



**Assessment Report for
Quaternary (overburden) Drilling performed
on the
PUCK Property
Between July 25th and September 2nd, 2005**

List of claims and Grant Numbers

Grant Number	Claim Name
YB58651-YB58676	FOOT 95-120
YB58727-YB58730	FOOT 171-174
YB61006-YB61037	FOOT 233-264
YB61048-YB61058	FOOT 275-285
YB61314-YB61315	FOOT 549-550
YB61756	FOOT 575
YB61760-YB61767	FOOT 579-586
YB70735	FOOT FRA 603
YB87695-YB87718	CUP 1-24
YB55979-YB56058	PUCK 1-80

**NTS Map sheet number
105G/08, Wolverine Lake
In the
Watson Lake Mining District, Yukon Territory**

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Introduction

Yukon Zinc Corporation (formerly Expatriate Resources Ltd.) holds a 100% interest in the FOOT, CUP, and PUCK claims, covering approximately 10 kilometres of a thick sequence of felsic stratigraphy along strike with the polymetallic Wolverine deposit (Figure 1.), called the Puck Property. The Wolverine Stratigraphy has been the focus of exploration for several periods between 1995 and 2004 that includes 132 drill holes that tested moderate to strong multi element (zinc, lead, and copper) soil geochemistry anomaly associated with moderate to strong geophysical anomalies from airborne EM and magnetic surveys. This multidisciplinary approach of exploration near Wolverine Lake resulted in the discovery of the Wolverine Deposit. The Puck Property consists of 189 contiguous claims adjacent to the contiguous group of FOOT claims covering the Wolverine Deposit, and may provide additional land for development of the Wolverine Project, if necessary.

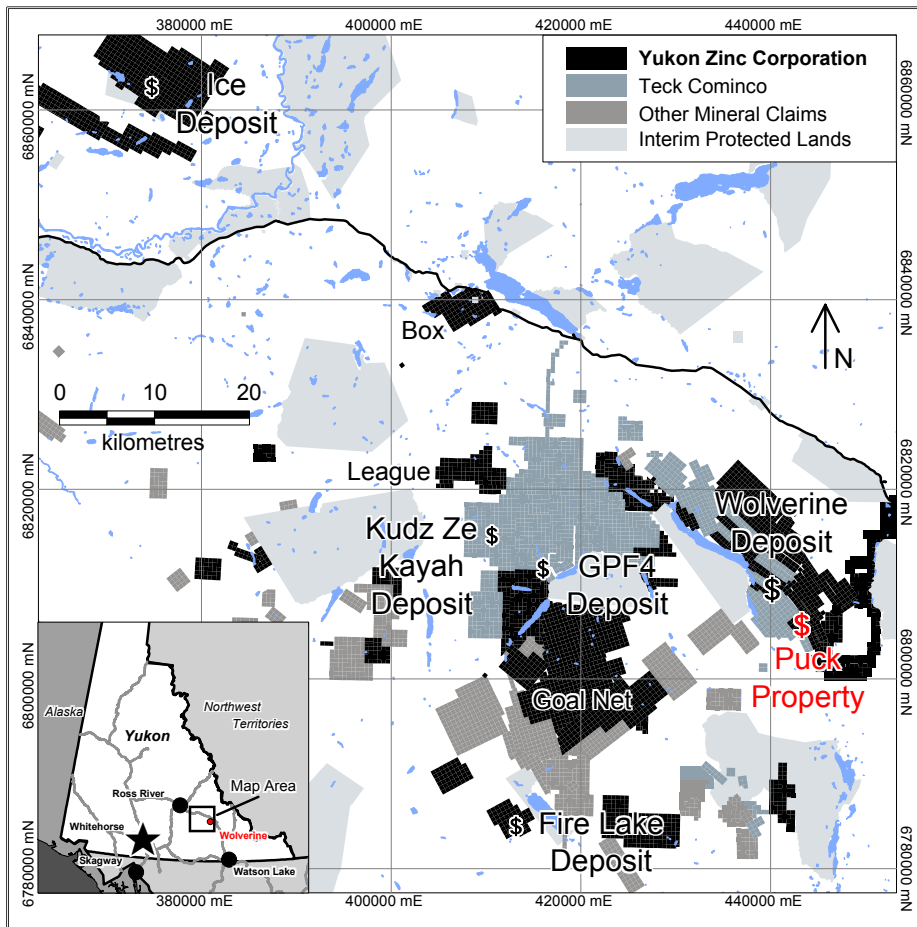


Figure 1. Map of the Finlayson District showing the location of the Wolverine Deposit and surrounding deposits.

In 2005, a quaternary drilling and test pitting program was conducted on the Puck Property, to investigate depth to bedrock and overburden quality. Several of these drill sites were used as water monitoring sites as well, and have been fitted with instruments to measure water quality and quantity. Klohn Crippen Berger Ltd. was contracted to supervise the project with the onsite help from two Yukon Zinc Geologists.

The drilling was performed on two claims PUCK 26, and PUCK 28, and cost \$127,919.03, with \$5,245.45 in wages for two geologist totalling \$133,164.48. This money was used to renew the following claims for 4 years per claim (Table 1.):

Grant Number	Claim Name	Years Requested	New Expiry Date	Grant Number	Claim Name	Years Requested	New Expiry Date
YB58651	FOOT 95	4	31/03/2014	YB87705	CUP 11	4	17/03/2015
YB58652	FOOT 96	4	31/03/2014	YB87706	CUP 12	4	17/03/2015
YB58653	FOOT 97	4	31/03/2014	YB87707	CUP 13	4	17/03/2015
YB58654	FOOT 98	4	31/03/2014	YB87708	CUP 14	4	17/03/2015
YB58655	FOOT 99	4	31/03/2014	YB87709	CUP 15	4	17/03/2015
YB58656	FOOT 100	4	31/03/2014	YB87710	CUP 16	4	17/03/2015
YB58657	FOOT 101	4	31/03/2014	YB87711	CUP 17	4	17/03/2015
YB58658	FOOT 102	4	31/03/2014	YB87712	CUP 18	4	17/03/2015
YB58659	FOOT 103	4	31/03/2014	YB87713	CUP 19	4	17/03/2011
YB58660	FOOT 104	4	31/03/2014	YB87714	CUP 20	4	17/03/2011
YB58661	FOOT 105	4	31/03/2014	YB87715	CUP 21	4	17/03/2011
YB58662	FOOT 106	4	31/03/2014	YB87716	CUP 22	4	17/03/2011
YB58663	FOOT 107	4	31/03/2014	YB87717	CUP 23	4	17/03/2011
YB58664	FOOT 108	4	31/03/2014	YB87718	CUP 24	4	17/03/2011
YB58665	FOOT 109	4	31/03/2014	YB55979	PUCK 1	4	17/03/2018
YB58666	FOOT 110	4	31/03/2014	YB55980	PUCK 2	4	17/03/2014
YB58667	FOOT 111	4	31/03/2014	YB55981	PUCK 3	4	17/03/2018
YB58668	FOOT 112	4	31/03/2014	YB55982	PUCK 4	4	17/03/2018
YB58669	FOOT 113	4	31/03/2014	YB55983	PUCK 5	4	17/03/2018
YB58670	FOOT 114	4	31/03/2014	YB55984	PUCK 6	4	17/03/2018
YB58671	FOOT 115	4	31/03/2014	YB55985	PUCK 7	4	17/03/2018
YB58672	FOOT 116	4	31/03/2014	YB55986	PUCK 8	4	17/03/2018
YB58673	FOOT 117	4	31/03/2014	YB55987	PUCK 9	4	17/03/2018
YB58674	FOOT 118	4	31/03/2014	YB55988	PUCK 10	4	17/03/2018
YB58675	FOOT 119	4	31/03/2014	YB55989	PUCK 11	4	17/03/2018
YB58676	FOOT 120	4	31/03/2014	YB55990	PUCK 12	4	17/03/2018
YB58727	FOOT 171	4	31/03/2014	YB55991	PUCK 13	4	17/03/2018
YB58728	FOOT 172	4	31/03/2014	YB55992	PUCK 14	4	17/03/2018
YB58729	FOOT 173	4	31/03/2014	YB55993	PUCK 15	4	17/03/2014
YB58730	FOOT 174	4	31/03/2014	YB55994	PUCK 16	4	17/03/2014
YB61006	FOOT 233	4	07/03/2014	YB55995	PUCK 17	4	17/03/2014
YB61007	FOOT 234	4	07/03/2014	YB55996	PUCK 18	4	17/03/2014
YB61008	FOOT 235	4	07/03/2014	YB55997	PUCK 19	4	17/03/2018
YB61009	FOOT 236	4	07/03/2014	YB55998	PUCK 20	4	17/03/2018
YB61010	FOOT 237	4	07/03/2014	YB55999	PUCK 21	4	17/03/2018
YB61011	FOOT 238	4	07/03/2014	YB56000	PUCK 22	4	17/03/2018
YB61012	FOOT 239	4	07/03/2014	YB56001	PUCK 23	4	17/03/2018
YB61013	FOOT 240	4	07/03/2014	YB56002	PUCK 24	4	17/03/2018
YB61014	FOOT 241	4	07/03/2014	YB56003	PUCK 25	4	17/03/2018
YB61015	FOOT 242	4	07/03/2014	YB56004	PUCK 26	4	17/03/2018
YB61016	FOOT 243	4	07/03/2014	YB56005	PUCK 27	4	17/03/2018
YB61017	FOOT 244	4	07/03/2014	YB56006	PUCK 28	4	17/03/2018
YB61018	FOOT 245	4	07/03/2014	YB56007	PUCK 29	4	17/03/2018
YB61019	FOOT 246	4	07/03/2014	YB56008	PUCK 30	4	17/03/2018
YB61020	FOOT 247	4	07/03/2014	YB56009	PUCK 31	4	17/03/2014
YB61021	FOOT 248	4	07/03/2014	YB56010	PUCK 32	4	17/03/2014
YB61022	FOOT 249	4	07/03/2014	YB56011	PUCK 33	4	17/03/2014
YB61023	FOOT 250	4	07/03/2014	YB56012	PUCK 34	4	17/03/2014
YB61024	FOOT 251	4	07/03/2014	YB56013	PUCK 35	4	17/03/2018
YB61025	FOOT 252	4	07/03/2014	YB56014	PUCK 36	4	17/03/2018
YB61026	FOOT 253	4	07/03/2014	YB56015	PUCK 37	4	17/03/2018
YB61027	FOOT 254	4	07/03/2014	YB56016	PUCK 38	4	17/03/2018

YB61028	FOOT 255	4	07/03/2014	YB56017	PUCK 39	4	17/03/2018
YB61029	FOOT 256	4	07/03/2014	YB56018	PUCK 40	4	17/03/2018
YB61030	FOOT 257	4	07/03/2014	YB56019	PUCK 41	4	17/03/2018
YB61031	FOOT 258	4	07/03/2014	YB56020	PUCK 42	4	17/03/2018
YB61032	FOOT 259	4	07/03/2014	YB56021	PUCK 43	4	17/03/2018
YB61033	FOOT 260	4	07/03/2014	YB56022	PUCK 44	4	17/03/2018
YB61034	FOOT 261	4	07/03/2014	YB56023	PUCK 45	4	17/03/2014
YB61035	FOOT 262	4	07/03/2014	YB56024	PUCK 46	4	17/03/2014
YB61036	FOOT 263	4	07/03/2014	YB56025	PUCK 47	4	17/03/2014
YB61037	FOOT 264	4	07/03/2014	YB56026	PUCK 48	4	17/03/2014
YB61048	FOOT 275	4	07/03/2014	YB56027	PUCK 49	4	17/03/2014
YB61049	FOOT 276	4	07/03/2014	YB56028	PUCK 50	4	17/03/2014
YB61050	FOOT 277	4	07/03/2014	YB56029	PUCK 51	4	17/03/2014
YB61051	FOOT 278	4	07/03/2014	YB56030	PUCK 52	4	17/03/2014
YB61052	FOOT 279	4	07/03/2014	YB56031	PUCK 53	4	17/03/2014
YB61053	FOOT 280	4	07/03/2014	YB56032	PUCK 54	4	17/03/2014
YB61054	FOOT 281	4	07/03/2014	YB56033	PUCK 55	4	17/03/2014
YB61055	FOOT 282	4	07/03/2014	YB56034	PUCK 56	4	17/03/2014
YB61056	FOOT 283	4	07/03/2014	YB56035	PUCK 57	4	17/03/2014
YB61057	FOOT 284	4	07/03/2014	YB56036	PUCK 58	4	17/03/2014
YB61058	FOOT 285	4	07/03/2014	YB56037	PUCK 59	4	17/03/2014
YB61314	FOOT 549	4	07/03/2014	YB56038	PUCK 60	4	17/03/2014
YB61315	FOOT 550	4	07/03/2014	YB56039	PUCK 61	4	17/03/2014
YB61756	FOOT 575	4	07/03/2014	YB56040	PUCK 62	4	17/03/2014
YB61760	FOOT 579	4	07/03/2014	YB56041	PUCK 63	4	17/03/2014
YB61761	FOOT 580	4	07/03/2014	YB56042	PUCK 64	4	17/03/2014
YB61762	FOOT 581	4	07/03/2014	YB56043	PUCK 65	4	17/03/2014
YB61763	FOOT 582	4	20/03/2014	YB56044	PUCK 66	4	17/03/2014
YB61764	FOOT 583	4	20/03/2014	YB56045	PUCK 67	4	17/03/2014
YB61765	FOOT 584	4	20/03/2014	YB56046	PUCK 68	4	17/03/2014
YB61766	FOOT 585	4	07/03/2014	YB56047	PUCK 69	4	17/03/2014
YB61767	FOOT 586	4	07/03/2014	YB56048	PUCK 70	4	17/03/2014
YB70735	FOOT FRA 603	4	07/03/2018	YB56049	PUCK 71	4	17/03/2014
YB87695	CUP 1	4	17/03/2015	YB56050	PUCK 72	4	17/03/2014
YB87696	CUP 2	4	17/03/2015	YB56051	PUCK 73	4	17/03/2014
YB87697	CUP 3	4	17/03/2015	YB56052	PUCK 74	4	17/03/2014
YB87698	CUP 4	4	17/03/2015	YB56053	PUCK 75	4	17/03/2014
YB87699	CUP 5	4	17/03/2015	YB56054	PUCK 76	4	17/03/2014
YB87700	CUP 6	4	17/03/2015	YB56055	PUCK 77	4	17/03/2014
YB87701	CUP 7	4	17/03/2015	YB56056	PUCK 78	4	17/03/2014
YB87702	CUP 8	4	17/03/2015	YB56057	PUCK 79	4	17/03/2014
YB87703	CUP 9	4	17/03/2011	YB56058	PUCK 80	4	17/03/2014
YB87704	CUP 10	4	17/03/2011				

Table 1. List of claims, grant numbers, and expiry dates.

Property Location and Access

The Puck Property is located adjacent to the FOOT Claims which cover the Wolverine deposit. The Wolverine Camp is located 275.5km east-north-east of Whitehorse in the Yukon Territories. It is located about 15km from the Robert Campbell Highway (kilometre 198) about halfway between Ross River and Watson Lake in the Campbell Range of the Pelly Mountains (Figure 2.). Access to Wolverine camp is restricted to airplane (a 1 kilometre gravel airstrip is located 6.6 kilometre away from camp with road access between them) or helicopter. The drill, which was on site for work on the Wolverine Deposit, was moved to the drill sites using a D6C Cat

on pre-existing roads or trails where available, or new trails were created keeping ground disturbance to a minimum (Figure 3).

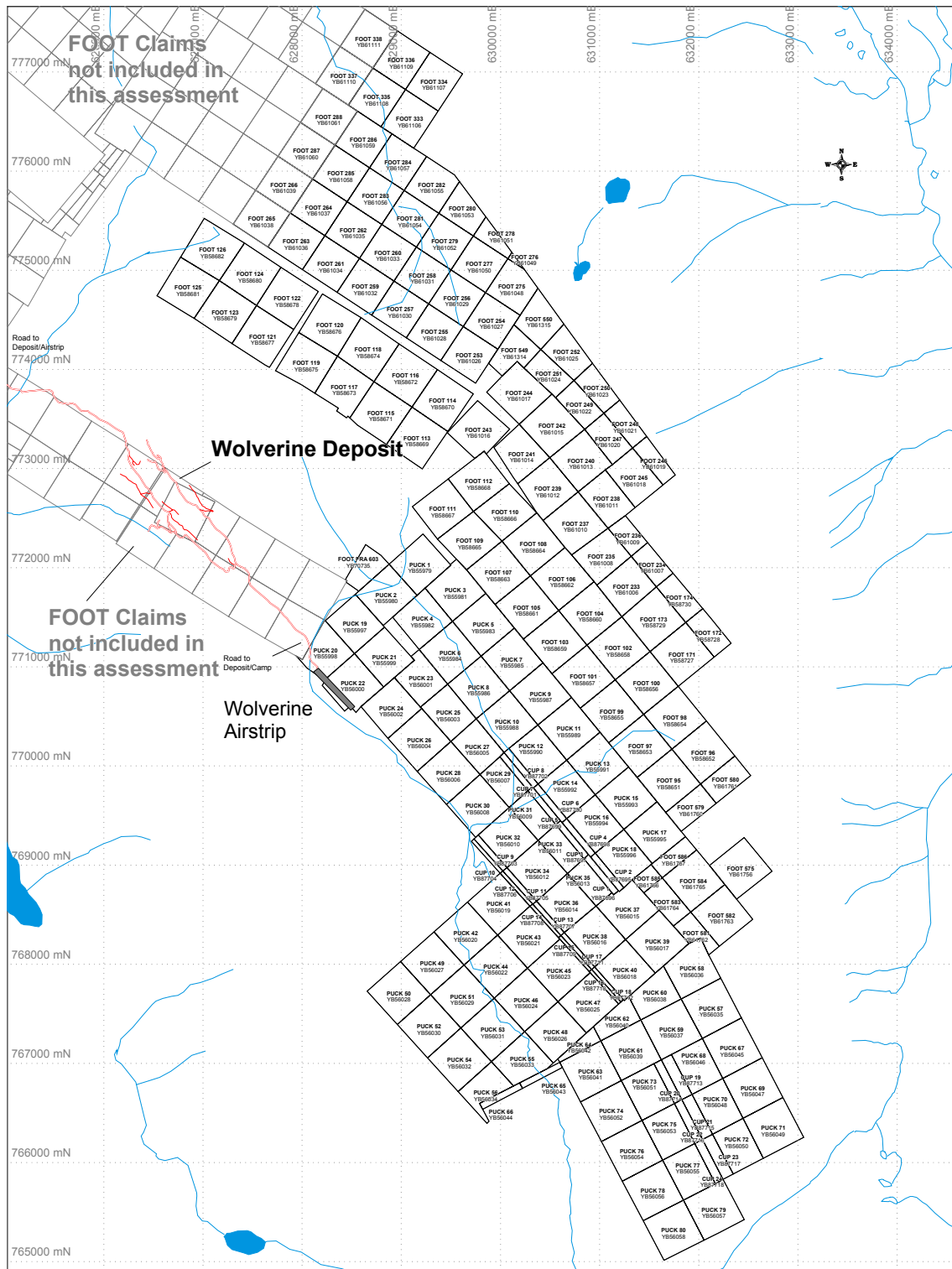


Figure 2. Map of the Puck Property showing the location of the FOOT, CUP and PUCK claims, the Wolverine deposit (and associated FOOT Claims not included in this report), and the Wolverine Airstrip.

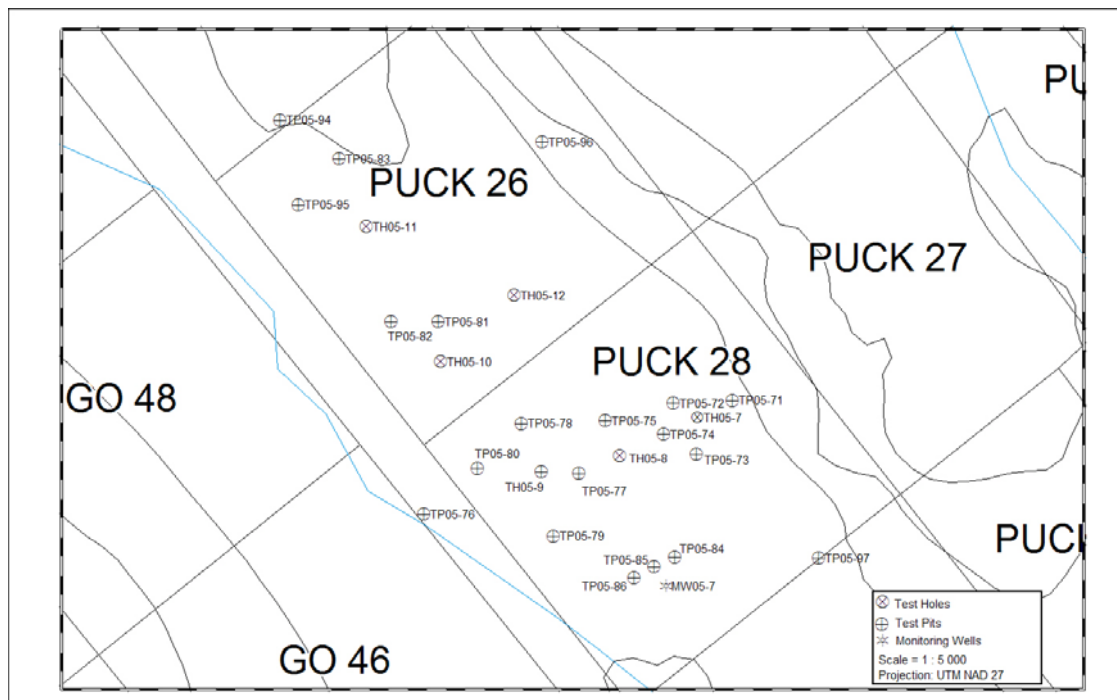


Figure 3. Close up of the PUCK 26, and PUCK 28 Claims showing the distribution of test holes, test pits and monitoring wells.

Regional Geology

The Yukon-Tanana Terrane is a large autochthonous geological province extending from Alaska, through The Yukon Territory and into north-central British Columbia (Figure 4). It consists of mid-late Paleozoic volcanic, plutonic, and sedimentary rocks (References). The volcanic-hosted massive sulphide deposits of the Finlayson Lake District are located in the eastern most section of the Yukon Tanana Terrane, which has been displaced to the south-east by the Tintina Fault Zone (Figure 1). The Finlayson Lake District has been divided into 3 distinct successions separated by regional unconformities (Murphy, 1998; Piercey and Murphy, 2000). The lower most unit (called the Grass Lakes Succession) consists of mafic and felsic metavolcanic rocks, carbonaceous metaclastic rocks, marbles, and granitic orthogneiss. The Kudze Kayah and GP4F deposits are located within the upper portion of this succession. The middle unit (called the Wolverine Succession) consists of carbonaceous argillite, felsic volcanics and high level intrusions, and as well as exhalative carbonate and/or iron oxides. The Wolverine (polymetallic, sediment hosted, massive sulphide) deposit occurs near the base of Wolverine Succession. The upper most unit (called the Campbell Range Succession) consists of mafic metavolcanic rocks and wackes.

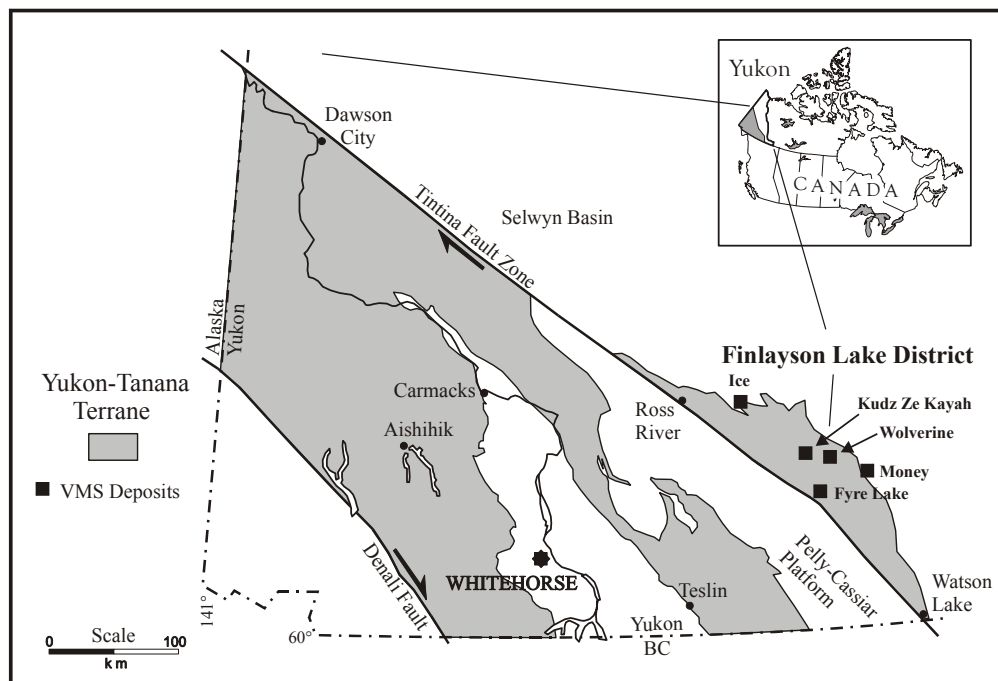


Figure 4. Location of the Wolverine Deposit (in the Wolverine Succession), and other VHMS deposits with respect to the Yukon-Tanana Terrane, Yukon, Canada (modified from Piercey, 2001; Wheeler and McFeely, 1991 and Hunt, 1998).

Quaternary Geology

The following description of the Quaternary geology of the Wolverine, and Puck properties, and surrounding area is taken from Yukon Zinc's Environmental Assessment Report prepared for the Wolverine Project in 2005.

Regional Context

The landscape of the area is typical of an area that has undergone intense modification by ice and subsequent meltwater. Its glacial history is complex due to the history of multiple glaciations that have directly affected the area. Mougeot Geoanalysis (1996) described the Yukon as being subjected to four glacial episodes over the last two millions years; these glaciations include the Nansen and Klaza (oldest) glaciations and Reid and McConnell (youngest) glaciations. All have been described as moving in a northerly direction into central Yukon. The project area has also been modified by erosion, solifluction, and volcanic ash deposition. The Quaternary history of the project area however is dominated by the impact of the last ice age with periglacial, colluvial, fluvial and volcanic processes playing a lesser role.

During the last glacial period (McConnell Glaciation), between 14 000 and 35 000 years ago, ice including complex ice caps and cirque glaciers moved across the eastern part of the project area in a northwesterly to westerly direction and extended to heights of about 1,525 m (Hatch 2004 in Crippen 2004; Anonymous 2002). As the glaciers slowly retreated, they down-wasted and developed a complex network of ice tongues in the valley bottoms (Crippen 2004; Gartner Lee Limited 2004; Mougeot Geoanalysis 1996).

This resulted in morainal deposits dominating the lower slope and valley bottom positions, and to a lesser extent, created complex assemblages of glaciofluvial, glaciolacustrine and fluvial sediments. In lower slope areas where deposition is common, colluvial and fluvial deposits have masked pre-existing sediments. For example, colluvium has created cones and fans on the lower slopes that effectively mask the pre-existing sediments. Morainal materials also dominate mountain tops, depressions and smaller valleys (generally with a narrow band of fluvial materials). Upper slopes contain both colluvial and morainal materials intermixed with bedrock outcrops. The colluvium in this area originates from weathered and frost shattered bedrock as well as colluviated moraine. Steep upper slopes are dominated by colluvium and bedrock outcroppings that are often weathered and frost shattered. These features as well as avalanches can probably be attributed to slope

steepening that occurred during glaciation. Gullying, active floodplains and organic soils are also found throughout the project area.

The presence of permafrost was difficult to determine at the survey intensity level of this study. This is complicated by the fact that the project area is located within the northern part of the discontinuous permafrost zone (Burns 2002). Mougeot Geoanalysis (1996) estimated that permafrost was extensive and described mud and stone circles, stripes and pushed up stones at high elevations and solifluction and soil creep on many slopes. Mougeot Geoanalysis (1996) also described the large peat palsas (up to 2.5 meters thick) occurring southeast of the project. This study also found evidence of cryoturbated soils in the floodplain immediately east of the airstrip and in all alpine areas (mountain tops) visited during the field inventory reconnaissance program. All of the following periglacial processes were found in the alpine areas of this study: solifluction lobes, blockfields, sorted polygons, stripes and pushed up stones. Ground ice was also found overlain by organic materials in one of the high elevation soil profiles sampled. Crippen (2004) also described permafrost as occurring within the overburden (0 m to 7.9 m) in the log of Puck Drillhole PK96-6. A thermokarst feature was also found in the glaciolacustrine materials of Light Creek. In general, this study found that permafrost was more or less continuous in the alpine areas (mountain tops) and discontinuous in the upper elevational valleys and the headwaters of Go Creek. There is likely less permafrost present in the lower elevations of the Bunker and Light Creek valleys.

Morainal materials are the most widespread sediment type, occupying approximately 64% of the project area. These materials were deposited directly by glacier ice in a sub, or supra-glacial setting. Colluvial surficial materials are also common, occupying about 24% of the project area. These materials are most common on steeper slopes. Organic and fluvial materials co-dominate valley bottoms and lower slopes each representing approximately five percent of the total project area. Lesser amounts of glaciolacustrine (<1%), glaciofluvial (about 2%) and lacustrine (<1%) materials are also present. Bedrock outcroppings account for <1% of the study area.

A detailed description of the map units shown in [Figure 5](#) is given in the Environmental Assessment Report, and can be found online on Yukon Zinc's website at <http://www.yukonzinc.com> or directly through the Yukon Government website at <http://www.gov.yk.ca/depts/eco/dap/projects/wolverine/index.html>.

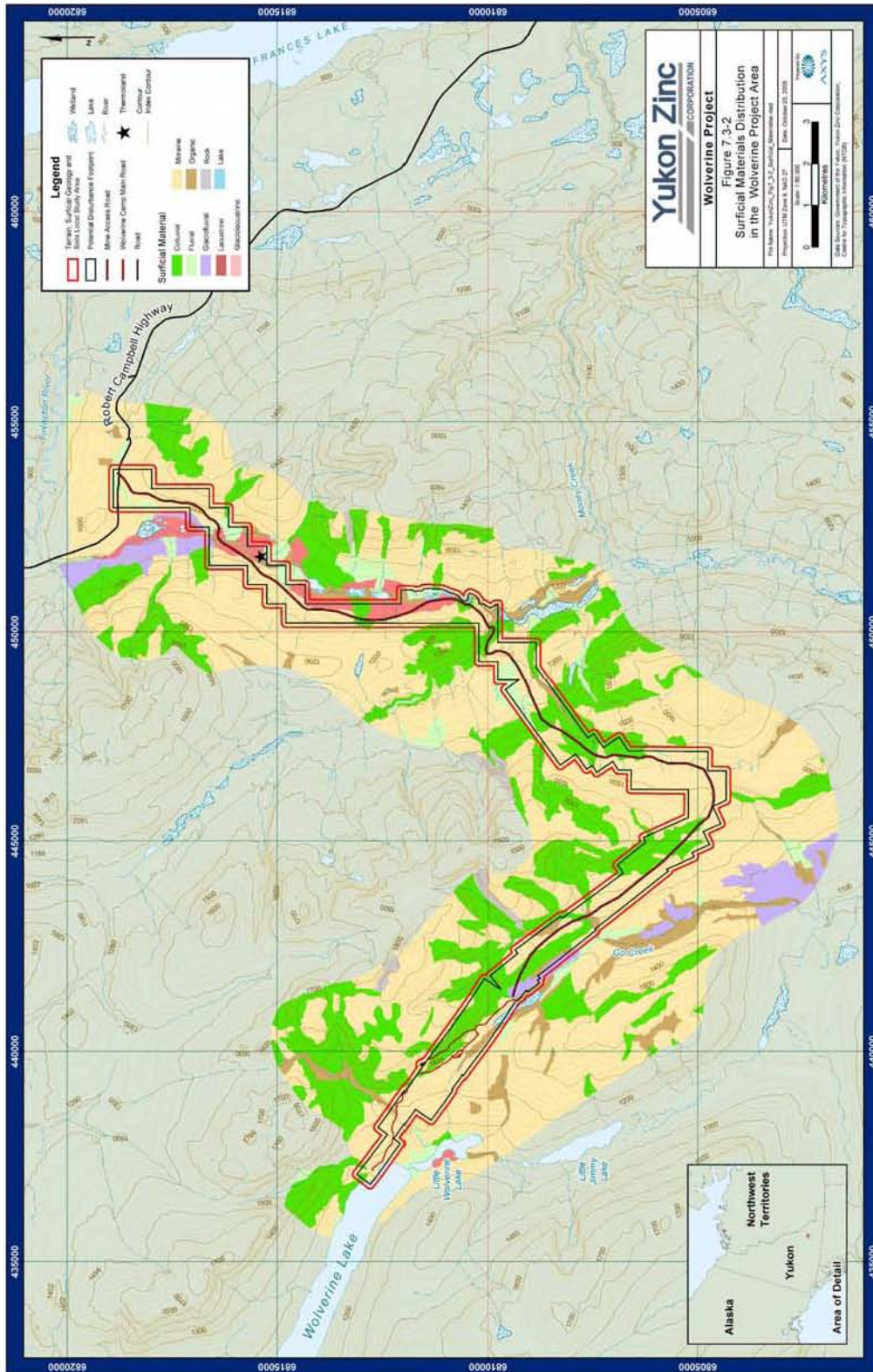


Figure 5. (Figure 7.3-2 of the Environmental Assessment Report) provides a simplified visual representation on how the surficial materials are distributed in the Wolverine and Puck area.

Methods

The following methods and results are taken from the Klohn Crippen Report (2005).

The site investigation programs were mainly carried out using a 420D Cat backhoe mounted on rubber tires from Yukon Zinc, and a BBS-25A diamond drill rig from Advanced Drilling Ltd. of Surrey, B.C. Manuel Reyes of Klohn Crippen carried out initial investigations for both phases with the assistance of Yukon Zinc's geologists: Robin Black and Eleanor Alesi, who completed the investigations with ongoing monitoring by Manuel Reyes from off site. Locations of test pits, test holes and groundwater monitoring wells for the proposed tailings facility are shown in Figure 7.3.1 for an alternate site, Site 1 and Figure 7.3.2 for the proposed site, Site 2. The results for the proposed site are included with this report, whereas the results from the alternate site will not be included with this report.

The drilling program consisted of Standard or Large Penetration tests and falling-head permeability tests in overburden materials; and performing packer permeability tests and diamond coring with HQ3 core barrel in bedrock. The penetration tests were carried out to retrieve soil samples for further laboratory testing as well as to evaluate in situ soil density. Similarly, core samples of bedrock were obtained by diamond coring. All core recovered is stored at the Wolverine Camp lower core storage area. In situ permeability of subsoil and bedrock were obtained by the falling-head and packer tests.

Most of the test pits were excavated to a maximum depth of about 5 m using the 420D Cat backhoe. In areas inaccessible to the backhoe shallower test pits were excavated manually or drilled manually using a hand-operated auger drill to a maximum depth of 1 m. All test hole and test pit locations were surveyed using a GPS unit owned by Yukon Zinc, and the ground surface elevations were estimated using the site contour map with 2 m contour intervals. Samples retrieved from the drillholes and test pits were further tested in Klohn Crippen's laboratory in Vancouver. Geotechnical laboratory testing included visual classification, moisture content, and gradation tests. Additional standard Proctor compaction tests, triaxial permeability and shear strength tests were either carried out or are planned using the potential borrow materials for the dam fill.

Two 1-in diam. 30 cm long piezometer tips were installed in most test holes with 1-in Schedule 40 PVC riser pipes. One 2-in diam. well screen with Schedule 80 PVC well pipe was installed in each Monitoring Well. A pressure gauge with a by-pass valve set up was installed at the top of each artesian installation. Temperature profiles were also recorded at test holes.

As shown in Figure 6. (Figure 7.3.2 of Klohn Crippen Report 2005) (after page 12), this investigation included 6 test holes, 2 monitoring wells and 23 test pits. Test Holes TH05-7 to TH05-11 were drilled along the L-shaped dam proper, and Test Hole TH05-12 was drilled inside the tailings impoundment. Monitoring Well MW05-6 was drilled upstream of the impoundment, while MW05-7 drilled downstream of the Seepage Recovery Dam downstream of the Tailings Dam. Test Pits TP05-71 to TP05-83, TP05-94 and TP05-95 were excavated in the footprint of Tailings Dam, TP05-84 to TP05-86 excavated in the footprint of the Seepage Recovery Dam, and TP05-91 to TP05-93, TP05-96 and TP05-97 excavated along the diversion ditches and spillway channels.

Field procedures for Standard (or 3-in diameter) Large Penetrometer tests and permeability tests carried out in Phase 2 investigation are summarized in Tables Table 3, 4, 5, and 6 (Tables 7.3.4, 7.3.5, 7.3.6 and 7.3.7 or the Klohn Crippen report):

Investigation Area	Type of Hole/Well	Hole No.	Location		Size of Core/Hole	Target Depth	Est. Depth to Sound Bedrock ?
			UTM NAD 27 Zone 9 Easting	UTM NAD 27 Zone 9 Northing			
Tailings Dam	Test Hole	TH 05-7	442686	6808164	HQ3 3.782"	min. 20 m and 5 m into bedrock	10 m
	Test Hole	TH 05-8	442583	6808114	HQ3 3.782"	min. 35 m and 5 m into bedrock	25 m
	Test Hole	TH 05-9	442479	6808092	HQ3 3.782"	min. 20 m and 5 m into bedrock	15 m
	Test Hole	TH 05-10	442346	6808238	HQ3	min. 20 m and 5 m into bedrock	15 m

	Test Hole	TH 05-11	442248	6808417	3.782" HQ3 3.782"	min. 20 m and 5 m into bedrock	15 m
Tailings Basin	Test Hole	TH 05-12	442444	6808326	No Core 3.782"	5 m into bedrock	-
	Monitoring Well	MW 05-6A	441655	6809322	No Core 3.782"	5 m into bedrock	-
	Monitoring Well	MW 05-6B	441655	6809322	No Core 3.782"	5 m	-
	Monitoring Well	MW 05-7A	442643	6807941	No Core 3.782"	5 m into bedrock	-
	Monitoring Well	MW 05-7B	442643	6807941	No Core 3.782"	5 m	-

Table 2. List of drill hole and monitoring wells on the Puck Property.

Test Hole	Depth (m)	SPT or LPT	SPT or LPT Blow Count per foot, N	Converted SPT Blow Count, N	Converted (N ₁) ₆₀
TH05-7	1.52	LPT	101	65	112
	3.05	LPT	81	52	89
	4.57	LPT	29 blows per 6"	-	-
	6.10	LPT	30 blows per 5"	-	-
	9.14	LPT	35 blows per 6"	-	-
	12.19	LPT	30+ blows per 1"	-	-
	15.24	LPT	32+ blows per 4"	-	-
	18.29	LPT	21+ blows per 2"	-	-
	21.34	LPT	37 blows per 3"	-	-
24.38	LPT	21 blows per 3"	-	-	
TH05-8	1.52	LPT	20+ blows per 6"	-	-
	3.05	LPT	47 blows per 12"	-	-
	4.57	LPT	48+ blows per 12"	-	-
	6.10	LPT	42+ blows per 10"	-	-
	9.14	LPT	50+ blows per 12"	-	-
	12.19	LPT	30+ blows per 6"	-	-
	15.24	LPT	60 blows per 6"	-	-
	18.29	LPT	80+ blows per 9"	-	-
TH05-9	1.52	SPT	57	57	97
	3.05	SPT	51	51	86
	4.57	SPT	125	125	172
	6.10	SPT	20 blows per 6"	-	-
	9.14	SPT	26 blows per 5"	-	-
	12.19	SPT	23 blows per 2"	-	-
	15.24	SPT	23 blows per 4"	-	-
	18.29	SPT	23 blows per 2"	-	-
	21.34	SPT	26 blows per 2"	-	-
	24.38	SPT	24 blows per 3.5"	-	-
	27.43	SPT	24 blows per 2.5"	-	-
30.48	SPT	25 blows per 3"	-	-	
TH05-10	1.52	SPT	20+ blows per 6"	-	-
	3.05	SPT	20+ blows per 6"	-	-

Table 3. (Table 7.3.3 of Klohn Crippen Report 2005) Summary of Large and Standard Penetrometer Test Results.

Test Hole No.	Test Section Depth (m)		Test Section Diam. (mm)	k
	From	To		cm/sec
TH05-7	1.52	1.52	101.6	7.8E-02
	3.05	3.05	101.6	8.4E-03
	4.57	4.57	101.6	6.9E-02
	6.10	6.10	101.6	2.7E-02
	9.14	9.14	101.6	2.9E-02
	12.19	12.19	101.6	7.7E-03

	15.24	15.24	101.6	1.0E-02
	18.29	18.29	101.6	2.8E-04
	21.34	21.34	101.6	1.4E-03
	24.38	24.38	101.6	4.3E-03
TH05-8	1.52	1.52	101.6	1.7E-01
	3.05	3.05	101.6	7.0E-02
	4.57	4.57	101.6	2.9E-02
	6.10	6.10	101.6	6.9E-03
TH05-9	1.52	1.52	76.2	1.3E-02
	3.05	3.05	76.2	2.3E-02
	6.10	6.10	76.2	9.5E-03
	9.14	9.14	76.2	5.7E-02
	12.19	12.19	76.2	1.0E-01
	15.24	15.24	76.2	4.1E-01
	18.29	18.29	76.2	5.2E-02
	21.34	21.34	76.2	1.5E-02
	24.38	24.38	76.2	5.7E-02
	27.43	27.43	76.2	9.2E-02
	30.48	30.48	76.2	3.1E-03
TH05-10	1.52	1.52	76.2	5.7E-03
	4.57	4.57	76.2	4.4E-02
	6.10	6.10	76.2	5.0E-02
	9.14	9.14	76.2	3.4E-02
	12.19	12.19	76.2	2.5E-02
	15.24	15.24	76.2	5.0E-02
	18.29	18.29	76.2	7.1E-02
	31.09	31.09	76.2	3.6E-03
	33.53	33.53	76.2	4.0E-03
TH05-11A	3.05	3.05	76.2	1.2E-01
	4.57	4.57	76.2	3.6E-03
	6.10	6.10	76.2	7.7E-03
	9.14	9.14	76.2	4.1E-03
TH05-11B	6.10	6.10	76.2	6.6E-02
	9.14	9.14	76.2	6.0E-03
	12.19	12.19	76.2	1.1E-02
	21.34	21.34	76.2	2.1E-01
	24.38	24.38	76.2	9.4E-03
	28.35	28.35	76.2	2.6E-02
	30.48	30.48	76.2	1.9E-03
	33.53	33.53	76.2	6.6E-03
	36.58	36.58	76.2	6.8E-03
	42.67	42.67	76.2	1.8E-02
	1.52	1.52	76.2	2.6E-01
	3.05	3.05	76.2	6.1E-04
	4.57	4.57	76.2	6.9E-03
	6.10	6.10	76.2	4.1E-03
	9.14	9.14	76.2	3.1E-03
TH05-12	12.19	12.19	76.2	1.1E-02
	18.29	18.29	76.2	1.4E-02
	21.34	21.34	76.2	1.6E-02
	24.38	24.38	76.2	1.5E-02

Table 4. (Table 7.3.4 of Klohn Crippen Report 2005) Summary of Falling-Head Permeability Test Results.

Test Hole No.	Test Section Depth (m)		Test Section Diam. (mm)	Average k
	From	From		cm/s
TH05-8	24.70	30.80	96.0	5.5E-05
TH05-9	30.50	35.10	75.7	3.1E-04
TH05-10	35.05	38.10	75.7	1.5E-04
TH05-11	44.20	46.30	75.7	1.4E-05
TH05-12	27.58	29.60	75.7	1.6E-05

Table 5. (Table 7.3.5 of Klohn Crippen Report 2005) Summary of Packer Permeability Test Results.

Test Hole No.	Depth (m)		Hole Dia. (mm)	k
	From	To		cm/sec
MW05-3A	1.07	1.52	96	2.8E-04
	2.60	3.05	96	0.0E+00 ¹
	4.12	4.57	96	0.0E+00 ¹
	5.65	6.10	96	1.7E-04
	8.69	9.14	96	4.9E-04
	11.74	12.19	96	3.5E-04
	14.79	15.24	96	0.0E+00 ¹
	17.84	18.29	96	0.0E+00 ¹
MW05-5A	3.05	3.05	76	1.0E-01
	6.10	6.10	76	1.2E-02
	9.14	9.14	76	6.7E-03
	12.19	12.19	76	8.0E-03
	15.24	15.24	76	6.3E-03
	18.29	18.29	76	6.6E-03
MW05-6	1.52	1.52	102	2.0E-04
	3.05	3.05	102	7.8E-04
	4.57	4.57	102	3.6E-03
	6.10	6.10	102	1.3E-03
	9.14	9.14	102	4.8E-03
	12.19	12.19	102	2.3E-04
	15.24	15.24	102	3.1E-03
	18.29	18.29	102	1.4E-02
	21.34	21.34	102	1.8E-02

Note: 1. No visible change in piezometric head during test.

Table 6. (Table 7.3.6 of Klohn Crippen Report 2005) Summary of Falling-Head Permeability Test Results – Monitoring Wells.

Test Hole No.	Depth (m)		Hole Dia. (mm)	Average k cm/s
	From	To		
MW05-1A	18.29	22.86	96	5.4E-04
MW05-2A	18.29	22.86	96	0.0E+00 ¹
MW05-3A	18.75	22.86	96	0.0E+00 ¹
MW05-5	21.10	26.50	76	4.7E-05
MW05-6A	21.30	25.70	96	1.2E-05
MW05-7A	24.70	30.20	96	3.6E-05

Note: 1. No visible change in piezometric head during test.

Table 7. (Table 7.3.7 of Klohn Crippen Report 2005) Summary of Packer Permeability Test Results – Monitoring Wells.

Implications for Exploration and Recommendations

The data collected during this project will be used to assess the outlined areas on the Puck Property for potential use for infrastructure for the Wolverine Project. The quality and quantity of overburden will help define areas for potential tailings facilities, and/or building material.

Statement of Expenditures

I, Gilles Dessureau, as an agent for Yukon Zinc Corporation, #701-475 Howe Street, Vancouver, B.C. do solemnly declare that drilling work carried out on the Puck Claims (see attached list) between the dates of July 25th and September 2nd, 2005.

Expenditure type	Description	Cost
Drilling Costs	Drilling Costs - 6 Drill Holes and test work	\$127,919.03
Labor	Two Geologists - 26 days combined	\$5,245.45
	Total Money Available for assessment	\$133,164.48

	Total Meters Drilled	Cost per meter
	160	\$832.28
Claim	Meters drilled per claim	Money Available per claim
PUCK 26	75	\$62,420.85
PUCK 28	85	\$70,743.63
		\$133,164.48

Table 8. List of expenditures for the PUCK property 2005.

The drilling was performed on two claims, PUCK 26, and PUCK 28. Drilling was distributed between the two claims based on the drilling performed on each claim.

References

Bradshaw, G.D., Tucker, T.L., Peter, J.M., Paradis, S., and Rowins, S.M., 2001. Geology of the Wolverine polymetallic volcanic hosted massive sulphide deposit, Finlayson Lake district, Yukon Territory, Canada. Yukon Exploration and Geology, 2001. D.S. Emond and L.H. Weston (eds), Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, p. 269-287.

Hunt, J.A., 1998. Recent discoveries of volcanic-associated massive sulphide deposits in the Yukon: Canadian Institute of Mining and Metallurgy Bulletin, v. 90, p. 56-65.

Piercey, S.J. 2001. Petrology and tectonic setting of the felsic and mafic volcanic and intrusive rocks in the Finlayson Lake Volcanic-hosted massive sulphide (VHMS) District, Yukon, Canada: A record of Mid-Paleozoic Arc and Back Arc Magmatism and Metallogeny. PhD. Thesis, University of British Columbia, Canada.

Wheeler, J.O., and McFeely, P., 1991. Tectonic Assemblage Map of the Canadian Cordillera and Adjacent Parts of the United States of America: Geological Survey of Canada, Map 1712A, Scale 1: 2000 000.

Respectfully Submitted,

Gilles Dessureau, M.Sc.
Project Geologist
Yukon Zinc Corporation

Appendix I

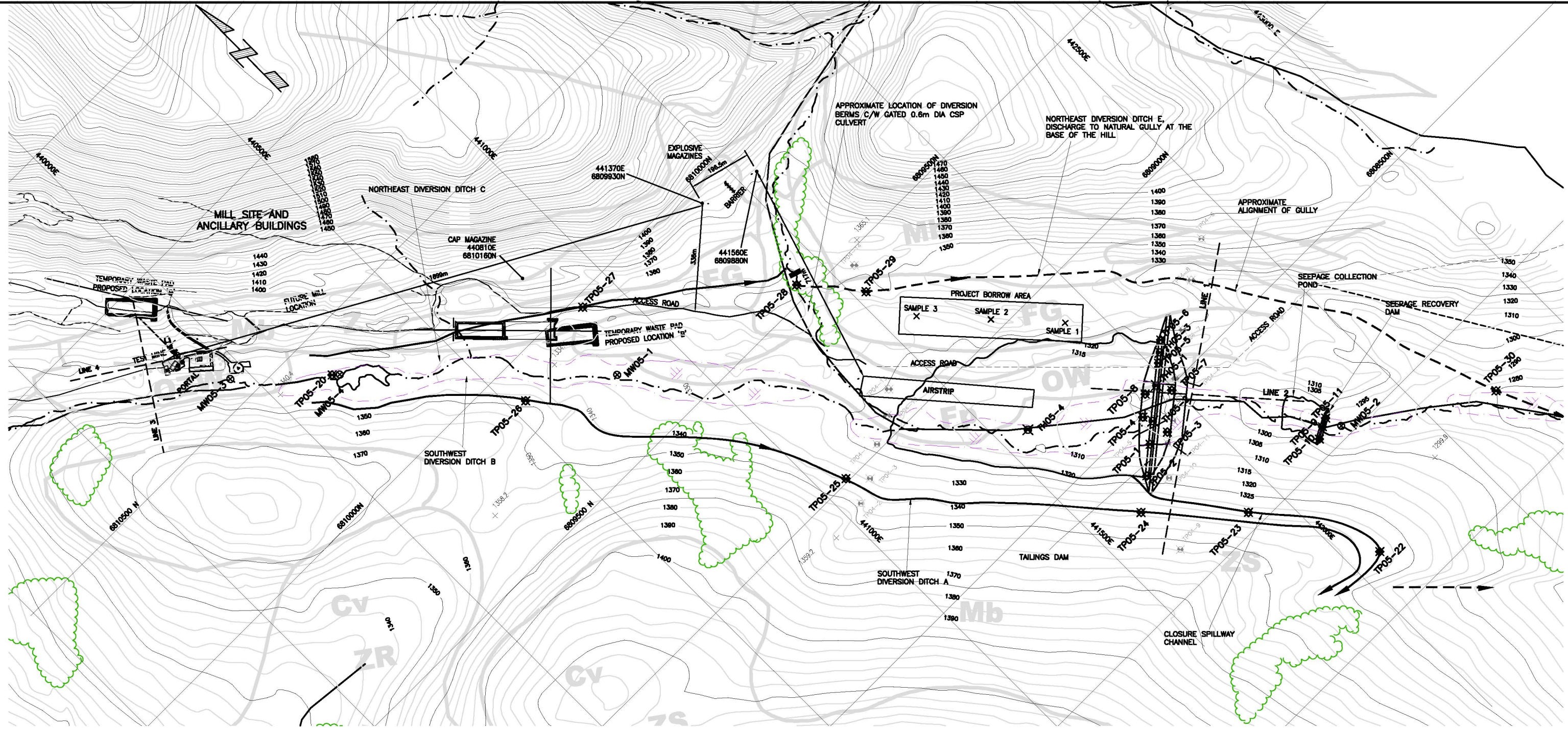
Author's statement of qualifications

I, Gilles Dessureau, Project Geologist, for Yukon Zinc Corporation, do hereby certify that:

1. I graduated from St. Mary's University in Halifax, Nova Scotia with a Bachelor of Science with Honors in Geology in 1998.
2. I graduated from Laurentian University in Sudbury, Ontario with a Masters of Science in Geology in 2003.
3. From 2004 to present I have been an employee of Yukon Zinc Corporation (formerly Expatriate Resources Ltd.)
4. I have personally supervised and participated in the work described herein.

Respectfully Submitted,

Gilles Dessureau, M.Sc.
Project Geologist
Yukon Zinc Corporation



LEGEND

- ⊕ TH05-1 TEST HOLE
- ⊕ TP05-1 TEST PIT
- ⊕ MW05-1 MONITORING HOLE
- MULTI-ELECTRODE RESISTIVITY SURVEY LINE

DIVERSION DITCH

TP05-20	440179E	6810366N
TP05-22	442093E	6807676N
TP05-23	441890E	6808051N
TP05-24	441654E	6808287N
TP05-25	441080E	6809010N
TP05-26	440548E	6809884N
TP05-28	441397E	6809544N
TP05-29	441535E	6809376N
TP05-30	442702E	6807776N

SEEPAGE DAM

TP05-9	442241E	6808076N
TP05-11	442268E	6808088N
TP05-10	442208E	6808056N

TAILINGS DAM

TH05-1	441966E	6808534N
TH05-2	441881E	6808462N
TH05-3	442048E	6808597N
TH05-4	441587E	6808717N
TH05-5	442021E	6808577N
TH05-7	441990E	6808488N
TP05-1	441824E	6808417N
TP05-2	441748E	6808355N
TP05-3	441889E	6808406N
TP05-4	441867E	6808492N
TP05-6	442077E	6808622N
TP05-8	441923E	6808538N

MW05-1	440806E	6809740N
MW05-2	442285E	6808037N

NOTE
1. DAM OUTLINE SHOWN HAS BEEN SUPERCEDED.



Scale: 1=40FPS
 Drawing File: M:\09234A02-Wolverine Feasibility Design & Enviro. Assess\400 Design\410 Drawings\Facility-Study\Fig.7.3-2.dwg (cwgnc)
 3/5/2010 10:00 AM
 Writer: GEOLOGY, Jami 325, Wolvcontour1, Camp to Airport Roads

AS A MUTUAL PROTECTION TO OUR CLIENT, THE PUBLIC AND OURSELVES, ALL REPORTS AND DRAWINGS ARE SUBMITTED FOR THE CONFIDENTIAL INFORMATION OF OUR CLIENT FOR A SPECIFIC PROJECT AND AUTHORIZATION FOR USE AND/OR PUBLICATION OF DATA, STATEMENTS, CONCLUSIONS OR ABSTRACTS FROM OR REGARDING OUR REPORTS AND DRAWINGS IS RESERVED PENDING OUR WRITTEN APPROVAL.		PROJECT NO. _____ DESCRIPTION _____ BY _____ DATE _____		PROJECT NO. _____ DESCRIPTION _____ BY _____ DATE _____		SECTION: _____ SCALE: _____ DATE _____ DESIGN BY: _____ DRAWN BY: _____ CHECK BY: _____ APP. BY: _____		FILENAME: _____ PROJECT NUMBER: M09234A02 DRAWING NUMBER: FIG. 7.3.1 REV. A		<p>WOLVERINE PROJECT SITE INVESTIGATION PLAN - PHASE 1 FOR ALTIENATE TAILINGS IMPOUNDMENT SITE</p>			
DWG. NO.	REFERENCE DRAWINGS	PROJECT PROCESS	NO	DESCRIPTION	BY	DATE	PROJECT PROCESS	NO	DESCRIPTION	BY	DATE		
		CIVIL		ISSUE/REVISIONS			CIVIL		ISSUE/REVISIONS				
		MECH.					MECH.						
		STRUCT.					STRUCT.						
		PIPING					PIPING						
		SERVICES					SERVICES						
		ELECT.					ELECT.						
		INSTR.					INSTR.						