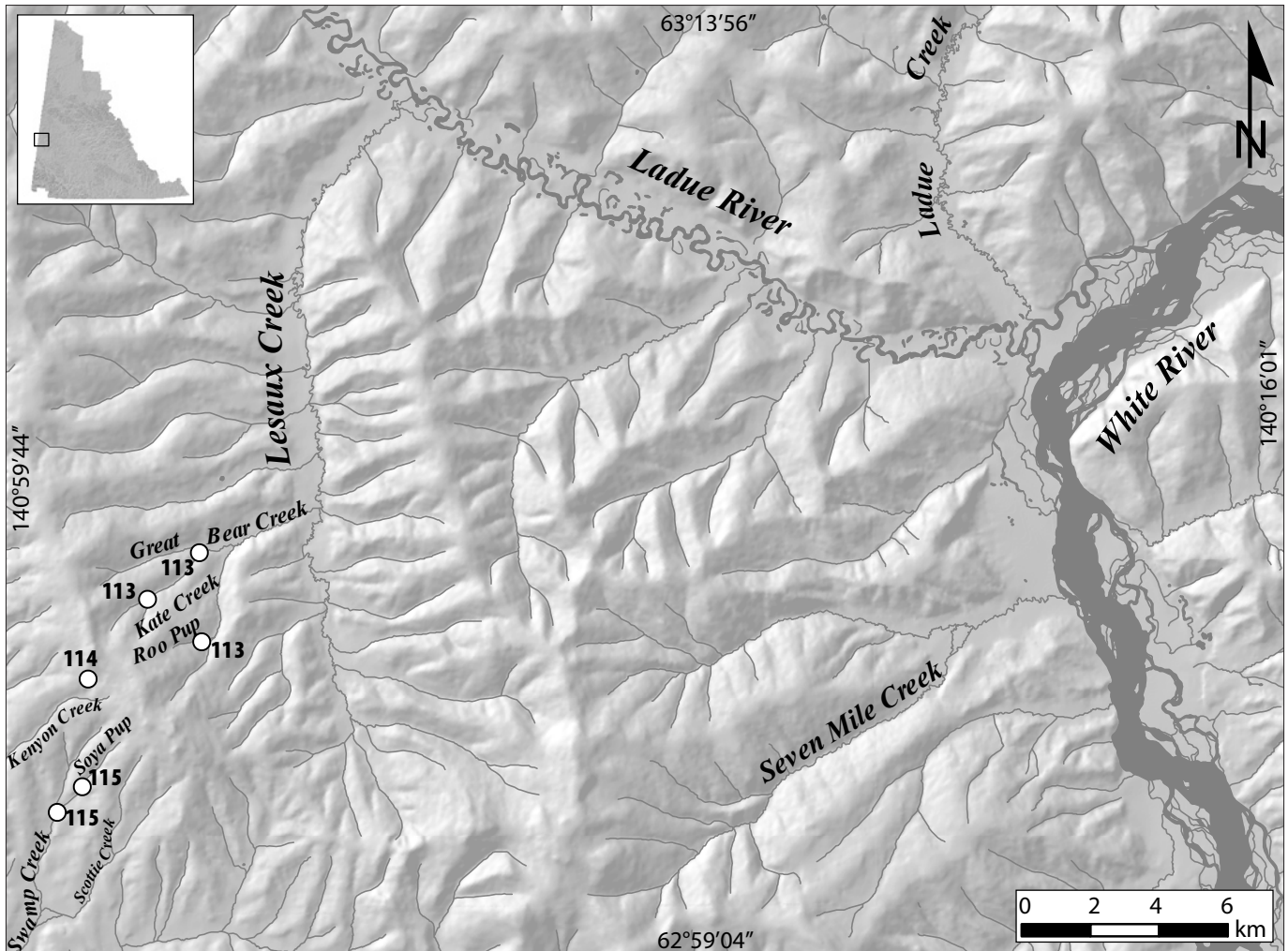


MOOSEHORN PLACER AREA

SITES
113-115



LEGEND

- 113.....Moosehorn Exploration Ltd., Kate Creek, Roo Pup
- 114.....Moosehorn Exploration Ltd., Diana Creek
- 115.....Moosehorn Exploration Ltd., Swamp Creek

KATE CREEK, a tributary of Great Bear Creek

115N/2
 2006: 63°05'37"N, 140°53'11"W
 2005: 63°04'13"N, 140°53'06"W
 2003: 63°04'53"N, 140°54'58"W

Moosehorn Exploration Ltd., Ian Warrick, Kate Warrick

Water licenses: PM97-002 (2007), PM99-044 (2007), PM98-018 (2008)

Active producer (2003-2006)

Operation no. 113

LOCATION Between 2003 and 2006, mining took place on Kate Creek and Roo Pup, as well as Swamp, Soya and Diana creeks on the other side of the Moosehorn ridge.

WORK HISTORY AND MINING CUTS The Warricks began working this area in 1989 and have mined nearly continuously each year since. In 2003 and 2004, a lack of precipitation caused problems, however, one cut was mined each year. Mr. Warrick worked on Soya and Swamp creeks for much of the time. In 2005, precipitation was much greater and one cut was mined with a dimension of 225 by 60 by 15 feet (70 x 20 x 5 m). In 2006, two to four miners and one camp person worked a daily 11-hour shift. Two cuts were stripped: one cut 225 by 60 by 15 feet (70 x 20 x 5 m) and one cut 225 by 60 by 3 feet (70 x 20 x 1 m). Most of this material was sluiced.

EQUIPMENT AND WATER TREATMENT From 2003 to 2006, equipment included a Caterpillar D9H bulldozer for stockpiling pay, a Caterpillar 980C loader for feeding the sluice and removing tailings, a Caterpillar D7 bulldozer for road maintenance, and a Caterpillar 225LC excavator for general support. The wash plant was a wet dump box with ¾-inch grizzly feeding into a 4-run sluice with hydraulic, angle-iron and expanded metal riffles. A Morris 10- by 12-inch Caterpillar-powered pump supplied 2000 igpm for processing 75 loose cubic yards per hour. Water was acquired from in-stream ponds and effluent was settled in-stream and 100% recycled. Clean-ups were done with a jig and gold wheel.

SURFICIAL GEOLOGY AND STRATIGRAPHY In the seasons 2003 to 2006, the section consisted of 60 feet (20 m) of gravel with very little overburden. All of the gravel was pay and was sluiced.

BEDROCK GEOLOGY Bedrock at this site is deeply weathered granodiorite.

GOLD CHARACTERISTICS The gold was mainly fine-grained, with rare 4-mesh-sized nuggets. Some gold was rounded, locally with quartz attached. The fineness was 820. Gold recovered from 2003 to 2006 was frothy and crystalline, with a fineness of 800.



Moosehorn Exploration mining on Kate Creek, 2005.



Moosehorn Exploration's wash plant on Kate Creek, 2005.

DIANA CREEK, a tributary of Kenyon Creek

115N/2

2006: 63°03'38"N, 140°57'01"W

Moosehorn Exploration Ltd.

Water license: PM05-469 (2010)

Exploration (2005-2006)

Operation no. 114

LOCATION Diana Creek is a right-limit tributary to Kenyon Creek.

WORK HISTORY AND MINING CUTS In 2005, Diana Creek was explored for placer potential and Swamp and Soya creeks were explored for their hard-rock potential. The total crew was three miners and one camp person working a daily 11-

hour shift. In 2006, two to four miners and one camp person worked on Swamp Creek, Kate Creek and Diana Creek.

Two cuts were stripped and trenched: one cut 300 by 75 by 4½ feet (100 x 20 x 2 m), and one cut 225 by 90 by 12 feet (70 x 30 x 4 m).

EQUIPMENT AND WATER TREATMENT In 2005 and 2006, Moosehorn Exploration Ltd.'s equipment consisted of Caterpillar D8 and D7 bulldozers, two Caterpillar 225LC excavators and two Caterpillar 966C loaders. Various pieces of machinery were brought to the property from the Kate Creek and Swamp Creek localities to conduct stripping and testing.

SWAMP CREEK, a tributary of Scottie Creek

115N/2

2006: 63°01'33"N, 140°58'06"W

2003: 63°01'57"N, 140°57'14"W

Moosehorn Exploration, Ian Warrick, Kate Warrick

Water license: PM98-018 (2008)

Active producer (2003-2006)

Operation no. 115

LOCATION The operation was located on the west side of the Moosehorn Range. Moosehorn Exploration mined Swamp, Soya and Diana creeks under this license.

WORK HISTORY AND MINING CUTS The Warricks began mining here in 1998. In 2003 and 2004, the crew consisted of two miners and one camp person working a daily 11-hour shift. One cut was made on the left limit of Soya Creek and one cut was made on the left limit of Swamp Creek. A lack of water for these two years, less than 6 inches (15 cm) of precipitation each year including snow melt, caused the creeks to dry up. Exploration was conducted when mining was not taking place. In 2005, Diana Creek (an unnamed right-limit tributary of Kenyon Creek) was explored for placer potential and Swamp and Soya creeks were explored for their hard-rock potential. The total crew was three miners and one camp person working a daily 11-hour shift. In 2006, two to four miners and one camp person worked both on this property and on Kate Creek. Two cuts were stripped: one 300 by 90 by 3 feet (100 x 30 x 1 m) on Swamp Creek, and one 300 by 45 by 15 feet (100 x 15 x 5 m) at the confluence of Swamp and Soya creeks. No sluicing took place.

EQUIPMENT AND WATER TREATMENT From 2003 to 2006, equipment consisted of Caterpillar D8 and D7 bulldozers, two Caterpillar 225LC excavators, and two Caterpillar 966C loaders. The Caterpillar D8 and D7 bulldozers were used for stripping and mining, while the two Caterpillar 225LC excavators were used for trenching and test pits, and the two Caterpillar 966C loaders were used for feeding the sluice and tailings removal. A scraper was used for hauling test pit samples. The wash plant consisted of a wet dump box, ¾-inch grizzly and sluice run with hydraulic riffles, hydraulic angle iron riffles and expanded metal. The Monarch 6- by 6-inch pump powered by Isuzu supplied the 1000 igpm needed to process 45 loose cubic yards per hour. Water was acquired through an in-stream reservoir and effluent was 100% recycled. Clean-ups were done with a jig and wheel.

SURFICIAL GEOLOGY AND STRATIGRAPHY In 2003 and 2004, from 6 to 30 feet (2 to 10 m) of frozen black muck was overlying up to 20 feet (6 m) of gravel on bedrock. From 1 to 20 feet (0.3 to 6 m) of gravel was sluiced along with 1 foot (0.3 m) of bedrock.

BEDROCK GEOLOGY The bedrock at this site is decomposed *in-situ* intrusive rock.

GOLD CHARACTERISTICS Gold was frothy and crystalline, with a fineness of 800.



Kate and Ian Warrick's operation on Swamp Creek, 2003.