	Summer	CFNDN	2023-08-22	638707	2	Core	Slinging	Yes	Yes	Slinging	111.0
Short-Range	Summer	CFNDN	2023-08-22	638707	3	PaxLoc	Passenger	No	Yes		72.5
Short-Range	Summer	CFNDN	2023-08-22	638707	4	PaxLoc	Passenger	No	Yes		143.3
Short-Range	Summer	CFNDN	2023-08-22	638707	5	Floor	Slinging	Yes	Yes	Slinging	188.5
Short-Range	Summer	CFNDN	2023-08-22	638707	6	Floor	Slinging	Yes	Yes	Slinging	168.4
Short-Range	Summer	CFNDN	2023-08-22	638707	7	Core	Slinging	Yes	Yes	Slinging	127.8
Short-Range	Summer	CFNDN	2023-08-22	638707	8	CrewChg	Passenger	No	Yes		107.9
Short-Range	Summer	GCHZ	2023-08-22	638758	1	PaxLoc	Passenger	Yes	Yes	Weather	148.0
Short-Range	Summer	GCHZ	2023-08-22	638758	2	PaxLoc	Passenger	No	Yes		129.3
Short-Range	Summer	GCHZ	2023-08-22	638758	5	PaxLoc	Passenger	No	Yes		156.2
Short-Range	Summer	GCHZ	2023-08-23	639040	4	CrewChg	Passenger	No	Yes		142.0
Short-Range	Summer	GCHZ	2023-08-24	639928	3	PaxLoc	Passenger	No	Yes		Full flight too low to distinguish from takeoff/landing
Short-Range	Summer	CFNDN	2023-08-25	640744	1	PaxLoc	Passenger	No	Yes		105.6
Short-Range	Summer	CFNDN	2023-08-25	640744	2	Move	Slinging	Yes	Yes	Slinging	86.7
Short-Range	Summer	CFNDN	2023-08-25	640744	3	Move	Slinging	Yes	Yes	Slinging	54.7
Short-Range	Summer	UIT	2023-08-27	641932	1	PaxLoc	Passenger	No	Yes		209.1
Short-Range	Summer	UIT	2023-08-27	641932	10	Move	Slinging	Yes	Yes	Slinging	242.8
Short-Range	Summer	UIT	2023-08-27	641932	2	Move	Slinging	Yes	Yes	Slinging	184.7
Short-Range	Summer	UIT	2023-08-27	641932	3	Move	Slinging	Yes	Yes	Slinging	252.9
Short-Range	Summer	UIT	2023-08-27	641932	4	Move	Slinging	Yes	Yes	Slinging	231.6
Short-Range	Summer	UIT	2023-08-27	641932	5	Move	Slinging	Yes	Yes	Slinging	243.5
Short-Range	Summer	UIT	2023-08-27	641932	6	Move	Slinging	Yes	Yes	Slinging	196.1
Short-Range	Summer	UIT	2023-08-27	641932	7	Move	Slinging	Yes	Yes	Slinging	217.2
Short-Range	Summer	BWN	2023-08-30	643837	3	PaxLoc	Passenger	No	Yes		139.5
Short-Range	Summer	BWN	2023-08-30	643837	4	PaxLoc	Passenger	No	Yes		71.9
Short-Range	Summer	AVH	2023-09-06	647912	3	PaxLoc	Passenger	No	Yes		175.9
Short-Range	Summer	AVH	2023-09-06	647912	4	PaxLoc	Passenger	No	Yes		162.7
Short-Range	Summer	AVH	2023-09-06	647912	5	PaxLoc	Passenger	No	Yes		Full flight too low to distinguish from takeoff/landing
Short-Range	Summer	AVH	2023-09-07	648415	4	PaxLoc	Passenger	No	Yes		54.2
Short-Range	Summer	AVH	2023-09-07	648415	5	PaxLoc	Passenger	No	Yes		34.1
Short-Range	Summer	AVH	2023-09-08	649151	2	PaxLoc	Passenger	No	Yes		158.9
Short-Range	Summer	AVH	2023-09-08	649151	4	PaxLoc	Passenger	No	Yes		66.0
Short-Range	Summer	AVH	2023-09-08	649151	7	PaxLoc	Passenger	No	Yes		54.5
Short-Range	Summer	AVH	2023-09-09	649648	2	PaxLoc	Passenger	No	Yes		149.0
Short-Range	Summer	AVH	2023-09-09	649648	3	PaxLoc	Passenger	No	Yes		48.1
Short-Range	Summer	AVH	2023-09-09	649648	4	PaxLoc	Passenger	No	Yes		79.5
Short-Range	Summer	AVH	2023-09-09	649648	6	PaxLoc	Passenger	No	Yes		110.4

Flight Range	Season	Aircraft	Date	Flight Report Number	Flight Leg	Flight Code	Flight Type	Low Flight Permissible?	Mean Height Lower Than Restriction?	Comment Justification for Low Flight	Mean Height Above Ground (m)
Short-Range	Summer	AVH	2023-09-09	649648	7	PaxLoc	Passenger	No	Yes		92.7
Short-Range	Summer	AVH	2023-09-09	649648	8	PaxLoc	Passenger	No	Yes		36.0
Short-Range	Summer	AVH	2023-09-10	650200	1	PaxLoc	Passenger	No	Yes		91.6
Short-Range	Summer	AVH	2023-09-10	650200	5	PaxLoc	Passenger	No	Yes		76.8
Short-Range	Summer	AVH	2023-09-10	650200	6	Reposition	Slinging	Yes	Yes		Full flight too low to distinguish from takeoff/landing
Short-Range	Summer	GCHZ	2023-09-11	650825	2	Slinging	Slinging	Yes	Yes		67.3
Short-Range	Summer	GCHZ	2023-09-11	650825	5	Slinging	Slinging	Yes	Yes		109.8
Short-Range	Summer	GCHZ	2023-09-11	650825	7	PaxLoc	Passenger	No	Yes		Full flight too low to distinguish from takeoff/landing
Short-Range	Summer	GCHZ	2023-09-12	651418	1	PaxLoc	Passenger	Yes	Yes	Weather	75.3
Short-Range	Summer	GCHZ	2023-09-12	651418	5	PaxLoc	Passenger	No	Yes		120.2
Short-Range	Summer	GCHZ	2023-09-12	651418	6	PaxLoc	Passenger	No	Yes		114.6
Short-Range	Summer	GCHZ	2023-09-12	651418	3	PaxLoc	Passenger	No	Yes		Full flight too low to distinguish from takeoff/landing
Short-Range	Summer	GCHZ	2023-09-13	651982	1	PaxLoc	Passenger	Yes	Yes	Weather	127.0
Short-Range	Summer	GCHZ	2023-09-13	651982	2	PaxLoc	Passenger	No	Yes		138.4
Short-Range	Fall	GCHZ	2023-09-22	657468	4	Reposition	Slinging	Yes	Yes	Slinging	Full flight too low to distinguish from takeoff/landing
Short-Range	Fall	GCHZ	2023-09-23	658002	5	Reposition	Slinging	Yes	Yes	Slinging	Full flight too low to distinguish from takeoff/landing
Short-Range	Fall	GCHZ	2023-09-26	660123	1	PaxLoc	Passenger	No	Yes		162.9
Short-Range	Fall	GCHZ	2023-09-26	660123	2	PaxLoc	Passenger	No	Yes		259.3
Short-Range	Fall	GCHZ	2023-09-26	660123	3	PaxLoc	Passenger	No	Yes		156.6
Short-Range	Fall	GCHZ	2023-09-26	660123	4	PaxLoc	Passenger	No	Yes		135.6
Short-Range	Fall	GCHZ	2023-09-29	661803	1	PaxLoc	Passenger	No	Yes		62.1
Long-Range	Spring	UIT	2023-05-01	329557	3	Medevac	Medevac	Yes	Yes		201.6
Long-Range	Spring	C-FGAV	2023-05-25	341017	2	Core	Slinging	Yes	Yes	Slinging	245.2
Long-Range	Spring	C-FGAV	2023-05-25	341017	3	Wildlife	Passenger	Yes	Yes	Environmental Survey	205.2
Long-Range	Spring	C-FGAV	2023-05-25	341017	4	Wildlife	Passenger	Yes	Yes	Environmental Survey	144.7
Long-Range	Summer	C-FGAV	2023-05-26	341590	1	CrewChg	Passenger	No	Yes		202.9
Long-Range	Summer	C-FGAV	2023-05-26	341590	2	Wildlife	Passenger	Yes	Yes	Environmental Survey	133.9
Long-Range	Summer	C-FGAV	2023-05-26	341590	3	Wildlife	Passenger	Yes	Yes	Environmental Survey	119.8
Long-Range	Summer	C-FGAV	2023-05-26	341590	4	Wildlife	Ferry	Yes	Yes	Environmental Survey	332.0
Long-Range	Summer	UIT	2023-05-29	342973	4	Wildlife	Passenger	Yes	Yes	Environmental Survey	151.3
Long-Range	Summer	C-FGAV	2023-05-31	408322	2	PaxLoc	Passenger	No	No		902.9
Long-Range	Summer	C-FGAV	2023-05-31	408322	3	PaxLoc	Passenger	No	No		892.9
Long-Range	Summer	C-FGAV	2023-06-02	587407	2	PaxLoc	Passenger	Yes	Yes	Site Inspection	122.8
Long-Range	Summer	C-FGAV	2023-06-03	587803	1	Ferry	Ferry	Yes	Yes	Weather	101.6
Long-Range	Summer	C-FGAV	2023-06-03	587803	2	PaxLoc	Passenger	No	Yes		534.6
Long-Range	Summer	C-FGAV	2023-06-03	587803	3	PaxLoc	Passenger	No	No		798.2
Long-Range	Summer	C-FGAV	2023-06-03	587891	1	Ferry	Ferry	No	No		1008.4
Long-Range	Summer	CFNDN	2023-06-20	598824	1	Ferry	Ferry	No	Yes		496.4
Long-Range	Summer	CFNDN	2023-06-24	600303	1	PaxLoc	Passenger	Yes	Yes	Road Survey	157.4
Long-Range	Summer	CFNDN	2023-06-24	600303	2	PaxLoc	Passenger	Yes	Yes	Site Survey	110.1
Long-Range	Summer	CFNDN	2023-06-28	603156	2	Ferry	Ferry	No	Yes		235.9
Long-Range	Summer	CFNDN	2023-06-28	603156	5	PaxLoc	Passenger	No	Yes		177.4
Long-Range	Summer	CFNDN	2023-06-30	604095	2	Ferry	Ferry	No	Yes		211.2
Long-Range	Summer	CFNDN	2023-06-30	604095	6	Ferry	Ferry	No	Yes		196.6
Long-Range	Summer	CFNDN	2023-07-01	605001	2	Fuel	Slinging	Yes	Yes		266.9
Long-Range	Summer	CFNDN	2023-07-01	605001	7	Ferry	Ferry	No	Yes		314.6
Long-Range	Summer	CFNDN	2023-07-02	605517	1	Ferry	Ferry	No	Yes		284.3
Long-Range	Summer	CFNDN	2023-07-02	605517	4	PaxLoc	Passenger	No	Yes		227.8
Long-Range	Summer	CFNDN	2023-07-09	609516	2	PaxLoc	Passenger	No	Yes		236.4
Long-Range	Summer	CFNDN	2023-07-09	609516	3	PaxLoc	Passenger	Yes	Yes	Site Inspection	95.9
Long-Range	Summer	CFNDN	2023-07-09	609516	5	PaxLoc	Passenger	Yes	Yes	Site Inspection	213.8
Long-Range	Summer	CFNDN	2023-07-09	609516	6	PaxLoc	Passenger	No	Yes		250.5
Long-Range	Summer	CFNDN	2023-07-11	610758	4	PaxLoc	Passenger	No	Yes		427.7
Long-Range	Summer	CFNDN	2023-07-11	610758	5	Ferry	Ferry	No	Yes		341.8
Long-Range	Summer	CFNDN	2023-07-14	612696	5	Ferry	Ferry	No	Yes		401.3
Long-Range	Summer	CFNDN	2023-07-14	612696	8	PaxLoc	Passenger	No	Yes		269.1
Long-Range	Summer	CFNDN	2023-07-16	613785	4	Ferry	Ferry	No	Yes		325.6

Flight Range	Season	Aircraft	Date	Flight Report Number	Flight Leg	Flight Code	Flight Type	Low Flight Permissible?	Mean Height Lower Than Restriction?	Comment Justification for Low Flight	Mean Height Above Ground (m)
Long-Range	Summer	CFNDN	2023-07-16	613785	6	PaxLoc	Passenger	No	Yes		256.2
Long-Range	Summer	CFNDN	2023-07-19	615783	2	PaxLoc	Passenger	No	Yes		235.5
Long-Range	Summer	CFNDN	2023-07-19	615783	3	PaxLoc	Passenger	No	Yes		197.6
Long-Range	Summer	CFNDN	2023-07-21	617184	1	PaxLoc	Passenger	No	Yes		203.5
Long-Range	Summer	CFNDN	2023-07-21	617184	2	PaxLoc	Passenger	No	Yes		219.6
Long-Range	Summer	CFNDN	2023-07-23	618453	2	PaxLoc	Passenger	No	Yes		284.4
Long-Range	Summer	CFNDN	2023-07-23	618453	3	PaxLoc	Passenger	No	Yes		401.7
Long-Range	Summer	CFNDN	2023-07-25	620082	1	Ferry	Ferry	No	No		664.4
Long-Range	Summer	CFNDN	2023-07-25	620082	2	PaxLoc	Passenger	No	No		656.6
Long-Range	Summer	CFNDN	2023-07-25	620082	3	PaxLoc	Passenger	No	Yes		498.2
Long-Range	Summer	CFNDN	2023-07-25	620082	4	Ferry	Ferry	No	Yes		466.4
Long-Range	Summer	CFNDN	2023-07-25	620082	5	PaxLoc	Passenger	No	No		954.4
Long-Range	Summer	CFNDN	2023-07-25	620082	6	Ferry	Ferry	No	No		798.7
Long-Range	Summer	CFNDN	2023-07-25	620082	7	PaxLoc	Passenger	No	Yes		574.7
Long-Range	Summer	CFNDN	2023-07-27	621361	2	PaxLoc	Passenger	No	No		942.6
Long-Range	Summer	CFNDN	2023-07-27	621361	4	Ferry	Ferry	No	No		946.9
Long-Range	Summer	CFNDN	2023-07-29	622549	1	PaxLoc	Passenger	No	Yes		383.0
Long-Range	Summer	CFNDN	2023-07-29	622549	2	PaxLoc	Passenger	No	Yes		408.6
Long-Range	Summer	CFNDN	2023-07-31	623830	7	PaxLoc	Passenger	No	Yes		363.0
Long-Range	Summer	CFNDN	2023-07-31	623830	8	PaxLoc	Passenger	No	Yes		417.8
Long-Range	Summer	CFNDN	2023-08-03	626074	10	PaxLoc	Passenger	No	Yes		421.0
Long-Range	Summer	CFNDN	2023-08-03	626074	12	PaxLoc	Passenger	No	Yes		454.1
Long-Range	Summer	CFNDN	2023-08-04	626620	5	Medevac	Medevac	Yes	Yes	Emergency	384.3
Long-Range	Summer	CFNDN	2023-08-04	626620	6	Medevac	Medevac	Yes	Yes	Emergency	436.2
Long-Range	Summer	CFNDN	2023-08-05	627196	8	PaxLoc	Passenger	No	Yes		204.1
Long-Range	Summer	CFNDN	2023-08-05	627196	9	PaxLoc	Passenger	No	Yes		212.4
Long-Range	Summer	CFNDN	2023-08-09	629686	7	Wildlife	Passenger	Yes	Yes	Environmental Survey	127.4
Long-Range	Summer	CFNDN	2023-08-09	629686	8	Wildlife	Passenger	Yes	Yes	Environmental Survey	172.5
Long-Range	Summer	CFNDN	2023-08-10	630403	8	Wildlife	Passenger	Yes	Yes	Environmental Survey	101.3
Long-Range	Summer	CFNDN	2023-08-11	630904	10	Wildlife	Passenger	Yes	Yes	Environmental Survey	157.3
Long-Range	Summer	CFNDN	2023-08-11	630904	2	Wildlife	Passenger	Yes	Yes	Environmental Survey	111.6
Long-Range	Summer	CFNDN	2023-08-11	630904	3	Wildlife	Passenger	Yes	Yes	Environmental Survey	211.6
Long-Range	Summer	CFNDN	2023-08-11	630904	7	Wildlife	Passenger	Yes	Yes	Environmental Survey	90.9
Long-Range	Summer	CFNDN	2023-08-13	632167	11	Reposition	Slinging	Yes	Yes	Slinging	377.7
Long-Range	Summer	CFNDN	2023-08-13	632167	2	Reposition	Slinging	Yes	Yes	Slinging	395.2
Long-Range	Summer	CFNDN	2023-08-13	632167	4	Reposition	Slinging	Yes	Yes	Slinging	289.2
Long-Range	Summer	CFNDN	2023-08-13	632167	9	Reposition	Slinging	Yes	Yes	Slinging	325.3
Long-Range	Summer	CFNDN	2023-08-16	634648	13	Reposition	Slinging	Yes	Yes	Slinging	211.4
Long-Range	Summer	CFNDN	2023-08-16	634648	14	PaxLoc	Passenger	No	Yes		221.7
Long-Range	Summer	CFNDN	2023-08-17	635308	14	PaxLoc	Passenger	No	Yes		288.8
Long-Range	Summer	CFNDN	2023-08-17	635308	2	Reposition	Slinging	Yes	Yes	Slinging	220.2
Long-Range	Summer	CFNDN	2023-08-17	635308	5	Medevac	Passenger	Yes	Yes	Emergency	251.7
Long-Range	Summer	CFNDN	2023-08-17	635308	7	PaxLoc	Passenger	No	Yes		240.6
Long-Range	Summer	CFNDN	2023-08-18	635650	10	PaxLoc	Passenger	No	Yes		191.9
Long-Range	Summer	CFNDN	2023-08-18	635650	14	PaxLoc	Passenger	No	Yes		196.6
Long-Range	Summer	CFNDN	2023-08-18	635650	3	Ferry	Ferry	No	Yes		241.0
Long-Range	Summer	CFNDN	2023-08-18	635650	6	PaxLoc	Passenger	No	Yes		290.1
Long-Range	Summer	CFNDN	2023-08-19	636559	15	PaxLoc	Passenger	Yes	Yes	Weather	209.3
Long-Range	Summer	CFNDN	2023-08-19	636559	7	PaxLoc	Passenger	No	Yes		182.0
Long-Range	Summer	CFNDN	2023-08-20	637141	5	PaxLoc	Passenger	No	Yes		322.8
Long-Range	Summer	CFNDN	2023-08-20	637141	7	PaxLoc	Passenger	No	Yes		251.5
Long-Range	Summer	CFNDN	2023-08-21	637885	3	PaxLoc	Passenger	No	Yes		227.9
Long-Range	Summer	GCHZ	2023-08-22	638758	3	PaxLoc	Passenger	No	Yes		150.2
Long-Range	Summer	GCHZ	2023-08-22	638758	4	PaxLoc	Passenger	No	Yes		194.5
Long-Range	Summer	GCHZ	2023-08-23	639040	1	PaxLoc	Passenger	No	Yes		140.5
Long-Range	Summer	GCHZ	2023-08-23	639040	2	PaxLoc	Passenger	No	Yes		171.1

Flight Range	Season	Aircraft	Date	Flight Report Number	Flight Leg	Flight Code	Flight Type	Low Flight Permissible?	Mean Height Lower Than Restriction?	Comment Justification for Low Flight	Mean Height Above Ground (m)
Long-Range	Summer	GCHZ	2023-08-23	639040	3	PaxLoc	Passenger	No	Yes		174.5
Long-Range	Summer	GCHZ	2023-08-24	639928	1	PaxLoc	Passenger	No	Yes		153.6
Long-Range	Summer	GCHZ	2023-08-24	639928	4	Ferry	Ferry	No	Yes		215.5
Long-Range	Summer	GCHZ	2023-08-24	639928	5	PaxLoc	Passenger	No	Yes		198.5
Long-Range	Summer	CFNDN	2023-08-26	641476	1	PaxLoc	Passenger	No	Yes		127.1
Long-Range	Summer	CFNDN	2023-08-26	641476	2	PaxLoc	Passenger	No	Yes		188.5
Long-Range	Summer	UIT	2023-08-27	641932	8	PaxLoc	Passenger	No	Yes		296.6
Long-Range	Summer	UIT	2023-08-27	641932	9	PaxLoc	Passenger	No	Yes		344.0
Long-Range	Summer	BWN	2023-08-29	643210	1	Ferry	Ferry	Yes	Yes	Weather	263.1
Long-Range	Summer	BWN	2023-08-30	643837	2	Ferry	Ferry	No	Yes		332.2
Long-Range	Summer	BWN	2023-08-30	643837	5	Ferry	Ferry	No	Yes		329.7
Long-Range	Summer	AVH	2023-09-07	648415	1	PaxLoc	Passenger	Yes	Yes	Weather	90.0
Long-Range	Summer	AVH	2023-09-07	648415	2	PaxLoc	Passenger	Yes	Yes	Weather	233.4
Long-Range	Summer	AVH	2023-09-07	648415	3	PaxLoc	Passenger	Yes	Yes	Weather	115.6
Long-Range	Summer	AVH	2023-09-07	648415	6	PaxLoc	Passenger	Yes	Yes	Weather	100.2
Long-Range	Summer	AVH	2023-09-08	649151	1	Ferry	Ferry	Yes	Yes	Weather	99.8
Long-Range	Summer	AVH	2023-09-08	649151	6	PaxLoc	Passenger	No	Yes		202.8
Long-Range	Summer	AVH	2023-09-09	649648	1	Ferry	Ferry	No	Yes		254.1
Long-Range	Summer	AVH	2023-09-09	649648	5	PaxLoc	Passenger	No	Yes		109.0
Long-Range	Summer	AVH	2023-09-10	650200	10	Ferry	Ferry	No	Yes		278.8
Long-Range	Summer	AVH	2023-09-10	650200	2	Ferry	Ferry	No	Yes		283.1
Long-Range	Summer	AVH	2023-09-10	650200	3	PaxLoc	Passenger	No	Yes		223.5
Long-Range	Summer	AVH	2023-09-10	650200	4	Ferry	Ferry	No	Yes		193.8
Long-Range	Summer	AVH	2023-09-10	650200	7	Medevac	Medevac	Yes	Yes	Emergency	201.9
Long-Range	Summer	AVH	2023-09-10	650200	8	Medevac	Medevac	No	Yes		185.2
Long-Range	Summer	AVH	2023-09-10	650200	9	PaxLoc	Passenger	No	Yes		218.1
Long-Range	Summer	GCHZ	2023-09-11	650825	1	Ferry	Ferry	No	Yes		143.3
Long-Range	Summer	GCHZ	2023-09-11	650825	3	Slinging	Slinging	Yes	Yes		131.9
Long-Range	Summer	GCHZ	2023-09-11	650825	4	Ferry	Ferry	No	Yes		159.1
Long-Range	Summer	GCHZ	2023-09-11	650825	6	Ferry	Ferry	No	Yes		204.5
Long-Range	Summer	GCHZ	2023-09-12	651418	2	PaxLoc	Passenger	Yes	Yes	Weather	75.2
Long-Range	Summer	GCHZ	2023-09-21	656997	1	PaxLoc	Passenger	No	Yes		186.6
Long-Range	Summer	GCHZ	2023-09-21	656997	2	PaxLoc	Passenger	No	Yes		199.7
Long-Range	Fall	GCHZ	2023-09-22	657468	2	PaxLoc	Passenger	Yes	Yes	Weather	169.1
Long-Range	Fall	GCHZ	2023-09-22	657468	3	PaxLoc	Passenger	Yes	Yes	Weather	188.7
Long-Range	Fall	GCHZ	2023-09-23	658002	1	PaxLoc	Passenger	Yes	Yes	Weather	96.5
Long-Range	Fall	GCHZ	2023-09-23	658002	4	PaxLoc	Passenger	Yes	Yes	Weather	178.3
Long-Range	Fall	GCHZ	2023-09-24	658434	1	PaxLoc	Passenger	Yes	Yes	Smoke	298.2
Long-Range	Fall	GCHZ	2023-09-24	658434	2	PaxLoc	Passenger	Yes	Yes	Smoke	223.8
Long-Range	Fall	GCHZ	2023-09-25	659187	2	Medevac	Passenger	Yes	Yes	Emergency\Weather	382.5
Long-Range	Fall	GCHZ	2023-09-25	659187	3	Ferry	Ferry	Yes	Yes	Weather	336.7

APPENDIX F

Caribou Migration Memo

TECHNICAL MEMORANDUM

DATE October 11, 2023 **Reference No.** 21502960-590-TM-Rev1

TO Eric Haley
Agnico Eagle Mines Limited

CC Charity Beres, Jennifer Foca

FROM Dan Coulton, Corey De La Mare **EMAIL Daniel.Coulton@wsp.com**

UPDATED CARIBOU MIGRATION TIMING WITH THE WHALE TAIL HAUL ROAD AND ALL-WEATHER ACCESS ROAD

1.0 INTRODUCTION

Meadowbank Mine (Mine) implements a Terrestrial Ecosystem Management Plan (TEMP) to protect caribou from Mine-related effects including safe passage across the Whale Tail Haul Road (WTHR) and the All-weather Access Road (AWAR) at all times but particularly during spring and fall migration seasons. The Government of Nunavut (GN) has defined seasonal migrations as occurring from April 1 to May 25 for spring and September 22 to December 15 for fall (Agnico Eagle 2019). The road-related mitigation of the TEMP includes use of partial and full road closures and convoys. The WTHR and AWAR closure mitigation is currently triggered by exceedance of a caribou group size threshold (GST), which requires monitoring and recording of caribou group size observations to assess against the threshold.

The TAG and Mine are currently evaluating alternate ways to successfully protect caribou while maintaining operational safety. For example, the Mine previously proposed the use of a cap and pulse system where the cap is a maximum number of days roads will be closed and the pulse represents alternative mitigations such as convoys. More recently, the Kivalliq Inuit Association (KivIA) has recommended alternative timing of closures that allow the lead caribou to move through more easily as suggested by Inuit Qaujimajatuqangit (IQ) holders. One approach that may address the uncertainty of when road closures would occur includes if the fall and spring migrations through the Mine are annually predictable. If so, then road closures could be scheduled to occur at certain times of the year when they maximize the intended benefit to caribou.

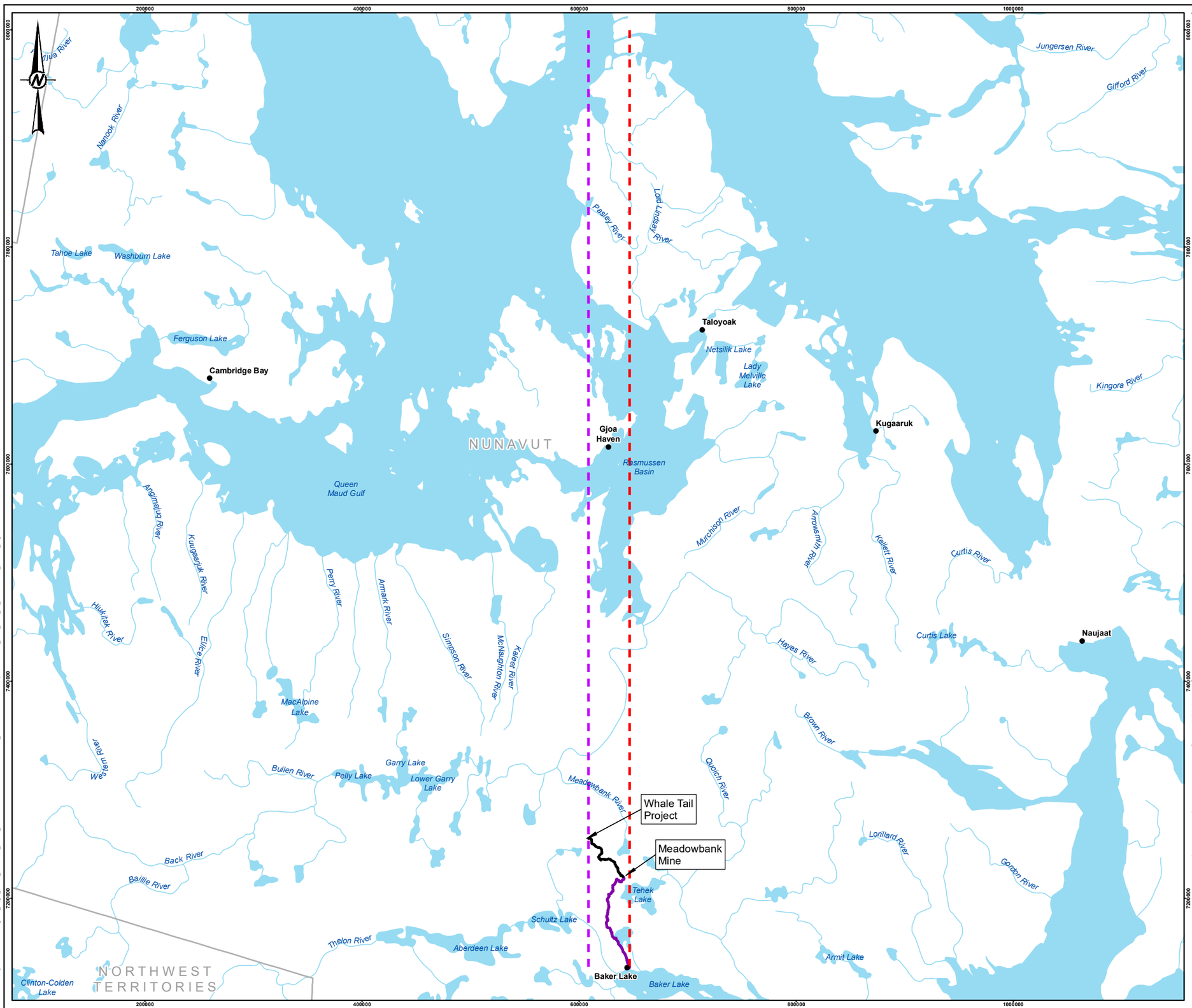
WSP Canada Inc. (WSP) previously completed an analysis of the Lorillard caribou migration timing through the Mine, WTHR, and AWAR during spring and fall seasons, obtained from telemetry data collected from 2005−2019 (Golder 2021).The previous analysis focused on the Lorillard herd, as according to the environmental assessment of the Whale Tail Project, this herd has the greatest potential to interact with the Mine, WTHR, and AWAR during spring and fall seasons (Golder 2017). The analysis aimed to determine if the fall and spring migrations through the Mine are annually predictable. If migration dates are predictable, the predicted timing of migration could be used to inform mitigation planning and the timing of road closures during sensitive seasons (i.e., spring and fall migration). Recommendations from the KivIA, including removal of years with three or fewer collared caribou were incorporated into the analysis (Gunn and Poole 2021). The results for spring migration indicated that annual timing of caribou migration through the Mine and roads area was relatively consistent (i.e., predictable) across years. Pre-defined seasonal migration periods were buffered by an additional 7 to 10 days to maximize the number of migration trajectories used in the analysis. Movement trajectories occurring March 31 to June 6

(inclusive) were considered spring migration, and buffered movement trajectories occurring September 1 to December 31 (inclusive) were considered fall migration.

The mean spring migration date was May 1 over all years. Across years, 96% individuals on average migrated through the Mine area over a period of 25 days (mean of annual 2 standard deviations). Early (September 1 to October 17) and late (October 18 to December 1) fall periods were defined. Fall migration was more variable than spring migration and, in 78% of years (7 of 9 years), caribou moved through the Mine area during the late fall period beginning October 18. The mean date of late fall migration was November 8 over all years. Across years, 96% individuals on average migrated through the Mine area over a period of 7 days (mean of annual two standard deviations) during late fall.

Telemetry collars are typically deployed so that collared animals represent a herd (i.e., semi-random deployment), which is important for herd management and conservation. Collars provide the location of animals based on fix frequencies to satellites that may occur up to multiple times in a day (e.g., up to every 4 hours or 6 fixes per day). It is possible to measure the distribution of dates of collared caribou migrated through the Mine and roads area on an annual basis. Comparison of distributions among years make it possible to determine whether the timing of caribou migration through the Mine and roads area is annually predictable. The distribution of collar data can also be compared to the distribution of ground counts (e.g., road and viewshed surveys) of caribou groups monitored for road closure.

Agnico Eagle requested an update of the analysis using the most recent telemetry data provided from the GN, current to 28 March 2023. The updated analysis includes individuals that interacted with spring and fall migration reference lines. The update included individuals were from the Ahiak, Beverly, Lorillard, Qamanirjuaq, and Wager Bay herds, as well as individuals not yet assigned to a herd and marked as Northeast Mainland (NEM) in the data (Figure 1). The first objective of this analysis was to determine whether timing of migration through the Mine area is predictable during spring and fall based on telemetry data. The second objective was to explore relationships between collared caribou distribution and patterns in observed abundances of caribou-based group sizes from ground counts. If migration through the Mine area is predictable, the predicted timing of migration could be used to inform the timing of road closures during periods most beneficial to caribou, rather than using the current GST approach. The analysis undertaken was of exploratory nature.



LEGEND

- POPULATED PLACE
- SPRING MIGRATION REFERENCE LINE
- FALL MIGRATION REFERENCE LINE
- ALL WEATHER ACCESS ROAD
- HAUL ROAD
- WATERCOURSE
- WATERBODY
- PROVINCIAL AND TERRITORIAL BOUNDARY

0 70 140
1:3,500,000 KILOMETRES

REFERENCE(S)

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2. HAUL ROAD AND ALL WEATHER ACCESS ROAD OBTAINED FROM AEM.

COORDINATE SYSTEM: NAD 1983 CSRS UTM ZONE 14N

CLIENT

AGNICO EAGLE

AGNICO EAGLE MINES LIMITED:
MEADOWBANK DIVISION

PROJECT

WHALE TAIL PROJECT

TITLE

FALL AND SPRING MIGRATION REFERENCE LINES USED FOR MEADOWBANK CARIBOU MIGRATION ANALYSES

CONSULTANT

wsp

YYYY-MM-DD	2023-08-25
DESIGNED	MB
PREPARED	LH
REVIEWED	DC
APPROVED	CDLM

PROJECT NO.	PHASE	REV.	FIGURE
21502960	8000/8010	0	1

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2.0 METHODS

Two north-south reference lines were placed along and beyond the WTHR and AWAR to maximize the number of collared movements (i.e., animals that do and do not interact with the WTHR and AWAR). The WTHR and AWAR do not have a straight north-south alignment and therefore cannot be used to standardize the timing of migration. In contrast, a straight north-south reference line does standardize timing because it occurs at the same point in space regardless of where a caribou encounters it. One north-south reference line was placed at the most western point of the WTHR and AWAR, north of Baker Lake, to capture migration of caribou from western wintering grounds to eastern calving grounds (i.e., the spring reference line; Figure 1). A second north-south reference line was placed at the most eastern point of the WTHR and AWAR, north of Baker Lake, to capture migration of caribou from eastern summering range to western wintering grounds (i.e., the fall reference line; Figure 1).

Caribou movement trajectories were estimated between subsequent telemetry locations, then trajectories were separated based on a unique caribou identifier (caribou ID), year, and season. Pre-defined seasonal migration periods were buffered by an additional 7 to 10 days to maximize migration trajectories and the number of reference line interaction dates; buffered dates were used to define movement trajectories occurring during spring and fall migration. Buffered movement trajectories occurring March 31 to June 6 (inclusive) were considered spring migration, and buffered movement trajectories occurring September 1 to December 31 (inclusive) were considered fall migration. For each spring trajectory, dates of intersection with the spring reference line were predicted; fall dates of intersection were predicted for fall trajectories using the fall reference line. Dates of intersection were predicted based on the average of the date and time of telemetry locations on either side of the reference line.

Individuals with a minimum fix rate (i.e., time between subsequent locations) greater than 24 hours were not included in the analysis. In addition, fixes less than 5 minutes apart were removed due to the uncertainty associated with these positions. If individuals crossed reference lines prior to buffered seasonal date ranges (i.e., March 31 in spring and September 1 in fall), they were not included in analysis. When a trajectory intersected with a reference line more than once during a season, the earliest date of intersection followed by westward movement in fall, or eastward movement in spring was used. Intersection dates (i.e., the standardized timing of migration) were stratified by caribou ID, year, and season. Since mitigation (e.g., road closure) is applied to all caribou regardless of herd, data from all herds were pooled by year. Analyses were not completed separately for each herd that interacted with spring or fall reference lines. For clarity, the intersection dates are not intended to represent the beginning, middle, or end of caribou migration but rather provide a standardized date that describes when caribou are moving through a specific place during migration.

To meet the first objective of this analysis, inter-annual variation in migration trends was assessed visually. To facilitate visual comparison of migration trends, probability density plots were created. Probability density plots can be interpreted similarly to histograms in that both plots display the general shape and spread of continuous data, except probability density plots represent the probability of obtaining the range of values represented on the x-axis and histograms represent the frequency of x-axis values obtained (Figure 2). In this case, the x-axis reflects the date values of intersection with reference lines for the spring and fall migrations of collared caribou.

The KivIA have highlighted the importance of protecting migratory leaders (i.e., the first wave of individuals interacting with reference lines) for preserving natural migratory patterns among caribou herds. Because fall migration appeared to be multimodal (i.e., caribou interacted with the fall reference line in multiple waves), the fall season was split into an early and late period, and inter-annual variation in fall migration was considered for each period separately. Migrations by leading caribou were, therefore, considered in early fall. Start and end dates for early and late fall periods were determined by visually assessing telemetry data collected from 2004 to 2022, for years with n ≥4 caribou. Previously defined early and late fall date ranges were used (Golder 2021). Therefore, interactions with the fall reference line occurring September 1 to October 17 were considered early fall and interactions occurring October 18 to December 1 were considered late fall.

Inter-annual variation in migration trends was also estimated using linear mixed-effects models, where caribou ID was included as a random intercept to account for correlated migration behaviour of the same animal, and year was included as a fixed effect. If the effect of year was significant, post-hoc comparisons were completed between pairs of years using ANOVA to determine statistically significant differences in migration trends over time. Adjusted *p*-values are reported to account for multiple testing. All statistical analyses were implemented in *R* (R Core Team 2023) using the *glmmTMB* (Brooks et al. 2017), and *emmeans* (Lenth 2023) packages.

To address the second objective of this analysis, ground observations of caribou groups from 2018 to 2023 were compared with seasonal migration trends obtained from telemetry data from these years to determine whether similar migration timings were obtained. Given the proximity of the reference lines to Mine roads, the telemetry and ground observations are comparable because they are measuring approximately the timing of caribou movements through the roads area. Years from 2018 onwards were selected for these comparisons because substantial effort was allocated to ground-based caribou surveys in these years, and because the WTHR construction ceased in 2018. Lastly, the dates when 50% of caribou had completed migration were estimated and compared between ground observations and telemetry data for 2018 to 2023.

KivIA proposed that annual variations in traffic and road closures may have contributed to annual variations in timing of migration (Gunn and Poole 2021). In response, an additional analysis was completed to assess the effect of WTHR construction on spring and fall migration patterns. Migration data collected before 2018 were pooled into ‘pre-WTHR’ and data collected from 2018 onwards were pooled into ‘post-WTHR’, by season and period. Variation in migration trends pre- and post-WTHR were tested using a mixed effects model with season and period as the fixed effects, and year and caribou ID included as random intercepts; type II *p*-values were used in the analysis.

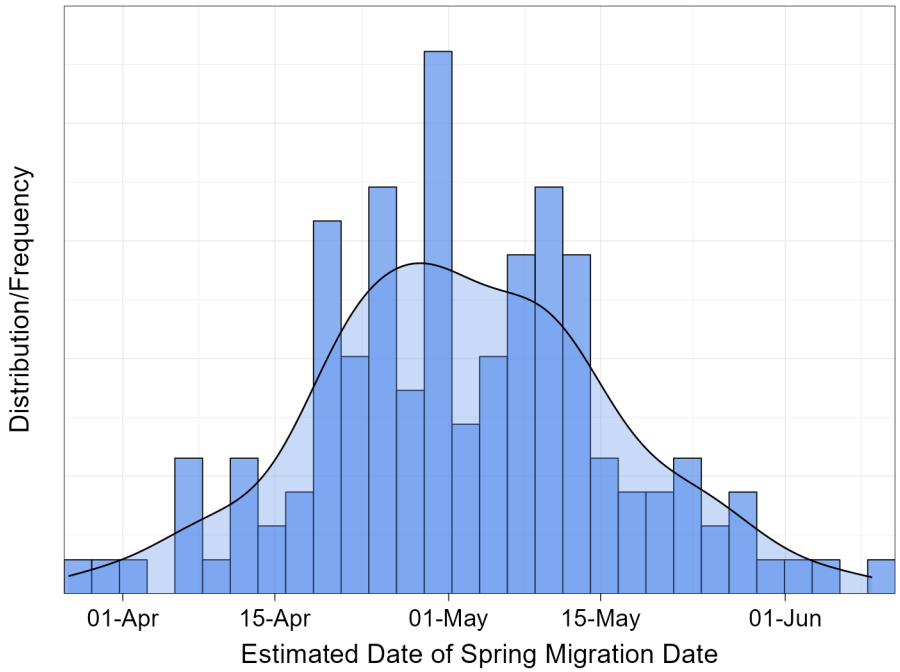
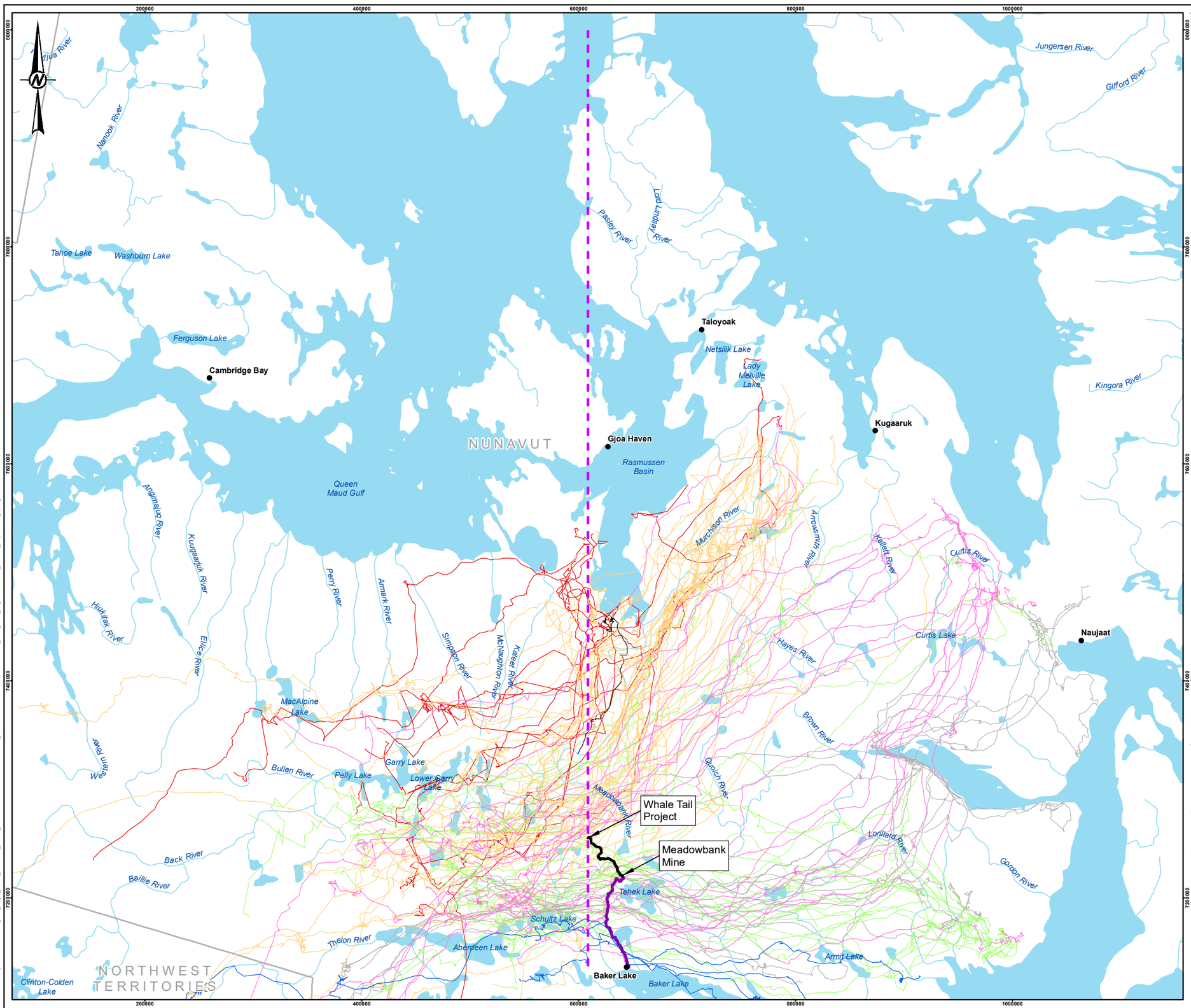


Figure 2: Probability density plot (translucent smoothed curve) and histogram plot (teal bars) depicting the shape and spread of continuous spring migration data. The probability density plot represents the continuous probability of obtaining the range of spring migration dates whereas the histogram plot represents the frequency of spring migration dates obtained. This figure was simulated as an example and does not depict any particular year of spring migration data.

3.0 RESULTS

The individual tracklines and interactions with the AWAR/WTHR roads are shown in Figure 3 (spring migration) and Figure 4 (fall migration).



LEGEND

- POPULATED PLACE
- SPRING MIGRATION REFERENCE LINE

SPRING TRAJECTORIES (2005-2023)

- AHIAK
- BEVERLY
- LORILLARD
- NEM
- QAMANIRJUAQ
- UNKNOWN
- WAGER BAY
- ALL WEATHER ACCESS ROAD
- HAUL ROAD
- WATERCOURSE
- WATERBODY
- PROVINCIAL AND TERRITORIAL BOUNDARY

REFERENCE(S)

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2. HAUL ROAD AND ALL WEATHER ACCESS ROAD OBTAINED FROM AEM.

COORDINATE SYSTEM: NAD 1983 CSRS UTM ZONE 14N

CLIENT

AGNICO EAGLE

AGNICO EAGLE MINES LIMITED: MEADOWBANK DIVISION

PROJECT

WHALE TAIL PROJECT

TITLE

SPRING MIGRATION REFERENCE LINE AND TRAJECTORIES USED FOR MEADOWBANK CARIBOU MIGRATION ANALYSES (2005-2023)

CONSULTANT

wsp

YYYY-MM-DD	2023-08-23
DESIGNED	SW
PREPARED	CDB
REVIEWED	DC
APPROVED	CDLM

PROJECT NO.	PHASE	REV.	FIGURE
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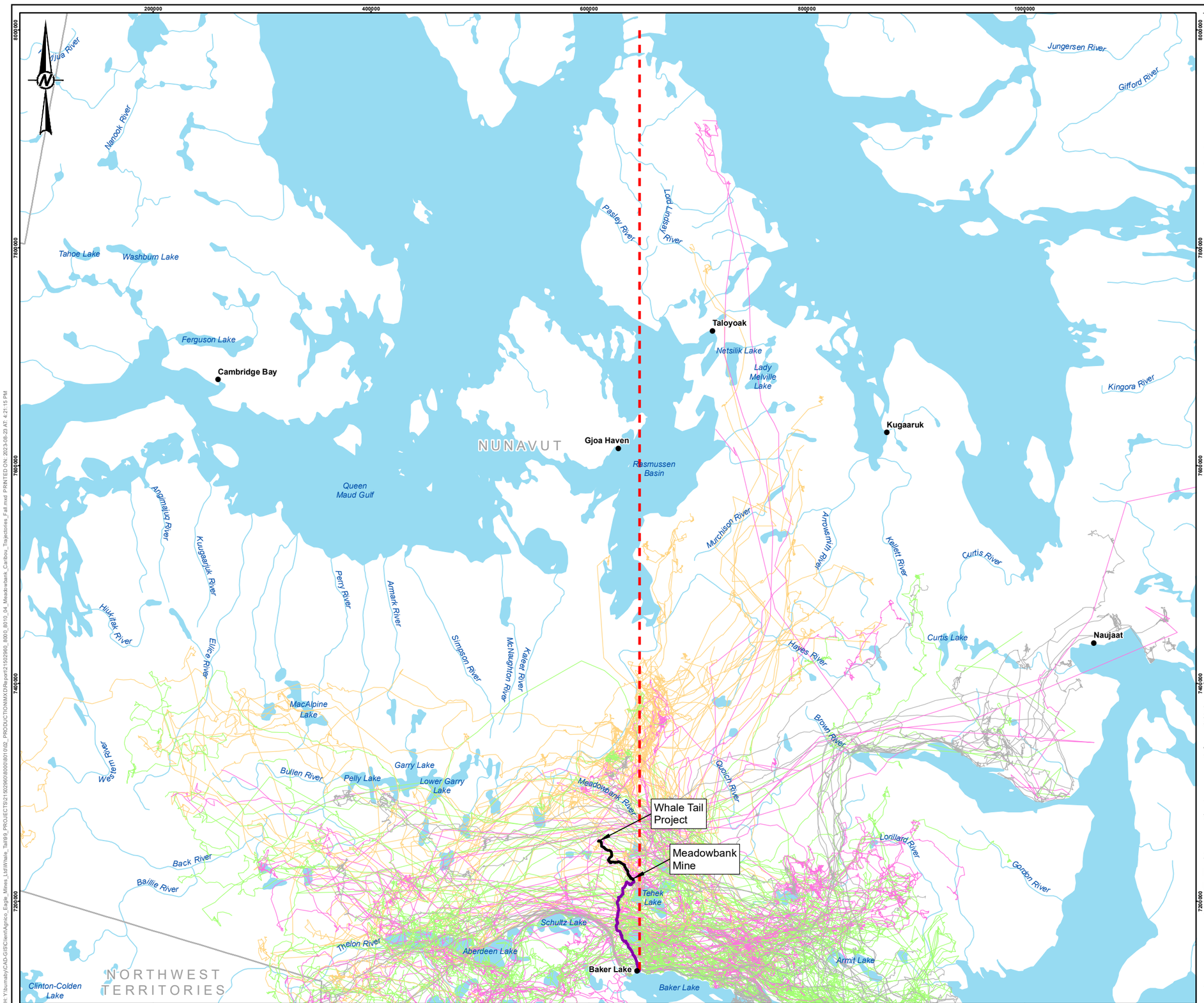

LEGEND

- POPULATED PLACE
- FALL MIGRATION REFERENCE LINE

FALL TRAJECTORIES (2003-2022)

- AHIAK
- LORILLARD
- NEM
- WAGER BAY
- ALL WEATHER ACCESS ROAD
- HAUL ROAD
- WATERCOURSE
- WATERBODY
- PROVINCIAL AND TERRITORIAL BOUNDARY

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COORDINATE SYSTEM: NAD 1983 CSRS UTM ZONE 14N

CLIENT

AGNICO EAGLE

AGNICO EAGLE MINES LIMITED: MEADOWBANK DIVISION

PROJECT

WHALE TAIL PROJECT

TITLE

FALL MIGRATION REFERENCE LINE AND TRAJECTORIES USED FOR MEADOWBANK CARIBOU MIGRATION ANALYSES (2003-2022)

CONSULTANT

wsp

YYYY-MM-DD	2023-08-23
DESIGNED	SU
PREPARED	CDB
REVIEWED	DC
APPROVED	CDLM

PROJECT NO.	PHASE	REV.	FIGURE
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The sample size of individuals by season, year, and herd are provided in Table 1. Across all years, the Ahiak herd had greatest number of interactions with the spring reference line (n = 53), followed by Lorillard (n = 26), and the Lorillard herd had the greatest number of interactions with the fall reference line (n = 59), followed by Wager Bay herd (n = 36). Four individuals from the Qamanirjuaq herd interacted with the spring reference line in 2018, and two caribou from the Beverly herd interacted with the fall reference line (one collar in 2012 and 2014 each). Caribou that have not been assigned to a herd (NEM herd designation) were only documented in fall 2022 (21 individuals) and spring 2023 (14 individuals).

Table 2 summarizes mean spring migration dates, with associated sample sizes and standard deviations, obtained from telemetry data from 2005 to 2023. Figure 5 displays migration dates for years with *n* ≥4 caribou. Standard deviations represent the spread and variation of data, assuming a normal distribution; one standard deviation represents 67% of the data and two standard deviations represent 96% of the data. Standard deviations were not provided for years in which *n* = 1 (i.e., a sample size of one caribou interaction was available).

The estimated mean date of spring migration pooled across all years with n ≥4 caribou was May 1 (Table 2; Figure 5). With a standard deviation of 16 days, the period encompassing mean ±1 SD (covering 67% of spring migrations, assuming a normal distribution) extended between April 15 and May 17. The period encompassing mean ±2 SD (covering 96% of spring migrations, assuming a normal distribution) extended between March 29 and June 2 (Table 2; Figure 5). From years with *n* ≥4 caribou, the earliest mean spring migration date occurred in 2020 (April 19) and the latest mean spring migration date occurred in 2021 (May 21; Table 2; Figure 5). Standard deviations of spring migration from years with *n* ≥4 caribou were relatively wide, ranging from 7 to 24 days. Wider spring migration date ranges than seen in the previous analysis may be related to inclusion of all herds, whereas the previous analysis only included the Lorillard herd (Golder 2021).

Spring migration distributions differed significantly across all years ($\mathcal{X}^2 = 32.76$, *df* = 11, $p < 0.001$), based on linear mixed-effects model with earliest spring migration date by individual as the response variable (n = 127 observations). However, when Tukey contrasts were completed among pairs of years (Table 1 of Attachment 1), only two pairwise year comparison differed significantly (2017 compared to 2010 and 2020). The difference between these 2017 and 2010 was 27.8 days, and the difference between 2017 and 2020 was 27.4 days. Spring migration distributions did not vary pre- and post-WTHR construction ($\mathcal{X}^2 = 0.543$, *df* = 1, $p = 0.46$).

The date at which approximately 50% of caribou counted during each year's ground observations had been recorded during the spring, ranged from April 19 (2018) to April 29 (2021; Figure 6). The average migration date based on telemetry data ranged from April 18 (2020) to May 16 (2022). The largest difference between the average date of spring migration from telemetry, and the date when approximately 50% of caribou counted during each year's ground observations had been recorded during the spring, was 25 days (2022; Figure 6). The smallest difference in migration timing estimated from the two methods was 3 days, observed in 2020 and 2023 (Figure 6).

The distribution of fall migration dates prior to separating data into early and late fall periods was highly variable in years with n ≥4 caribou (Figure 7). The mean date of fall migration calculated based on all 14 years with n ≥4 caribou was October 19 (Figure 7). With a standard deviation of 29 days, the period encompassing mean ±1 SD (covering 67% of fall migrations, assuming a normal distribution) extended between September 19 and November 17. The period encompassing mean ±2 SD (covering 96% of fall migrations, assuming a normal distribution) extended between August 21 and December 16 (Figure 7).

To reduce variability, the fall distributions were spilt into early and late fall periods for the 14 years with n ≥4 caribou (Figure 8). The estimated date of early fall migration pooled across the seven years with n ≥4 caribou was September 18 (Figure 8). With a standard deviation of 12 days, the period encompassing mean ±1 SD (covering 67% of early fall migrations, assuming a normal distribution) extended between September 06 and September 30. The period encompassing mean ±2 SD (covering 96% of early fall migrations, assuming a normal distribution) extended between August 25 and October 12 (Table 3; Figure 8). The estimated date of late fall migration pooled across the nine years with n ≥4 caribou was November 10 (Figure 8). With a standard deviation of 13 days, the period encompassing mean ±1 SD (covering 67% of late fall migrations, assuming a normal distribution) extended between October 28 and November 23. The period encompassing mean ±2 SD (covering 96% of late fall migrations, assuming a normal distribution) extended between October 15 and December 6. Linear mixed-effects models to test differences in migration timing, where earliest migration date by individual was the response variable, could not be estimated for early fall (n = 54 observations) due to model convergence issues. Late fall migration distributions differed significantly across all years ($\chi^2 = 194.1$, $df = 8$, $p < 0.001$), based on linear mixed-effects model with earliest early fall migration date by individual as the response variable (n = 68 observations, after removal of 2 statistical outliers from 2010). Tukey contrasts were completed among pairs of years (Table 2 of Attachment 1), and a total of 25 out of the performed 36 pairwise year comparisons differed significantly. Overall, 2004, 2017, and 2019 had significantly earlier late fall migrations, while 2010, 2013, and 2015 had significantly later late fall migrations. Models for comparison of early and late fall migration distributions pre- and post-WTHR construction could not be completed due to lack of convergence.

Comparisons between telemetry data and ground observations are presented for the fall season as a whole, and not split into early and late fall periods. The date at which approximately 50% of caribou counted during each year's ground observations had been recorded during the fall, ranged from October 12 (2018) to December 9 (2021; Figure 9). The average migration date based on telemetry data ranged from September 22 (2018) to November 5 (2022). The largest difference between the average date of spring migration from telemetry, and the date when approximately 50% of caribou had migrated across the spring reference line based on road survey data was 49 days (2021; Figure 9). The smallest difference in migration timing estimated from the two methods was 5 days, observed in 2022 (Figure 9).

Table 1: Number of individuals by caribou herd that interacted with spring and fall reference lines by year (only years with at least one interaction are shown).

Year	Season	Ahiak	Beverly	Lorillard	NEM	Qamanirjuaq	Wager Bay	Total
2003	fall	0	0	1	0	0	0	1
2004	fall	0	0	3	0	0	4	7
2005	spring	0	0	1	0	0	0	1
2008	fall	3	0	0	0	0	0	3
2009	spring	3	0	0	0	0	0	3
	fall	2	0	0	0	0	0	2
2010	spring	13	0	0	0	0	1	14
	fall	10	0	0	0	0	1	11
2011	spring	5	0	0	0	0	0	5
	fall	5	0	7	0	0	2	14
2012	spring	4	0	4	0	0	1	9
	fall	3	1	4	0	0	0	8
2013	spring	2	4	1	0	0	0	7
	fall	1	0	5	0	0	0	6
2014	spring	0	1	1	0	0	1	3
	fall	0	1	2	0	0	1	4
2015	spring	1	0	0	0	0	1	2
	fall	1	0	4	0	0	3	8
2016	spring	1	2	3	0	0	3	9
	fall	1	0	3	0	0	5	9
2017	spring	1	5	0	0	0	1	7
	fall	1	0	6	0	0	3	10
2018	spring	3	1	4	0	3	3	14
	fall	1	0	15	0	0	8	24
2019	spring	4	1	6	0	0	7	18
	fall	3	0	3	0	0	3	9
2020	spring	3	0	1	0	0	3	7
	fall	1	0	4	0	0	5	10
2021	spring	1	0	4	0	0	3	8
	fall	1	0	2	0	0	1	4
2022	spring	2	1	1	0	0	0	4
	fall	0	0	0	21	0	0	21
2023	spring	10	0	0	14	1	0	25

Table 2: Mean spring caribou migration dates, and associated sample sizes (n), date ranges for standard deviations, and widths of standard deviation. Distributions associated with these data are visually presented in Figure 3.

Year	Sample Size (*n*)	Mean Date of Spring Migration	One Standard Deviation (# of Days)	+/- One Standard Deviation (Dates)	+/- Two Standard Deviations (Dates)
2005	1	21-Apr	*N/A*	*N/A*	*N/A*
2009	3	19-Apr	21	29-Mar - 10-May	08-Mar - 31-May
2010	14	24-Apr	19	05-Apr - 13-May	17-Mar - 01-Jun
2011	5	02-May	20	12-Apr - 22-May	23-Mar - 11-Jun
2012	9	07-May	8	29-Apr - 15-May	21-Apr - 23-May
2013	7	06-May	17	19-Apr - 23-May	02-Apr - 09-Jun
2014	3	06-May	10	26-Apr - 16-May	16-Apr - 26-May
2015	2	05-May	18	17-Apr - 23-May	30-Mar - 10-Jun
2016	9	27-Apr	7	20-Apr - 04-May	13-Apr - 11-May
2017	7	21-May	10	11-May - 31-May	01-May - 10-Jun
2018	14	05-May	15	20-Apr - 20-May	05-Apr - 04-Jun
2019	18	29-Apr	14	15-Apr - 13-May	01-Apr - 27-May
2020	7	19-Apr	12	07-Apr - 01-May	26-Mar - 13-May
2021	8	07-May	17	20-Apr - 24-May	03-Apr - 10-Jun
2022	4	16-May	24	22-Apr - 09-Jun	29-Mar - 03-Jul
2023	25	25-Apr	14	11-Apr - 09-May	28-Mar - 23-May

N/A = not applicable; value could not be calculated due to low sample size.

Table 3: Mean early and late fall caribou migration dates, and associated sample sizes (*n*), date ranges for standard deviations, and widths of standard deviations. Distributions associated with these data are visually presented in Figure 6.

Year	Period	Sample Size (*n*)	Mean Date of Migration	One Standard Deviation Width (# of Days)	+/- One Standard Deviation (Dates)	Two Standard Deviation Width (# of Days)
2008	Early	3	07-Oct	10	27-Sep - 17-Oct	17-Sep - 27-Oct
2009		2	04-Oct	14	20-Sep - 18-Oct	06-Sep - 01-Nov
2010		6	16-Sep	11	05-Sep - 27-Sep	25-Aug - 08-Oct
2011		4	25-Sep	16	09-Sep - 11-Oct	24-Aug - 27-Oct
2012		4	03-Oct	16	17-Sep - 19-Oct	01-Sep - 04-Nov
2013		1	06-Sep	*N/A*	*N/A*	*N/A*
2014		1	11-Sep	*N/A*	*N/A*	*N/A*
2015		2	24-Sep	19	05-Sep - 13-Oct	17-Aug - 01-Nov
2016		8	25-Sep	11	14-Sep - 06-Oct	03-Sep - 17-Oct
2017		1	13-Oct	*N/A*	*N/A*	*N/A*
2018		21	13-Sep	7	06-Sep - 20-Sep	30-Aug - 27-Sep
2019		4	21-Sep	20	01-Sep - 11-Oct	12-Aug - 31-Oct
2020		7	13-Sep	4	09-Sep - 17-Sep	05-Sep - 21-Sep
2021		2	28-Sep	1	27-Sep - 29-Sep	26-Sep - 30-Sep
2022		2	23-Sep	14	09-Sep - 07-Oct	26-Aug - 21-Oct
2003	Late	1	21-Oct	*N/A*	*N/A*	*N/A*
2004		7	26-Oct	4	22-Oct - 30-Oct	18-Oct - 03-Nov
2010		5	16-Nov	26	21-Oct - 12-Dec	25-Sep - 07-Jan
2011		10	12-Nov	11	01-Nov - 23-Nov	21-Oct - 04-Dec
2012		4	16-Nov	0	16-Nov - 16-Nov	16-Nov - 16-Nov
2013		5	28-Nov	7	21-Nov - 05-Dec	14-Nov - 12-Dec
2014		3	21-Nov	3	18-Nov - 24-Nov	15-Nov - 27-Nov
2015		6	23-Nov	1	22-Nov - 24-Nov	21-Nov - 25-Nov
2016		1	14-Dec	*N/A*	*N/A*	*N/A*
2017		9	30-Oct	2	28-Oct - 01-Nov	26-Oct - 03-Nov
2018		3	20-Nov	3	17-Nov - 23-Nov	14-Nov - 26-Nov
2019		5	29-Oct	5	24-Oct - 03-Nov	19-Oct - 08-Nov
2020		3	04-Nov	9	26-Oct - 13-Nov	17-Oct - 22-Nov
2021		2	13-Nov	17	27-Oct - 30-Nov	10-Oct - 17-Dec
2022		19	10-Nov	8	02-Nov - 18-Nov	25-Oct - 26-Nov

N/A = not applicable; value could not be calculated due to low sample size.

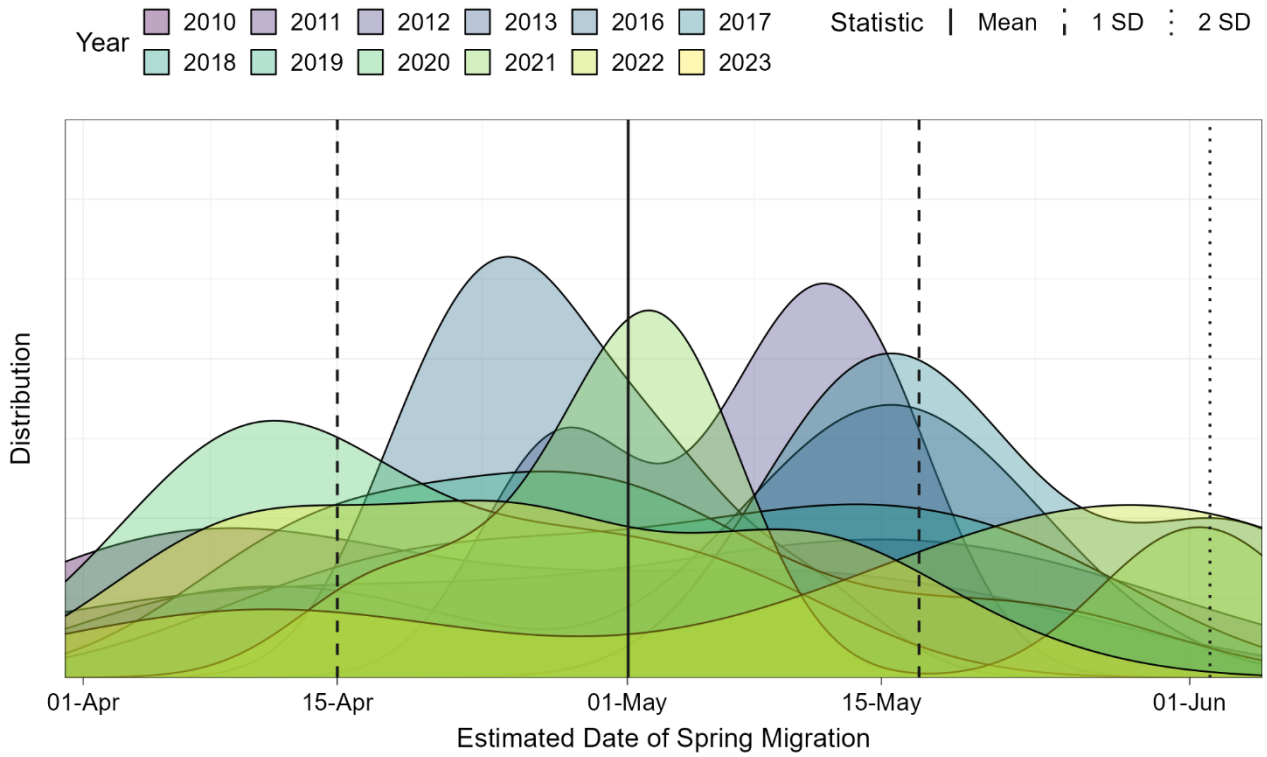

Figure 5: Distribution of estimated spring migration dates based on caribou telemetry data. Data were constrained to years with *n* ≥4 caribou. Vertical lines indicate the mean spring migration date across all years (May 1), and the ±1 SD (dashed) and ±2 SD dates (dotted). Mean spring migration dates, sample sizes, and standard deviations for these data are summarized by year in Table 2.

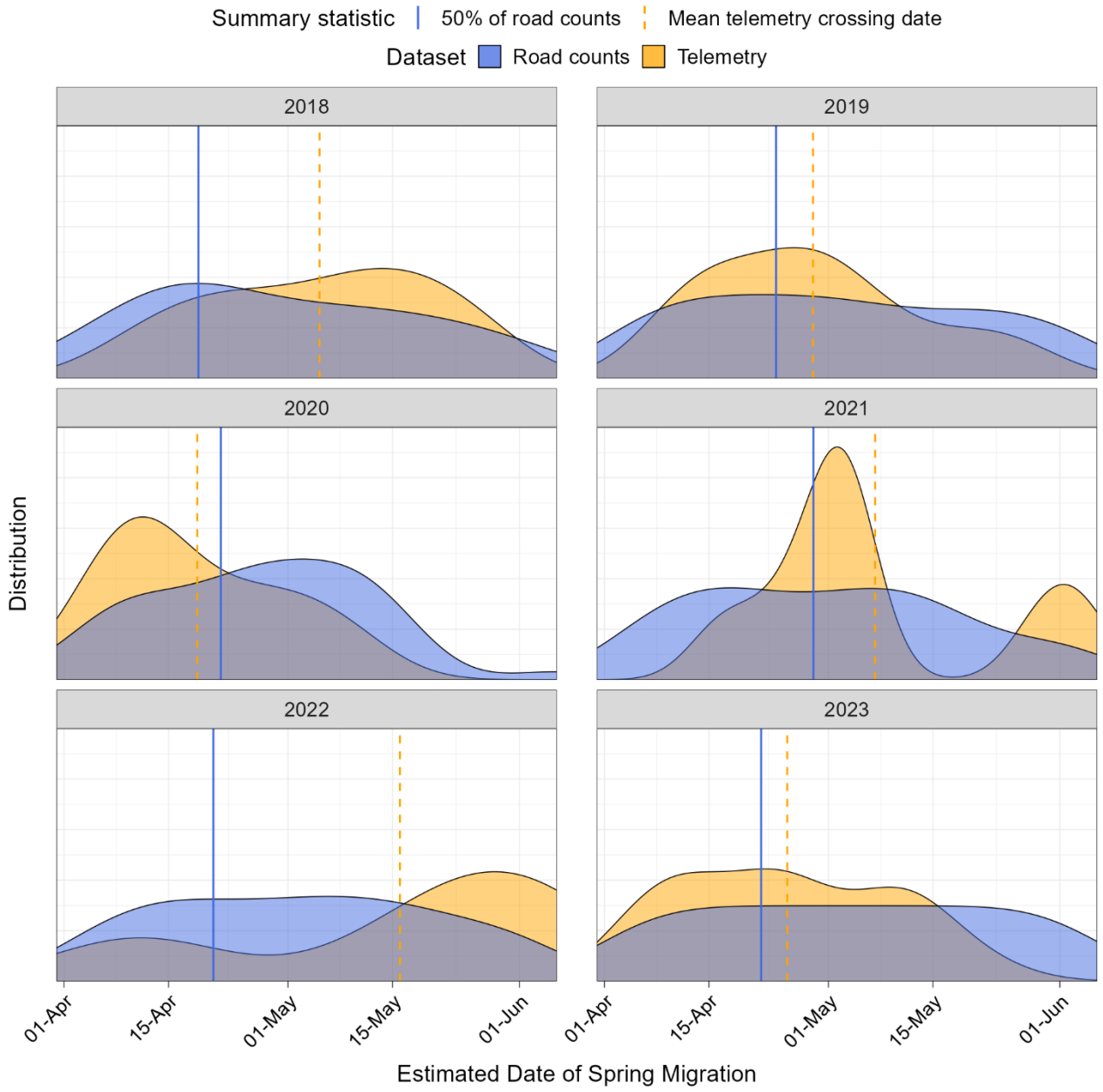

Figure 6: Comparison of spring migration dates based on ground observations and telemetry data from 2018 to 2023. Probability density plots depict the estimated distribution of spring migration per year from telemetry and road data. Vertical lines indicate the date at which 50% of caribou were estimated to have completed spring migration (road counts) and the average date of spring migration (telemetry data).

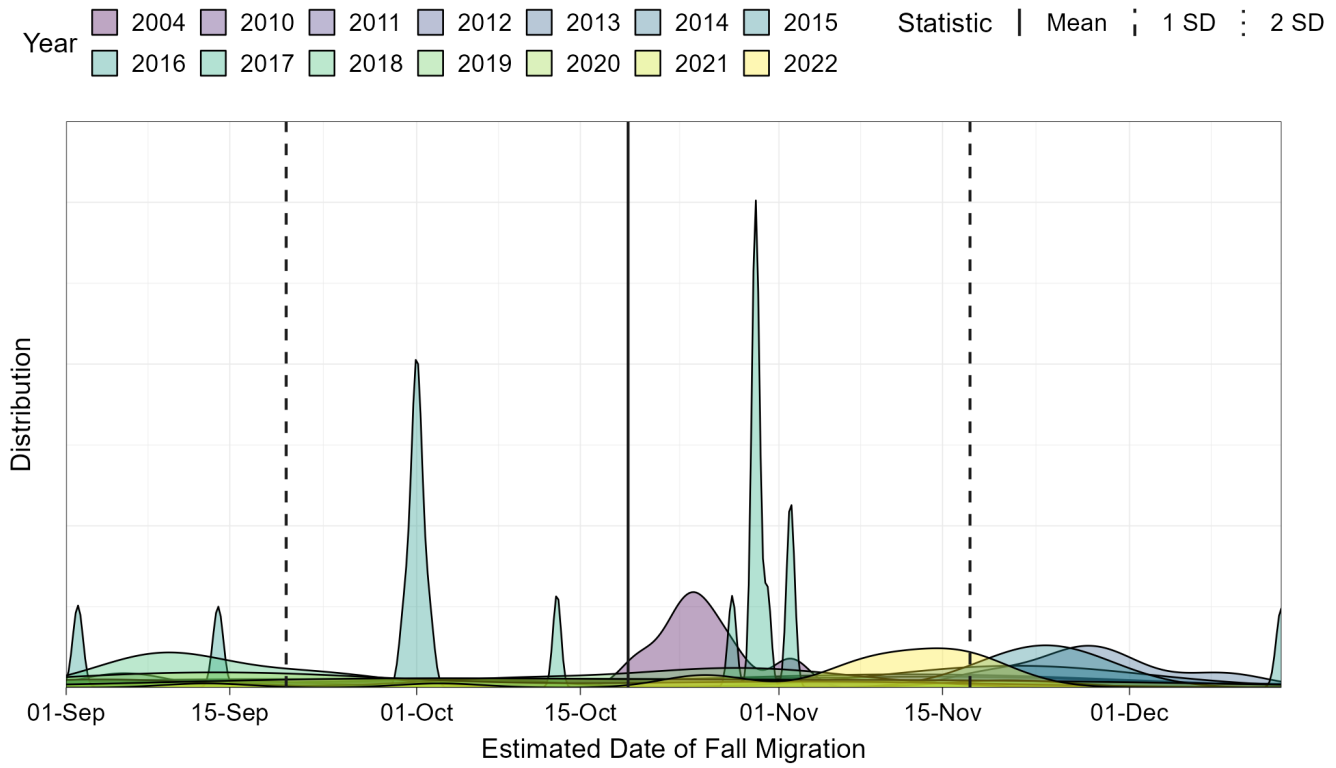

Figure 7: Distribution of estimated dates of fall migration based on caribou telemetry data. Data were constrained to years with *n* ≥4 caribou. Vertical lines indicate the mean spring migration date across all years (May 1), and the ±1 SD (dashed) and ±2 SD dates (dotted).

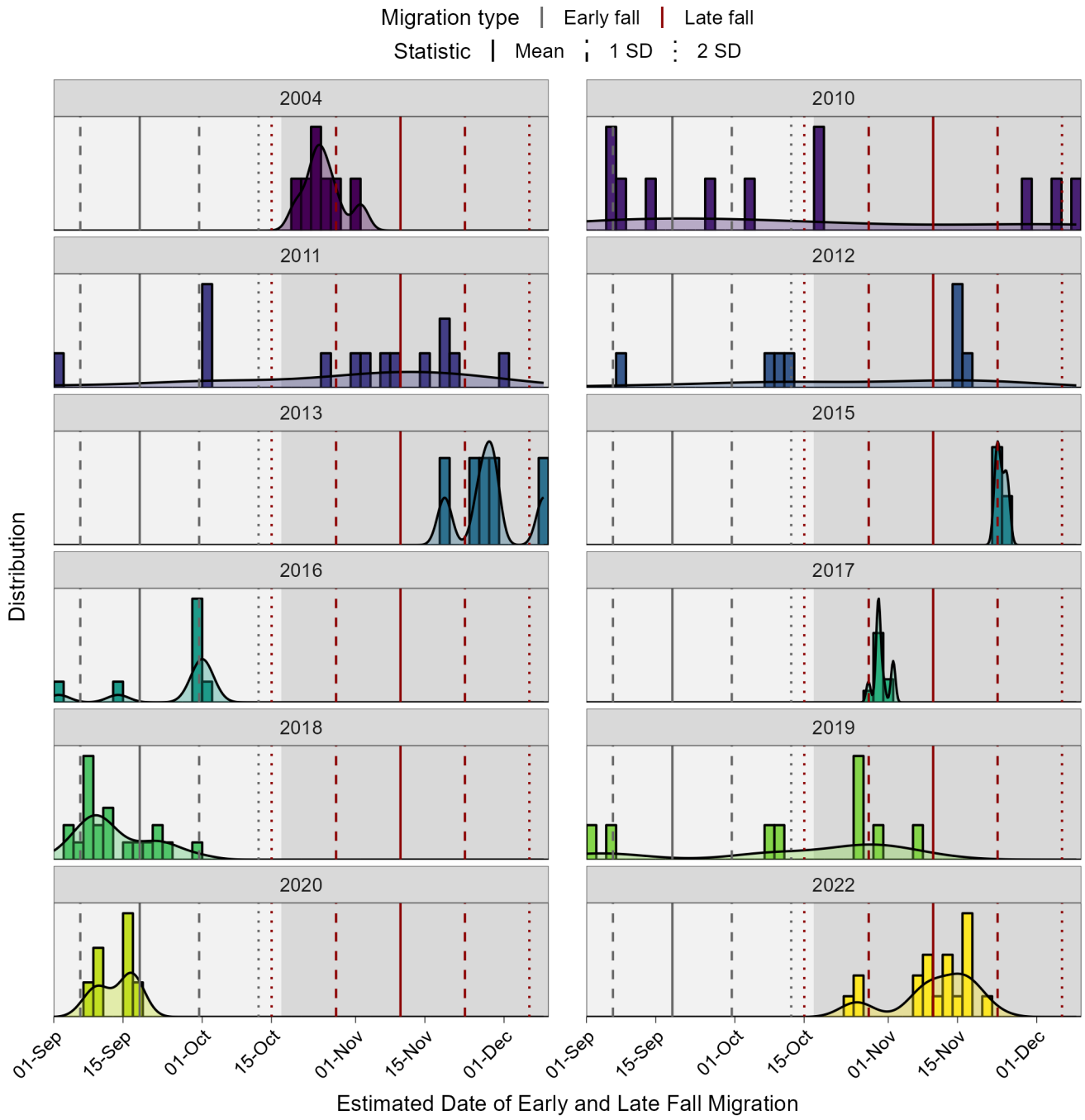

Figure 8: Distribution of estimated dates of early and late fall caribou migration based on telemetry data. Light grey boxes from day 220−290 represent the early fall period and dark grey boxes from day 291−360 represent the late fall period. Data were constrained to years with *n* ≥4 caribou. Vertical lines indicate the mean early and late fall migration dates across all years (September 18 and November 10, respectively), and the ±1 SD (dashed) and ±2 SD dates (dotted). Mean early and late fall migration dates, sample sizes, and standard deviations for these data are summarized by year in Table 3.

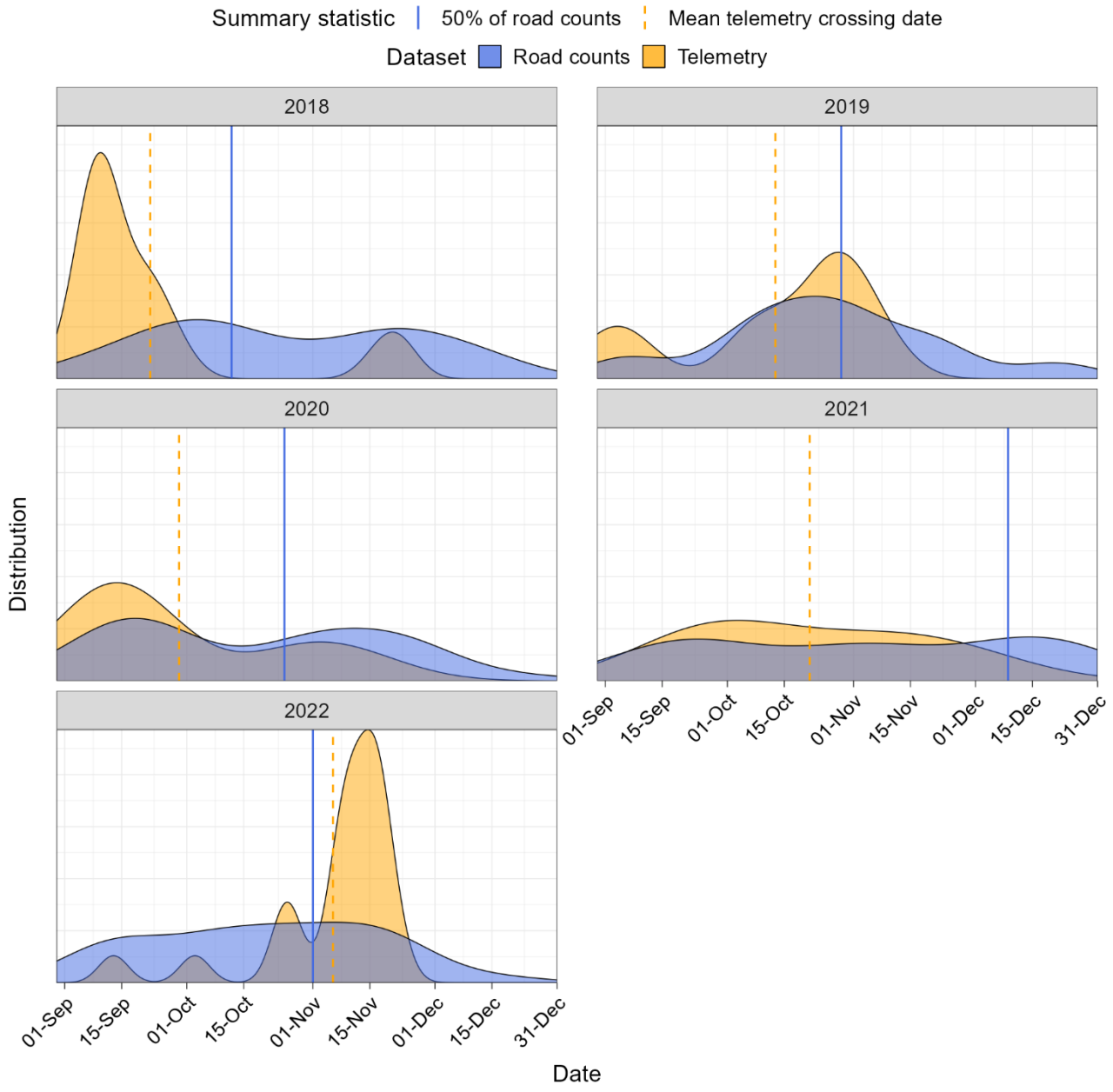

Figure 9: Comparison of fall migration dates based on ground observations and telemetry data from 2018 to 2022. Probability density plots depict the estimated distribution of fall migration per year from telemetry and road data. Vertical lines indicate the date at which 50% of caribou were estimated to have completed fall migration (road counts) and the average date of fall migration (telemetry data).

4.0 SUMMARY AND RECOMMENDATIONS

The updated analysis included data from 2003 to 2023, and individuals from five caribou herds (Ahiak, Beverly, Lorillard, Qamanirjuaq, and Wager Bay herds), as well as individuals not assigned to a herd (designated as NEM). The mean spring migration date was May 1, with 96% of spring migrations (assuming a normal distribution) occurring during 64 days between March 29 and June 2 when pooled across all years. Spring migration distributions differed significantly among years, and patterns of spring migration distributions did not differ pre- and post-WTHR construction. The mean overall fall migration date was October 19, with 96% of fall migrations (assuming a normal distribution) occurring during 117 days between August 21 and December 16. Early fall migrations (with n ≥4 caribou) were observed in 7 years, and late fall migrations (with n ≥4 caribou) were observed in 9 years. The mean early fall migration date was September 18, with 96% of early fall migrations (assuming a normal distribution) occurring between August 25 and October 12. The mean late fall migration date was November 10, with 96% of early fall migrations (assuming a normal distribution) occurring between October 15 and December 6.

Similarity between migration dates between telemetry and ground observations varied across years, but overall were more similar in the spring than in the fall. The date at which approximately 50% of caribou counted during each year's ground observations had been recorded during the spring, ranged from April 19 to April 29. The average spring migration date based on telemetry data ranged from April 18 to May 16. In the fall, migration dates based on ground observations ranged from day October 12 to December 9, and the average migration date based on telemetry data ranged from September 22 to November 5. Larger differences in estimated migration from ground and telemetry are expected in the fall, as fall migration extends over a longer period (117 days) than spring migration (64 days), and data were not summarized into early and late fall periods for this comparison.

Larger variation (i.e., standard deviation) in date ranges than seen in the previous analysis (Golder 2021) may be related to inclusion of individuals from all herds, whereas the previous analysis focused on the Lorillard herd because this is the herd that interacts with the Mine most frequently. A wider range of dates means that previously suggested mitigations, such as cap and pulse (e.g., convoys), may require a different trigger than date. It also means that pulse mitigation may be applied for a longer duration in some years. Other approaches, such as road closure during the approach of 'lead caribou' towards the Mine area should be investigated. The lead caribou approach would implement road closures to allow caribou leading herds to migrate through the Mine area, promoting movement of remaining caribou in the herd according to IQ.

Further exploratory analysis could aim to determine spring and fall migration timing differences between herds, where sample size allows. Influence of other variables on migration timing, such as snow conditions (Mallory et al. 2020) or weather (Gurarie et al. 2019) could be investigated. If differences can be explained by other variables, such as weather, then it may be possible to forecast when mitigation should be applied annually. The results of these analyses should be reviewed with the TAG to establish desired caribou protection outcomes (e.g., protection of lead caribou, protection of maximum number of caribou, or both) and how to best apply mitigation to reach the desired outcomes.

5.0 CLOSURE

We trust that the information contained in this report meets your present requirements. Please contact the undersigned if you have any questions or concerns.

WSP Canada Inc.

Sima Usvyatsov, PhD
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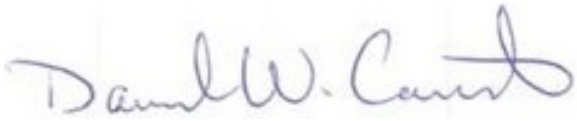
Principal, Senior Ecologist



Daniel Coulton, PhD, RPBio
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SW/CDLM/DC/jlb

Attachments: Attachment 1 - Results of Tukey Comparisons

https://golderassociates.sharepoint.com/sites/155895/project files/5 technical work/02_tag special studies/updated caribou migration analysis/rev1/21502960-590-tm-updated caribou analysis-rev1_clean.docx

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ATTACHMENT 1

Results of Post-Hoc Comparisons

Table 1: Post-hoc comparisons of mean spring migration dates for collared caribou. Years with n <4 caribou were excluded from comparisons. Bold rows indicate significant differences between pairs of years (p <0.05).

Comparison Years	Estimate	Standard Error	t Test Statistic	Tukey Adjusted p-value
2010 - 2011	-8.11	6.76	-1.2	0.988
2010 - 2012	-19.17	5.94	-3.228	0.069
2010 - 2013	-12.99	6.83	-1.901	0.756
2010 - 2016	-9.95	6.3	-1.58	0.912
2010 - 2017	**-27.75**	**7.19**	**-3.858**	**0.010**
2010 - 2018	-16.9	5.65	-2.99	0.126
2010 - 2019	-10.8	5.25	-2.057	0.654
2010 - 2020	-0.39	6.35	-0.061	1.000
2010 - 2021	-20.96	6.57	-3.192	0.075
2010 - 2022	-23.79	7.74	-3.072	0.103
2010 - 2023	-9.74	5.32	-1.833	0.796
2011 - 2012	-11.06	7.61	-1.453	0.950
2011 - 2013	-4.88	8.33	-0.587	1.000
2011 - 2016	-1.84	7.93	-0.232	1.000
2011 - 2017	-19.65	8.64	-2.274	0.501
2011 - 2018	-8.8	7.41	-1.187	0.989
2011 - 2019	-2.7	7.13	-0.378	1.000
2011 - 2020	7.72	7.96	0.97	0.998
2011 - 2021	-12.85	8.15	-1.576	0.914
2011 - 2022	-15.68	9.07	-1.729	0.851
2011 - 2023	-1.64	7.09	-0.231	1.000
2012 - 2013	6.18	7.17	0.862	0.999
2012 - 2016	9.22	6.36	1.45	0.950
2012 - 2017	-8.59	7.59	-1.131	0.993
2012 - 2018	2.26	5.85	0.387	1.000
2012 - 2019	8.36	5.52	1.515	0.933
2012 - 2020	18.78	6.71	2.797	0.196
2012 - 2021	-1.79	6.48	-0.277	1.000
2012 - 2022	-4.62	8.28	-0.559	1.000
2012 - 2023	9.43	6.26	1.505	0.936
2013 - 2016	3.04	6.91	0.44	1.000
2013 - 2017	-14.76	7.09	-2.083	0.635
2013 - 2018	-3.91	6.72	-0.582	1.000
2013 - 2019	2.19	6.43	0.34	1.000
2013 - 2020	12.6	7.57	1.665	0.880
2013 - 2021	-7.97	7.49	-1.064	0.996
2013 - 2022	-10.8	8.52	-1.268	0.981

Table 1: Post-hoc comparisons of mean spring migration dates for collared caribou. Years with n <4 caribou were excluded from comparisons. Bold rows indicate significant differences between pairs of years (p <0.05).

Comparison Years	Estimate	Standard Error	t Test Statistic	Tukey Adjusted p-value
2013 - 2023	3.25	7.1	0.458	1.000
2016 - 2017	-17.8	7.11	-2.506	0.348
2016 - 2018	-6.95	5.83	-1.192	0.989
2016 - 2019	-0.85	5.45	-0.157	1.000
2016 - 2020	9.56	6.75	1.417	0.958
2016 - 2021	-11.01	6.47	-1.703	0.863
2016 - 2022	-13.84	8.28	-1.671	0.877
2016 - 2023	0.21	6.61	0.031	1.000
2017 - 2018	10.85	7.04	1.541	0.925
2017 - 2019	16.95	6.68	2.538	0.328
2017 - 2020	**27.37**	**7.84**	**3.493**	**0.032**
2017 - 2021	6.8	7.83	0.868	0.999
2017 - 2022	3.96	8.61	0.46	1.000
2017 - 2023	18.01	7.47	2.411	0.408
2018 - 2019	6.1	4.97	1.228	0.986
2018 - 2020	16.52	6.29	2.625	0.279
2018 - 2021	-4.06	6.08	-0.668	1.000
2018 - 2022	-6.89	7.96	-0.865	0.999
2018 - 2023	7.16	5.82	1.231	0.985
2019 - 2020	10.42	5.84	1.784	0.823
2019 - 2021	-10.16	5.67	-1.791	0.819
2019 - 2022	-12.99	7.52	-1.728	0.851
2019 - 2023	1.06	5.64	0.188	1.000
2020 - 2021	-20.57	6.89	-2.985	0.128
2020 - 2022	-23.4	8.54	-2.741	0.221
2020 - 2023	-9.36	6.67	-1.403	0.961
2021 - 2022	-2.83	8.62	-0.329	1.000
2021 - 2023	11.22	6.86	1.634	0.892
2022 - 2023	14.05	8	1.755	0.838

Table 2: Post-hoc comparisons of mean late fall migration dates for collared caribou. Years with n <4 caribou were excluded from comparisons. Bold rows indicate significant differences between pairs of years (p <0.05).

Comparison Years	Estimate	Standard Error	t Test Statistic	Tukey Adjusted p-value
2004 - 2010	**-20.3**	**5.12**	**-3.967**	**0.006**
2004 - 2011	**-16.85**	**4.31**	**-3.912**	**0.007**
2004 - 2012	**-21.75**	**5.48**	**-3.97**	**0.006**
2004 - 2013	**-32.6**	**5.12**	**-6.37**	**<0.001**
2004 - 2015	**-27.92**	**4.86**	**-5.741**	**<0.001**
2004 - 2017	-3.67	4.4	-0.833	0.995
2004 - 2019	-2.9	5.12	-0.567	1.000
2004 - 2022	**-14.71**	**3.86**	**-3.807**	**0.010**
2010 - 2011	3.45	4.79	0.721	0.998
2010 - 2012	-1.45	5.86	-0.247	1.000
2010 - 2013	-12.3	5.53	-2.225	0.404
2010 - 2015	-7.62	5.29	-1.439	0.878
2010 - 2017	**16.63**	**4.87**	**3.412**	**0.030**
2010 - 2019	17.4	5.53	3.148	0.060
2010 - 2022	5.59	4.39	1.272	0.935
2011 - 2012	-4.9	5.17	-0.948	0.989
2011 - 2013	**-15.75**	**4.79**	**-3.29**	**0.042**
2011 - 2015	-11.07	4.51	-2.452	0.276
2011 - 2017	**13.18**	**4.02**	**3.283**	**0.042**
2011 - 2019	13.95	4.79	2.914	0.106
2011 - 2022	2.14	3.41	0.627	0.999
2012 - 2013	-10.85	5.86	-1.851	0.649
2012 - 2015	-6.17	5.64	-1.093	0.973
2012 - 2017	**18.08**	**5.25**	**3.443**	**0.027**
2012 - 2019	18.85	5.86	3.215	0.051
2012 - 2022	7.04	4.81	1.464	0.867
2013 - 2015	4.68	5.29	0.885	0.993
2013 - 2017	**28.93**	**4.87**	**5.935**	**<0.001**
2013 - 2019	**29.7**	**5.53**	**5.373**	**<0.001**
2013 - 2022	**17.89**	**4.39**	**4.072**	**0.004**
2015 - 2017	**24.25**	**4.61**	**5.265**	**<0.001**
2015 - 2019	**25.02**	**5.29**	**4.727**	**<0.001**
2015 - 2022	**13.21**	**4.09**	**3.227**	**0.049**
2017 - 2019	0.77	4.87	0.157	1.000
2017 - 2022	-11.04	3.54	-3.123	0.064
2019 - 2022	-11.81	4.39	-2.689	0.174

APPENDIX G

Hunter Harvest Study

MEADOWBANK COMPLEX MINE

2023 HUNTER HARVEST STUDY AND CREEL SURVEY SUMMARY REPORT

MARCH 2024 FINAL

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SECTION 1 • EXECUTIVE SUMMARY

A Baker Lake Hunter Harvest Study (HHS) conducted from 2007 to 2015 was relaunched in 2019 and continued into 2023. The 2023 study included 75 participants of which 63 reported harvesting Caribou (*Rangifer tarandus*). Given an estimated 300 to 350 active hunters in the Hamlet of Baker Lake, the HHS represents from 18 to 21% of hunters in the community. With a total reported Caribou harvest of 646 in 2023, the total Caribou harvest in Baker Lake in 2023 is estimated to range from 3,076 to 3,589 Caribou, which is comparable to the annual harvest between 1996 and 2001 (NWMB 2004).

Compared to the average across other years, Caribou in 2023 were harvested at a lower percentage within 5 km of the All-Weather Access Road (i.e., 37%) and at a lower percentage (71%) within the Regional Study Area (RSA). Harvest levels in 2023 near mining facilities were well within threshold levels established during the impact assessment (i.e., Caribou harvest levels within the RSA).

Seven (7) Muskox (*Ovibos moschatus*) and 18 Wolverine (*Gulo gulo*) were harvested in 2023, which is lower than in 2022 (i.e., 18 and 25, respectively). A total of 47 Wolves (*Canis lupus*) were reported as being harvested in 2023, which is considerably lower than the 92 reported in 2022. Red Fox (*Vulpes vulpes*) and Grizzly Bear (*Ursus arctos*) were also harvested, although Grizzly Bear was harvested outside the HHS boundaries. Several bird species were harvested in 2023 with Canada Goose (*Branta canadensis*) being the most common species. For the second year in a row, Beluga (*Huso huso*) and seal were reported as being harvested by Baker Lake hunters, but all were harvested outside the RSA.

Lake Trout (*Salvelinus namaycush*) and Lake Whitefish (*Coregonus clupeaformis*) were the most common fish species caught by fisherman in 2023, with Lake Trout reported at considerably lower numbers than in 2022.

SECTION 2 • OVERVIEW

As outlined in the original TEMP (Cumberland 2006) and the June 2019 version (Agnico Eagle 2019), and as a requirement of NIRB Project Certificate No. 004 Terms and Conditions 51 and 54, the Baker Lake Hunter Harvest Study (HHS) was initiated in March 2007 by Agnico Eagle. The HHS was conducted in association with the Baker Lake Hunters and Trappers Association (HTO) to monitor and document the spatial distribution, seasonal patterns, and harvest rates of hunter kills and angler catches within the Meadowbank Regional Study Area (RSA).

After low participation during the first year of the study, methods were strategically adapted, participation increased steadily, and valuable information on harvest patterns in the Baker Lake area was collected. The HHS, through regular visits, contributed to developing a strong relationship with local harvesters, the HTO, and the Government of Nunavut, Department of Environment (GN). Data were provided annually in monitoring reports from 2007 to 2015 and in 2019 to 2022.

The HHS was suspended for three years (2016 to 2018) to develop new approaches and direction. Following consultation with the HTO, Kivalliq Inuit Association (KivIA), GN, and other agencies in November 2016 (Winnipeg) and June 2017 (Ottawa), Agnico Eagle reinitiated the HHS in March 2019, which for the first time also encompassed the Whale Tail RSA as part of the Meadowbank Complex. The study approach was similar to previous years, but suggestions and guidance received during the consultation period were incorporated into the study. The study was conducted from 2020 to 2023 and continues into 2024.

SECTION 3 • OBJECTIVES

The primary objectives of the HHS are to monitor potential project-related effects on harvesting of wildlife by residents of Baker Lake. This objective is achieved by estimating the following key metrics:

1. The distribution of Caribou (*Rangifer tarandus*), Muskox (*Ovibos moschatus),* and Wolverine (*Gulo gulo*) harvest by residents of Baker Lake; and
2. The total level (or an index of) Caribou, Muskox, and Wolverine harvest by residents of Baker Lake.

Other objectives of the HHS, established in consultation with the Terrestrial Advisory Group (TAG), or other participants include:

1) Supporting creel surveys by gathering information on Arctic Char (*Salvelinus alpinus*), Lake Trout (*Salvelinus namaycush*), Lake Whitefish (*Coregonus clupeaformis*), and Arctic Grayling (*Thymallus arcticus*) catch rates and Inuit-use patterns in the Baker Lake area;

2) Understanding regional distribution of hunting and fishing activity;

3) Investigating seasonal timing of hunting and fishing activity; and

4) Determining whether increased harvest and catch rates are associated with the Meadowbank All-Weather Access Road (AWAR) and Whale Tail Haul Road (WTHR).

As discussed during consultation with stakeholders, the HHS will further seek to: a) increase and maintain the hunter participant rate in the future of the program; b) improve resource protection; c) improve hunter awareness and education; d) increase the integration of Inuit Qaujimajatuqangit and Traditional Knowledge; e) increase availability of data to support a collective approach to understanding wildlife harvest; and f) assist Agnico Eagle in mitigative actions and the GN in management decisions.

SECTION 4 • METHODOLOGY

The wildlife species that are the focus of the HHS are Caribou, Muskox, and Wolverine; however, harvest data on other species, such as Wolf (*Canis lupus*), Arctic Fox (*Vulpes lagopus*), geese, and other birds are also collected. The few species in the study were deliberately chosen to make data entry and collection as simple as possible. To support creel surveys, data on fish harvest (i.e., Arctic Char, Lake Trout, Lake Whitefish, and Arctic Grayling) are also collected.

Inuit and non-Inuit residents, at least 16 years of age, are eligible to participate in the harvest survey. Harvest calendars are provided on a household basis, rather than an individual basis, to simplify data entry and collection, and reflect household hunting patterns. The harvest calendar is attractive and consists of local photographs of wildlife and Baker Lake residents primarily taken by HHS participants (see **Appendix A** for 2023 calendar). Space is provided for each calendar day where harvest details can be documented. A map is provided at the end of the calendar that delineates a 4 km^2 UTM grid within the Baker Lake and Meadowbank Complex areas. Each grid has a unique code to facilitate recording of information. When calendars are issued, participants or participating households are encouraged to write harvest details (e.g., number of animals, sex, age, and location [i.e., grid code]) for the appropriate date on the calendar.

Participants were interviewed in person three times during the year (i.e., June 2023, October 2023, and January 2024) by the harvest study coordinator. During the January 2024 interviews, remaining data from 2023 were collected. The purpose of the interviews is to ensure all harvest data are recorded on the calendars and to collect incidental information to compliment calendar data, including notable Caribou movements, aggregations, and unique observations. Between interview periods, participants were often contacted by phone or social media to encourage recording of harvest data.

Features of the 2023 HHS included: 1) building long-term relationships between participants and researchers; 2) increasing engagement with participants on social media platforms such as Facebook and Instagram; and 3) increasing incentives for participating in the study (e.g., gas vouchers and prizes).

SECTION 5 • HISTORICAL RESULTS

The Baker Lake HTO member list (provided by Ms. Joan Scottie [HTO Board Member] in 2008) consisted of 683 local area hunters/trappers/fishermen, a number that has likely changed since then. The member count in 2008 was a highly conservative (i.e., high) estimate of the number of individuals that hunt, trap or fish in the community as the list typically includes entire families. If just the heads of each household are counted, there were 389 potential hunters within the Baker Lake community in 2008. Although this value is still likely conservative (given that many of these individuals do not actively hunt or fish), the number is comparable to the comprehensive 5-year Nunavut Wildlife Harvest Study (NWMB 2004) in which 336 Baker Lake hunters were contacted and interviewed.

Between 1996 and 2001, 18% of Caribou harvests were estimated to be within 5 km of the AWAR (prior to construction) and 67% of harvests occurred within the RSA (NWMB 2004). In the first year of the HHS study (2007), prior to completion of the AWAR, 34% of harvests were reported within 5 km of the AWAR alignment and 79% were recorded within the RSA. The HHS data (2007 to 2015 and 2019 to 2022) fluctuated between 34 and 43% of reported harvest within 5 km of the AWAR, and between 62 and 85% within the RSA.

In 2008, 296 Caribou were reported as being harvested by Baker Lake HHS study participants. Harvest numbers steadily increased to 680 in 2011, and then decreased to 269 in 2014, the lowest reported harvest in seven years, and 305 in 2015. Between 2016 and 2018 (3 years) the HHS was not conducted. Total Caribou harvests in 2019 (648 animals) and 2020 (652) were higher than in 2021, when a total of 513 Caribou were harvested, but lower than in 2022 when 766 Caribou were harvested. If an average of approximately 20% of all Baker Lake hunters actively participated in the study (5% estimated for 2014), extrapolation of historical HHS values suggests approximately 3,000 to 4,000 Caribou are harvested each year in the Hamlet of Baker Lake. These estimates are in general agreement with historical harvest studies. Specifically, using the upper limit of the standard error in the Nunavut Wildlife Harvest Study, between 2,230 and 3,116 Caribou were harvested each year between 1996 and 2001 (NWMB 2004). Similarly, the Interdisciplinary Systems (IDS) report (IDS 1978) estimated an annual Caribou harvest in Baker Lake of 4,100 during the 1970s.

Based on the NWMB (2004) and HHS results (2007 to 2015 and 2019 to 2022), highest Caribou harvests have occurred between August and December with a second smaller peak between March and May. The similar pattern between the studies indicates that seasonal hunting preferences have not changed markedly in the last two decades.

Reported harvests of Muskox and Wolverine were relatively high in 2022. Low densities of these species and their general aversion to humans require hunters to hunt well away from the AWAR; therefore, the presence of the AWAR is thought to have little effect on participant hunting patterns for Muskox and Wolverine. Wolverine harvest reports decreased from 15 animals in 2010 to one (1) animal in 2015; however, in 2019, 2020, and 2022 reported Wolverine harvests were at all-time highs of 18, 22, and 25 individuals, respectively.

SECTION 6 • 2023 HUNTER HARVEST STUDY RESULTS

6.1 NUMBER OF HUNTERS

The HHS included 75 participants by the end of 2023, which is higher than participants in 2022, 2021 and 2020 (i.e., 59, 55, and 64, respectively). Higher numbers in 2023 are because of several new participants. Of the 2023 participants, Caribou harvest data were collected from 63 participants, which is higher than the 55 participants reporting Caribou harvests in 2022 and considerably higher than the 39 hunters in 2021. The 63 participants reporting Caribou harvest in 2023 is the highest number since the HHS began.

Based on the previous discussion of total numbers of hunters in the Hamlet of Baker Lake (**Section 5 Historical Results**), there were 389 potential hunters within the Baker Lake community in 2008. The number is comparable to the comprehensive 5-year Nunavut Wildlife Harvest Study (NWMB 2004) in which 336 Baker Lake hunters were contacted and interviewed. Discussions with Baker Lake HTO members in 2019 suggest the total number of hunters is over 300. Given the historical and current number of hunters in Baker Lake, an estimate of 300 to 350 active hunters is used in this analysis. Based on these numbers, the 63 hunters reporting Caribou harvest in 2023 conservatively represent from 18 to 21% of total hunters in the community.

6.2 DISTRIBUTION OF HUNTING

Figure 6.1 shows the distribution of Caribou harvest within the HHS data collection area. Hunting is highly concentrated in the vicinity of the Hamlet of Baker Lake and along the AWAR to approximately Km 85. More moderate harvests were reported along the northeastern and southwestern shores of Baker Lake, while limited hunting was reported within the Thelon River system to Aberdeen Lake. Annual variation in harvest location and intensity is attributable to numerous factors. For instance, many hunters have stated during informal discussions that they have a ‘favorite’ hunting area that they frequent each year. Some hunters have stated that they prefer hunting in ‘convenient’ locations, whereas other hunters prefer remote locations well away from frequented areas. A percentage of hunters also enjoyed partaking in long distance hunting trips over multiple days.

Between 1996 and 2001, 18% of Caribou harvests were estimated to be within 5 km of the AWAR (prior to construction) and 67% of harvests occurred within the Meadowbank RSA (NWMB 2004). In the first year of the HHS study (2007), prior to completion of the AWAR, 34% of harvests were reported within 5 km of the AWAR alignment and 79% were recorded within the Meadowbank RSA (see **Table 6.1**). The HHS data (2007 to 2015 and 2019 to 2022) fluctuated between 34 and 54% of reported harvest within 5 km of the AWAR, and between 62 and 85% within the Meadowbank RSA. The 2023 HHS data indicated that 37% of reported harvest occurred within 5 km of the AWAR, and 71% occurred within the Meadowbank RSA (see **Table 6.1**). As was the case in other years, threshold levels of 20% set for monitoring the effects of the Meadowbank mine development (note – does not include the Whale Tail mine, which was approved under a separate permit with a different effect assessment) on the distribution of Caribou harvest within the RSA were not exceeded (see **Figure 6.2**).

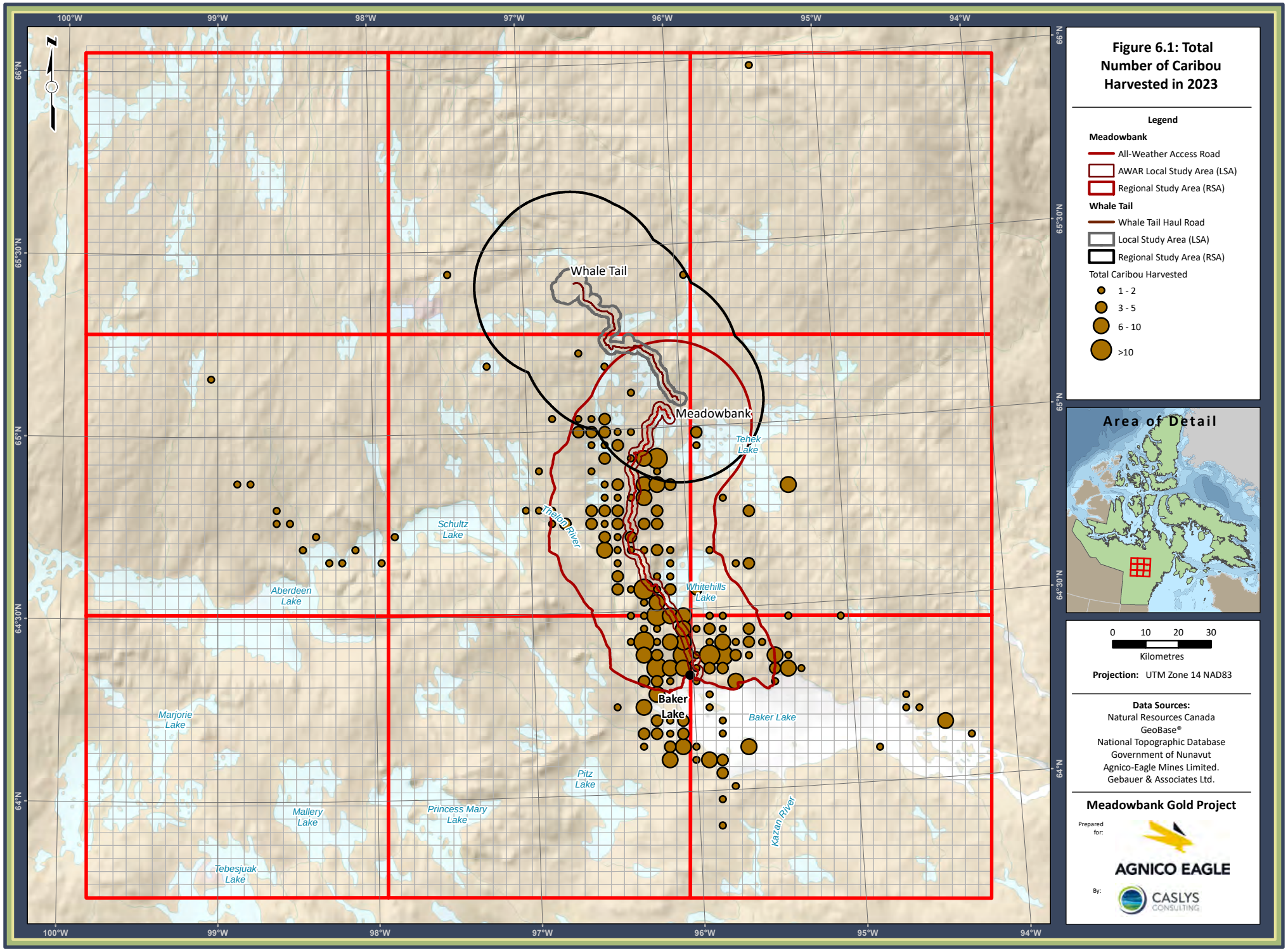
Figure 6.1: Total Number of Caribou Harvested in 2023
Legend
Meadowbank
All-Weather Access Road
AWAR Local Study Area (LSA)
Regional Study Area (RSA)
Whale Tail
Whale Tail Haul Road
Local Study Area (LSA)
Regional Study Area (RSA)
Total Caribou Harvested
1 - 2
3 - 5
6 - 10
>10
Area of Detail
Whale Tail
Meadowbank
Tehek Lake
Schultz Lake
Thelon River
Aberdeen Lake
Whitehills Lake
Baker Lake
Baker Lake
Marjorie Lake
Pitz Lake
Mallery Lake
Princess Mary Lake
Kazan River
Tebesjuak Lake
100°W
99°W
98°W
97°W
96°W
95°W
94°W
66°N
65°30'N
65°N
64°30'N
64°N
0 10 20 30
Kilometres
Projection: UTM Zone 14 NAD83
Data Sources:
Natural Resources Canada
GeoBase®
National Topographic Database
Government of Nunavut
Agnico-Eagle Mines Limited.
Gebauer & Associates Ltd.
Meadowbank Gold Project
Prepared for:
AGNICO EAGLE
By:
CASLYS CONSULTING

Table 6.1: Caribou Harvest Distribution along the AWAR and within the Meadowbank LSA and RSA (1996 to 2001 [NWMB], and 2007 to 2015 and 2019 to 2023 [Baker Lake HHS]).

Study	Participation Rate within 5 km of AWAR (% of total hunters)	Average Caribou Harvest within 5 km of AWAR per Participant	% of Annual Harvest within 5 km of AWAR	% of Annual Harvest within Meadowbank LSA	% of Annual Harvest within Meadowbank RSA
NWMB 1996 to 2001	n/a	n/a	18	7	67
Baker Lake HHS 2007	17 (49%)	4.8	34	12	79
Baker Lake HHS 2008	16 (94%)	6.9	37	28	73
Baker Lake HHS 2009	27 (75%)	7.9	36	20	78
Baker Lake HHS 2010	33 (89%)	7.3	38	22	73
Baker Lake HHS 2011	40 (85%)	7.1	42	25	74
Baker Lake HHS 2012	31 (67%)	5.6	35	20	80
Baker Lake HHS 2013	38 (86%)	4.8	43	27	85
Baker Lake HHS 2014	19 (70%)	5.7	40	28	83
Baker Lake HHS 2015	24 (67%)	6.9	54	34	84
Baker Lake HHS 2019	40 (95%)	5.4	34	22	64
Baker Lake HHS 2020	34 (79%)	5.8	30	19	62
Baker Lake HHS 2021	34 (87%)	6.6	43	32	71
Baker Lake HHS 2022	50 (91%)	6.0	39	24	70
Baker Lake HHS 2023	43 (68%)	5.6	37	22	71
Average (2007 to 2022)	31 (80%)	6.2	39	24	75
Average (2007 to 2023)	32 (79%)	6.2	39	24	75

In 2023, only one (1) Caribou was harvested within 5 km of the WTHR, which compares to no reported harvest during the NWMB harvest study, no Caribou harvested in 2022, and three (3) Caribou harvested in 2021 (see **Table 6.2**). Overall harvest numbers were too low to determine whether harvests have increased following construction of the WTHR. Within the Whale Tail RSA (note – overlaps with the Meadowbank RSA), a total of 74 harvests were reported in 2023, which is well above the average across the first 13 years of the study. Most harvests occurred along the northern end of the Meadowbank AWAR (i.e., up to Km 85) where the two RSAs overlap. Given the low numbers of reported harvests close to the WTHR and the prohibition of the public from the WTHR, it is unlikely that the presence of the road has resulted in increased harvest.

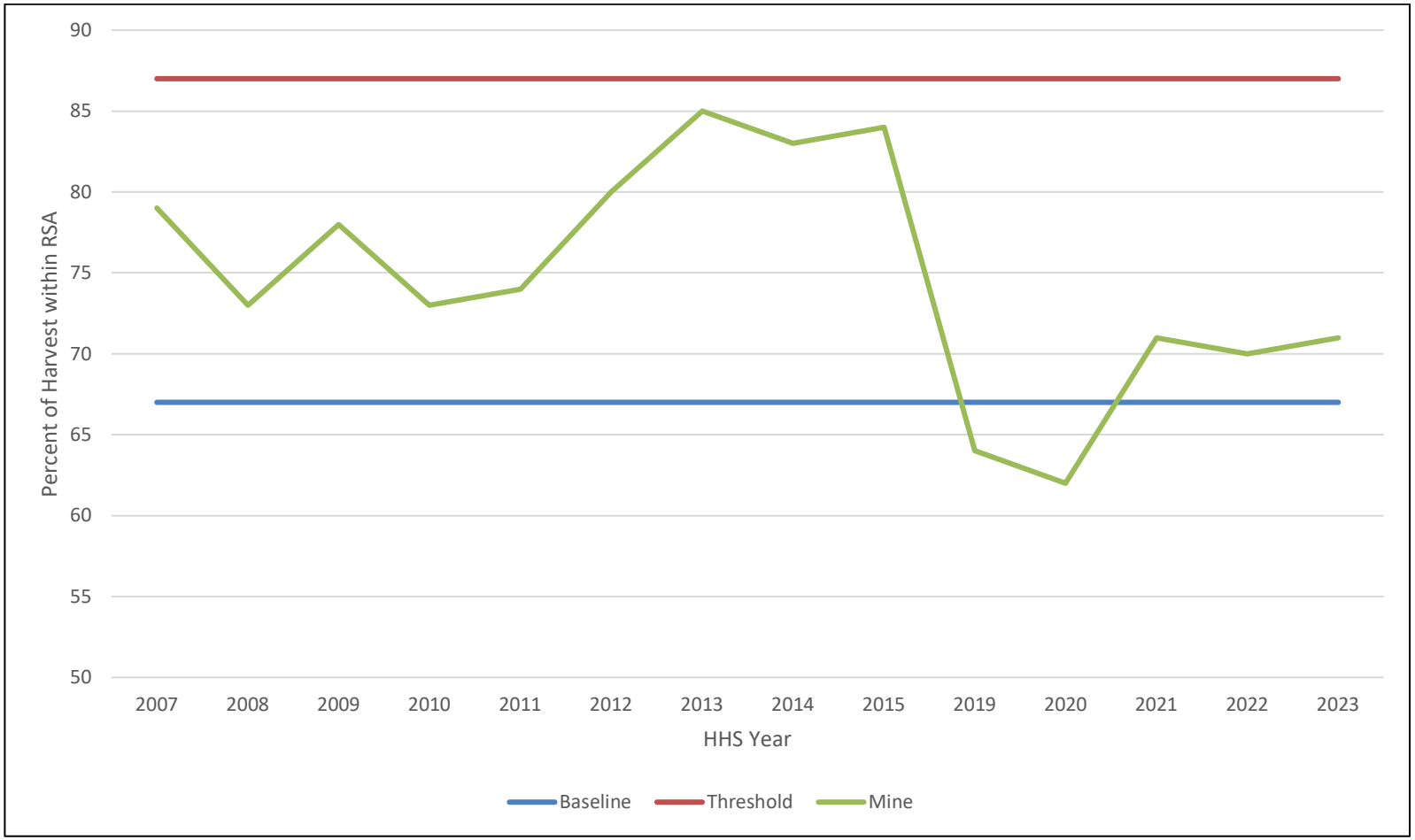

Figure 6.2: Percent of Caribou Harvest within the Meadowbank RSA from 2007 to 2015 (Years 1 to 9), and 2019 to 2023 (Years 10 to 14) Compared to Baseline and Threshold Levels.

Table 6.2: Caribou Harvest Distribution along the WTHR and within the Whale Tail LSA and RSA (1996 to 2001 [NWMB], and 2007 to 2015 and 2019 to 2023 [Baker Lake HHS]).

Study	Annual Harvest within 5 km of WTHR	Annual Harvest within Whale Tail LSA	Annual Harvest within Whale Tail RSA
NWMB 1996 to 2001	0	0	17
Baker Lake HHS 2007	1	1	1
Baker Lake HHS 2008	0	0	15
Baker Lake HHS 2009	1	0	15
Baker Lake HHS 2010	0	0	20
Baker Lake HHS 2011	0	0	103
Baker Lake HHS 2012	0	0	7
Baker Lake HHS 2013	0	0	16
Baker Lake HHS 2014	0	0	17
Baker Lake HHS 2015	0	0	53
Baker Lake HHS 2019	5	5	85
Baker Lake HHS 2020	0	0	12
Baker Lake HHS 2021	3	3	48
Baker Lake HHS 2022	0	0	34
Baker Lake HHS 2023	1	0	74
Average (2007 to 2022)	0.77	0.69	32.77
Average (2007 to 2023)	0.79	0.64	35.71

6.3 MAGNITUDE OF HUNTING

In 2023, a total of 646 Caribou were reported as being harvested by 63 participants in the Baker Lake HHS, which includes harvests in the Meadowbank and Whale Tail study areas (see **Table 6.3**). The number of participants reporting harvest and the total number of Caribou harvested are one of the highest since the HHS was initiated. Given that the 63 hunters represent an estimated 18 to 21% of the Baker Lake hunting community (**see Section 6.1**), the total estimated number of Caribou harvested in 2023 in the Baker Lake community ranged from 3,076 to 3,589 animals, which is lower than in 2022 (i.e., range of 4,256 to 4,788 animals) but comparable to historical predictions. Several participants expressed concern about the increase in sport hunting and hunting to distribute Caribou to other regions in Nunavut where Caribou harvest quotas are in place (e.g., Iqaluit). Comments included, “the sport hunters are keeping the animals away from town” or “sport hunting is scaring off wildlife”.

Table 6.3: Hunter Caribou Harvest Statistics from the NWMB (2004) Study and Baker Lake HHS (2007 to 2015; 2019 to 2023), which includes the Meadowbank and Whale Tail Areas.

Baker Lake Hunter Harvest Study – Agnico Eagle Mines Ltd.

Year	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
2007	0	7	89	22	44	6	6	6	37	14	5	2	238
2008	13	15	14	10	19	14	25	34	56	47	24	25	296
2009	42	52	41	28	28	18	30	88	114	102	11	33	587
2010	27	35	34	66	47	41	46	67	82	117	48	18	628
2011	14	47	64	53	78	39	42	35	123	108	2	75	680
2012	43	30	60	71	41	44	13	19	39	37	72	27	496
2013	5	47	55	28	18	18	20	46	76	40	35	32	420
2014	13	26	20	42	7	11	4	5	43	68	14	16	269
2015	7	9	17	13	6	46	12	8	66	74	35	12	305
2019	7	25	72	86	30	39	17	29	52	187	55	48	648
2020	6	14	8	14	12	16	18	95	119	151	88	111	652
2021	29	27	61	16	44	23	20	54	90	54	36	56	513
2022	35	15	33	29	79	14	28	113	113	219	46	42	766
2023	21	31	25	61	78	24	11	37	61	151	53	93	646
Total #	262	380	593	539	531	353	292	636	1,071	1,369	527	590	7,143
Average	20.2	27.1	42.4	38.5	37.9	25.2	20.9	45.4	76.5	97.8	37.6	42.1	510.2
% of Total	3.7	5.3	8.3	7.5	7.4	4.9	4.1	8.9	15.0	19.2	7.4	8.3	100.0

Table 6.3: Continued.

Nunavut Wildlife Harvest Study - Nunavut Wildlife Management Board (NWMB)

Year	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
1996						141	190	490	428	435	202	178	2,064
1997	118	144	146	167	217	159	162	354	322	553	295	196	2,833
1998	137	124	192	193	159	85	163	153	272	407	254	135	2,274
1999	137	131	99	211	222	111	148	433	528	409	74	66	2,569
2000	96	86	75	135	213	76	187	333	309	98	186	163	1,957
2001	150	126	146	156	127								705
Total #	638	611	658	862	938	572	850	1,763	1,859	1,902	1,011	738	12,402
Average	127.6	122.2	131.6	172.4	187.6	114.4	170	352.6	371.8	380.4	202.2	147.6	2,067
% of Total	5.1	4.9	5.3	7.0	7.6	4.6	6.9	14.2	15.0	15.3	8.2	6.0	100.0

6.4 SEASONAL DISTRIBUTION AND TIMING OF HUNTING

Based on the NWMB (2004) and inclusive Baker Lake HHS results (2007 to 2015; 2019 to 2023), highest Caribou harvests have occurred between August and December, with a second smaller peak between March and May (see **Figure 6.3**). The similar pattern between the studies indicates that seasonal hunting preferences have not changed markedly in the last decade. More details on the seasonal timing of harvest in 2023 can be found in **Figure 6.4** (i.e., numbers of animals harvested, numbers of participants, and average number of animals harvested by participant by month) and **Figure 6.5** (i.e., Caribou harvest numbers by season and proximity to the access roads).

The seasonal distribution of hunting is illustrated in **Figures 6.6a** to **6.6d**, representing the spring, summer, fall, and winter Caribou seasons outlined in the TEMP. In spring 2023, overall Caribou hunting in the Meadowbank RSA was quite high with hunting occurring from the Hamlet of Baker Lake to the south end of Third Portage Lake around the Km 85 mark (**Figure 6.6a**). Within the Whale Tail RSA, several Caribou were harvested at the south end of Third Portage Lake, which is also within the Meadowbank RSA (**Figure 6.6a**). During the summer, Caribou in the Meadowbank RSA were harvested across a larger area but particularly along the AWAR up to around Km 85 and near the Hamlet of Baker Lake (**Figure 6.6b**). Some harvesting occurred along the Thelon River to Aberdeen Lake and on the northeastern shore of Baker Lake (**Figure 6.6b**). Several Caribou were harvested up to around Km 85 at the south end of the Whale Tail RSA (**Figure 6.6b**). In the fall, hunting was much more concentrated along the AWAR around the Hamlet of Baker Lake and in the vicinity of Whitehills Lake, around the Prince River, and along the southwestern shore of Baker Lake (**Figure 6.6c**). A small number of Caribou were reported as being harvested in the southern portion of the Whale Tail RSA in fall 2023 (**Figure 6.6c**). In winter, fewer Caribou were hunted along the AWAR and successful hunters were those that travelled further afield by snowmobile (e.g., along the Thelon River to Aberdeen Lake, east of Tehek Lake, and the southwestern side of Baker Lake) (**Figure 6.6d**). Scattered Caribou harvests were reported in the Whale Tail RSA (**Figure 6.6d**).

6.5 OTHER WILDLIFE SPECIES

There were seven (7) reported harvests for Muskox in 2023, which was considerably lower than the 18 reported harvests in 2022. Muskox harvests in 2023 were located outside the Meadowbank RSA in the vicinity of Pitz Lake and the Kazan River (**Figure 6.7**). Wolverine (total of 18 in 2023) was hunted in the Whitehills Lake area, along the Thelon River between Schulz and Aberdeen lakes, and at the southwestern end of Baker Lake (see **Figure 6.8**). Wolf harvest in 2023 (47) was considerably lower than the 92 reported in 2022 and higher than the 26 reported in 2021. Wolves were either harvested close to Baker Lake, in the Whitehills Lake area, or east and northeast of the Whale Tail site (**Figure 6.8**). In 2023, the presence of the AWAR may have had some influence on participant hunting patterns for Wolf.

Arctic Fox was not reported as being harvested in 2023, which compares to 36 harvests in 2022, five (5) in 2021, and 11 in 2020, while Red Fox (3 individuals) was harvested near the Hamlet of Baker Lake (**Figure 6.7**). One (1) Grizzly Bear was reported as being taken in 2023 but this was outside the HHS boundaries.

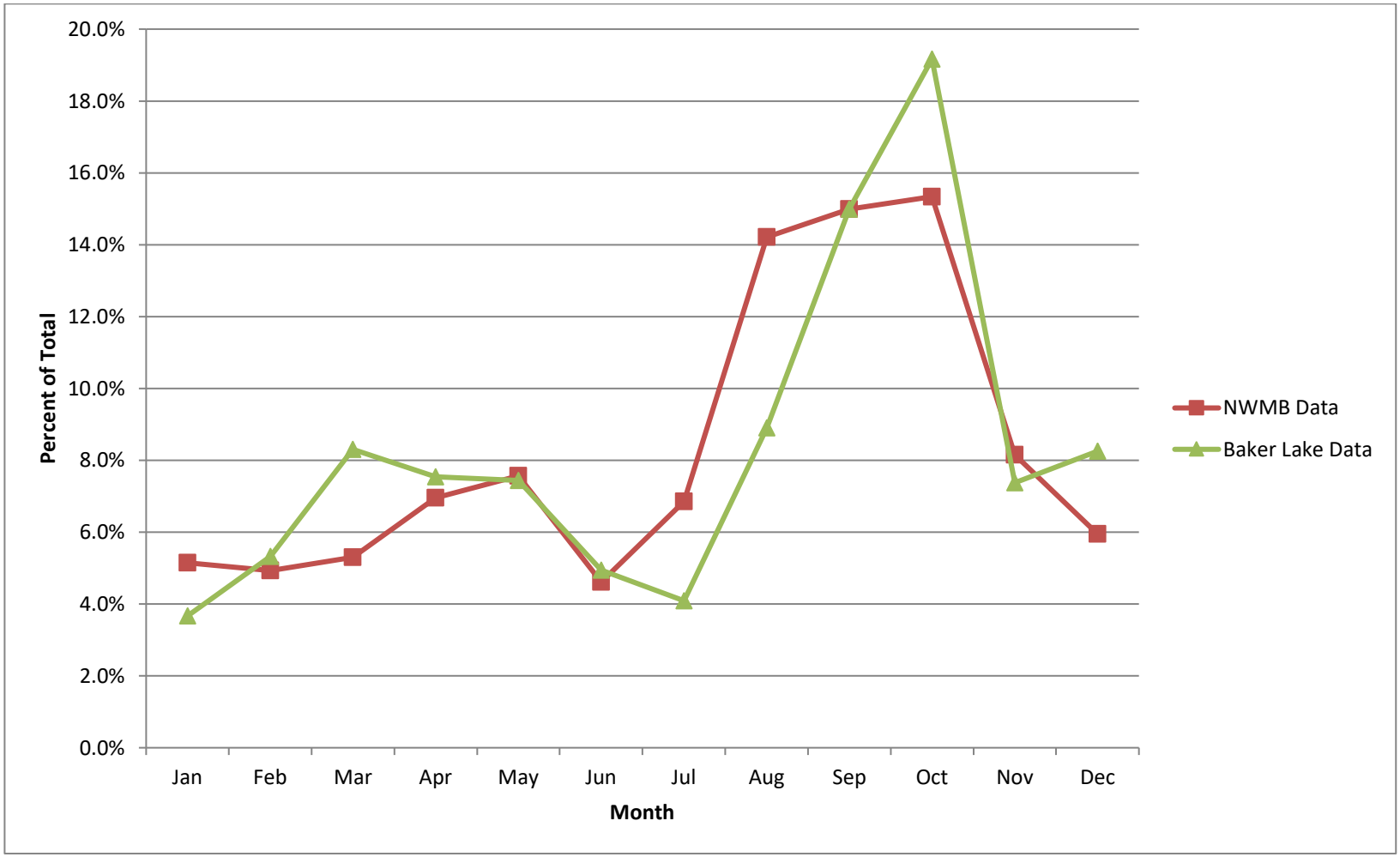

Figure 6.3: Seasonal Trends in Caribou Harvest from the Baker Lake HHS (2007 to 2015; 2019 to 2023) and the NWMB Study (1996 to 2001).

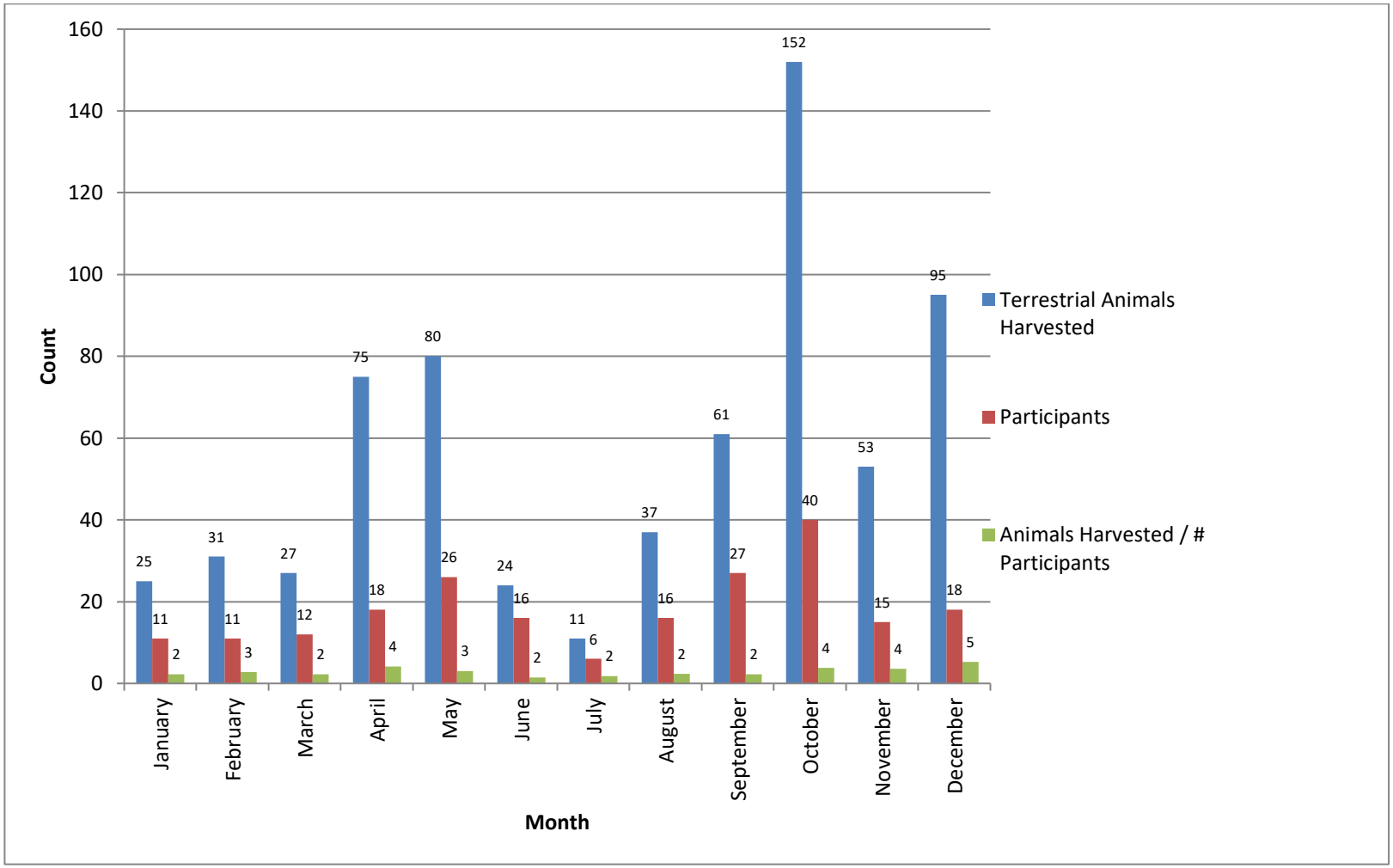

Figure 6.4: Terrestrial Animals Harvested per Month and by Participant in 2023.

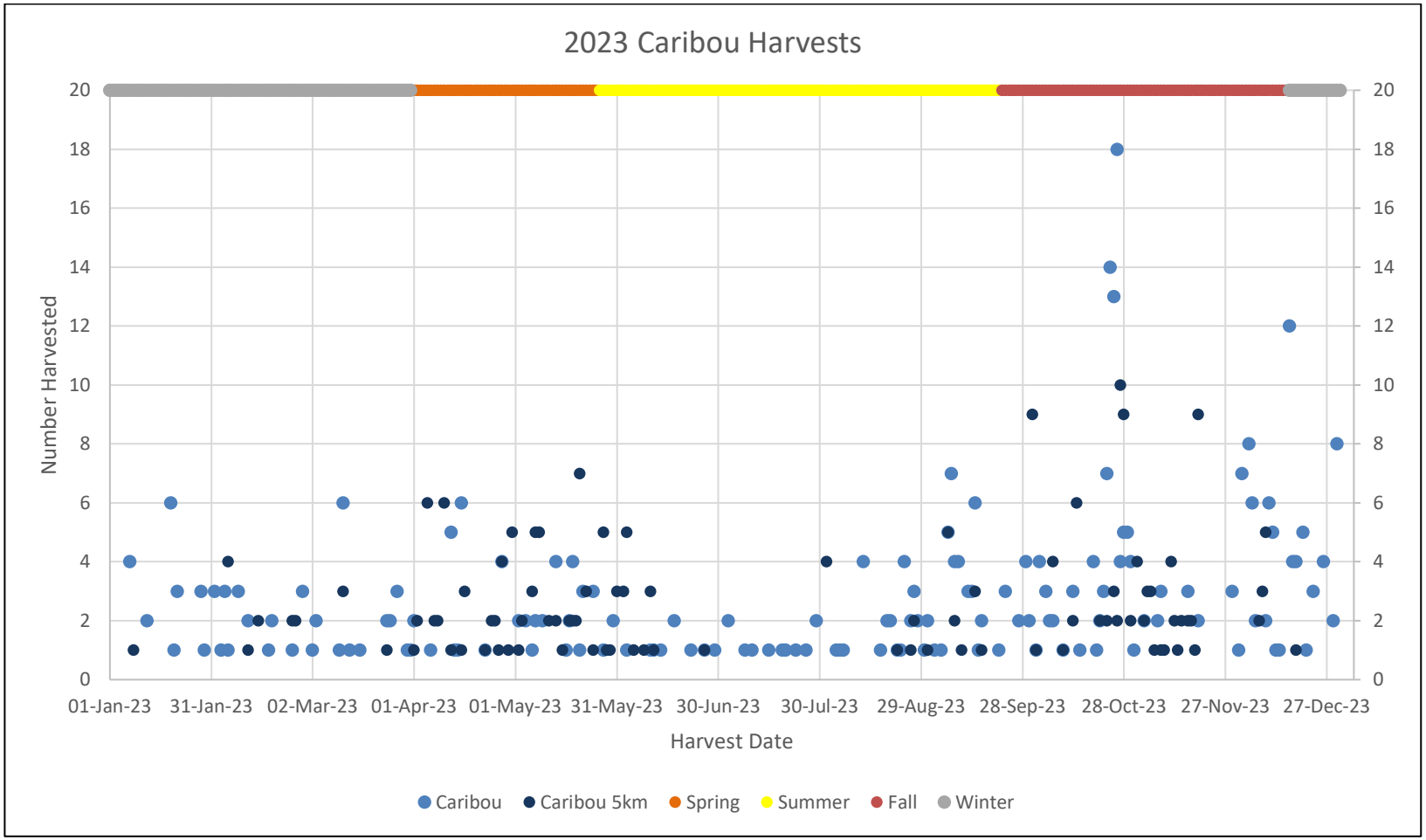

Figure 6.5: Number of Caribou harvested in each Caribou Season and Proximity to Access Roads in 2023.

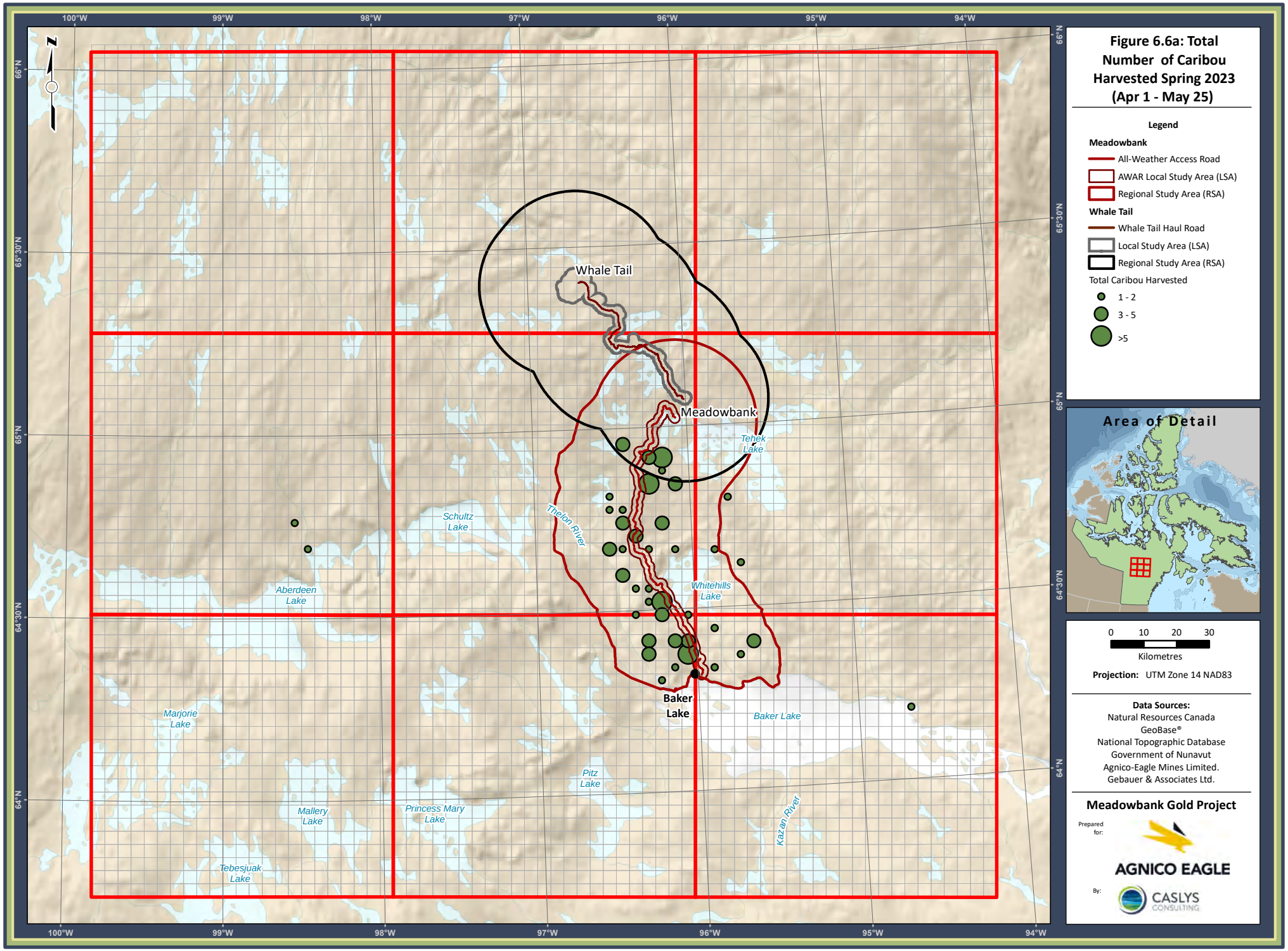
Figure 6.6a: Total Number of Caribou Harvested Spring 2023 (Apr 1 - May 25)
Legend
Meadowbank
All-Weather Access Road
AWAR Local Study Area (LSA)
Regional Study Area (RSA)
Whale Tail
Whale Tail Haul Road
Local Study Area (LSA)
Regional Study Area (RSA)
Total Caribou Harvested
1 - 2
3 - 5
>5
Area of Detail
0 10 20 30
Kilometres
Projection: UTM Zone 14 NAD83
Data Sources:
Natural Resources Canada
GeoBase®
National Topographic Database
Government of Nunavut
Agnico-Eagle Mines Limited.
Gebauer & Associates Ltd.
Meadowbank Gold Project
Prepared for:
AGNICO EAGLE
By:
CASLYS CONSULTING
Whale Tail
Meadowbank
Tehek Lake
Schultz Lake
Thelon River
Aberdeen Lake
Whitehills Lake
Baker Lake
Baker Lake
Marjorie Lake
Pitz Lake
Mallery Lake
Princess Mary Lake
Kazan River
Tebesjuak Lake
100°W
99°W
98°W
97°W
96°W
95°W
94°W
66°N
65°30'N
65°N
64°30'N
64°N

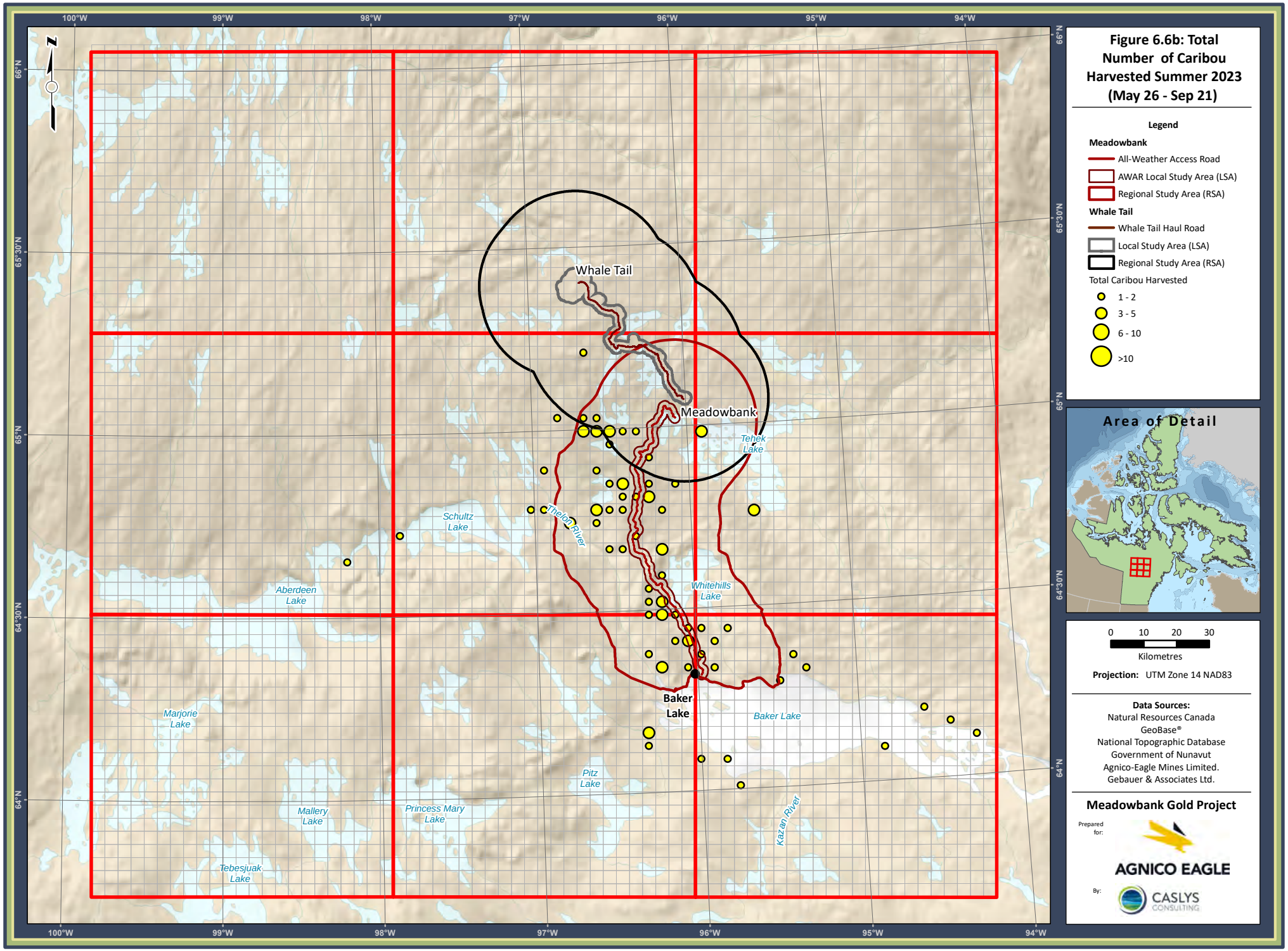
Figure 6.6b: Total Number of Caribou Harvested Summer 2023 (May 26 - Sep 21)
Legend
Meadowbank
All-Weather Access Road
AWAR Local Study Area (LSA)
Regional Study Area (RSA)
Whale Tail
Whale Tail Haul Road
Local Study Area (LSA)
Regional Study Area (RSA)
Total Caribou Harvested
1 - 2
3 - 5
6 - 10
>10
Area of Detail
0 10 20 30
Kilometres
Projection: UTM Zone 14 NAD83
Data Sources:
Natural Resources Canada
GeoBase®
National Topographic Database
Government of Nunavut
Agnico-Eagle Mines Limited.
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Whale Tail
Meadowbank
Tehek Lake
Schultz Lake
Thelon River
Aberdeen Lake
Whitehills Lake
Baker Lake
Baker Lake
Marjorie Lake
Pitz Lake
Mallery Lake
Princess Mary Lake
Kazan River
Tebesjuak Lake
100°W
99°W
98°W
97°W
96°W
95°W
94°W
66°N
65°30'N
65°N
64°30'N
64°N

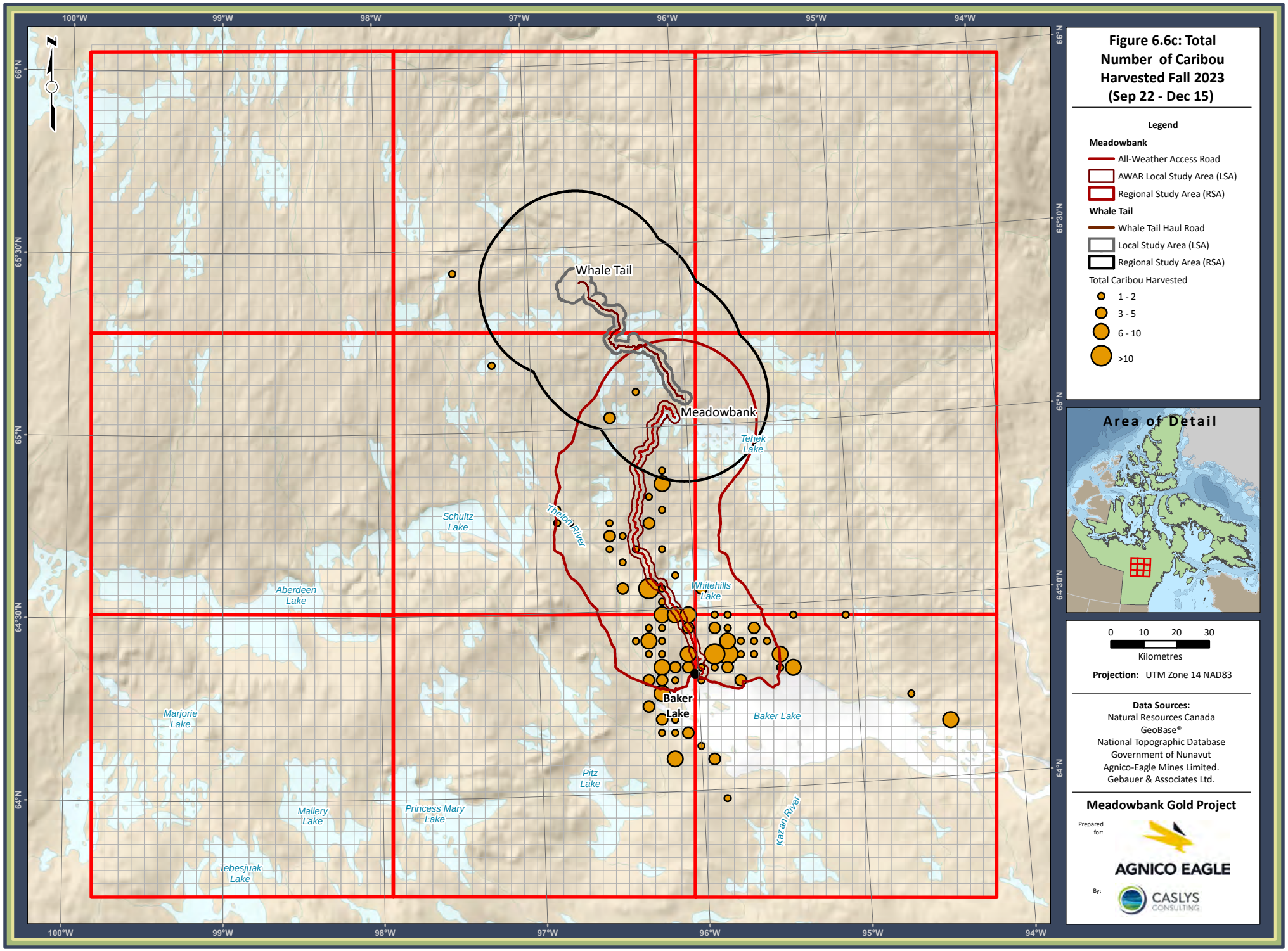
Figure 6.6c: Total Number of Caribou Harvested Fall 2023 (Sep 22 - Dec 15)
Legend
Meadowbank
All-Weather Access Road
AWAR Local Study Area (LSA)
Regional Study Area (RSA)
Whale Tail
Whale Tail Haul Road
Local Study Area (LSA)
Regional Study Area (RSA)
Total Caribou Harvested
1 - 2
3 - 5
6 - 10
>10
Area of Detail
0 10 20 30
Kilometres
Projection: UTM Zone 14 NAD83
Data Sources:
Natural Resources Canada
GeoBase®
National Topographic Database
Government of Nunavut
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Whale Tail
Meadowbank
Tehek Lake
Schultz Lake
Thelon River
Aberdeen Lake
Whitehills Lake
Baker Lake
Marjorie Lake
Pitz Lake
Mallery Lake
Princess Mary Lake
Kazan River
Tebesjuak Lake
100°W
99°W
98°W
97°W
96°W
95°W
94°W
66°N
65°30'N
65°N
64°30'N
64°N

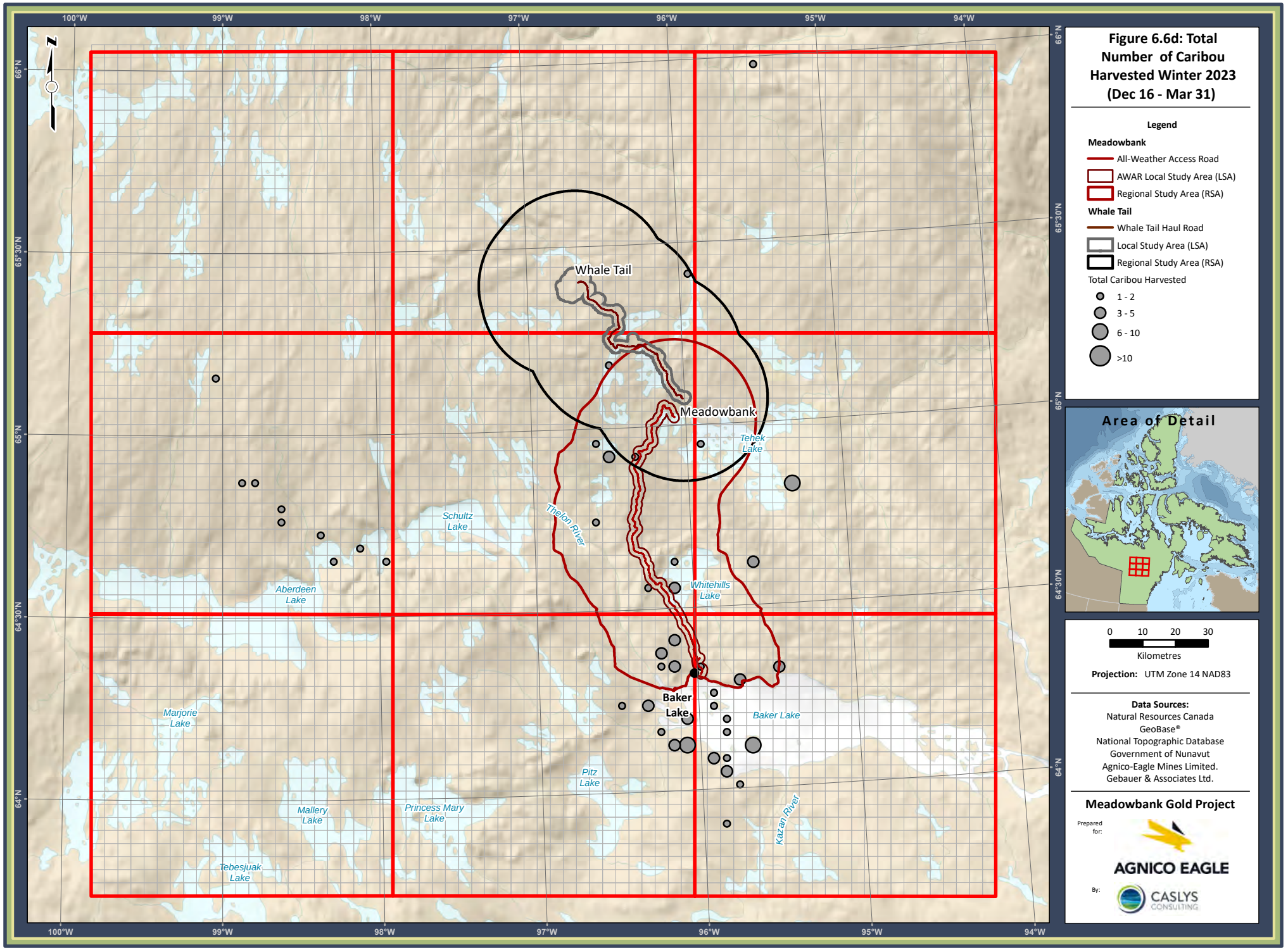
Figure 6.6d: Total Number of Caribou Harvested Winter 2023 (Dec 16 - Mar 31)
Legend
Meadowbank
All-Weather Access Road
AWAR Local Study Area (LSA)
Regional Study Area (RSA)
Whale Tail
Whale Tail Haul Road
Local Study Area (LSA)
Regional Study Area (RSA)
Total Caribou Harvested
1 - 2
3 - 5
6 - 10
>10
Area of Detail
0 10 20 30
Kilometres
Projection: UTM Zone 14 NAD83
Data Sources:
Natural Resources Canada
GeoBase®
National Topographic Database
Government of Nunavut
Agnico-Eagle Mines Limited.
Gebauer & Associates Ltd.
Meadowbank Gold Project
Prepared for:
AGNICO EAGLE
By:
CASLYS CONSULTING
Whale Tail
Meadowbank
Tehek Lake
Schultz Lake
Thelon River
Aberdeen Lake
Whitehills Lake
Baker Lake
Baker Lake
Marjorie Lake
Pitz Lake
Mallery Lake
Princess Mary Lake
Kazan River
Tebesjuak Lake
100°W
99°W
98°W
97°W
96°W
95°W
94°W
66°N
65°30'N
65°N
64°30'N
64°N

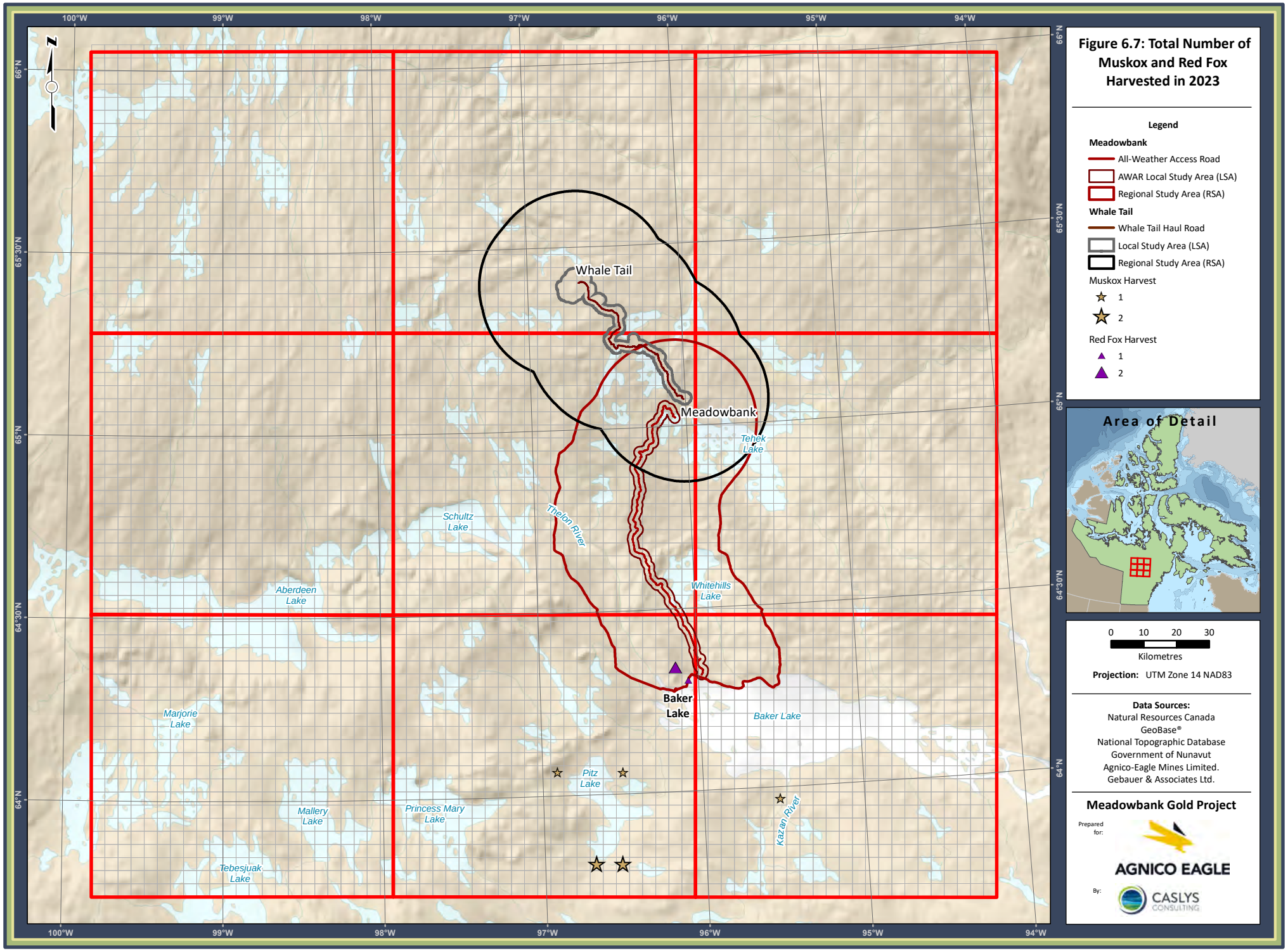
Figure 6.7: Total Number of Muskox and Red Fox Harvested in 2023
Legend
Meadowbank
All-Weather Access Road
AWAR Local Study Area (LSA)
Regional Study Area (RSA)
Whale Tail
Whale Tail Haul Road
Local Study Area (LSA)
Regional Study Area (RSA)
Muskox Harvest
1
2
Red Fox Harvest
1
2
Area of Detail
0 10 20 30
Kilometres
Projection: UTM Zone 14 NAD83
Data Sources:
Natural Resources Canada
GeoBase®
National Topographic Database
Government of Nunavut
Agnico-Eagle Mines Limited.
Gebauer & Associates Ltd.
Meadowbank Gold Project
Prepared for:
AGNICO EAGLE
By:
CASLYS CONSULTING
Whale Tail
Meadowbank
Tehek Lake
Schultz Lake
Thelon River
Aberdeen Lake
Whitehills Lake
Baker Lake
Baker Lake
Marjorie Lake
Pitz Lake
Princess Mary Lake
Mallery Lake
Tebesjuak Lake
Kazan River
100°W
99°W
98°W
97°W
96°W
95°W
94°W
66°N
65°30'N
65°N
64°30'N
64°N

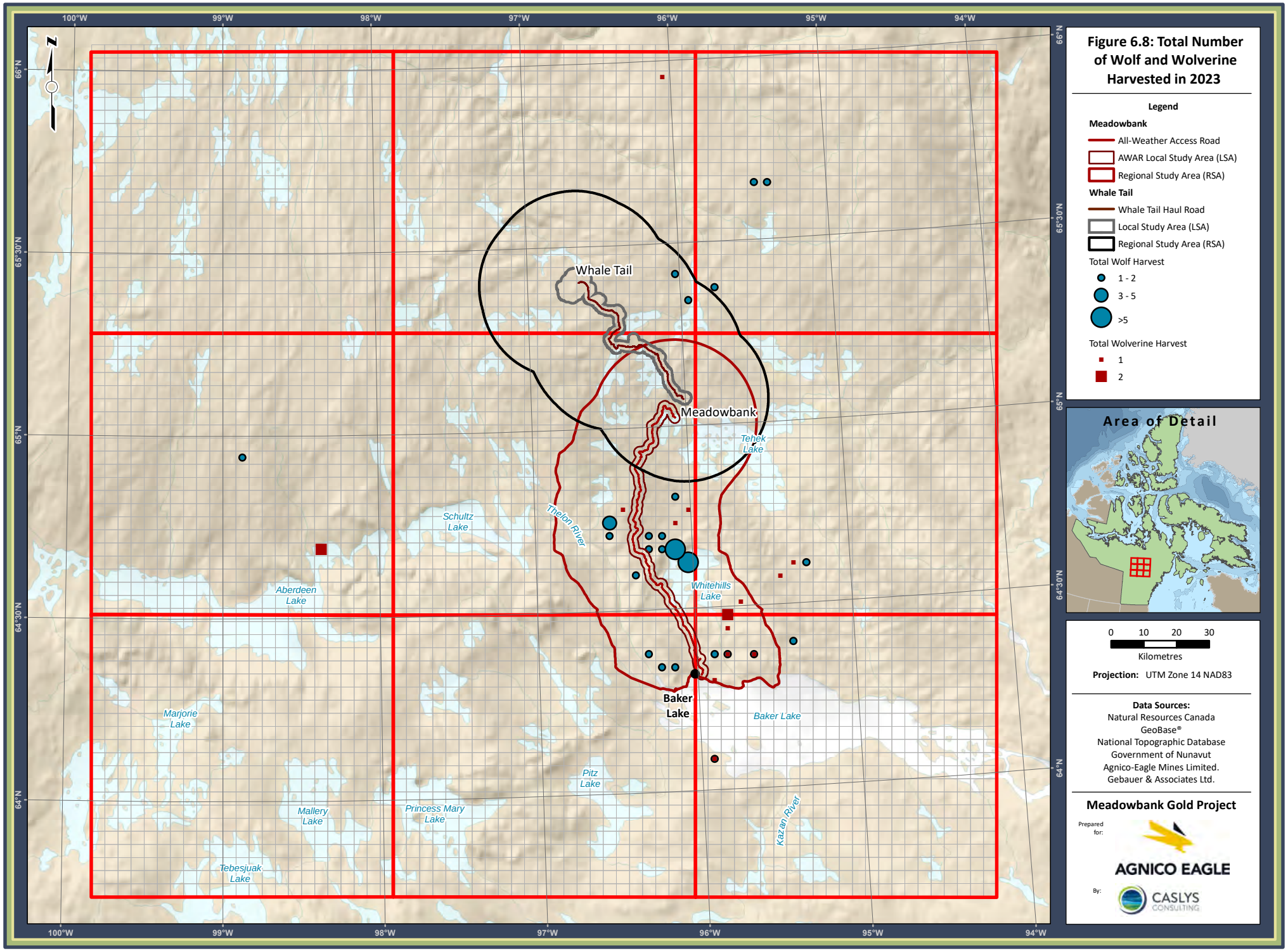
Figure 6.8: Total Number of Wolf and Wolverine Harvested in 2023
Legend
Meadowbank
All-Weather Access Road
AWAR Local Study Area (LSA)
Regional Study Area (RSA)
Whale Tail
Whale Tail Haul Road
Local Study Area (LSA)
Regional Study Area (RSA)
Total Wolf Harvest
1 - 2
3 - 5
>5
Total Wolverine Harvest
1
2
Area of Detail
0 10 20 30
Kilometres
Projection: UTM Zone 14 NAD83
Data Sources:
Natural Resources Canada
GeoBase®
National Topographic Database
Government of Nunavut
Agnico-Eagle Mines Limited.
Gebauer & Associates Ltd.
Meadowbank Gold Project
Prepared for:
AGNICO EAGLE
By:
CASLYS CONSULTING
Whale Tail
Meadowbank
Tehek Lake
Schultz Lake
Thelon River
Aberdeen Lake
Whitehills Lake
Baker Lake
Baker Lake
Marjorie Lake
Pitz Lake
Mallery Lake
Princess Mary Lake
Kazan River
Tebesjuak Lake
100°W
99°W
98°W
97°W
96°W
95°W
94°W
66°N
65°30'N
65°N
64°30'N
64°N

Bird species reported as being harvested in 2023 included Canada Goose (*Branta canadensis*; 82 individuals), ptarmigan sp. (*Lagopus* sp.; 48), Snow Goose (*Anser caerulescens*; 8), Greater White-fronted Goose (*Anser albifrons*; 2), gull species (*Larus* sp.; 2), Tundra Swan (*Cygnus columbianus*; 2), and Sandhill Crane (*Grus canadensis*; 1). Birds were reported as being collected primarily around the Hamlet of Baker Lake and Third Portage Lake near the Meadowbank Mine (**Figure 6.9).**

For the second year in a row, marine mammals were reported as being harvested. Beluga (*Huso huso*; 1 individual) and an unidentified seal species (1), were reported as being harvested by Baker Lake hunters in 2023 but these were outside the Meadowbank RSA.

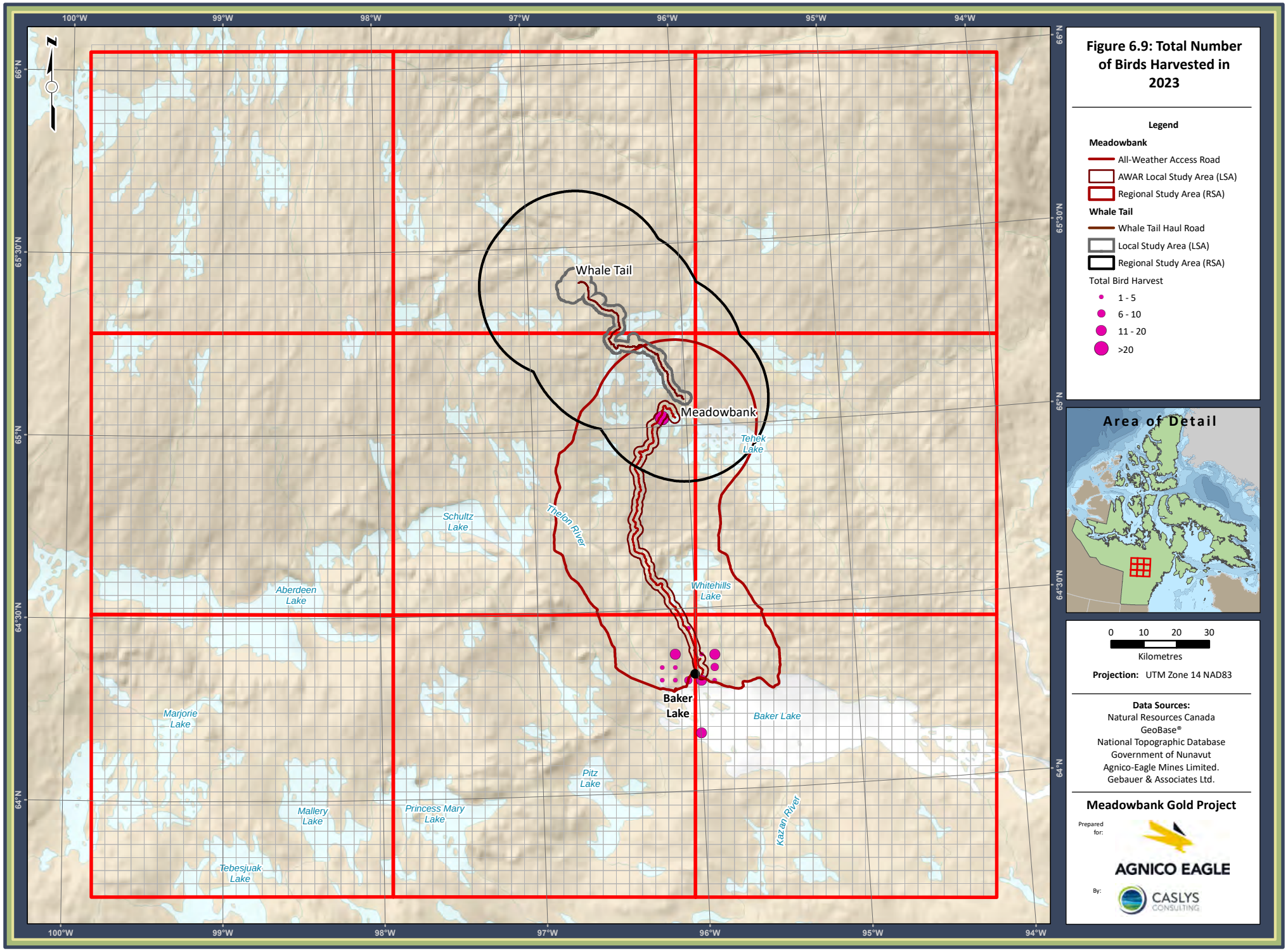
Figure 6.9: Total Number of Birds Harvested in 2023
Legend
Meadowbank
All-Weather Access Road
AWAR Local Study Area (LSA)
Regional Study Area (RSA)
Whale Tail
Whale Tail Haul Road
Local Study Area (LSA)
Regional Study Area (RSA)
Total Bird Harvest
1 - 5
6 - 10
11 - 20
>20
Area of Detail
0 10 20 30
Kilometres
Projection: UTM Zone 14 NAD83
Data Sources:
Natural Resources Canada
GeoBase®
National Topographic Database
Government of Nunavut
Agnico-Eagle Mines Limited.
Gebauer & Associates Ltd.
Meadowbank Gold Project
Prepared for:
AGNICO EAGLE
By:
CASLYS CONSULTING
Whale Tail
Meadowbank
Tehek Lake
Schultz Lake
Thelon River
Aberdeen Lake
Whitehills Lake
Baker Lake
Baker Lake
Marjorie Lake
Pitz Lake
Mallery Lake
Princess Mary Lake
Kazan River
Tebesjuak Lake
100°W
99°W
98°W
97°W
96°W
95°W
94°W
66°N
65°30'N
65°N
64°30'N
64°N

SECTION 7 • 2023 CREEL SURVEY RESULTS

7.1 NUMBER OF FISHERMEN

The number of fishermen reporting successful fishing trips in 2023 was 30, which is higher than the average of 23 fisherman from 2007 to 2015 and 2019 to 2021 (12 years), and the same as the number of fisherman reporting success in 2022. The highest number of fisherman reporting success in 2023 were in May and June (see **Table 7.1** and **Section 7.4 Magnitude of Fishing**).

Table 7.1: Number of Fisherman in the Baker Lake Area who have Recorded Fishing Success by Year and Month.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2007			4	6	7	1	1		1				20
2008	1	1	2	6	6	6	4	3			2	1	32
2009	2	2	5	10	9	9	9	6	1	8	2	2	65
2010			6	13	18	17	13	4	2	2	3	1	79
2011	1	3	6	15	21	18	9	6	2	9	9	5	104
2012	3	1	1	7	7	18	12	4	3	9	7	3	75
2013			2	5	4	11	9	1		2	1	1	36
2014	2	1	1	4	6	3	4	2		2	2	2	29
2015	1	1	1	2	9	8	6	2		3	4	2	39
2019	1	2	3	12	14	15	7	3	1	1	8	4	71
2020				1	6	9	9	5	1	4	3		38
2021	1		3	3	15	15	3	4	1	1	4		50
2022	2		2	4	16	16	7	2	3	3	2		57
2023				10	13	12	6	7	2	2	5		57
Total	**14**	**11**	**36**	**98**	**151**	**158**	**99**	**49**	**17**	**46**	**52**	**21**	**752**

7.2 COMPOSITION OF CATCH

The most common fish species captured, Lake Trout, represented 67% of the total catch in 2023, which was lower than in 2022 (72%) but the same as in 2020 and 2021 (67% in both years) (see **Table 7.2**). Lake Trout catch in 2023 was higher than the average of 58% from 2007 to 2015 and 2019 to 2022 (see **Table 7.2**). Arctic Char were caught at lower numbers in 2023 (52 individuals) than the average from 2007 to 2015 and 2019 to 2022 (74) (see **Table 7.2**). Lake Whitefish were captured in relatively low numbers in 2023.

Table 7.2: Total Number of Fish Caught between 2007 and 2015, and 2019 to 2023.

Species	2007	2008	2009	2010	2011	2012	2013	2014	2015	2019	2020	2021	2022	2023	Total
Arctic Char	3	24	117	103	113	24	96	22	41	89	75	54	202	52	1,015
Arctic Grayling			1	3	1	1			29			1	1	0	37
Lake Trout	210	825	525	860	1,710	1,014	490	353	370	900	219	481	894	490	9,341
Lake Whitefish		192	51	326	460	471	50	651	1,386	1,573	32	184	147	183	5,706
Unidentified										119	2	1		2	124
Total #	**213**	**1,041**	**694**	**1,292**	**2,284**	**1,510**	**636**	**1,026**	**1,826**	**2,681**	**328**	**721**	**1,244**	**727**	**16,223**
% Char	1	2	17	8	5	2	15	2	2	3	23	7	16	7	6
% Lake Trout	99	79	76	67	75	67	77	34	20	34	67	67	72	67	58

7.3 DISTRIBUTION OF FISHING

Fishing trips, regardless of success rate, did not generally occur beyond the immediate areas of Baker Lake, Whitehills Lake, and the lower AWAR (see **Figure 7.1**). Some fishing occurred at Pitz Lake and along the northeastern shore of Baker Lake but, unlike in 2022, fishing was not reported along the Thelon River (**Figure 7.1)**. Results indicate that study participants are less willing to travel long distances to catch fish, regardless of AWAR access, likely due to the abundance of fish near the Hamlet of Baker Lake and around Whitehills Lake.

7.4 MAGNITUDE OF FISHING

The average number of fish harvested per fisherman in each month was highest in November with lower averages in the summer months (**Figure 7.2)**. In 2023, the most captured fish species, in order of abundance, were Lake Trout, Lake Whitefish, Arctic Char, and Unidentified (see **Table 7.2**). Lower numbers of Lake Trout and Arctic Char were reported as being caught in 2023 compared to 2022. Participants mentioned during interviews that the early freshet and ice break-up appeared to have changed patterns of fish movement in 2023 with many harvesters reporting “no fish around” in the spring. Fishing was very challenging due to lack of ice for nets or jigging and incomplete open water for boat access.

7.5 SEASONAL TIMING OF FISHING

In 2023, fishing periods with the most active fisherman was May and June (see **Table 7.1**). The periods with the most fish caught included the summer months (May and June), which reflects the high number of Lake Trout caught by fisherman heading out on the land after ice melt, and November (**Figure 7.3**). This trend can be observed in the overall trends from 2007 to 2015 and 2019 to 2022 (**Figure 7.3)**.

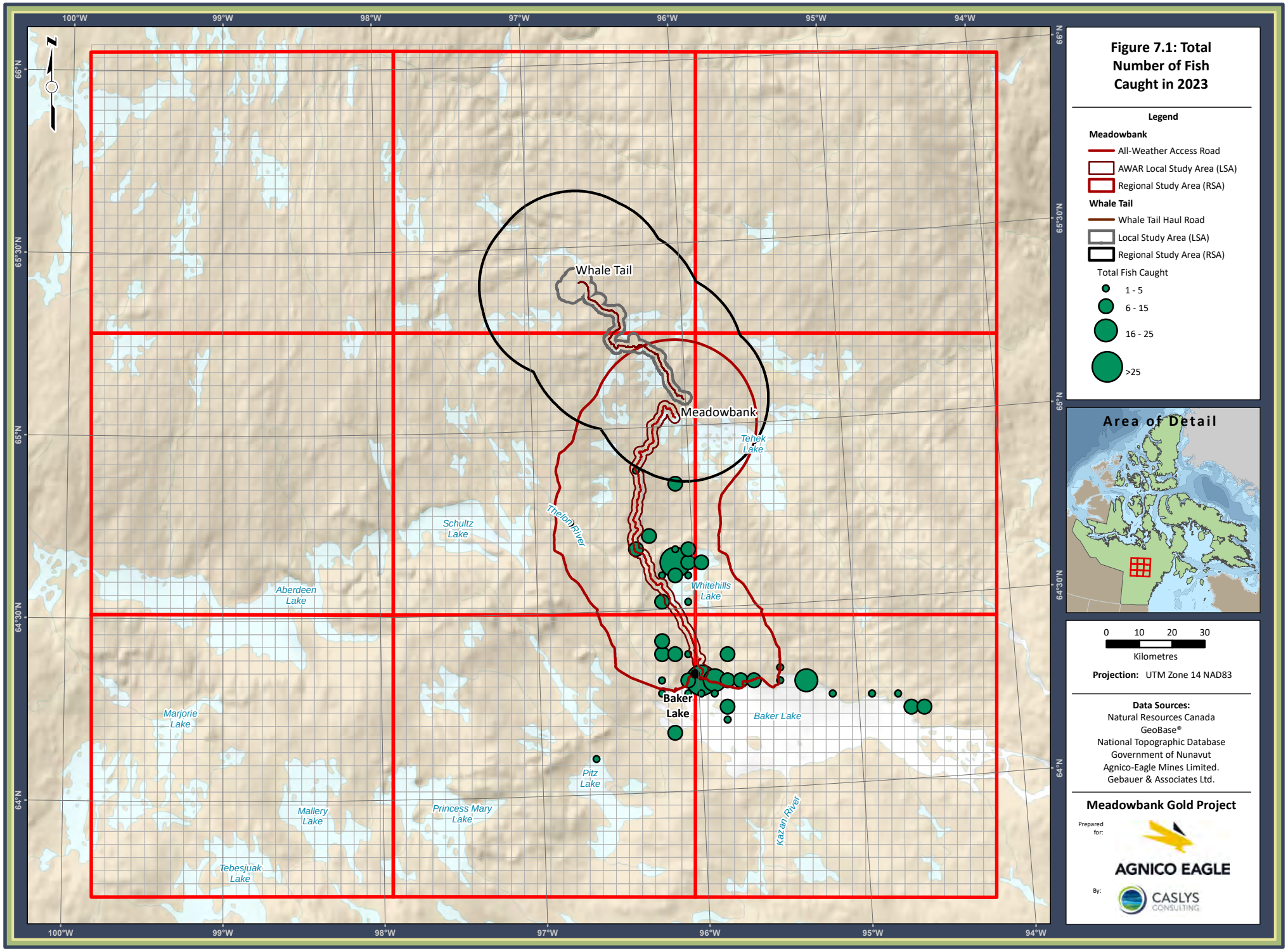
Figure 7.1: Total Number of Fish Caught in 2023
Legend
Meadowbank
All-Weather Access Road
AWAR Local Study Area (LSA)
Regional Study Area (RSA)
Whale Tail
Whale Tail Haul Road
Local Study Area (LSA)
Regional Study Area (RSA)
Total Fish Caught
1 - 5
6 - 15
16 - 25
>25
Area of Detail
0 10 20 30
Kilometres
Projection: UTM Zone 14 NAD83
Data Sources:
Natural Resources Canada
GeoBase®
National Topographic Database
Government of Nunavut
Agnico-Eagle Mines Limited.
Gebauer & Associates Ltd.
Meadowbank Gold Project
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CASLYS CONSULTING
Whale Tail
Meadowbank
Tehek Lake
Thelon River
Schultz Lake
Aberdeen Lake
Whitehills Lake
Baker Lake
Baker Lake
Marjorie Lake
Pitz Lake
Mallery Lake
Princess Mary Lake
Kazan River
Tebesjuak Lake
100°W
99°W
98°W
97°W
96°W
95°W
94°W
66°N
65°30'N
65°N
64°30'N
64°N

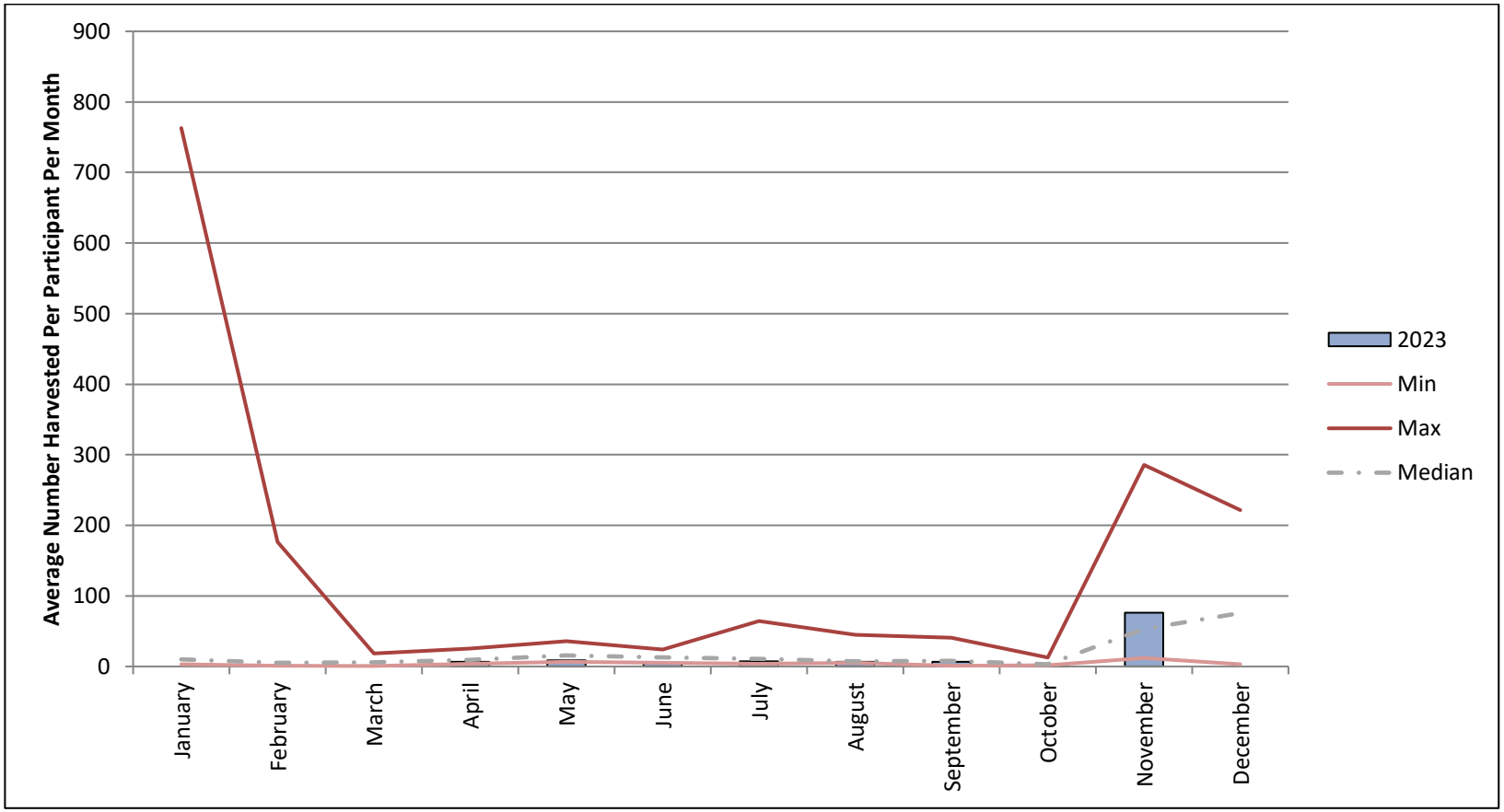

Figure 7.2: Average Number of Fish Caught per Participant in 2023 and the Minimum and Maximum Range from 2007 to 2015 and 2019 to 2022.

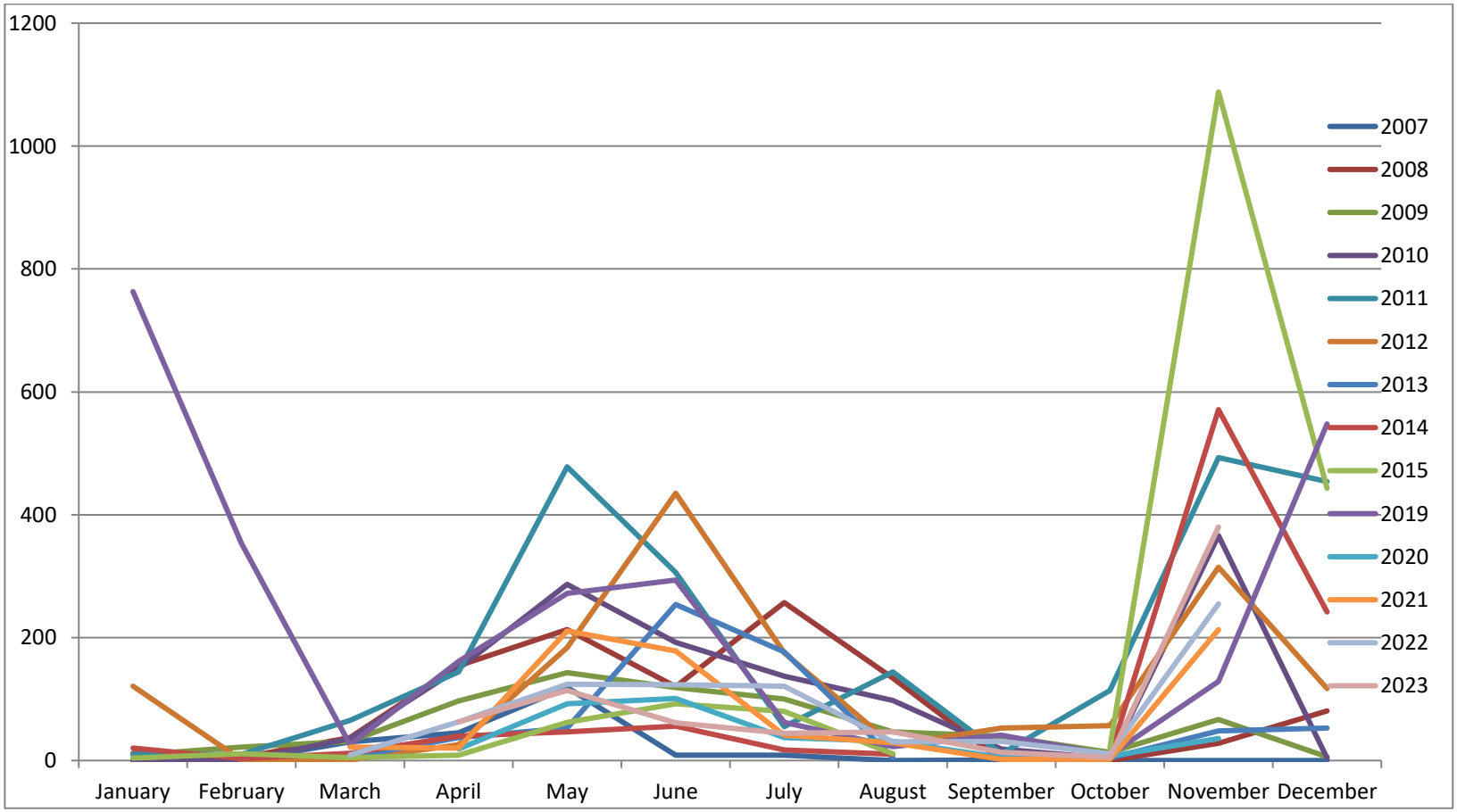

Figure 7.3: Seasonal Trends in Fishing (Number of Fish Caught) in the Baker Lake Area from 2007 to 2015 and 2019 to 2023.

SECTION 8 • ACCURACY OF IMPACT PREDICTIONS

Table 8.1 provides a summary of the impact predictions identified in the original TEMP (Cumberland 2006) and the updated June 2019 version (Agnico Eagle 2019). The 2023 HHS data were compared to the impact prediction thresholds to evaluate adherence to the impact predictions and the provision of adaptive management, as either a necessary or proactive measure. No thresholds were surpassed in 2023.

Table 8.1: Accuracy of Impact Predictions – 2023 Baker Lake HHS

Potential Effect	Threshold	RSA 20% Threshold Exceeded (2023)	Adaptive Management Implemented	Status
Meadowbank All-Weather Access Road (AWAR)				
Hunting by Baker Lake Residents	The AWAR will not result in significant changes in the spatial distribution, seasonal pattern, or harvest levels of Caribou kills by Baker Lake hunters. Changes will not exceed 20% of historical harvest activities within the RSA	NO (71% of harvest in RSA in 2023 compared to 67% baseline and average of 75% of harvest within RSA since 2007)	Future discussion with HTO and GN representatives required to identify management options	HHS Creel Survey
Whale Tail Haul Road (WTHR)				
Hunting by Baker Lake Residents	No change in harvest	NO (Only one harvest recorded within 5 km of the WTHR; harvests within the WTHR RSA were higher than most other years (except 2011 and 2019), including pre-construction)	None required. Access by hunters is restricted in the growing season and very limited hunting occurs in the winter.	HHS Satellite-collaring Program

SECTION 9 • MANAGEMENT RECOMMENDATIONS

The Baker Lake HHS and Creel Survey should be continued on an annual basis to monitor the hunting and fishing patterns of Baker Lake residents, and the potential effects of the Meadowbank Complex Mine. Meetings with participants every four months (3 times/year) in 2024 are particularly important in maintaining contact, building relationships, expanding the study, and collecting good harvest data. Participation rates can be maintained by continuing to use social media platforms such as Facebook and Instagram, expanding connections on these platforms, ensuring that all participants are visited during the three scheduled field visits, and continuing with distribution of the well-received year-end prizes while in the community. In addition, an effort should be made to continue recruiting new, and particularly young, hunters for the HHS.

SECTION 10 • LITERATURE CITED

Agnico Eagle Mines Ltd. (AEM) 2019. Meadowbank Division, Terrestrial Ecosystem Management Plan. Version 6, June 2019.

Cumberland Resources Ltd. 2006. Meadowbank Gold Mine Project Terrestrial Ecosystem Management Plan (TEMP). Final Report, December 2006.

NWMB, Nunavut Wildlife Management Board. 2004. The Nunavut Wildlife Harvest Study. Prepared by Priest, H., Harvest Study Coordinator, NWMB and Usher, P. J., P.J. Usher Consulting Services.

APPENDIX A

2023 Hunter Harvest Calendar