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ASSESSMENT REPORT

describing

GEOLOGICAL MAPPING, PROSPECTING, GEOCHEMICAL SURVEYS AND DIAMOND DRILLING

Field work performed from May 29 to August 31, 2013

at the

KEG PROPERTY

An, BP, Fub, Hot, JRV, Keg, Ku, Reb, Snap, Tap, Tay and Vat claims.

NTS Map Sheets 105K/05, 06, 07, 08, 10, 11 & 12
Latitude 62°35´N; Longitude 133°19´W

located in the
Whitehorse Mining District
South-Central Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

SILVER RANGE RESOURCES LTD.

by

Matthew R. Dumala, P.Eng.

July 2014

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INTRODUCTION

The Keg property (the "Property") is situated in south-central Yukon and is wholly owned by Silver Range Resources Ltd. It covers two belts of epigenetic silver-rich mineralization, which are located north of the syngenetic sedimentary exhalite deposits of the Anvil District. The Property hosts a bulk tonnage silver-lead-zinc-copper±tin±indium deposit (the "Keg Deposit"), 23 other known mineralized zones and numerous multi-element soil geochemical anomalies.

This report describes an exploration program that was conducted on the Property by Archer, Cathro & Associates (1981) Limited ("Archer Cathro") in summer 2013 on behalf of Silver Range. Field work was performed between May 29 and August 31. It comprised detailed- and reconnaissance-scale geochemical sampling, prospecting, geological mapping, hand trenching, drill pad construction, 1182.44 m of diamond drilling in 9 holes and various environmental surveys. The author supervised the 2013 exploration program, and his Statement of Qualifications is located in Appendix I. A Statement of Expenditures related to the program is included in Appendix II.

PROPERTY DESCRIPTION AND LOCATION

The Property is located in the Whitehorse Mining District within south-central Yukon and is centred at latitude 62°35′ north and longitude 133°19′ west on NTS map sheets 105K/05, 06, 07, 08, 10, 11 and 12 (Figure 1).

The Property comprises 4932 mineral claims that cover an area of about 991 km^2. The claims are registered in the name of Archer, Cathro & Associates (1981) Limited, which holds them in trust for Silver Range. Specifics concerning claim registration are tabulated below, while the locations of individual claims are shown on Figure 2.

Claim Name	Grant Number	Expiry Date
An 1-3	YE53681-YS53683	March 13, 2024
8-13	YE53688-YE53693	March 13, 2024
44-105	YE53724-YE53785	March 13, 2024
110-113	YE53790-YE53793	March 13, 2024
BP 4	YC65870	March 13, 2021
Fub 1-44	YC97745-YC97788	March 13, 2029
Hot 1	YC19031	March 13, 2027
JRV 6	YC59923	March 13, 2025
8	YC59925	March 13, 2025
10	YC59927	March 13, 2025
12	YC59929	March 13, 2025
20-24	YC59937-YC59941	March 13, 2025
41-44	YC59958-YC59961	March 13, 2025
Keg 1-15	YD11773-YD11787	March 13, 2028
16-53	YD33666-YD33703	March 13, 2029

54-267	YD62954-YD63167	March 13, 2029
268-363	YD63168-YD63263	March 13, 2025
364-369	YD63264-YD63269	March 13, 2029
370-375	YD27420-YD27599	March 13, 2029
376-449	YD27426-YD27499	March 13, 2025
450-493	YD27500-YD27543	March 13, 2029
494-549	YD27544-YD27599	March 13, 2025
550-569	YD28051-YD28070	March 13, 2025
570-893	YD31870-YD32193	March 13, 2029
894-1017	YD32194-YD32317	March 13, 2025
1018-1300	YD32318-YD32600	March 13, 2029
1301-1332	YD90531-YD90562	March 13, 2029
1339-1340	YD90563-YD90564	March 13, 2029
1341-1548	YD00451-YD00658	March 13, 2023
1549-1560	YD122165-YD122176	March 13, 2025
1561-1804	YD00671-YD00914	March 13, 2025
1805-1930	YD00915-YD01040	March 13, 2021
1931-2044	YD01287-YD01400	March 13, 2025
2045-2268	YD117925-YD118148	March 13, 2025
2269-2270	YD118999-YD119000	March 13, 2025
2271-2403	YF36701-YF36833	March 13, 2023
2404	YF36834	March 13, 2019
Ku 1-680	YE53001-YE53680	March 13, 2018
681-740	YF40521-YF40580	March 13, 2019
741-808	YF40581-YF40648	March 13, 2023
809-880	YF40649-YF40720	March 13, 2019
Reb 1-20	YD09253-YD09272	March 13, 2025
21-56	YD62918-YD62953	March 13, 2027
57-72	YD28035-YD28050	March 13, 2027
73-179	YD01179-YD01285	March 13, 2023
Snap 1-44	YD118149-YD118192	March 13, 2025
45-73	YD118327-YD118355	March 13, 2025
74-157	YD121704-YD121787	March 13, 2025
Tap 1-120	YD118801-YD118920	March 13, 2023
121-160	YD118271-YD118310	March 13, 2023
161-194	YF40911-YF40944	March 13, 2021
Tay 1-314	YD27721-YD28034	March 13, 2029
Vat 1-81	YD31761-YD31841	March 13, 2025
82-176	YE14906-YE15000	March 13, 2026
177-272	YD155407-YD155502	March 13, 2026
273-309	YE14143-YE14179	March 13, 2026

310-484	YF40730-YF40904	March 13, 2023
485-488	YD07297-YD07300	March 13, 2019
489-676	YF42699-YF42886	March 13, 2019

* Expiry dates include 2013 work that has been filed for assessment credit, but not yet accepted.

ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND PHYSIOGRAPHY

The Property lies 40 km north of the town of Faro, which is the nearest supply centre. Faro can be reached in all seasons by two wheel drive vehicles using the Yukon highway system from Whitehorse, the territorial capital and main transportation hub. Faro is located 356 km by road from Whitehorse.

Faro formerly serviced the mill and mines of the Anvil District. A heavy duty haulage road and a high voltage power line extend from the town site to the Faro mine and former mill site, which are located 25 km south of the Keg Deposit through low hilly terrain. Electricity for the power line comes from hydroelectric and diesel generators, that are part of the Yukon electrical grid. At present, there is no excess capacity on the Yukon electrical grid, but the Government of Yukon is studying the viability of new hydroelectric facilities and liquefied natural gas fired, electrical generation plants.

Portable electrical generators provide sufficient power for exploration stage programs on the Property. Creeks on the Property provide sufficient water for camp and diamond drilling requirements. The Property has sufficient sites for mining, administrative and camp buildings, potential tailings storage, potential waste disposal and potential processing plants, with no conflicting surface rights.

The majority of supplies and services required for mineral exploration are available in Whitehorse. Many services are also available in Faro including a hotel, a restaurant, limited fuel sales, a first aid station, an all-weather airport, various types of aircraft and an RCMP detachment. There are a number of vacant houses, apartment complexes and commercial buildings in Faro, and many undeveloped lots.

In 2013, access to the Property and daily logistical support were provided by a Eurocopter A-Star B3 helicopter and a Bell 206B helicopter, based at a seasonal camp on the Property or at the Faro airport. Both helicopters were operated by Trans North Helicopters of Whitehorse. Leased lots at the Faro airport served as a logistical staging area. Crews were housed in tents at a 30 person base camp or a series of temporary four person fly camps, all located on the Property. Most project administration and core processing were done at the base camp on the Property.

The Property is situated in the Anvil Range of the Pelly Mountains and is drained by creeks that flow into the Tay River, Rose Creek or Blind Creek, which all ultimately connect to the Pacific Ocean via the Pelly and Yukon Rivers. One creek and one small lake on the Property have been assigned informal names (Ivan Creek and Marijke Lake) for the sake of this report (Figure 3).

The Property covers an area of mountains, ridges, upland plateaus and valley bottoms. Local elevations range between 820 m and 2050 m above sea level. Mount Mye, the highest peak in the region, lies within the southern part of the Property. Rounded peaks with open talus slopes and sparsely vegetated hillsides are typical of most alpine areas, but sharp rocky ridges are common in the Mount Mye area. Broad, buckbrush or tree covered, U-shaped valleys characterize lower elevations. Outcrop is generally limited to ridge crests, steep northern faces and deeply incised creek cuts. Hillsides and most valleys are well drained, but local swampy areas and ponds are present in some low-lying areas and along some flat-topped ridges.

Slopes near treeline are vegetated primarily with staghorn moss, thick brush and stunted spruce and poplar trees. The density and size of vegetation gradually increases at lower elevations. Mature spruce forests are only found along creeks or on south-facing slopes, where understory comprises dwarf birch and mountain alder, with a thick layer of sphagnum moss. Due to a combination of shade, locally poor drainage and a thick insulating blanket of sphagnum moss, permafrost is prevalent on north-facing slopes.

Much of the overburden in the region is associated with the most recent Cordilleran ice sheet, the McConnell glaciation, which is believed to have covered south and central Yukon between 26,500 and 10,000 years ago (Yukon Geological Survey, 2010a). Tay River map area was glaciated by ice sheets emanating from the Selwyn and Pelly Mountains and by local glaciers from the Anvil Range. Ice was funneled into Tintina Trench and followed that topographic lineament northwest into central Yukon (Bond, 1999). McConnell deglaciation occurred rapidly when the equilibrium line rose significantly above the 1830 m elevation, resulting in starvation of the ice sheets. During a subsequent re-advance in the Anvil Range, local alpine glaciers did not form (Bond, 2001) and ice advanced outwards from the Tintina Trench and other deep valleys where glaciers had accumulated.

The climate at the Property is typical of northern continental regions with long, cold winters, truncated fall and spring seasons and short, mild summers. Although summers are relatively warm, snowfall can occur in any month at higher elevations. The Property is mostly snow free from late May to late September. Historical records for the town of Faro show that summer temperatures average 18 to 21ºC during the day and 6 to 9ºC at night (Environment Canada, 2010). Winter temperatures average -17 to -10ºC during the daytime. Total annual precipitation over the 1971 to 2000 period averaged 316 mm, with little over two-thirds falling as rain and about 110 cm as snow.

EXPLORATION HISTORY

The following summary of historical exploration was largely compiled from assessment reports submitted to the Whitehorse Mining Recorder.

Apart from prospecting for placer gold early in the 20th century and reconnaissance-scale mapping done by the Geological Survey of Canada in the 1930s (Johnston, 1936), there was no reported exploration activity in the Faro area until the Canol Road was built during World War II, thus providing better access to the district (Wober, 1967). The first significant discovery in the area was made in 1953, when Al Kulan, a prospector from Whitehorse, identified

sedimentary exhalative (Sedex) style, zinc-lead-silver mineralization at the Vangorda Deposit (Figure 1). No further discoveries were made until 1963 when Kerr Addison Mines Ltd. discovered the Swim Deposit. In 1965, Dynasty Explorations and Cyprus Mining Corp. Ltd. found the nearby Faro Deposit, which was much bigger than the Vangorda Deposit and much richer than the Swim Deposit. The discovery of the Faro Deposit stimulated a staking rush and extensive exploration throughout the area by various operators (Cathro, 1967).

Over the next 20 years, exploration resulted in identification of additional Sedex deposits, which define a narrow, northwesterly trending belt (Anvil Belt). Three deposits in this belt have been mined (Vangorda, Faro and Grum), while two others (Grizzly and Swim) are partially delineated. Several exploration programs were conducted northeast of the Anvil Belt in the vicinity of the Property, but they were deemed to be unsuccessful because Sedex-style mineralization was not found.
Between 1965 and 1978, numerous operators worked within the current boundaries of the Property. Although strong geochemical and geophysical anomalies were detected, follow up drilling intersected only fracture-filling and skarn/carbonate replacement style mineralization, which was dismissed because the focus of exploration was on massive sulphide, Sedex deposits. After 1978, work in the area tapered off.

Historical work within the bounds of the Property was concentrated in six main areas (Keg, Owl/Zeno, Archimedes, Marks, Rebel and Cody/Cirque/Snap/Risby areas) that generally yielded positive geochemical and geophysical results. These areas are documented in the Yukon Minfile database. Table 1 lists the year of work, owner/operator, claim group name, work performed and results for each program by area, while Figure 4 illustrates the relative locations of many of the old claim blocks.

Table 1: Exploration History of Keg Property
(after Deklerk and Traynor, 2005; complete list of references provided below Table 1)

Year of Work (Report #)	Owner/ Operator	Claim Group	Work Performed	Results
KEG AREA				
1965 (Minfile)	Anvil Mining Corporation Ltd.	Ivan	Staked claims following an airborne magnetic (mag) and electromagnetic (EM) survey	n/a
1966 (091262)	Anvil Mining	Ivan	Diamond drilling (464.5 m in 4 holes)	Intersected disseminated Pb-Zn mineralization, but no sulphides of economic significance observed, no assaying done.
1966 (019008)	Yukon Copper Ltd.	Caribou Lake Property (Tara, Dane, Hal & Mark claims)	Staked claims Airborne mag and EM survey Geological mapping Soil sampling	Outlined 3 zones of favourable geophysical and geochemical (Cu-Pb-Zn) response.

1966 (Minfile)	Yukon Copper. -- Northern Empire Mines Ltd.	n/a	Yukon Copper Ltd. reorganized as Northern Empire Mines Ltd.	n/a
1967 (019007)	Northern Empire	Caribou Lake Property (Tara, Dane, Hal & Mark, added Bark claims)	Additional claims staked Line cutting Soil and rock geochemical sampling Geological mapping	Outlined new soil anomalies and better defined known soil anomalies. 4 grab samples yielded between 2.8-4.5% Zn, 0.04-0.18% Cu and 6.2-11 g/t Ag.
1968 (019007)	Northern Empire	Caribou Lake Property (Tara, Dane, Hal, Mark & Bark)	Bulldozer trenching	Exposed disseminated to massive pyrrhotite-pyrite-sphalerite±chalcopyrite±galena ±scheelite in bedrock. A 15 x 3 m sulphide lens averaged 1.25% Zn, 0.05% Cu and 3.4 g/t Ag; and a partially exposed pyrrhotite band returned 2.84% Zn and 0.37% Cu over 2.4 m.
1969 (Minfile)	Inter-Tech Development and Resources Ltd.	Ter	Restaked old Ivan claims as Ter	n/a
1971 (Minfile)	Northern Empire -- Northern Homestake Mines Ltd.	Caribou Lake Property (Hal)	Northern Homestake acquired property from Northern Empire	n/a
1972 (Minfile)	Northern Homestake	Caribou Lake Property (Hal)	Bulldozer trenching	No record of work.
1972 (Minfile)	Ridgemont Mining Corporation (Cyprus Anvil Mining Corporation)	Dana & Irma	Restaked old Ivan & Ter claims as Dana, staked Irma to NW	n/a
1973 (Minfile)	Northern Homestake -- Ridgemont (Cyprus Anvil)	Hal	Ridgemont optioned property from Northern Homestake	n/a
1973 (060933)	Ridgemont (Cyprus Anvil)	Dana	Soil sampling	2750 x 300 m soil anomaly with coincident highly anomalous Zn-Pb-Cu values.
1974 (Minfile)	Ridgemont (Cyprus Anvil)	Hal, added Halo claims	Staked additional claims (Halo) Geological mapping Geochemical surveys Mag, EM and IP surveys	No record of work.
1974 (Minfile)	Ridgemont -- Cyprus Anvil	Dana, Irma, Hal & Halo	Property transferred to Cyrpus Anvil	n/a
1974 (091263)	Cyprus Anvil	Dana, Hal & Halo	Diamond drilling (494 m in 3 holes)	Best intercept yielded 1.24% Zn, 0.46% Pb, 0.14% Cu and 34 g/t Ag over 49 m.
1975	Cyprus Anvil	Dana &	Diamond drilling (627 m	Intersected less extensive but

(091264)		Halo	in 3 holes)	locally higher grade mineralization than 1974 holes. Best intercept yielded 3.52% Zn and 0.13% Cu over 8.0 m.
1975 (090083)	Cyprus Anvil	Irma	Mag & gravity survey	Separate, distinct magnetic and gravity anomalies defined.
1977 (090205)	Cyprus Anvil	Irma	IP survey	Showed presence of large anomalous zone that correlates to 1975 gravity anomaly.
1978 (091265)	Cyprus Anvil	Irma	Diamond drilling (159 m in one hole)	No assays reported.
1990 (092964)	YGC Resources Ltd.	Keg	Staked claims Prospecting Geochemical survey	Subdued Au values obtained.
2010	Strategic Metals Ltd.	Keg	Staked claims Prospecting Geochemical survey IP survey VTEM & mag survey Diamond Drilling (958.27 m in 4 holes)	Best drill intercept returned 50.09 g/t Ag, 1.20% Zn, 0.65% Pb, 0.14% Cu, 217 ppm Sn over 125.70 m. Identified several additional soil anomalies and mineralized zones.
OWL/ZENO AREA				
1969 (060180)	Atlas Exploration Company Ltd.	Owl (Owl area)	Staked claims to cover anomalous geochemical values	n/a
1970 (060180)	Atlas Exploration	Owl (Owl area)	Staked additional claims Line cutting Geological mapping Stream sediment sampling Soil sampling Mag, EM and gravity surveys	Discovered disseminated and fracture-filling Zn-Pb-Cu mineralization & 1525 x 365 m area of coincident anomalous Cu-Pb-Zn values. Identified 3 coincident geophysical targets.
1970 (Minfile)	Atlas Exploration	Hoot (Zeno area)	Staked claims	n/a
1971 (Minfile)	Atlas Exploration	Hoot (Zeno area)	Prospecting Geochemical survey	No results reported.
1983	Getty Canadian Metals, Ltd.	n/a	Regional stream sediment sampling Prospecting	Anomalous stream sediment geochemistry in northwest corner of current Keg property. Discovered Hoot Showing (Zeno area), Getty Showing (100 g/t Ag, 10.78% Zn, 3.27% Pb, 0.38% Cu & 3.4 g/t Au over 10 cm) and Payne Showing (31.2 g/t Ag & 1.57% Pb over 5 cm).
1989 (Minfile)	R. Diment	Splash (Zeno area)	Restaked Hoot claims as Splash	n/a
2010	Strategic Metals Ltd.	Keg	Staked claims Soil sampling (Owl Zone) Prospecting (Owl Zone)	5 sulphide-rich rock samples averaged 500 g/t Ag, 3.52% Zn, 7.72% Pb, 381 ppm Sn. Very strong, coincident, 1400

				x 400 m, Ag-Zn-Pb-Cu-Sn soil anomaly.
ARCHIMIDES AREA				
1965 (Minfile)	Anvil Mining	Yeti	Staked claims Established grid for 1966 geophysical survey	n/a
1966 (Minfile)	P. Versluce	MC	Tied MC claims onto Yeti property	No record of work.
1966 (017483)	Anvil Mining	Yeti	Mag & EM survey	Delineated coincident NW striking mag response & EM conductor, likely caused by disseminated pyrrhotite.
1975 (Minfile)	Northern Homestake	Zap & Rog	Restaked part of Yeti property as Zap and Rog	n/a
MARKS AREA				
1965 (Minfile)	Anvil Mining	Zeus	Staked the Zeus claims following an airborne mag and EM survey	n/a
1966 (Minfile)	Anvil Mining	Zeus	Limited soil sampling and ground geophysical surveys	No record of work.
1974 (Minfile)	Ridgemont	Zed & Nor	Restaked Zeus property as Zed (west) and Nor (southeast) claims	n/a
1974 (Minfile)	Ridgemont – Cyprus Anvil	Zed & Nor	Properties transferred to Cyrpus Anvil	n/a
1975 (061482)	Cyprus Anvil	Nor	Linecutting Soil sampling	Outlined 760 x 600 m Pb-Zn soil anomaly. Disseminated to replacement style Pb-Zn mineralization discovered.
2010	Strategic Metals Ltd.	Keg	Soil sampling	Expanded 1975 soil anomaly to 3600 x 700 m (Pb-Zn-Sn±Cu).
REBEL AREA				
1966 (018994)	Giant Yellowknife Mines Ltd.	KD, AC & Jet	Staked claims Ground geophysical survey Soil geochemical survey Geological mapping	Discovered extensive gossan with limonite, galena, sphalerite & chalcopyrite as float. Composite grab sample returned 295 g/t Ag, 8.8% Pb, 1.2% Zn & 0.2% Cu. Geophysical and soil anomalies also identified.
1966 (018984)	Altair Mining Corporation Ltd.	AM	Staked claims	n/a
1967 (018984)	Altair Mining	AM	Geological mapping Soil and silt sampling EM and gravity surveys	Identified Cu-Pb-Zn soil anomaly and coincident EM conductor.
1968 (Minfile & 060715)	Giant Yellowknife – Mercury Exploration Ltd.	KD & AC Zan	Optioned properties from Giant Yellowknife Staked Zan claims Prospecting & soil	Identified two Pb-Zn soil anomalies on valley floors. No mineralization discovered.

			sampling on Zan	
1969 (060177)	Mercury Exploration	AC, MX & Zan	Staked additional claims Gravity survey Geochemical survey	Located sporadic weak gravity anomalies.
1970	Mercury Exploration – Giant Yellowknife	Mount Mye Property (KD, AC, MX)	Claims reverted to Giant Yellowknife	n/a
1970 (Minfile & 060975)	Giant Yellowknife – Kangaroo Exploration Ltd.	Mount Mye Property (KD, AC, MX, Zan)	Optioned claims from Giant Yellowknife Diamond drilling (593.8 m in 3 holes)	Identified Pb-Zn soil anomalies. Drilled soil & geophysical anomalies – no significant mineralization intersected.
1971 (060976)	Kangaroo	Mount Mye Property (KD, AC & MX, Zan, added Taf claims)	Staked Taf claims Grid soil sampling	1525 x 750 m soil anomaly with values up to 10,600 ppm Zn, 4,800 ppm Pb, 1650 ppm Cu & 5.0 ppm Ag.
1972 (060994, 060995)	Kangaroo	Mount Mye Property (KD, AM, AC, MX)	Acquired AM claims? Turam EM survey Gravity survey	Indicated presence of a number of conductors, some exhibiting considerable strike length.
1972 (091245)	Kangaroo	KD	Diamond drilling (564 m in 4 hole)	Only 1 hole was sampled. This hole yielded 2.28% Zn over 61 m.
1973 (091243)	Kangaroo	KD	Diamond drilling (630 m in 3 holes)	Not sampled.
1974 (Minfile)	Ridgemont – Cyprus Anvil	Fat	Re-staked part of Taf claims as Fat claims Turam EM survey	n/a
1976 (Minfile)	Cyprus Anvil	KD, AM, AC, MX	Optioned claims from Kangaroo and Giant Yellowknife	n/a
1976 (090186)	Cyprus Anvil	Parts of Mount Mye Property (including Fat claims)	Mag, EM and gravity surveys	Progress report only – no results reported.
1978 (091244)	Cyprus Anvil – Giant Yellowknife	KD	KD claims reverted to Giant Yellowknife Diamond drilling (609 m in 4 holes)	Not sampled. Visually barren to weakly mineralized.
1978 (091246)	Cyprus Anvil	AM	Diamond drilling (190 m in 1 hole)	Not sampled. Visually barren.
1980 (090753)	Cyprus Anvil	MX	Diamond drilling (481 m in 1 hole)	Not sampled. Visually barren.
1990 (092963)	YGC Resources	Reb	Restaked part of KD property Prospecting	Grab samples yielded elevated values up to 61.2 g/t Ag, >10,000 ppm Pb, 6770 ppm Zn & 1600 ppm Cu.
2000 (Minfile)	R. Hamel	Hot	Restaked Reb property	n/a

2010	Strategic Metals Ltd.	Reb Hot 1	Staked claims Purchased Hot 1 claim Soil sampling Prospecting	Confirmed and extended 1750 x 1100 m, Ag-Zn-Pb-Cu-Sn soil anomaly and secondary Zn-Pb±Cu±Ag soil anomaly. 14 mineralized rock samples averaged 135 g/t Ag, 1.65% Zn, 3.26% Pb, 0.69% Cu & 161 ppm tin.
CODY, CIRQUE, SNAP & RISBY ZONES				
1975 (090127)	Welcome North Mines Ltd.	Raz	Line cutting Geological mapping Geochemical sampling	Identified float with elevated Pb-Zn±Ag±Au values and coincident Pb-Zn-Ag soil anomaly (Snap area).
1977 (090266, 090267, 091251)	Welcome North	Raz	EM survey Soil sampling Diamond drilling (247.2 m in 2 holes)	Drill tested conductors identified by EM survey (S of Snap area) – no significant mineralization. Identified Pb-Zn soil anomaly.
1982 (Minfile)	Cyprus Anvil/ Metallgesellschaft	Fat (see Rebel)	Geological mapping Geochemical survey	n/a
1986 (062283)	Doron Exploration Inc.	Cody	Restaked Fat property and surrounding area Prospecting Geochemical sampling	Discovered 3 mineralized areas, samples from Cirque area with values up to 12283 g/t Ag & 4.45 g/t Au.
1987 (092617)	Doron Exploration	Cody	Prospecting Hand trenching	Trench samples from Cirque area up to 1208 g/t Ag, 0.15% Zn & 0.14 g/t Au over 3.0 m.
1988 (092896)	Doron Exploration – Lacana Mining Corporation	Cody	Hand and bulldozer trenching Geological mapping Geochemical sampling Geophysical surveying	Cirque area trench samples up to 3565 g/t Ag, 2.32% Pb, 0.80% Zn & 0.215 g/t Au over 0.7 m, but vein widths narrower than expected.
1995 (Minfile)	B. Kreft	Shari Pat	Restaked part of Cody Ridge property	n/a
1997 (Minfile)	P. Risby	JRV	Restaked part of Cody Ridge property	n/a
1998 (093875, 093901)	P. Risby – Western Prospector Group Ltd.	JRV	Staked additional claims Prospecting Geochemical sampling	Samples from Snap area up to 695.0 g/t Ag & 5.53 g/t Au.
1999 (094031)	Western Prospector – Pacific Ridge Exploration Ltd.	JRV	Prospecting Line cutting Geological mapping Soil and rock sampling IP survey Diamond drilling (994.6 m in 9 holes)	Discovered Risby area, with samples up to 2730 g/t Ag & 5.69 g/t Au. Best intercepts from Snap area drilling were 52.3 g/t Ag & 0.21 g/t Au over 3.0 m and 26.8 g/t Ag & 1.50 g/t Au over 7.0 m.
2011	P. Risby – Silver Range Resources Ltd.	JRV	Purchased claims	n/a

References (assessment report – author, year):

091262 Adamson, 1966b
019008 Cathro, 1966
060995 Galeski, 1972
091245 Jilson, 1972

019007	Cathro, 1967a and 1968	091243	Jilson, 1973
060933	Jilson and Simpson, 1973	090186	Walcott, 1976
091263	Jilson, 1974	091244	Spence, 1979
091264	Jilson, 1975	091246	Simpson, 1978b
090083	Walcott, 1975	090753	Hall, 1980
090205	Walcott, 1977	092963	Carne, 1991
091265	Simpson, 1978a	090127	Foster, 1976
092964	Carne, 1991	090266	Betz, 1977
060180	Brock and Coates, 1970	090267	Foster and Holland, 1977
017483	Adamson, 1966a	091251	Holland, 1977
061482	Jilson and Simpson, 1975	062283	Davidson & Wallis, 1987
018994	Cathro, 1967b	092617	Lueck, 1988
018984	Wober, 1967	092896	Robertson & Wallis, 1989
060715	Archer, 1968	092963	Carne, 1990
060177	Chaplin, 1969	093875	Blanchflower, 1998
060975	Turnbull and Simpson, 1970	093901	Roberts, 1998
060976	Sawyer and Jilson, 1972	094031	Blanchflower, 1999
060994	Walcott, 1972		

Keg Area

Much of the area surrounding the Keg Deposit was initially staked in 1965 as the Ivan claims by Anvil Mining Corporation Ltd., following regional airborne magnetic and electromagnetic (EM) surveys.

In 1966, Anvil Mining completed 464.5 m of diamond drilling in four holes at the centre of the Ivan claim block to follow up 1965 geophysical targets (these holes were drilled in vicinity of Keg East Zone). No thick sections of massive sulphides were intersected and, therefore, none of the core was analyzed. The presence of minor disseminated, blebby and banded pyrite and pyrrhotite with rare galena, sphalerite and chalcopyrite was noted in many intervals in all holes. Several narrower bands (up to 12 cm thick) of semi-massive to massive sulphides were intersected. The Ivan claims were allowed to lapse.

Also in 1966, Yukon Copper Ltd. staked the Caribou Lake property (Tara, Dane and Hal claims) around the Ivan claim block. Yukon Copper conducted soil sampling, geological mapping and airborne magnetic and EM surveys. Later that year, Yukon Copper reorganized as Northern Empire Mines Ltd.

In 1967, Northern Empire carried out soil and rock geochemical sampling, geological mapping and line cutting. Near the end of the 1967 exploration season, Northern Empire began bulldozer trenching on the Hal claims. This trenching program was terminated early due to frozen ground. The following year, the bulldozer trenching was completed. A total of about 15,300 cubic metres of bedrock and frozen overburden was removed from nine trenches. Widespread, weakly disseminated pyrrhotite, chalcopyrite and sphalerite and rare galena were reportedly encountered, but this material was not systematically sampled. Heavily disseminated to massive sulphide mineralization was found in two places. It consists of a pyrrhotite-pyrite-sphalerite assemblage, with lesser amounts of chalcopyrite, galena and scheelite. Four grab samples collected from one location in 1967 yielded between 6.2 and 11 g/t silver, 2.8 and 4.5% zinc, 0.04 and 0.18% copper

and 0.34 and 0.68 g/t gold. When better exposed by further bulldozing in 1968, this showing proved to consist of a sulphide lens less than 15 m long and 3 m wide that averaged 3.4 g/t silver, 1.25% zinc and 0.05% copper. At the second location, the upper part of a pyrrhotite-rich band was exposed. A chip sample of this mineralization assayed 2.84% zinc, 0.01% lead, 0.37% copper with trace gold and silver across the exposed 2.4 m width.

In 1969, Inter-Tech Development and Resources Ltd. restaked the old Ivan claims as the Ter claims. No work was reported for these claims and they subsequently expired.

In 1971, Northern Homestake Mines Ltd. acquired the Caribou Lake property from Northern Empire.

In 1972, Northern Homestake completed additional bulldozer trenching on the Hal claims, but there is no record of the amount of work performed or results obtained from it. That same year, Ridgemont Mining Corporation, a subsidiary of Cyprus Anvil Mining Corporation, restaked the old Ivan/Ter claims as the Dana claims. It also staked the Irma claims to the northwest.

In 1973, Ridgemont Mining optioned the Hal claims from Northern Homestake. Ridgemont Mining performed soil sampling on its Dana claims.

In 1974, Ridgemont Mining added the Halo claims to fill a gap between the Hal and Dana claim blocks. It also conducted geochemical surveys, geological mapping and magnetic, EM and induced polarization (IP) surveys on both the Hal and Halo claims. No description of this work nor results obtained from it is available. Later that year, Ridgemont Mining transferred the Dana, Irma, Hal and Halo claims to Cyprus Anvil, which completed 494 m of diamond drilling in three holes on the Hal and Halo claim blocks (within Keg Deposit). These holes intersected variably fractured, mineralized and altered siliceous rocks with narrower, interbedded skarn horizons. Sulphide minerals comprise pyrrhotite with lesser pyrite, sphalerite, chalcopyrite, galena and arsenopyrite. These minerals occur as disseminations, fine to coarse blebs, fracture fillings, matrix in crackle breccias and rarely as bands in the skarn horizons. The core was only sampled intermittently. The best interval of contiguous samples yielded weighted averages of 34.3 g/t silver, 1.25% zinc, 0.47% lead and 0.14% copper over 49.1 m.

In 1975, Cyprus Anvil drilled 627 m in three holes to test along strike and down-dip of the mineralization discovered in its 1974 holes (within Keg Deposit). Less extensive, but locally higher grade mineralization was intersected in the 1975 holes, which were also sampled intermittently. The most significant intersections graded 1.24% zinc over 11.6 m and 0.82% zinc over 24.1 m. Copper and lead values were low in both holes and no silver results were reported. That year, Cyprus Anvil also conducted magnetic and gravity surveys on the Irma claims.

In 1977, Cyprus Anvil followed up the 1975 Irma geophysical work with an IP survey. In 1978, one hole totalling 159 m was drilled to test a geophysical target. No assays were reported for this hole.

All claims in the area subsequently expired. In 1990, YGC Resources Ltd. staked the Keg claims to cover the most significant historical geochemical and geophysical anomalies, bulldozer

trenches and diamond drill holes (Keg Main Deposit). It completed minor prospecting and geochemical sampling. These claims were also allowed to expire without receiving significant work.

Prospector R. Berdahl staked the BP4 claim (west of Keg Deposit) in 2007. No work was filed on this claim by Berdahl.

In 2010, Strategic Metals staked claims, optioned the BP4 claim and subsequently completed prospecting, road building, line cutting, diamond drilling (958.27 m in four holes in the vicinity of the 1974 and 1975 holes) and geochemical, IP, VTEM and magnetic surveys.

The following year, Strategic Metals initiated a comprehensive exploration program on the Keg claims, which was continued by Silver Range after sale of the claims was completed on August 11, 2011 through a plan of arrangement. The combined 2011 program included additional claim staking, prospecting, geological mapping, line cutting, road building, diamond drilling (16,808.37 m in 51 holes), petrographic studies and geochemical, IP, water quality and wildlife surveys.

In 2012, Silver Range completed 8377.49 m of diamond drilling in 28 holes within the Keg Main Zone. Metallurgical studies and an initial mineral resource estimation were also completed that year. Results of the work completed by Silver Range and Strategic Metals are discussed in more detail later in this report.

The BP4 claim, which is located about 500 m west of Keg Deposit, was not sold to Silver Range along with Strategic Metals' wholly owned Keg claims, because earn-in on the option had not been completed. In fall 2012, Strategic Metals acquired a 100% interest in the BP4 claim, subject to a 2% net smelter return royalty interest. Ownership of the BP4 claim was transferred to Silver Range in spring 2014.

Owl/Zeno Areas

The Owl area is located 7.5 km north-northwest of the Keg Deposit. It was first staked in 1969 by Atlas Exploration Company Ltd. to cover anomalous geochemical values from an earlier regional survey.

In 1970, Atlas Exploration staked additional claims and performed stream sediment and soil sampling, geological mapping, line cutting and magnetic, electromagnetic and gravity surveys. The claims were subsequently allowed to lapse.

The Zeno area is situated six kilometres west-northwest of the Owl area. It was staked as the Hoot property in 1970 by Atlas Exploration (no claim sketch is available). In 1971, Atlas Exploration completed prospecting and geochemical sampling in this area, for which no results were reported. The claims expired without further work.

In 1983, Getty Canadian Metals Ltd. conducted a reconnaissance stream sediment sampling and prospecting program to investigate a 2700 km^2 area of central Yukon, for stratiform base metal

deposits. This area overlapped with the northwestern part of the current Keg property, in the vicinity of the Owl/Zeno areas.

In 1989, R. Diment, an independent prospector, restaked the area of the former Hoot property as the Splash claims (no claim sketch available). No work was reported and the claims lapsed.

In 2010, Strategic Metals restaked the entire Owl/Zeno areas as part of its Keg property. It conducted geochemical sampling and prospecting in the Owl area that summer and completed four diamond drill holes totaling 1165.46 m in 2011. Significant results from this program include 28.13 m grading 11.77 g/t silver, 0.21% lead and 0.23% zinc from hole OWL-11-03.

The Owl Southwest Zone was discovered in 2012 while following up anomalous soil sample results 2.5 km southwest of the Owl area. Two diamond drill holes totaling 503.23 m were drilled later that year. Vein mineralization was intersected in both holes. The most significant intersection was 0.34 m grading 5370 g/t silver, 26.10% lead and 0.519 g/t gold from hole OSW-12-001 (Dumala, 2013).

Archimedes Area

The Archimedes area lies 16 km east-southeast of the Keg Deposit. It was staked as the Yeti property in 1965 by Anvil Mining, which then established a grid that was later used for geophysical surveys.

In 1966, Anvil Mining conducted magnetic and EM surveys on the Yeti property. P. Versluce, an independent prospector tied the MC claims onto the northern side of the Yeti property. Both claim blocks were subsequently allowed to expire.

In 1975, Northern Homestake staked the Zap and Rog claims (no claim sketches are available) over part of the old Yeti property. No work was reported and both claim blocks expired.

In 2010, Strategic Metals restaked the area as part of its Keg property and conducted airborne geophysical surveys later that year. Strategic Metals completed contour and grid soil sampling in 2010 and 2011.

In 2012, Silver Range completed grid soil sampling and mapping.

Marks Area

The Marks area is located 24 km southeast of the Keg Deposit. It was reportedly staked as the Zeus claims in 1965 by Anvil Mining following regional airborne magnetic and EM surveys. The next year, Anvil Mining conducted limited soil sampling and ground geophysical surveys. These claims subsequently lapsed. No reports or claim sketches are available for the Zeus property.

In 1974, Ridgemont Mining restaked the area of the Zeus claims as the Zed (northwest, no claim sketch) and Nor (southeast) claims. These claims were transferred to Cyprus Anvil.

In 1975, Cyprus Anvil completed line cutting and soil sampling on the Nor claims. No work was performed on the Zed claims. Both claim blocks were later allowed to expire.

In 2010, Strategic Metals restaked the Marks area as part of its Keg property. It completed grid and contour soil sampling in the area later that year and in 2011.

Rebel Area

The Rebel area lies 17 km south-southeast of the Keg Deposit. It was first staked as the Mount Mye property (KD and AC claims) in 1966 by Giant Yellowknife Mines Ltd., which then performed soil geochemical sampling, geological mapping and ground geophysical surveys. That same year, Altair Mining Corporation Ltd. staked the AM claims, which adjoined the KD claims to the west.
In 1967, Altair Mining carried out soil and stream sediment sampling, geological mapping and EM and gravity surveys on its AM claims.

In 1968, Giant Yellowknife optioned the KD and AC claims to Mercury Exploration Ltd. The following year, Mercury Exploration staked additional claims (MX) and completed geochemical and gravity surveys.

In 1970, the Mount Mye property (KD, AC and MX claims) reverted to Giant Yellowknife, which then optioned it to Kangaroo Exploration Ltd. That year Kangaroo Exploration completed 593.7 m of diamond drilling in the southwest corner of the property, which overlaps with the northern part of the Cody area (see below).

In 1971, Kangaroo Exploration staked the Taf claims to the east of the KD claim block and performed grid soil sampling. The next year, it acquired the AM claims (no record of how the claims were acquired) and conducted EM and gravity surveys on its Mount Mye property (KD, AC, MX and Taf claims). It also drilled four holes totalling 564 m on the KD claim block. In 1973, Kangaroo Exploration completed an additional 630 m of diamond drilling in three holes in the same area.

In 1974, Ridgemont Mining (Cyprus Anvil) restaked part of the Taf claims as the Fat claims and completed a Turam EM survey.

In 1976, Cyprus Anvil optioned the Mount Mye property from Kangaroo Exploration/Giant Yellowknife. Cyprus Anvil conducted gravity, EM and magnetic surveys that year, but no results were reported for this work.

In 1978, the KD claims reverted to Giant Yellowknife, which completed 609 m of diamond drilling in four holes. Cyprus Anvil concurrently drilled 190 m in one hole on its AM claims.

In 1980, Cyprus Anvil drilled 481 m in one hole on the MX claim block.

All claims in the Rebel area subsequently expired. In 1990, YGC Resources Ltd. restaked part of the KD claims as the Reb property and completed minor prospecting. YGC later allowed the claims to lapse.

In 2000, R. Hamel, an independent prospector, restaked part of the area of the former Reb property as the Hot claims. No claim sketch is available for these claims and no work was recorded. All but one of Hamel's claims later expired.

In 2010, Strategic Metals restaked the area as the Reb claims and purchased the Hot 1 claim from Hamel. It completed geochemical sampling, prospecting and IP surveying. In 2011, Silver Range completed three diamond drill holes totaling 535.49 m. Highlights from this drilling include 6.16 m grading 155.84 g/t silver, 12.43% lead, 3.08% zinc and 807 ppm tin from hole REB-11-02.

A total of 1104.9 m in 19 holes was completed in 2012 by Silver Range using a self-propelled, track-mounted reverse circulation (RC) percussion drill. This drilling intersected broad intervals of low-grade mineralization. Results include 48.76 m grading 9.11 g/t silver, 0.19% lead, 0.40% zinc, 0.06% copper, 2.1 ppm indium and 198.39 ppm tin from hole RCH-12-06 (Dumala, 2013).

Cody, Snap, Risby and Cirque Areas

The Cody, Cirque, Snap and Risby areas lie approximately 28 km south-southeast of the Keg Deposit and 10 km northeast of the Faro, Grum and Vangorda mines of the Anvil Belt. Due to their close proximity to the mines, these areas have a complex exploration history, which is briefly summarized in the following paragraphs.

Parts of the areas were first staked as the Rox claims by Kerr-Addison Mines Limited in 1963 to cover transported gossans and sphalerite-, galena- and arsenopyrite-bearing float (Foster, 1976). Between 1963 and 1974, various parts of the belt were restaked at different times by Anvil Mining, Kangaroo Exploration, Cyprus Anvil, Spartan Explorations Limited, and Action Exploration Ltd. During this period, geological mapping, prospecting, soil sampling and electromagnetic and induced polarization surveys were performed. In 1970, Kangaroo Exploration completed 593.7 m of diamond drilling in three holes to follow up geophysical and geochemical anomalies in a wide valley to the north of Cody Zone (southeast part of historical Mount Mye property, also discussed under Rebel area).

In 1975, Welcome North staked the Raz claims within this area to cover what was considered to be a favourable geological environment for Sedex deposits. It carried out geological mapping, geochemical surveying and line cutting.

In 1977, Welcome North completed more extensive geochemical surveying and geological mapping, along with electromagnetic surveying and 247.2 m of diamond drilling in two holes (south of the Snap area). The holes were drilled to test electromagnetic conductors.

In 1982, Cyprus Anvil performed geological mapping and soil geochemical sampling on its Fat claims (part of its Mount Mye property, see Rebel area).

In 1986, Doron Explorations Inc. staked the Cody Ridge property, which covered the entire area. Cursory prospecting and geochemical sampling were completed.

In 1987, Doron Explorations expanded its property and performed property-wide prospecting and geochemical sampling. It also conducted D6 bulldozer trenching in the lower part of Cirque area.

In 1988, Doron Explorations completed regional- and detailed-scale geological mapping, prospecting, line cutting (35 line-km), ground magnetometer and VLF-EM surveying, soil geochemical sampling, hand trenching (19 blast trenches in Cirque area) and extensive follow up bulldozer trenching (Cirque area). The claims comprising the Cody Ridge property were subsequently allowed to lapse.

According to Yukon Minfile (Deklerk and Traynor, 2005), the Cirque area was restaked in 1995 as the Shari property, but there is no record of any work on these claims and they later expired. In 1997, P. Risby, an independent prospector, restaked part of the Cody Ridge property as the JRV claims on behalf of Gullen/Risby Family Trust.

In 1998, Gullen/Risby Family Trust optioned the property to Western Prospector Group Ltd., which then staked additional claims and completed prospecting and geochemical sampling.

In 1999, Western Prospector transferred its option to Pacific Ridge Exploration Ltd., which performed prospecting, line cutting, geological mapping, geochemical sampling, IP surveying and diamond drilling (994.6 m in 9 holes). The bulk of this work was completed within the Snap and Risby areas. The holes were confined to the Snap area and tested coincident geophysical and geochemical anomalies.

In 2010, Strategic Metals staked the Snap claims around the existing JVR claims. It completed contour and grid soil sampling later that year.

Exploration on the Snap area by Silver Range in 2011 included soil sampling and 677.49 m of diamond drilling in three holes. Drilling intersected sheeted fractures within clay altered granite. The best results were from hole SNP-11-02, which cut a 2.27 m interval grading 480.42 g/t silver, 0.32% lead and 0.28% zinc within a larger interval that averaged 33.30 g/t silver, 0.14% lead and 0.16% zinc across 50.86 m.

In late August 2011, Silver Range purchased the JRV claims from Gullen/Risby Family Trust.

Diamond drilling by Silver Range in 2012 comprised four holes (342.28 m) at the Cirque Zone, seven holes (1665.62 m) at the Snap Zone and one hole (208.25 m) at the Risby Zone.

Claims Owned by Others within the Boundaries of the Property

In 2007, prospector R. Berdahl staked the BP 1 to 6 claims, which are scattered within the boundaries of the Property. Berdahl still owns all of the claims, except BP 4, which is now part of the Property (see Keg area). The Wag 1 claim was staked in spring 2010 by K. Wagantall. It

is located in the southern part of the Rebel area. No assessment work has been filed on any of these claims.

PROPERTY GEOLOGY

The Property lies immediately north of the Anvil District, which has been the focus of numerous government and industry sponsored studies since the discovery of the Vangorda Deposit in 1953. Regional bedrock geology for Tay River map area (105K) was published at 1:253440 scale by Roddick and Green 1961) and at 1:250000 scale by Gordey and Irwin (1987). More detailed studies by Tempelman-Kluit (1972) at 1:125000 scale and Gordey (1990a and b) at 1:50000 scale were completed following the discovery of more massive sulphide, Sedex deposits in the area. These discoveries also led to extensive detailed mapping by mining and exploration companies. The Yukon Geological Survey (YGS) integrated the results of past government studies and company exploration, along with its own more recent mapping in the Anvil District onto its website (Yukon Geological Survey, 2012), and published a detailed compilation in 2004 (Pigage, 2004). The following geological descriptions are largely summarized from the published data.

The Property is located within Selwyn Basin (Figure 5), a tectonic element comprising deep water clastic rocks, chert and minor carbonate that accumulated along the North American continental margin during Paleozoic time. The basin is bound to the northeast by a carbonate platform (Mackenzie Platform), which formed the near-shore facies of ancient North America (Abbott et al, 1986).

In the area of the Property, Selwyn Basin lies immediately northeast of units belonging to Slide Mountain and Yukon-Tanana Terranes, the most easterly of the allochthonous terranes (Coney et al, 1980). Deformation and metamorphism associated with accretion of the allochthonous terranes was initiated in Jurassic and culminated in Cretaceous (Tempelman-Kluit, 1979). More recently, strike-slip faulting along the Tintina Fault resulted in about 450 km of dextral offset during Early Tertiary time (Roddick, 1967; Murphy and Mortensen, 2003). The Property is located 10 km northeast of the Tintina Fault at its closest point and 40 km at its furthest.

The rocks in the vicinity of the Property comprise various Paleozoic-age strata that have been juxtaposed by a complex series of Jurassic to Cretaceous high angle and thrust faults (Figure 6). Structure in the area is dominated by moderately southwest-dipping or flat-lying strata that are imbricated by several large northwest-trending, northeast directed thrust faults (Yukon Geological Survey, 2010b).

The Paleozoic strata are sandwiched between three large Mid-Cretaceous igneous bodies – the Anvil Batholith to the southwest, the Teddy Caldera to the northeast and the Orchay Batholith to the southeast. The Anvil Batholith (104 to 109 Ma) belongs to Anvil Suite, and contain intermediate (biotite quartz monzonite, granodiorite and minor diorite) to more felsic (biotite±hornblende±muscovite granite, quartz monzonite, granodiorite) compositions. The Teddy Caldera is part of South Fork Volcanics (94.4 to 102 Ma), which comprise biotite-quartz-hornblende-feldspar crystal tuff. Both the Anvil Batholith and Teddy Caldera are elongated northwesterly, parallel to the regional structural trend. The Orchay Batholith (96 to 98 Ma)

belongs to Tay River Suite and is comprised of granodiorite and quartz monzonite. The age of range of this pluton suggests it is the intrusive equivalent of the South Fork Volcanics (Pigage, 2004 and personal communication).

The youngest igneous event in the area comprises bimodal volcanics and feeder plugs of Early Tertiary age. These bodies are often too small to map at regional-scale. They are assigned to the Ross Volcanics.

A large area between the northeast corner of the Property and the Teddy Caldera is blanketed by unconsolidated Quaternary glacial, glaciofluvial and glaciolacustrine deposits.

All units in the area are described in detail in Table 2.

Table 2: Lithological Units (*after Gordey, 1990a,b*)

Unit Name	Age	Map Name	Description
Ross Volcanics	Lower Tertiary	lTR2	Rhyolite flows, tuffs, ash-flow tuffs and breccias, locally laminated; small stocks and necks of white weathering, flow-banded, quartz-sanidine porphyry to granite porphyry, locally obsidian bearing; local shale, sandstone and conglomerate.
South Fork Volcanics	Mid-Cretaceous	KSF	Dark brown weathering, locally columnar jointed, massive, densely welded, biotite-quartz-hornblende-feldspar crystal tuff.
Selwyn Suite	Mid-Cretaceous	mK(g,q)S	Plutonic suite of intermediate (g) to more felsic composition (q): g. resistant, blocky, fine to coarse grained equigranular to porphyritic (K-feldspar) biotite quartz monzonite and granodiorite and minor quartz diorite; minor leuco-quartz monzonite and syenite. q. equigranular to porphyritic (K-feldspar) biotite +/- hornblende +/- muscovite granite, quartz monzonite and granodiorite; porphyritic biotite hornblende granite with large smoky grey quartz phenocrysts and locally K-feldspar phenocrysts.
Jones Lake Formation	Middle to Upper Triassic	TrJ	Brown to buff weathering, calcareous fine grained sandstone, argillite and shale; extensive ripple cross-lamination and bioturbation; massive, light grey weathering, fine crystalline, dark grey limestone; minor orange weathering platy limestone.
Mount Christie Formation	Carboniferous to Permian	CPMC	Burrowed, interbedded greenish grey cherty shale and green shale; thin to medium bedded, light grey-green to black chert; black siliceous slate and siltstone; minor quartzite, limestone and dolostone; locally abundant, large grey barite nodules.
Tay Formation	Mississippian	MT1	Recessive, dark brown weathering, thin to medium bedded, calcareous, dark grey to brown siltstone and shale, commonly burrowed; thin to thick interbeds of fine crystalline, dark grey limestone;

			minor quartz arenite.
Earn Group	Devonian and Mississippian	DME(1,2)	Complex assemblage of submarine fan and channel deposits (1) within black siliceous shale and chert (2): 1. thin bedded, laminated slate with thin to thickly interbedded fine to medium grained chert-quartz arenite and wacke; thick members of chert pebble conglomerate; black siliceous siltstone; nodular and bedded barite; rare limestone. 2. silvery blue weathering black shale, argillite, cherty argillite and thin bedded chert; nodular and bedded barite; rare limestone.
Road River Group	Ordovician to Lower Devonian	ODR	Black shale and chert overlain by orange siltstone or buff platy limestone; locally contains beds as old as Middle Cambrian.
Marmot Formation	Cambrian to Silurian	CSM2	Amygdaloidal basaltic flows and breccias; mostly subaqueous; thick, flow-banded rhyolite and felsite, includes breccia and tuff.
Rabbitkettle Formation	Upper Cambrian and Ordovician	COR1	Thin bedded, wavy banded, silty limestone and grey lustrous calcareous phyllite; limestone intraclast breccia and conglomerate; massive to laminated, grey quartzose siltstone and chert and rare black slate; local mafic flows, breccia, and tuff.
Gull Lake Formation	Lower Cambrian	lCG1	Shale, siltstone and mudstone, locally bioturbated, with minor quartz sandstone; rare green-grey chert; local basal limestone and limestone conglomerate; phyllite to quartz-muscovite-biotite schist (+/-garnet +/-sillimanite +/-staurolite +/-andalusite).

Regional metamorphism within Selwyn Basin is typically lower greenschist facies. Contact metamorphism is developed around Cretaceous plutons (Yukon Geological Survey, 2010b). Contact aureoles are up to several kilometres in diameter and contain calc-silicate, pelitic and siliceous hornfels.

The detail geology at specific mineralized zones on the Property is discussed later in this report.

PROPERTY MINERALIZATION

The Property hosts 24 main zones of surface mineralization within two parallel, northwest-trending belts (Figure 7). The Tay Belt is the more northerly of the two and covers a 60 by 5 km area that encompasses the Keg Main, Keg East, Keg South, Owl, Owl Southwest, Zeno, Payne, RGS, Drex, Archimedes, Newton, Euclid, Marks, Vent, Weld, Gauss and Ku zones. The Mount Mye Belt is located 15 km south of Tay Belt and 12 km northeast of Sedex deposits comprising the Anvil Belt. The Mount Mye Belt contains the Rebel, Hammer, Cody, Cirque, Snap, Risby and Orange zones. Ten zones (Keg South, RGS, Archimedes, Newton, Euclid, Vent, Weld, Gauss, Ku and Hammer) were discovered by Silver Range between 2011 and 2013, while the others were identified by previous operators.

In 2013, Silver Range collected 382 rock samples from the mineralized zones and other nearby sites on the Property (Figure 8).

Rock samples collected within known mineralized zones are described later in this report in separate sections on each zone. Samples taken outside these zones are shown on Figures 9 and 10, along with historical samples taken outside the zones. Sampling methods and details pertaining to analytical techniques are described in Appendix III. Rock Sample Descriptions are given in Appendix IV and Certificates of Analyses are presented in Appendix V.

Table 3 lists the anomalous thresholds and peak values for all rock samples collected from the Property to date.

Table 3: Geochemical Data for Rock Samples

Element	Anomalous Thresholds					
	Weak	Moderate	Strong	Very Strong	Historical Peak	2013 Peak
Silver (g/t)	≥ 10 < 20	≥ 20 < 50	≥ 50 < 100	≥ 100	17,000	1880
Lead (ppm)	≥ 1000 < 2000	≥ 2000 < 5000	≥ 5000 < 10000	≥ 10000	81.40%	10.60%
Zinc (ppm)	≥ 1000 < 2000	≥ 2000 < 5000	≥ 5000 < 10000	≥ 10000	21.60%	30.44%
Copper (ppm)	≥ 1000 < 2000	≥ 2000 < 5000	≥ 5000 < 10000	≥ 10000	4.06%	2.28%
Tin (ppm)	≥ 50 < 100	≥ 100 < 200	≥ 200 < 500	≥ 500	1.54%	0.75%
Au (g/t)	≥ 0.1 < 0.2	≥ 0.2 < 0.5	≥ 0.5 < 1	≥ 1	23.40	2.29

The sizes of the mineralized zones, their locations relative to Keg Deposit, and the distributions of weak, moderate, strong and very strong values for silver-lead -zinc-copper-tin±gold are listed in Table 4.

Table 4: General Data pertaining to Mineralized Zones

Anomaly	Size (m)	Location relative to Keg Deposit (km)	Metal Signature				
			Weak	Mod.	Strong	Very Strong	Accessory
Keg Main & Keg East	1000 x 400	-	Au			Ag, Pb, Zn, Cu, Sn	W, Bi, Sb, Mo, In
Keg South	350 x linear	3.5 S	Cu				
Owl	850 x 300	8 NNW		Cu		Ag, Pb, Zn, Sn, Au	Bi, Sb, In
Owl Southwest	300 x 250	7.8 NW		Zn, Au		Ag, Pb, Sn	Sb, Bi
Zeno	400 x 100	14.5 NW	Zn	Cu, Au		Ag, Pb, Sn	W, Bi, Sb
Getty	Unknown	10 NNW			Cu	Ag, Pb, Zn, Au	
Payne	Unknown	20 NW	Sn			Ag, Pb,	Sb, Bi

						Au	
RGS	1400 x 600	9 ESE		Cu, Au		Ag, Pb, Zn, Sn	W, Bi, Sb, Mo, In
Drex	450 x 100	12 ESE		Au	Cu	Ag, Pb, Zn, Sn	W, Bi, Sb, Mo, In
Archimedes	200 x 50	17.5 ESE		Zn, Au		Ag, Pb, Sn	Sb, In
Euclid	450 x 50	18 SE			Zn	Ag, Pb, Sn, Au	Bi, Sb, Mo
Newton	1900 x 150	18 SE		Au	Sn	Ag, Pb, Zn	Bi, In, Sb
Marks	650 x 300	24.5 SE	Sn	Zn, Cu			W
Vent	175 x 320	21 SE	Zn, Cu			Ag, Pb, Sn, Au	Sb, Bi, Mo
Weld	3300 x 1600	29.5 SE		Au	Zn	Ag, Pb, Cu, Sn	Sb, Bi, Mo
Gauss	2200 x 600	45 SE		Zn		Ag, Pb, Cu	Sb
Ku	900 x 450	45 SE			Au	Ag, Pb, Zn, Cu, Sn	Bi, Mo, In, Sb, W
Rebel	500 x 500	17 SSE	Au			Ag, Pb, Sn, Cu, Sn	Bi, Sb, In
Hammer	1800 x 300	23.5 SSE			Cu	Ag, Pb, Zn, Au, Sn	Sb
Cody	1450 x 820	24.5 SSE			Cu	Ag, Pb, Zn, Sn, Au	Sb, W, Bi
Cirque	1600 x 600	27.5 SSE				Ag, Pb, Zn, Au, Sn	W, Sb
Snap	3200 x 2800	30.5 SSE			Cu	Ag, Pb, Zn, Au, Sn	Bi, Sb, In, W
Risby	2800 x 400	32.5 SSE	Cu		Sn	Ag, Pb, Zn, Au	W, Sb
Orange	3000 linear	28 SSE				Ag, Pb	

* Accessory element thresholds ≥ 50 ppm W, ≥ 100 ppm Bi, ≥ 500 ppm Sb, ≥ 50 ppm Mo, ≥ 10 ppm In

The zones that lie within Tay Belt are generally characterized as mesothermal, fracture-filling and skarn/replacement style mineralization, while those within Mount Mye Belt comprise mesothermal and epithermal mineralization that is mostly hosted in veins and fracture zones. The individual zones within the belts are described in their respective, separate sections later in this report.

No very strongly anomalous rock samples have been taken outside of the known zones, but elevated values are reported in several areas.

PROPERTY SOIL GEOCHEMISTRY

Numerous soil geochemical surveys were completed within areas currently covered by the Property by various operators prior to 2000. Between 2010 and 2012, Strategic Metals and Silver Range collected a total 30,307 grid and contour soil samples to confirm the tenor and extent of previously identified anomalies and to discover new targets. In 2013, Silver Range took an additional 989 grid and contour soil samples to follow-up and to expand known anomalies. The effectiveness of soil sampling completed by all operators, including Silver Range, was limited in many areas by thick overburden, poor soil development and pervasive permafrost. Vegetated, north-facing slopes are typically the most affected by permafrost. Sampling methods and details pertaining to analytical techniques are described in Appendix III and Certificates of Analysis are given in Appendix V.

Soil samples collected within known mineralized zones are described in more detail later in this report, within the sections pertaining to individual zones. The locations of samples collected outside the zones are shown on Figures 11 through 15, while results for silver, gold, lead, zinc, copper, tin, tungsten, bismuth, antimony and molybdenum are illustrated on Figures 16 to 25, respectively. Anomalous thresholds and peak values for soil samples are listed in Table 5.

Table 5: Geochemical Data for Soil Samples

Element	Anomalous Thresholds				
	Weak	Moderate	Strong	Very Strong	Peak
Silver (ppm)	≥ 1 < 2	≥ 2 < 5	≥ 5 < 10	≥ 10	3920
Gold (ppb)	≥ 5 < 10	≥ 10 < 20	≥ 20 < 50	≥ 50	1425
Zinc (ppm)	≥ 200 < 500	≥ 500 < 1000	≥ 1000 < 2000	≥ 2000	9400
Lead (ppm)	≥ 100 < 200	≥ 200 < 500	≥ 500 < 1000	≥ 1000	66700
Copper (ppm)	≥ 50 < 100	≥ 100 < 200	≥ 200 < 500	≥ 500	4760
Tin (ppm)	≥ 5 < 10	≥ 10 < 20	≥ 20 < 50	≥ 50	660
Tungsten (ppm)	≥ 2 < 5	≥ 5 < 10	≥ 10 < 20	≥ 20	160
Bismuth (ppm)	≥ 2 < 5	≥ 5 < 10	≥ 10 < 20	≥ 20	929
Antimony (ppm)	≥ 10 < 20	≥ 20 < 50	≥ 50 < 100	≥ 100	3220
Molybdenum (ppm)	≥ 5 < 10	≥ 10 < 20	≥ 20 < 50	≥ 50	239

Twenty-three primary clusters of coincident, moderately to very strongly anomalous silver-gold-zinc-lead-copper-tin values have been recognized across the property. They are known as Keg Main, Keg East, Keg South, Owl, Owl Southwest, Zeno, RGS, Drex, Archimedes, Euclid, Vent, Weld, Newton, Marks, Gauss, Ku, Rebel, Hammer, Cody, Cirque, Snap, Risby and Orange Anomalies. All of the known mineralized zones, except the Payne Zone, are marked by primary anomalies. Twenty secondary anomalies (mostly identified by roman numerals) have also been identified, but the majority of them have not yet received detailed prospecting.

Keg South, RGS, Archimedes, Newton, Euclid, Gauss, Ku, Owl Southwest, Vent, Weld and Hammer anomalies and most of the secondary anomalies were discovered by Silver Range, while the others were first identified by previous operators. The Keg Main, Keg East, Owl, Owl

Southwest, Drex, Vent, Weld, Rebel, Hammer, Cirque, Snap and Risby anomalies have been partially drill tested.

All of the soil primary and secondary anomalies (except XVIII) lie within the Tay and Mount Mye belts. The sizes of the primary anomalies; their locations relative to Keg Main Anomaly; the proportion of weak, moderate, strong and very strong values for silver-gold-lead-zinc-copper-tin within them; and their accessory elements are listed in Table 6.

Table 6: Primary Soil Anomalies

Anomaly	Size (m)	Location Relative to Keg Main (km)	Metal Signatures				
			Weak	Moderate	Strong	Very Strong*	Accessory
Keg Main	2100 x 2500	-				**Ag**, **Cu**, **Pb**, **Zn**, **Sn**	W, **Bi**, Sb, Mo, **As**
Keg East	1400 x 450	2 E				Ag, Cu, Pb, Zn, Sn	Sb, **Mo**, As
Keg South	800 x 40	3 S		Au	Cu		
Owl	2000 x 2000	7 NNW		Au		**Ag**, **Cu**, **Pb**, Zn, Sn	Bi, Sb, Mo, **As**
Owl Southwest	700 x 650	7.5 NW	Sn	Au, Cu	Zn	**Ag**, Pb	Sb, As
Zeno	1500 x 1000 open	14 NW		Au, Zn	Cu	Ag, Pb, Sn	W, **Bi**, **Sb**, Mo, **As**
RGS	2600 x 2200	10 ESE				Ag, Au, Cu, Pb, Zn, Sn	W, Bi, Sb, **Mo**, **As**
Drex	1550 x 1100	12 ESE		Au	Cu, Zn	Ag, Pb, **Sn**	Sb, Mo, **As**
Archimedes	1800 x 1800	18 ESE			Au, Zn, Cu	Ag, Pb, Sn	Bi, Sb, Mo, As
Newton	2000 x 700	18 SE	Cu			Ag, Au, Zn, Pb, Sn	W, **Bi**, **Sb**, As, Mo
Euclid	650 x 1500	18.5 SE	Sn	Pb, Cu	Ag, Au	Zn	**Bi**, Sb, **Mo**, **As**
Vent	1250 x 900	21 SE		Cu		**Ag**, Au, **Pb**	**Bi**, **Sb**, Mo, **As**
Marks	3950 x 1950	24 SE		Au	Cu	Ag, Pb, Zn, Sn	B, Bi, Sb, **Mo**, **As**
Weld	3300 x 1200	29.5 SE	Au		Zn	Ag, Pb, Cu	Mo, As, **Sb**
Ku	1650 x 2400	45 SE			Au, Cu	Ag, Pb, Zn, Sn	W, Bi, Sb, Mo, As
Gauss	3200 x 950	45 SE		Zn	Au	Ag, Pb, Cu	Sb, Mo, As, Bi

Rebel	2900 x 1450	17 SSE		Sn	Au	Ag, **Cu**, **Zn**	**Sb**, **Mo**
Hammer	1000 x 800	23.5 SSE			Sn	**Ag**, Au, Cu, Pb, Zn	Sb, As
Cody	1450 x 850	24.5 SSE	Pb, Zn	Au		Ag	Sb
Cirque	2100 x 700	27 SSE	Cu		Zn	Ag, Au, Pb, Sn	**As**, Sb
Snap	2700 x 2500	30 SSE			Cu	**Ag**, **Au**, **Pb**, Zn, Sn	**W**, **Bi**, Sb, Mo, **As**
Risby	1100 x 800	33 SSE	Zn		Au	Ag	W
Orange	2600 x 1300	29 SSE	Sn	Ag, Zn, Cu	Pb	Au	W, Bi, Sb, As

* Bold indicates a high proportion of very strong values present within the anomaly.

Soil anomalies that are particularly high grade or exhibit significant metal zonation are described in more detail in the sections pertaining to respective zones later in this report.

The 20 secondary anomalies vary in extent and intensity. They are considered to be important targets for future exploration. Anomalies located northwest of Keg Main Zone did not receive any additional work in 2013. The sizes of the secondary anomalies; their locations relative to Keg Main Anomaly; the proportion of weak, moderate, strong and very strong values for silver-gold-lead-zinc-copper-tin within them; and their accessory elements are listed in Table 7.

The Owl Southwest, Vent, Weld, Gauss and Newton formerly known as VI, XII, XIV, XV and XXII respectively, have been reclassified as primary anomalies based on results from 2012 and 2013 work. The Payne anomaly remains categorized as a secondary soil anomaly because it has only received limited contour soil sampling and prospecting.

Table 7: Secondary Soil Anomalies

Anomaly	**Size (m)**	**Location* (km)**	**Metal Signatures**				
			Weak	**Moderate**	**Strong**	**Very Strong**	**Accessory**
Payne	1400 x 300	19 NW	Cu, Sn	Au, Pb	Ag		**Sb**, As
II	1400 x 400	17 NW	Au	Cu, Sn	Ag, Pb, Zn		**Sb**, As
III	2600 x 1100	12 NW		Au	Pb	Ag, Cu, Zn, Sn	Sb, Mo, As
IV	1200 x 600	12 NW	Sn	Pb	Ag, Au, Cu	Zn	Bi, Sb, Mo, As
V	600 x 250	10 NW		Ag, Au, Pb	Cu, Zn, Sn		Sb, Mo, As
VII	1850 x 1050	3 SE	Pb, Sn		Cu, Zn	Ag, Au, Zn	Bi, Sb, Mo
VIII	1450 x 1100	5.5 ESE	Au		Ag, Cu		Sb, As
IX	1500 x 600	12 SE	Pb	Cu	Ag	Au, Zn, Sn	Sb, **Mo**, As
X	1200 x 400	13 ESE		Ag		Au	Mo
XI	800 linear	14 ESE	Au, Pb	Cu	Ag, Zn		Mo
XII	600 linear	20 ESE	Cu		Ag, Au, Sn		
XVI	1300 x 350	2.5 SW	Ag, Zn	Cu		Au	As
XVII	3700 x 3300	11 SW	Sn	Au	Cu		W
XVIII	750 x 600	18 SSE	Au, Cu, Sn			Ag, Pb	Sb

IXX	2400 x 1300	11 NW		Pb	Ag, Au, Zn, Sn	Cu	Sb, Mo, As
XX	1300 x600	5 SE		Ag, Au, Cu	Pb	Zn, Sn	Sb, **Mo**
XXI	1100 linear	12 SE	Zn, Cu	Ag	Au		Sb, **Mo**
XXIII	1100 x 600	28.5 SSE	Zn		Au, Cu		**W**, Bi, Sb, **Mo**
XXIV	1300 linear	31 SSE	Cu	Zn	Au, Sn	Ag, Pb	W, Bi
XXV	1000 x 600	24 ESE	Cu		Pb	Ag	

*Relative to Keg Main Zone
** Bold indicates a high proportion of very strong values present within the anomaly.

Reconnaissance-scale sampling has also identified several isolated, strong, single-sample anomalies and small clusters of weakly to moderately anomalous values in widely scattered parts of the Property. These third and fourth order anomalies have not been named but could be significant, especially in areas that are difficult to sample reliably.

PROPERTY STREAM SEDIMENT GEOCHEMISTRY

Stream sediment samples were collected in different parts of the Property by various operators in 1967, 1970, 1975 and 1983. The Geological Survey of Canada (GSC) completed reconnaissance-scale stream sediment surveys in 1988 on map sheets 105K west and 105L (Friske and Hornbrook, 1989) and in 1989 on map sheet 105K east (Friske et al., 1990). Samples from map sheet 105K east were reanalyzed in 2010 (Jackaman, 2011).

Although most stream sediment sampling on the Property returned fairly subdued values for all elements of interest, scattered, strongly elevated values for gold (up to 2445.7 ppb), silver (up to 2.2 ppm), zinc (up to 1712 ppm), lead (up to 107 ppm), copper (up to 399 ppm) and tin (18 ppm) were identified. All of these peak values are located in the vicinity of known mineralized zones or soil geochemical anomalies. The very high gold value, which was obtained from a creek draining the east side of the ridge where the Ku Zone is located, is particularly noteworthy. It has not yet been systematically followed up and is not adequately explained.

PROPERTY GEOPHYSICAL SURVEYS

Between 1966 and 1999, several airborne and ground geophysical surveys (electromagnetic (EM), magnetic, induced polarization (IP) and gravity) were completed within the current bounds of the Property. Data from pre-2010 surveys are not available in digital format. Where plotted data are available, historical magnetic and electromagnetic results generally support more recent data. Only data from the 1999 IP survey over the Snap Zone has been reprocessed.

In 2010, Strategic Metals' commissioned Geotech Ltd. of Aurora, Ontario to fly a helicopter-borne Z-axis Tipper Electromagnetic (ZTEM) and magnetic survey over much of the Tay Belt and Aurora Geosciences of Whitehorse, Yukon to perform ground IP surveying across parts of Keg Main Zone. In 2011, Aurora Geosciences completed additional ground IP surveying at the Keg Main and Keg East zones on behalf of Silver Range. Only the data from recent geophysical surveys and investigations are discussed in this report.

In 2012 Condor Consulting, Inc. of Lakewood, Colorado was commissioned to process and analyze geophysical data obtained by Strategic Metals and Silver Range in prior years. Results for the entire area of these surveys are shown on Figures 26 and 27. Geophysical results from the recent surveys are briefly summarized in the following paragraphs.

The magnetic response is diverse but generally reflects the regional, northwest-oriented lithological and structural trends. Discrete magnetic highs (Figure 26) are locally coincident with electromagnetic features (Figure 27) in the vicinity of some of the known mineralized Zones (Keg Main, Drex, Vent and Marks). Condor does not consider the magnetic data to be a useful tool for direct targeting of mineralization; however, because it highlights structural and lithological features, it can be used to identify favourable traps for mineralization.

The ZTEM data also shows a variety of responses that typically conform to the regional fabric. Northwest-trending axial highs and areas of low response are both present on the Property. The highs likely represent parts of the stratigraphy that are more conductive, while the lows are interpreted as more resistive areas within the mapped units. These lows may represent large areas of hydrothermal silicification of the host rocks, such as those at the Keg Main and RGS zones.

Distinct, discrete conductive features are also present within the survey area and may represent specific geological features such as folds (Keg Main Zone) or thrust plates (Drex Zone). Localized magnetic lows that occur as circular anomalies within the regional trend may indicate blind intrusions (Drex and Marks zones).

DIAMOND DRILLING

HISTORICAL DIAMOND DRILLING

Between 1966 and 1999, a total of 41 drill holes were completed on ground currently covered by the Property; of these, 10 were at Keg Main Zone, 16 at Rebel Zone, 3 north of Hammer Zone, 9 at Snap Zone, 2 south of Snap Zone and one was drilled about three kilometres northwest of Keg Main Zone.

Grades and widths obtained from drilling at Keg Main Zone were considered to be disappointing by previous operators, because their target was Sedex mineralization like that at the nearby Anvil District deposits. Wide intercepts of fracture-style mineralization and occasional skarn horizons were cut within Keg Main Zone but grade continuity was not established due to intermittent sampling of the drill core. Results from the drilling at Rebel Zone were generally subdued but some well mineralized intervals were cut in the northern part of the drill area. Although drilling intersected a number of mineralized veins at Snap Zone (Arseno Showing), it did not cut the precious metal rich, mineralization that was observed as float in nearby talus slopes and creeks beds.

Due to the small scale of, and/or lack of reference points on, most historical maps, only historical holes in the Snap Zone and north of the Hammer Zone are plotted on current maps. Drill hole data for historical holes are listed in Table 8.

Table 8: Historical Drill Hole Data

Zone	Year	Hole	Azimuth	Dip Angle	Length (m)
Keg East	1966	66-V-1	n/a	-90	103.3
Keg East	1966	66-V-2	n/a	-90	94.2
Keg East	1966	66-V-3	180	-45	133.5
Keg East	1966	66-V-4	n/a	-90	133.5
Rebel	1967	67-1	NR	NR	116
Rebel	1967	67-2	NR	NR	114
Rebel	1967	67-3	NR	NR	124
N of Hammer	1970	K-70-1	n/a	-90	76.5
N of Hammer	1970	K-70-2	n/a	-90	217.3
N of Hammer	1970	K-70-3	075	-60	299.9
Rebel	1972	K-72-4	n/a	-90	243
Rebel	1972	K-72-5	185	-70	122
Rebel	1972	K-72-6	n/a	-90	98
Rebel	1972	K-72-7	n/a	-90	101
Rebel	1973	K-73-8	NR	NR	189
Rebel	1973	K-73-9	n/a	-90	255
Rebel	1973	K-73-10	180	-60	186
Keg Main	1974	D-74-1	347	-70	232
Keg Main	1974	D-74-2	340	-70	200
Keg Main	1974	D-74-3	325	-70	62
Keg Main	1975	466-75-4	n/a	-90	222
Keg Main	1975	466-75-5	n/a	-90	280
Keg Main	1975	466-75-6	n/a	-90	125
S of Snap	1977	77VZ-1	n/a	-90	138.4
S of Snap	1977	77VZ-2	n/a	-90	108.8
NW of Keg Main	1978	78-NA-04	n/a	-90	159.4
Rebel	1978	KD-78-1	n/a	-90	152
Rebel	1978	KD-78-2	215	-70	152
Rebel	1978	KD-78-3	215	-50	152
Rebel	1978	KD-78-4	215	-50	151
Rebel	1978	78-NA-03	n/a	-90	190
Rebel	1980	80-NAR-1	NR	NR	481
Snap	1999	99-01	270	-45	106.68
Snap	1999	99-02	270	-45	106.68
Snap	1999	99-03	270	-45	131.06
Snap	1999	99-04	270	-45	118.26
Snap	1999	99-05	270	-45	103.63
Snap	1999	99-06	270	-45	85.34
Snap	1999	99-07	270	-45	65.53
Snap	1999	99-08	270	-45	152.40
Snap	1999	99-09	180	-45	124.97

NR – not reported

Results from the historical holes are discussed in the relevant sections pertaining to individual zones later in this report.

RECENT DRILLING

Recent drill programs at the Property include diamond drilling done between 2010 and 2013 and reverse circulation percussion drilling preformed in 2012. During the past four years, 34109.29 m of diamond drilling and 1104.90 of reverse circulation percussion drilling have been completed on the Property. These drill programs are described in detail in previous reports (Eaton, 2011 and 2012 and Dumala, 2013).

The 2013 drill program at the Property was conducted between June 15 and 28 at the Owl Southwest, Vent and Hammer zones. The base camp located on the Property supported the drilling. Appendix III describes logging, sampling handling and analytical procedures used during the course of the project.

Drill hole collars were surveyed by Archer Cathro employees using a Trimble SPS882 and SPS852, base and rover Real Time Kinematic GPS system. Each collar is marked by a log placed into the hole. A metal tag identifying the hole number is affixed to each collar marker. Collar locations and hole orientations for all drilling completed in 2013 are listed in the following table.

Table 9: 2013 Drill Hole Data

Hole	Easting	Northing	Elevation	Azimuth	Dip	Depth (m)
HAM-13-022	595653	6918318	1583	260	-50	293.00
HAM-13-023	595455	6918532	1443.3	000	-90	68.00
OSW-13-003	581604.6	6946191	1353.22	312	-50	119.00
OSW-13-004	581604.6	6946191	1353.22	312	-45	152.00
OSW-13-005	581712.4	6946229	1349.73	312	-50	53.00
OSW-13-006	581715.3	6946163	1358.03	312	-50	191.44
OSW-13-007	581715.3	6946163	1358.03	345	-50	26.00
VEN-13-001	605673.2	6932114	1694.78	325	-50	125.00
VEN-13-002	605656.9	6932132	1693.44	145	-50	155.00

Down-hole surveys were conducted using a “Ranger Explorer” magnetic multi-shot tool provided by Ranger Survey Systems. Shots were taken every 50 feet or 15 m in each hole, depending on whether the rods were imperial or metric. The shots recorded azimuth, inclination, temperature, roll angle (gravity and magnetic) plus magnetic intensity, magnetic dip and gravity intensity (for quality assurance). All readings were reviewed and erroneous data was not used when plotting the final hole traces.

Geological and geotechnical logs for all 2013 drilling can be found in Appendix VI, while Certificates of Analysis for drill core samples are provided in Appendix V. Results from recent drill programs are discussed in the following sections pertaining to individual zones.

DESCRIPTIONS OF SPECIFIC MINERALIZED ZONES

KEG AREA

The Keg Area is located 25 km north of the former Faro Mine and comprises the Keg Main, Keg East and Keg South zones.

The Keg Main Zone covers the north side of a broad east-west trending ridge, which is terminated to the east by north flowing Ivan Creek. The Keg East Zone lies on a lower, parallel ridge east of the Ivan Creek, while the Keg South Zone is located on a third ridge southeast of Ivan Creek. The area is predominantly below treeline, with elevations ranging from 900 to 1400 m asl. Outcrop is sparse within all three zones. Steep, gossanous talus slopes containing a few small scattered outcrops mark the surface trace of Keg Main Zone on the hillside west of Ivan Creek. The most abundant bedrock in the area is found in a canyon along Ivan Creek.

Geology

Mapping in the Keg Area has been hampered by the paucity of bedrock exposures.

The area is underlain by Upper Cambrian through Permian aged sedimentary rocks that are classified regionally as Rabbitkettle Formation, Earn Group, Tay Formation and Mount Christie Formation. Figure 28 shows detailed plan view geology of the Keg Area, while Figure 29 (cross-section) and Figure 30 (stratigraphic column) illustrate the relationships between the units.

The oldest exposed rocks in this area have been assigned to the Upper Cambrian to Lower Ordovician Rabbitkettle Formation (CORT). Where exposed, they comprise dark grey to grey-brown and sometimes white, laminated to thinly bedded, quartzose siltstone and fine-grained sandstone with minor shale horizons. Buff weathering, fine-grained sandstone is locally interbedded with siltstone. The most northwesterly exposure of this unit contains grey, quartz-rich siltstone with laminations defined by stringers of pyrrhotite.

Devonian to Mississippian Earn Group (DME) in this area consists of grey shale and black, thin bedded chert.

Mississippian Tay Formation (MT) conformably overlies Earn Group and comprises thin to medium beds of grey, silty limestone to calcareous siltstone between dark grey to black, variably quartz-rich siltstone to shale.

The youngest stratified rocks at the Keg Area belong to Carboniferous to Permian Mount Christie Formation (CPMC), and consist of thin and medium bedded, maroon, black and grey-brown cherts.

A small Mid-Cretaceous Selwyn Suite pluton composed of light grey, medium grained, biotite-hornblende granodiorite with megacrysts of feldspar up to 10 cm long cuts the sedimentary package two kilometres southwest of Keg Deposit. No other intrusive rocks have been observed in the immediate vicinity of the Keg Area.

A zone of pervasive hydrothermal alteration (CMAL) overprints sections of both Mount Christie and Tay formations near the Keg Main Zone. Within this alteration zone, rocks are commonly light grey to light pinkish-grey, massive and very fine grained, and host minor veinlets and disseminations of sulphide minerals. The alteration zone is approximately 1000 by 4000 m and is open along strike to the east and the west.

The fine grained nature of the rocks within and around the alteration zone makes mineral identification in hand sample difficult. As a result, Silver Range collected a suite a samples for petrographic analyses in an attempt to better identify primary lithologies and alteration of rocks within the Keg Deposit and in the surrounding area. The following descriptions are based on observations made from petrographic examination of 56 samples from both drill core and outcrop using a microscope with both reflected light and refractive light capabilities. All minerals were identified using solely optical properties.

Three main lithologies were recognized in thin section: chert that grades into very fine grained quartz-dominated siltstone (Mount Christie Formation); mildly siliceous mudstone (Tay Formation); and calcareous siltstone made-up of sub-angular quartz clasts cemented with calcite (Tay Formation).

Most samples show an early alteration assemblage comprising sericite±carbonate±silica that affects siliceous and calcareous sedimentary rocks in varying degrees, depending on host rock composition and proximity to structures.

Locally, a hydrothermal alteration assemblage overprints the sericite±carbonate±silica assemblage and can completely obliterate earlier textures. This alteration pattern is visible in hand sample and drill core as widespread bleaching and locally as vein-fill, fracture-fill and skarnification. In thin section, this assemblage comprises varying amounts of diaspore, andalusite, quartz, calcite, chloritoid, chalcedony, cordierite, staurolite, pyrophyllite, dumorierite and clays with rare corundum, plus sulphide minerals, including pyrrhotite, pyrite, sphalerite, chalcopyrite, galena and arsenopyrite. Pyrite-sphalerite-chalcopyrite-calcite± staurolite± andalusite± corundum veins commonly have diaspore selvages. Andalusite veins clearly cross-cut these multi-mineral veins. Chloritoid occurs in vein selvages and as pervasive disseminations throughout altered sections of rock within the Keg Deposit, but it is most abundant in distal parts of the alteration zone.

A later alteration event (possibly retrograde skarnification) comprising large bladed calcite crystals with pyrite and chalcopyrite occurs as clots or small lenses in a few drill core samples from the Keg Deposit. These clots overprint hydrothermal alteration described above.

Structural analysis of folded and thrusted areas of Selwyn Basin depends on a sound understanding of stratigraphy. Fossil ages provided by Gordey (2008) were instrumental in the interpretation presented below. Nearly all of the dated fossil locations provided by Gordey (2008) were visited by mappers working on behalf of Silver Range and have allowed for confident identification of most of the units described within the Keg Zone.

Several east-southeast trending thrust faults dip to the south and imbricate stratigraphy in this area. An early thrust fault (Two Pete Thrust) places Rabbitkettle Formation on top of Ordovician to Mississippian stratigraphy (Gordey, 2008). This thrust fault does not appear to daylight near the Keg Zone due to several southeast trending normal faults that drop the stratigraphy down to the south (Figure 29). A more northerly situated thrust fault normally places Tay Formation over Mount Christie Formation, but locally this fault diverges into two parallel thrust faults: one placing Tay Formation over Mount Christie Formation and the other placing Earn and Road River groups over Tay Formation.

North of the most northerly thrust fault, Mount Christie Formation chert is tightly folded into cylindrical, metre-scale folds that commonly show a moderately southwest-dipping limb paired with a steep to overturned, southwest- and northeast-dipping limb (Figure 29). These folds are observed on metre and smaller scale throughout a canyon along Ivan Creek and in hill-top outcrops. The folds consistently plunge shallowly to moderately to the east-southeast and are interpreted to be parasitic to a regional antiform-synform pair trending northwest-southeast.

The regional faults and folds described in the previous paragraph are cut by many late, brittle faults that complicate map patterns and drill sections. Some of these features are shown on Figure 28, while others are too small or too poorly understood to include.

The canyon that runs along Ivan Creek provides excellent exposure of several late, brittle fault zones, which are up to five metres in width and contain shattered chert fragments, milled rock and clay. Similar faults, characterized by clasts of quartz cemented by calcite, were observed in outcrop on a south-facing slope east of the canyon. These faults dominantly strike east to southeast and dip moderately to steeply to the south. They are interpreted to be linked to normal faulting in the area.

Fracture and vein orientations in and around the Keg Deposit are broadly grouped into two sets. One set dips very steeply to the west and strikes south-southeast and the other dips sub-vertically north and strikes west. Both sets commonly contain sulphide minerals in veins and fractures. The west striking set features more abundant but finer fractures.

Mineralization

Keg Main and Keg East Zones

Surface mineralization at the Keg Main Zone is mostly confined to three relatively large, steep, gossanous talus slopes, containing a few small scattered outcrops. Numerous rock samples taken from the gossans yielded weakly to very strongly anomalous results for silver, zinc, lead, copper and tin with scattered weak gold support (Figure 28). Few samples have been taken from surface within the Keg East Zone.

Drill core provides reliable data concerning the types and relative abundances of mineralization comprising the Keg Main and Keg East zones and more accurately defines the dimensions and grades of the zones.

Mineralization within Keg Main Zone is controlled by a combination of structure and stratigraphy within strongly hydrothermally altered and locally skarnified limestone and siltstone of Tay and/or Mount Christie formations. Intense silicification of these formations makes it difficult to determine which unit is the primary host. The structural control is typified by fracture-fillings, while the stratigraphic control is characterized by disseminated to semi-massive mineralization within calc-silicate altered, limey horizons. Sphalerite, chalcopyrite and galena occur in varying amounts with pyrrhotite, pyrite and arsenopyrite and rare stannite (Brand, 2011). The sulphide minerals are generally coarse grained. They typically comprise 1 to 10% of the rock, often increasing to between 20 and 50% over metre-scale intervals within skarnified horizons. Some mineral zonation has been observed in the Keg Main Zone, with pyrrhotite and chalcopyrite dominating the sulphide assemblage in the deeper and western parts of the zone and galena contents increasing in the upper and eastern parts. The western and central parts of the zone are notably depleted of calcium relative to the adjacent wallrocks, but calcite is common in veins within the eastern part. The variations in relative sulphide abundance and gangue minerals are interpreted to indicate the deeper and western parts of the zone are more proximal to the core of the hydrothermal cell and the upper and eastern parts are more distal.

Mineralization at Keg East Zone is generally similar to that observed within the eastern part of the Keg Main Zone and is likely part of the same mineralizing system. Several features, including the predominance of calcite gangue in veins, lower pyrrhotite and chalcopyrite contents, and high silver to lead ratios, suggest that Keg East Zone is in a more distal setting than Keg Main Zone.

Keg South Zone

Keg South Zone lies below treeline on a north-facing slope to the southeast of Ivan Creek. In 2011, three boulders of green metasiltstone with bands and blebs of weak pyrite and rare chalcopyrite were collected from under a thin layer of vegetation (Figure 31). Samples from these boulders returned between 7.58 and 43.5 g/t silver and 0.045 and 0.10% copper. Six rock samples were collected from Keg South in 2013, all of which yielded background geochemical values. No drilling has been done yet in the Keg South Zone.

Soil Geochemistry

Keg Main and Keg East

In 1973, Yukon Copper Ltd. completed grid soil sampling that identified a strong, largely coincident copper±lead±zinc anomaly that extends east to west over the Keg Main Zone. Strategic Metals and Silver Range have re-sampled much of this area to confirm the tenor and extent of the historical anomaly and to obtain multi-element data.

From 2010 to 2012, a total of 1700 grid soil samples were collected at 50 m spacing along north-south oriented lines located 100 m apart within a 5000 by 2000 m grid. Despite sampling limitations caused by a thick layer of frozen organics that blanket much of the area, soil geochemistry appears to be the most effective surface exploration technique for identifying drill targets.

Keg Main Anomaly is defined by a high concentration of moderately to very strongly elevated values for silver, lead, zinc, copper, tin and indium, while Keg East Anomaly is a smaller, slightly weaker extension of it. Collectively, these anomalies define a five kilometre long by one kilometre wide area, which is surrounded by a halo of slightly elevated values for all elements of interest except indium. Results for silver, lead, zinc, copper, tin and indium are illustrated thematically on Figures 32 to 37.
Keg Main and Keg East anomalies exhibits subtle metal zonation from west to east. Copper is concentrated within the western and central parts of the area, indium is strongest in the centre, and silver, lead, zinc and tin are most abundant in the east and central parts.

Keg South

The Keg South Zone is located at the southeast corner of the large soil grid that also covers the Keg Main and Keg East zones. Copper is the most anomalous element in soil at the Keg South Zone, with three samples taken along the edge of the grid ranging from 286 ppm to 397 ppm.

Geophysics

Figures 38 and 39 show the magnetic and ZTEM results, along with locations of the IP survey lines, soil anomalies and diamond drill holes within the Keg Main Zone. Figure 40 illustrates a cross-section of modelled resistivity and chargeability from the IP survey.

Geophysical data collected by Strategic Metals and Silver Range in 2010 and 2011 was reprocessed by Condor Consulting in 2012. Condor noted the most significant IP resistivity features within Keg Main Zone coincide with conductivity and chargeability highs that overlap in the western half of the Keg Deposit and in another area about 500 m north of Keg Deposit. The first of the IP features appears to continue at least 500 m southwest of the deposit, before it either terminates or plunges to a depth beyond the detection limits of the survey. Scout drilling in the vicinity of the westerly highs intersected thick sections of rock containing abundant pyrrhotite on fractures, while holes that tested the northerly highs cut graphitic stratigraphy.

A secondary feature defined by elevated chargeability and moderate conductivity lies directly below and to the south of the Keg Deposit. This feature partially coincides with mineralized drill intervals (Figure 40).

Historical Trenching

Bulldozer trenching was carried out within and to the south of Keg Main Anomaly by Northern Empire Mines Ltd. in 1967 and 1968 (Cathro, 1968) and by Northern Homestake Mines Ltd. in 1972 (Deklerk and Traynor, 2005). Most of the trenches have sloughed and bedrock exposure is now limited. The following descriptions are taken from the published data.

1967-1968 Bulldozer Trenching

In late 1967 and summer 1968, a D6 bulldozer was used to strip and trench soil geochemical anomalies. A total of about 15,300 cubic metres of bedrock and frozen overburden was moved in nine trenches (Cathro, 1968).

Bedrock consists of white to medium grey, thin bedded and strongly jointed chert with narrow bands of argillite and cherty argillite. The beds strike east and dip gently north. Widespread, weakly disseminated pyrrhotite, chalcopyrite and sphalerite and rare galena were reportedly encountered, but this material was not systematically sampled. Heavily disseminated to massive sulphide mineralization was found in two places, 1100 m north-northwest (Location 1) and 800 m north-northeast (Location 2) of Marijke Lake. It consists of a pyrrhotite-pyrite-sphalerite assemblage, with lesser amounts of chalcopyrite, galena and scheelite.

At Location 1, four grab samples collected in 1967 yielded between 6.2 and 11 g/t silver, 2.8 and 4.5% zinc, 0.04 and 0.18% copper and 0.34 and 0.68 g/t gold (no sampling or analytical techniques were provided). When exposed by further bulldozing in 1968, this showing proved to consist of a sulphide lens less than 15 m long and 3 m wide that averaged 3.4 g/t silver, 1.25% zinc and 0.05% copper.

At Location 2, the upper 2.4 m of a massive pyrrhotite band was exposed. The bottom of the band was covered by overburden, thus its full width was not determined. This mineralization assayed 2.84% zinc, 0.01% lead, 0.37% copper with trace gold and silver across the exposed 2.4 m width.

Terrain difficulties and equipment limitations resulted in the trenches being positioned somewhat randomly relative to the geochemical highs (Cathro, 1968). This reduced the overall effectiveness of the program.

1972 Bulldozer Trenching

Northern Homestake Mines Ltd. conducted additional bulldozer trenching within the same area as the 1968 work (Deklerk and Traynor, 2005), but no report is available for this program.

Historical Diamond Drilling

66-V-1 to 66–V-4

In 1966, four holes totalling 464.5 m were drilled immediately east and north of Keg East Zone. No thick sections of massive sulphides were intersected and, therefore, none of the core was analyzed (Adamson, 1966b). The presence of minor disseminated, blebby and banded pyrite and pyrrhotite and rare galena, sphalerite and chalcopyrite was noted in most intervals in all holes. Several bands up to 12 cm thick of semi-massive to massive sulphides were intersected. The host rock comprises locally limey or siliceous, light grey to greenish black argillite with lesser quartzite.

D-74-1 to D-74-3

D-74-1 to D-74-3 lie within the Keg Deposit, at the heart of Keg Main Zone. The host rocks in all three holes primarily comprise light to dark grey, locally greenish siliceous rocks (argillite, chert and quartzite?) with interbedded light to dark green skarn horizons, which consist of diopside and other unspecified calc-silicate minerals (Jilson, 1974). Calcite commonly occurs within coarse blebs, veins and crackle breccias, while thin bands of marble and shear-hosted serpentinite are rare.

D-74-1 bottomed in a thick horizon of limestone and limey argillite. Sulphide minerals comprise pyrrhotite with lesser sphalerite and minor chalcopyrite, galena and arsenopyrite. These minerals occur as disseminations, fine to coarse blebs, fracture coatings, cement in crackle breccias and rare semi-massive bands. Bleaching of the host units is common adjacent to fractures and in association with sulphides. The core, which was sampled intermittently, yielded sporadic, elevated zinc values with some silver, lead and copper support. The best interval returned 0.37% copper, 1.38% lead, 1.08% zinc and 168 g/t silver over 3.0 m.

D-74-2 generally cut the same mineralization types as D-74-1 (Jilson, 1974), but mineralization is far more abundant in this hole. Fracturing of the host rocks is intense and appears to be the dominant control of both calc-silicate alteration and mineralization. Mineralization is more strongly associated with calc-silicate alteration than with the siliceous units. The hole was continuously sampled between 2.4 and 51.5 m, from which point on it was sampled intermittently. The continuously sampled interval yielded a weighted average of 34.3 g/t silver, 1.25% zinc, 0.47% lead and 0.14% copper over 49.1 m. Below this, several scattered, elevated zinc values with variable copper, lead and silver support were encountered.

D-74-3 has the same mineralogy as the previous two holes. Bleaching of the host rocks is fracture controlled and increases in intensity with depth. The top half of the hole was not sampled; however, a 14.0 m long interval in the bottom half (between 47.5 and 59.7 m) averaged 1.66% zinc with subdued copper, lead and silver values (Jilson, 1974).

466-75-4 to 466-75-6

In 1975, three holes were drilled to follow up along strike and down-dip of the mineralization discovered in the 1974 holes. These holes also lie within Keg Main Zone. Less extensive, but locally higher grade mineralization was intersected in 1975. Most mineralization comprises heavy disseminations of pyrrhotite and brown sphalerite with minor chalcopyrite in fine grained quartzite and calc-silicate rocks, which are interlayered with barren quartzite and recrystallized and bleached chert (Jilson, 1975). 466-75-4 and -5 were sampled intermittently.

466-75-4 yielded 1.24% zinc over 11.6 m, including 5.48% zinc over 1.1 m, while 466-74-5 returned 0.82% zinc over 24.1 m. Copper and lead values in both holes were subdued. 466-75-6 was drilled to test coincident EM, IP, magnetic and copper-lead-zinc geochemical anomalies, located north of the Keg Deposit. It intersected unmineralized cherty argillite and grit, which both host minor pyrrhotite and sheared graphitic sections. This hole was not sampled.

78-NA-04

In 1978, 78-NA-04 tested coincident gravity and IP anomalies, which are located three kilometres northwest of Keg Main Zone. It intersected unmineralized, fine to coarse grained greywacke with local chert and graphitic bands (Simpson, 1978a). The greywacke exhibits various textures, including well bedded, massive and brecciated.

Recent Drilling

Between 2010 and 2012, a total of 23,014.51 m of exploration and definition drilling in 69 holes was completed at the Keg Main and Keg East zones. Figure 41 illustrates the locations of all holes drilled at the Keg Main and Keg East zones from 2010 to 2012. Down hole depths for drill holes within the Keg Main Zone range from 144.00 to 550.77 m, with an average depth of 359.30 m. This drilling was completed at nominal 100 m spacing on a 1100 m long by 300 m wide grid (locally up to 450 m wide) within the main area of interest. All holes were collared at dips of -50° and most of them are on section lines oriented at 340° (north-northwest). Six holes have different azimuth orientations, which range between 300° and 010° (northwest to north-northeast).

No additional diamond drilling was done at the Keg Main or Keg East zones in 2013, and the Keg South Zone has never been drilled.

Relatively continuous silver-lead-zinc-copper-tin±indium mineralization has been traced along the full 1100 m length of the drill grid, across approximate true widths of 50 to 250 m and from surface to vertical depths of 350 m.

The best grades within both zones are typically from areas where strong fracturing and reactive horizons coincide. The thickest, highest grade mineralization within Keg Main Zone appears to be localized in a fold hinge where axial planar fractures cut silicified and calc-silicate altered Tay and Mount Christie Formation rocks.

The most significant, silver-rich interval obtained from Keg Main Zone to date graded 70.55 g/t silver, 0.54% lead, 0.60% zinc, 0.17% copper, 778 ppm tin and 1.77 ppm indium over 104.70 m from 25.45 to 130.15 m in hole KEG-11-009. Table 10 lists highlight drill results obtained from Keg Main Zone.

Table 10: Keg Main Zone – Drill Highlights

Hole No.	From (m)	To (m)	Interval (m)	Ag (g/t)	Pb (%)	Zn (%)	Cu (%)	Sn (ppm)	In (ppm)
KEG-10-01	59.30	185.00	125.70	50.09	0.65	1.20	0.14	217	9.55
KEG-10-04	24.34	64.46	40.12	49.63	0.74	1.71	0.17	180	14.70
KEG-11-05	135.13	172.82	37.69	49.62	0.45	1.25	0.08	569	4.16
KEG-11-07	213.35	253.10	39.75	71.74	0.60	2.03	0.24	391	14.39
KEG-11-09	25.45	130.15	104.70	70.55	0.54	0.60	0.17	778	1.77
including	78.33	108.81	30.48	119.90	0.72	1.14	0.32	1168	3.38

KEG-11-12	77.12	96.00	18.88	60.78	0.67	1.59	0.21	275	13.78
KEG-11-15	6.10	47.85	41.75	46.62	0.47	0.27	0.06	138	0.91
KEG-11-16	212.72	247.00	34.28	46.66	0.24	1.91	0.33	280	23.58
KEG-11-17	156.06	220.37	64.31	40.55	0.39	1.02	0.10	235	6.49
and	258.17	297.79	39.62	41.81	0.25	1.15	0.41	383	12.30
KEG-11-18	65.60	120.69	55.09	58.46	0.70	1.92	0.17	205	16.37
KEG-11-22	122.02	197.20	75.18	57.46	0.31	2.41	0.64	912	17.66
KEG-11-23	236.83	271.61	34.78	40.09	0.21	1.67	0.55	398	14.42
KEG-12-47	6.64	75.39	68.75	63.45	0.48	0.43	0.09	448	0.96
including	11.00	39.70	28.70	131.59	0.95	0.77	0.15	651	1.70
KEG-12-48	277.16	318.35	41.19	48.81	1.04	1.16	0.12	317	4.70

The best interval from Keg East Zone graded 30.81 g/t silver, 0.18% lead, 0.27% zinc, 0.02% copper, 65 ppm tin and 1.01 ppm indium over 70.11 m from 302.36 to 372.47 m in hole KEG-11-014.

Metallurgy

Metallurgical testwork on material from the Keg Deposit was completed in 2012 at SGS Canada Inc. – Lakefield Research located in Lakefield, Ontario. Procedures and results are discussed in detail in a NI 43-101 Technical Report describing Geology, Mineralization, Geochemical Surveys, Diamond Drilling, Metallurgical Testing and Mineral Resources at the Keg Property, which is filed on SEDAR (Giroux and Melis, 2012).

The testwork was completed on six variability composites of drill core, representing distinct zones of the known mineralization, and one overall composite prepared as a blend of the six variability composites. High grade assays of the test composites are summarized in Table 11.

Table 11: Test Composites – Assay Head Grades for Key Elements

Composite	Ag (g/t)	Cu (%)	Pb (%)	Zn (%)	In (g/t)	Sn (g/t)
Overall	41.6	0.27	0.31	1.36	11.4	400
A	89.1	0.18	0.62	0.69	1.7	770
B	56.2	0.60	0.30	2.30	15.6	760
C	44.1	0.31	0.34	1.67	13.1	230
D	32.3	0.10	0.27	0.89	8.8	100
E	21.1	0.14	0.15	1.28	19.5	210
F	32.7	0.19	0.28	1.14	9.1	360

*1 g/t = 1 ppm

The sulphides in the mineralization consist mainly of sphalerite, pyrite, chalcopyrite, pyrrhotite, galena and arsenopyrite. Traces of silver minerals (native silver and silver sulphides) were found, but more detailed examination specific to silver will be required to properly define its mode of occurrence. The tin minerals, which are typically fine grained, are stannite and lesser cassiterite.

A gravity recovery test on the overall composite indicated that approximately 15% of the silver and only about 3% of the tin could be recoverable by gravity.

Preliminary grinding tests suggest that the Keg Deposit mineralization is of medium hardness.

A total of eight lock cycle tests were completed to quantify recoveries and concentrate grades for Keg Deposit mineralization under conditions approaching steady state. Results are summarized in Table 12.

Table 12: Summary of Lock Cycle Test Results

Composite	**A**	**B**	**C**	**D**	**E**	**F**	**Avg.**	**Overall**	**Overall**
Test No.	**LCT2**	**LCT3**	**LCT4**	**LCT5**	**LCT6**	**LCT7**	**-**	**LCT1**	**LCT8**
Zinc Concentrate									
% Zn	**39.8**	**49.6**	**46.1**	**28.4**	**48.3**	**45.9**	**43.0**	**47.5**	**49.8**
% Pb	1.65	0.28	0.33	0.45	0.29	0.79	0.63	0.53	0.45
% Cu	1.08	1.11	0.75	0.56	0.71	1.17	0.90	0.91	0.79
g Ag/t	314	95	81	105	92	129	136	117	105
g In/t	90	291	325	249	658	305	320	358	384
% Sn	0.24	0.011	0.002	0.002	0.002	0.002	0.043	<0.002	0.063
% Zinc Recovery	**81.5**	**92.4**	**92.0**	**85.7**	**92.3**	**87.5**	**88.6**	**85.2**	**87.7**
% Silver Recovery	5.9	7.7	6.8	8.6	11.6	8.6	8.2	6.6	5.9
% Indium Recovery	68.8	82.1	63.3	73.6	87.7	70.4	74.3	72.2	77.5
Lead Concentrate									
% Pb	**67.3**	**59.7**	**68.2**	**65.8**	**64.4**	**65.1**	**65.1**	**65.5**	**59.4**
% Cu	3.87	5.85	3.89	3.73	3.86	3.95	4.19	4.90	7.02
% Zn	1.45	1.19	1.00	0.89	1.00	1.43	1.16	1.12	1.21
g Ag/t	7,761	4,521	5,507	6,647	4,895	5,567	5,816	5,924	5,559
g In/t	<50	<50	21	<50	<50	<50	<50	<50	<50
% Sn	1.28	0.51	0.18	0.25	0.15	0.28	0.44	0.44	0.49
% Lead Recovery	**82.9**	**82.9**	**84.9**	**82.4**	**77.5**	**83.9**	**82.4**	**84.8**	**86.0**
% Silver recovery	75.9	38.4	55.3	65.7	43.1	65.0	57.2	60.5	62.9
% Indium Recovery	n/a	n/a	0.5	n/a	n/a	n/a	n/a	n/a	n/a
Copper Concentrate									
% Cu	**23.5**	**29.8**	**29.0**	**25.2**	**28.2**	**27.6**	**27.2**	**28.8**	**28.1**
% Pb	5.93	0.89	2.62	6.79	3.96	4.37	4.09	2.65	2.43
% Zn	8.53	1.19	3.61	3.32	3.25	4.57	4.08	3.85	5.04
g Ag/t	1,454	1,351	1,326	2,062	1,468	1,089	1,458	1,442	1,328
g In/t	61	129	132	169	274	137	150	150	152
% Sn	5.73	1.84	0.76	1.09	0.78	1.72	1.99	2.04	1.88
% Copper Recovery	**62.3**	**80.2**	**75.3**	**59.0**	**72.2**	**67.6**	**69.4**	**71.4**	**69.2**
% Silver Recovery	8.8	42.3	26.2	14.6	28.9	15.6	22.7	22.0	20.5
% Indium Recovery	14.4	14.0	6.1	3.8	5.6	7.5	8.6	7.9	8.0

*1% = 10,000 g/t = 10,000 ppm

A comparison of head grade versus recovery for the lock cycle tests is presented in Table 13.

Table 13: Lock Cycle Tests – Comparison of Head Grades and Recoveries

Composite	Assay Head Grade					% Recovery				
	Zn (%)	Pb (%)	Cu (%)	Ag (g/t)	In (g/t)	Zn	Pb	Cu	Ag[1]	In[2]
A	0.69	0.62	0.18	89.1	1.7	81.5	82.9	62.3	84.7	83.2
B	2.30	0.30	0.60	56.2	15.6	92.4	82.9	80.2	80.7	96.1
C	1.67	0.34	0.31	44.1	13.1	92.0	84.9	75.3	81.5	69.4
D	0.89	0.27	0.10	32.3	8.8	85.7	82.4	59.0	80.3	77.4
E	1.28	0.15	0.14	21.1	19.5	92.3	77.5	72.2	72.0	93.3
F	1.14	0.28	0.19	32.7	9.1	87.5	83.9	67.6	80.6	77.9
Average	1.33	0.33	0.25	45.9	11.3	88.6	82.4	69.4	80.0	82.9
Overall	1.36	0.31	0.27	41.6	11.4	85.2	84.8	71.4	82.5	80.1
Overall NaMBS	1.36	0.31	0.27	41.6	11.4	87.7	86.0	69.2	83.4	85.5

Notes: 1. Combined silver recovery to lead and copper concentrates
2. Combined indium recovery to zinc and copper concentrates

The results of the lock cycle tests on all test composites show that Keg Deposit mineralization responds very well to typical copper/lead/zinc flotation circuits with excellent recoveries of payable metals and acceptable copper, lead and zinc concentrate grades in copper, lead and zinc concentrates.

Mineral Resource Estimate

In 2012, an initial mineral resource was calculated for the Keg Deposit using 53 diamond drill holes totaling 18377 m within the Keg Main Zone. A detailed discussion of the techniques used can be found in the NI 43-101 Technical Report describing Geology, Mineralization, Geochemical Surveys, Diamond Drilling, Metallurgical Testing and Mineral Resources at the Keg Property, which is filed on SEDAR (Giroux and Melis, 2012). Table 14 lists the inferred mineral resource within the Keg Deposit at various cut-off grades.

Table 14: Inferred Mineral Resource within Mineralized Solid

Cut-off (Ag g/t)	Tonnes > Cut-off (tonnes)	Grade > Cut-off						
		Ag (g/t)	Pb (%)	Zn (%)	Cu (%)	Sn (ppm)	In (ppm)	Cd (ppm)
10.0	63,970,000	23.63	0.21	0.64	0.12	224.5	5.07	116.09
12.0	54,640,000	25.80	0.22	0.68	0.13	238.5	5.29	123.40
14.0	46,730,000	27.97	0.24	0.72	0.14	252.0	5.50	130.52
16.0	**39,760,000**	**30.25**	**0.26**	**0.77**	**0.15**	**265.7**	**5.77**	**138.06**
18.0	33,900,000	32.55	0.27	0.81	0.16	278.8	6.02	145.24

20.0	29,210,000	34.74	0.29	0.85	0.16	292.5	6.24	151.64
22.0	25,390,000	36.79	0.31	0.89	0.17	303.4	6.44	157.31
24.0	21,990,000	38.94	0.32	0.92	0.18	315.7	6.63	162.66
26.0	18,970,000	41.16	0.34	0.96	0.19	328.8	6.85	168.21
28.0	16,470,000	43.31	0.36	0.99	0.19	341.8	7.10	173.61
30.0	14,340,000	45.44	0.37	1.02	0.20	355.3	7.24	177.73
32.0	12,520,000	47.54	0.39	1.05	0.20	366.9	7.33	180.84
34.0	10,940,000	49.65	0.41	1.07	0.21	379.9	7.41	183.59
36.0	9,570,000	51.75	0.44	1.09	0.21	390.1	7.41	185.39
38.0	8,430,000	53.75	0.46	1.11	0.21	399.8	7.48	187.91
40.0	7,480,000	55.63	0.48	1.12	0.21	409.4	7.47	188.79

OWL ZONE

The Owl Zone is located along a northwest trending ridge, eight kilometres north-northwest of Keg Main Zone. It was first staked by Atlas Exploration in 1969 to cover anomalous soil geochemical values. A low-lying saddle separates the Owl Zone from the Owl Southwest Zone, 2.5 km to the southwest.

Geology

Stratigraphy in the vicinity of Owl Zone comprises Mount Christie Formation chert and siltstone, which are structurally overlain by older Tay Formation limestone and arenite (Figure 42).

Outcrops of Mount Christie Formation black, fine-grained, variably carbonaceous, siliceous siltstone (CPMCc) are the lowest exposed stratigraphy at the Owl Zone. This sub-unit is conformably overlain by a thin package of Mount Christie Formation maroon and grey cherts (CPMCb). Both sub-units have been pervasively altered by silica and sulphide mineralization. The alteration zone is characterized by rusty weathering, light grey-green to grey, laminated to massive, siliceous rocks, which commonly host veinlets and disseminations of arsenopyrite with rare arsenopyrite-galena veins. Where sulphide veins and disseminations are present, the silicification is most intense and host rocks are bleached to light grey or pinkish-grey. The alteration zone comprises much of the mapped area.

Higher elevations on the ridge are characterized by Tay Formation grey, locally fossiliferous limestone and discontinuous bands of grey-brown, very fine grained siliceous rocks (MT1). Thick beds of light grey to white, medium grained arenite (MT2) are regularly exposed within the limestone unit. Rare, grey, fine grained, laminated to thin bedded calcareous siltstone and black, coarse grained, quartz-rich, lithic sandstone were also mapped within Tay Formation.

Based on the YGS regional-scale mapping and interpretations, Tay Formation has been openly folded by a northwest plunging antiform developed in the upper plate of a thrust fault that separates Tay Formation from Mount Christie Formation.

All units are cut by late, near vertical faults that strike north-northwest and show offsets of up to 150 m. The movement along these faults is interpreted to be a combination of west-side down dip-slip and sinistral strike-slip motions. Fracture and vein sets are oriented parallel to these faults and are commonly mineralized.

Mineralization

The Owl Zone encompasses gossanous talus and bedrock exposed along a cliff band on the north side of a northwest trending ridge. Several samples from this area returned weakly to very strongly anomalous silver, zinc, lead, tin and gold values with moderate copper support (Figure 42).

Atlas Exploration recognized four types of mineralization within this zone (after Brock and Coates, 1970).

1) Sphalerite-galena-chalcopyrite-arsenopyrite-pyrite occur in veins up to 0.3 m wide in chert. Approximately 15 veins were discovered. They generally trend 030° and dip steeply.
2) Minor disseminated to locally fracture-filling arsenopyrite, pyrite, sphalerite and chalcopyrite are hosted in quartzite.
3) Arsenopyrite with lesser galena and chalcopyrite is found in quartz veined talus near a granitic plug.
4) Quartz veins contain arsenopyrite and stibnite. Stibnite has not been found in outcrop.

The highly fractured, gossanous wallrocks were not considered to be "mineralized" by early workers and were not sampled. Mineralization at the Owl Zone is largely hosted in strongly altered chert and quartzite of Mount Christie and Tay formations, in an area where the two units are juxtaposed by the thrust fault.

Atlas Exploration analyzed samples of Types 1 to 3 mineralization, but did not mark exact sample locations on a map. Table 15 lists the historical results from the Owl Zone by mineralization type.

Table 15: Owl Zone – Historical Rock Sample Results (Brock and Coates, 1970)

Mineralization Type	Silver (g/t)	Lead (%)	Zinc (%)	Copper (%)
1	601	11.4	0.12	0.32
1	32	Trace	20.2	0.25
1	263	4.0	NR*	NR*
2	2.0	NR*	NR*	NR*
3	57.6	NR*	NR*	1.7
3	542	7.5	0.40	0.14

* Value was not reported.

In 2010, Strategic Metals collected 13 grab and composite samples of weakly disseminated (Type 2), moderately disseminated and fracture-filling (Type 2), and semi-massive to massive vein (Type 1) mineralization from bedrock and talus in the area. In 2011, Silver Range took an

additional four Type 1 samples. Six of the 17 samples consisted of weakly mineralized, disseminated and fracture-hosted arsenopyrite±pyrite in quartzite (Type 2), which averaged 0.5 g/t silver, 72.0 ppm zinc, 35.9 ppm lead, 79.5 ppm copper and 27.8 ppm tin. Two moderately mineralized samples of quartzite containing disseminated and fracture-filling arsenopyrite, pyrite, sphalerite and trace galena (Type 2) averaged 18.8 g/t silver, 0.16% zinc, 0.27% lead, 0.01% copper and 23.1 ppm tin. The other nine samples comprised semi-massive to massive arsenopyrite with lesser galena, sphalerite and pyrite in quartz veins within chert (Type 1), which averaged 690 g/t silver, 5.01% zinc, 11.3% lead, 0.08% copper and 530 ppm tin. One Type 1 sample from 2010 also yielded 1.20 g/t gold. Samples that returned peak values were all collected along a north facing cliff.

In 2012, Silver Range conducted prospecting 750 m south of the historical showing, on a south facing slope. Three additional Type 2 samples and two Type 1 samples were collected from sub-crop in this area. One of these, a chip sample of semi-massive arsenopyrite with lesser galena (Type 1) taken across 0.30 m, yielded 208 g/t silver, 0.702% zinc, 2.83% lead and 0.546 g/t gold. A float sample comprising banded fine grain galena and arsenopyrite (Type 1) collected nearby graded 549 g/t silver, 0.781% zinc and 9.28% lead. An intensely weathered float sample containing sulphide blebs, collected 450 m downhill to the southeast from the chip sample mentioned above, is believed to be representative of Type 2 mineralization. This sample yielded 81.7 g/t silver, 0.389% zinc and 1.36% lead.

No additional prospecting or rock sampling was completed at the Owl Zone in 2013.

Soil Geochemistry

Grid soil sampling at the Owl Zone was completed in 2011. Samples were collected at 50 m intervals along lines spaced 100 m apart. Very strong silver, copper and lead values were returned from samples collected near the northern edge of this grid along a steep north facing slope, beneath sites where strongly mineralized rock samples were collected. The most anomalous samples occur within areas of altered Mount Christie Formation. Results for silver, lead, zinc and copper are shown on Figures 43 thru 46 respectively.

No additional soil sampling was done at the Owl Zone in 2012 or 2013.

Diamond Drilling

In 2011, four diamond holes were drilled at the Owl Zone to test mineralization hosted within rusty weathering, strongly silica altered rocks of the Mount Christie and Tay formations. The first two holes were collared on a mineralized talus slope near the base of the exposed alteration zone. Both intersected weakly disseminated pyrrhotite before passing into underlying unaltered and unmineralized rocks. The other two holes were drilled within the alteration zone and yielded weakly mineralized intervals, as shown on the following.

Table 16: Owl Zone – Drill Highlights

Hole #	From (m)	To (m)	Length* (m)	Ag (g/t)	Pb (%)	Zn (%)	Cu (ppm)	Sn (ppm)
OWL-11-03	65.44	93.57	28.13	11.77	0.21	0.23	0.02	106
OWL-11-04	7.65	9.75	2.10	37.53	0.67	1.71	0.04	172
and	60.05	66.14	6.09	45.21	0.78	0.38	0.01	104
and	146.92	151.49	4.57	14.70	0.34	0.14	0.02	152

No additional drilling was done at the Owl Zone in 2012 or 2013.

OWL SOUTHWEST ZONE

The Owl Southwest Zone covers a gentle northwest trending hill and adjacent swampy valley, 7.5 km northwest of the Keg Main Zone and 2.5 km southwest of the Owl Zone. It was discovered in 2012 while following up an area of anomalous soil geochemistry identified the previous year.

A series of parallel northwest trending depressions, hummocks and benches cut across the hill where this zone is located. The mineralized showing is exposed in a hand trench atop a prominent hummock. The hill has been glacial scoured and features a few rounded outcrops but little talus.

Geology

The Owl Southwest Zone is situated within a west-northwest trending thrust panel comprising Tay Formation limestone and arenite overlain by Mount Christie Formation chert and siltstone. To the south, Prevost Formation shale has been thrust atop of this package (Figure 42).

The Owl Southwest Zone is situated at the conformable contact between Tay Formation quartzite to the north and overlying Mount Christie Formation chert and siltstone to the south. The contact between the units strikes northwest and corresponds to the linear trend of hummocks and gullies in the area. This trend is also observed in the airborne geophysical data (Figures 26 and 27).

North of the zone, a swampy, low-lying saddle marks the surface trace of the Stokes Thrust, which places older Tay Formation to the south atop Mount Christie Formation to the north. This fault is the boundary between the Owl and Owl Southwest zones.

Mineralization

A total of 32 float and grab samples were collected at the Owl Southwest Zone in 2012. These samples averaged 765 g/t silver, 4.38% lead, 0.038% zinc, 206 ppm tin and 1166 ppm antimony. Of these samples, eight returned greater than 1000 g/t silver. The peak value of 6920 g/t silver was accompanied by 4.37% lead, 0.227% zinc, 1970 ppm tin, 12.35 ppm indium, 8890 ppm tin and 0.349 g/t gold. This sample was found in soil extracted from a trench dug at the base of the slope, on the northeast side of the hill (Figure 42). This trench did not reach bedrock.

A second hand trench dug in 2012, 65 m to the south-southwest at the crest of the hill, exposed a 22 cm wide northeast trending semi-massive to massive galena vein within Mount Christie Formation chert. A chip sample taken across the vein yielded 4770 g/t silver, 26.93% lead, 0.966% zinc, 972 ppm tin, 5370 ppm antimony, 14.85 ppm indium and 0.447 g/t gold over 22 cm. A third trench dug in 2013, nine metres along strike, exposed heavily fractured and strongly weathered mineralization, which was not sampled. The vein strikes 038° and dips 70° to the east. It has not been traced further along strike because it projects under deep frozen overburden in both directions.

Soil Geochemistry

Grid soil sampling at the Owl Southwest Zone was done in 2011 and 2012. Samples were collected over the main showing at 10 m intervals along lines spaced 25 m apart while the surrounding area was sampled at 25 m intervals on lines spaced 25 m apart. Samples collected along the crest and northwest nose of the hill yielded very anomalous results for silver and lead and strongly anomalous zinc. The most anomalous samples are underlain by altered Mount Christie Formation. Results for silver, lead, zinc and copper are shown on Figures 38 through 41 respectively.

No soil sampling was done at the Owl Southwest Zone in 2013.

Drilling

Two diamond drill holes totaling 503.23 m were completed in 2012 at the Owl Southwest Zone. Both holes cut the vein exposed in the trenches. The second hole also cut another vein further to the west.

In 2013, additional diamond drilling was conducted by Top Rank Diamond Drilling Ltd. of Ste. Rose du Lac, Manitoba with a heli-portable Multi-Power Discovery II drill using NQ2 equipment. Five holes totaling 541.44 m were drilled between June 15 and 25. Two of these holes (OSW-13-003 and 007) were lost before reaching their target depths. Figure 42 illustrates the locations of 2012 and 2013 holes drilled at the Owl Southwest Zone, while sections are shown on Figures 47 through 49.

The 2013 drilling targeted the down dip extension of high-grade mineralization exposed by hand trenching and cut in diamond drill holes completed in 2012. The holes intersected siliceous siltstone and quartzite overlying intercalated limestone and chert.

Holes OSW-13-003 and -004 targeted the strike extension of silver mineralization intersected near the bottom of hole OSW-12-002. Hole OSW-13-003 was lost at 119.00 m, before reaching the targeted depth and had to be redrilled as hole OSW-13-004. A narrow galena veinlet was intersected at 51.00 m in the first hole; but, it was not intersected in the second hole.

Holes OSW-13-005 and -006 tested along strike and down dip, respectively, from the main vein exposed in the hand trenches and cut in the 2012 holes. Both of these holes intersected mineralization at their projected target depths. The intercept in hole OSW-13-006 was wider

than anticipated and comprised two weakly mineralized veins within a broad (11.18 m) bleached and silica altered interval.

Hole OSW-13-007 was abandoned in intensely broken siltstone within a fault zone. At surface, this fault is expressed as a recessive linear, several metres wide, which strike of 156° obliquely across the trend of the main vein.

The following table lists highlights from 2012 and 2013 drilling within the Owl Southwest Zone.

Table 17: Owl Southwest Zone – Drill Highlights

Hole	From (m)	To (m)	Interval (m)	Ag (g/t)	Pb (%)	Zn (%)	Cu (%)	In (ppm)	Sn (ppm)	Au (g/t)
OSW-12-001	25.66	26.00	0.34	5370	26.10	0.05	0.03	0.129	545	0.519
OSW-12-002	197.00	200.00	3.00	224.48	0.624	1.46	0.02	2.758	57	0.025
Incl.	198.50	200.00	1.50	432.00	1.16	2.78	0.03	5.260	88	0.048
OSW-13-003	50.92	51.45	0.53	78.60	0.286	0.311	0.017	0.852	11	0.007
OSW-13-005	31.52	34.13	2.61	152.40	0.792	0.135	0.017	0.177	79	0.019
OSW-13-006	71.13	82.31	11.18	42.58	0.133	0.240	0.005	0.346	19	0.006
Inlc.	79.50	80.55	1.05	147.00	0.486	1.420	0.011	2.100	43	0.014

ZENO ZONE

The Zeno Zone covers a gentle, grass-covered hill located 14 km northwest of the Keg Main Zone and 6.5 km west-northwest of the Owl Zone.

Getty Canadian performed prospecting in this area during a 1983 regional stream sediment survey (Payne, 1983). It discovered several large gossans with localized pyrite-, pyrrhotite-, sphalerite- and galena-bearing showings, now referred to as the Zeno Zone, and a showing (Getty Showing) that reportedly lies between the Zeno and Owl zones but which has not been relocated.

Geology

The Zeno Zone lies within Tay Formation limestone and arenite along the linear, east trending northern margin of a small granitic plug of the Selwyn Plutonic Suite. The plug is exposed in an area of approximately 1.5 by 0.8 km. Northwest of the Zeno Zone, siltstone belonging to the Rabbitkettle Formation is in fault contact with both the plug and Tay Formation (Figure 6). Detailed mapping has not yet been performed at the Zeno Zone.

Mineralization

Zeno Zone occurs at the contact between the granitic plug and surrounding hornfelsed, fine grained clastic rocks of the Tay Formation. Getty Canadian noted sulphide minerals within the rusty weathering, hornfels; however a chip sample of this material returned subdued results (Payne, 1983).

Strategic Metals revisited this area in 2010 and collected two samples of rusty weathering, pyrite-bearing, siliceous, fine-grained clastic rock. The better of these samples returned weakly to moderately elevated values for silver (27.4 g/t), zinc (1280 ppm) and lead (3710 ppm).

In 2012, another 42 rock samples were collected by Silver Range in and around the Zeno Zone. These samples averaged 32.41 g/t silver, 0.13% lead, 0.02% zinc, 0.03% copper and 216 ppm tin. Five of them yielded greater than 100 g/t silver, all of which are quartz vein float collected from a 90 m long portion of the intrusive contact. The sample that returned the highest silver value (241 g/t) also yielded 1.115% lead. Another sample collected 70 m to the west returned 126 g/t silver, 1.495% lead, 0.103% copper and 2530 ppm tin. Both samples are quartz vein float containing arsenopyrite (Figure 50).

The **Getty Showing** lies 6.5 km east of the Zeno Zone (two kilometres north-northwest of Owl Zone), and reportedly comprises a set of pyrrhotite-, pyrite-, galena- and sphalerite-bearing, rusty quartz veins (Payne, 1983). These veins are hosted in Tay Formation shale, which is exposed in a creek cut. Two chip samples taken by Getty Canadian yielded 100 g/t silver, 10.78% zinc, 3.27% lead, 0.38% copper, 3.4 g/t gold and 380 ppm antimony over 10 cm, and 111 g/t silver, 14.90% zinc, 4.40% lead and 1.1 g/t gold over 8 cm. Adjacent wallrocks were not sampled.

Limited prospecting by Silver Range in the area of the Getty Showing has not yet been able to relocate the mineralized exposures.

No work was completed at the Zeno Zone or the Getty Showing in 2013.

Soil Geochemistry

The Zeno Zone is covered by grid soil sampling in 2011 and 2012. Samples within this grid were collected at 50 m intervals along lines spaced 100 m apart. Geochemical response is characterized by very strong silver, lead, tin, bismuth, antimony and arsenic values. The highest values follow the northern edge of the pluton for approximately one kilometre. Results for silver, lead and arsenic are shown on Figures 51 to 53 respectively.

No soil sampling was done at the Zeno Zone or the Getty Showing in 2013.

RGS ZONE

The RGS Zone is located nine kilometres east-southeast of the Keg Main Zone and was discovered in 2011 by Silver Range. Forested and brushy hillsides predominate in the northern portion of this zone, while talus covered ridges and sub-alpine plateau underlie the central and

southern parts. A prominent, west-flowing creek has eroded a steep-sided gully through the zone. Talus slopes are common throughout the RGS Zone, but bedrock is limited to infrequent, small cliffs.

Geology

The RGS Zone is underlain by laminated chert with interbedded siltstone and shale of the Mount Christie Formation and laminated dark grey, calcareous siltstone belonging to the Jones Lake Formation (Figure 54).

Detailed mapping has divided the Mount Christie Formation into three sub-units in the vicinity of the zone. The lowest sub-unit (CPMC1) is characterized by laminated to thinly bedded, light grey, grey-green and black chert interbedded with dark grey siltstone and shale. This sub-unit is exposed to the south and west of the zone, within the core of an inferred anticline. The overlying sub-unit (CPMC2) consists of distinct, thin- to medium-bedded, commonly buff weathering, reddish-brown to maroon chert. In the western part of the map area, a section of Mount Christie Formation stratigraphy is pervasively silica-altered and variably mineralized (CPMC3). This alteration zone hosts the RGS Zone.

Jones Lake Formation is locally divided into two sub-units, which lie conformably and structurally against the underlying Mount Christie Formation. Thin bedded, dark grey, calcareous siltstone (TrJb) unconformably overlies CPMCb chert. The other sub-unit comprises thin-bedded, brown, fine grained, sandstone and siltstone with interbedded black argillite and laminated to blocky, grey, silty limestone (TrJa). It is juxtaposed against TrJb siltstone and altered Mount Christie Formation rocks to the south, along an inferred fault.

All units in the vicinity of the zone are tightly folded into metre-scale cylindrical folds with very shallowly plunging fold hinges that trend northwesterly and southeasterly. Three major anticlinal hinges are continuous over several hundred metres within the Mount Christie Formation chert near the centre of the zone.

Mount Christie Formation has been cut by a series of steeply dipping, dominantly northeast-trending structures, which appear as one metre wide pockets of healed fault breccia. These structures post-date folding in the area. Fractures and veins consistently strike north-northeasterly and dip near vertically.

Mineralization

Mineralization in the RGS Zone is mostly exposed south of the creek that has cut the deep gully through the zone.

In 2011, mineralized talus was discovered north of the creek beneath an uprooted tree. This showing consisted of galena and lesser sphalerite blebs within pervasively rusty, angular cobbles of Jones Lake Formation limestone. A sample of this material yielded 105 g/t silver, 1.03% lead, 0.33% zinc and 126 ppm tin.

Mineralization south of the creek primarily occurs within a 370 m by 400 m area of strongly silicified, Mount Christie Formation chert and possibly Jones Lake Formation siltstone (Figure 54). It consists of rusty weathering chert with fracture-filling pyrite, chalcopyrite, galena, sphalerite and arsenopyrite. The density of mineralized fractures within this area appears to be low; however, the mineralization is observed over a broad area. No samples have been taken of this weakly fractured mineralization.

Two main showings have been identified south of the creek.

One area contains abundant fragments of well mineralized vein talus, which are concentrated in a 20 m long band. These vein fragments consist of interlaminated arsenopyrite and quartz, hosted within chert. Based on observed thicknesses, the fragments indicate a possible vein width of 6 to 14 cm. Four vein samples collected in 2011 from this talus band averaged 126 g/t silver, 0.45% lead, 582 ppm tin and 0.117 g/t gold. Hand trenching failed to expose a bedrock source for this mineralization.

The other showing is a mineralized float train, located 220 m to the northeast of the first showing. It comprises sparse, intensely limonitic cobbles and fragments of quartz-arsenopyrite vein talus, which have been traced for 75 m. No bedrock source has been found. Twelve samples, collected by Silver Range from this showing in 2012, averaged 165 g/t silver, 2.77% lead, 0.72% zinc, 0.15% copper and 402 ppm tin.

In 2013, another eleven samples were collected from the RGS Zone. These samples were mostly taken in areas surrounding the known showings and yielded weakly elevated gold, silver and lead values. A composite chip sample was collected from bedrock along the creek bank, east of the main arsenopyrite-rich float train. It comprised quartzose limonitic fragments containing 2% disseminated pyrite. This sample consisted of chips taken across a 10 cm wide fault over a length of 20 m. It yielded 10.85 g/t silver, 1.38% zinc, 0.165% lead, 189 g/t tin and 1705 ppm arsenic.

Soil Geochemistry

Soil sampling was performed at the RGS Zone in 2011 and 2012. The soil anomaly appears to be zoned from north to south, though this zonation may be exaggerated due to differential sample densities – the northern half of the anomaly was grid sampled but the southern part was only tested by three contour lines. Silver, copper, antimony, molybdenum, arsenic and antimony are elevated throughout the anomaly. Lead, zinc, tungsten and bismuth are highest in the northern half, while gold is stronger in the south.

Results for silver, lead and arsenic are shown on Figures 55 through 57, respectively. No additional soil samples were collected at the RGS Zone in 2013.

DREX ZONE

The Drex Zone lies 12 km east-southeast of the Keg Main Zone and one kilometre east of the RGS Zone. The Drex Zone is situated in an east-west trending creek valley that cuts sharply into

an extensive upland plateau. Outcrop is generally sparse, but is locally concentrated along the deeply incised creek cut and on a scarp, which forms the uphill edge of a northwest-trending recessive feature that extends the length of the zone. Unvegetated talus slopes are common on a north-facing hillside, southwest of the creek, but other areas are densely covered by black spruce forests at lower elevations and thick dense brush at intermediate elevations.

Geology

The Drex Zone is underlain by Mount Christie Formation chert and Tay Formation fine-grained clastics and limestone (Figure 58).

Mount Christie Formation is the primary host to mineralization at the Drex Zone. A sliver of Tay Formation silty limestone, located in the northwest corner of the zone, is separated from the Mount Christie Formation by a northwest trending high-angle fault.

All units in the area are tightly folded into metre-scale cylindrical folds with very shallowly plunging fold hinges that trend west-northwesterly. The folds are particularly well developed in the maroon chert near the faulted contact with Tay Formation.

A major northeast-trending fault follows a major creek valley in the eastern part of the zone. East of this fault, the prominent northwest-trending recessive linear is offset about 50 m to the northeast.

Mineralization

Mineralization at the Drex Zone consists of disseminated, blebby, fracture-filling and vein-hosted arsenopyrite with lesser galena, pyrite and sphalerite. Scorodite and limonite are common on weathered surfaces. All mineralization is hosted in light brown to grey, locally strongly bleached chert of Mount Christie Formation. The veins are discontinuous and up to 40 cm wide, and have quartz gangue.

Prior to 2012, twenty-three rock, composite and chip samples were collected from bedrock and talus. Thirteen of the better mineralized samples averaged 211 g/t silver, 2.10% lead, 0.80% zinc, 0.14% copper and 2204 ppm tin. The samples yielded below detection limit (0.2 g/t) gold values, except one that returned 0.4 g/t.

In 2012, Silver Range took ten additional samples of vein, shale and chert float from this zone (Figure 58). Of these samples, two comprising quartz-arsenopyrite veins, returned: 221 g/t silver, 2.91% lead, 2.04% zinc, 0.114% copper, 1525 ppm tin and 0.04 g/t gold; and, 176 g/t silver, 1.42% lead, 2.33% zinc, 0.270% copper, 3340 ppm tin and 0.127 g/t gold. The non-vein samples yielded low values for all metals.

Work at the Drex Zone in 2013 focused on peripheral targets and did not resample the previously identified showings. Ten additional rock samples were collected, three of which returned weakly to moderately elevated tin but background values for other metals of interest.

Soil Geochemistry

Contour and grid soil sampling was done at the Drex Zone in 2010 and 2011. Samples were collected at 50 m intervals on a contour line or every 50 m along grid lines spaced 100 m apart. Many of the samples returned very strongly anomalous silver, lead, and tin values.

Most of the anomalous samples were taken along the flanks of the creek that cuts through the Drex Zone and around a cirque at the head of that drainage. At lower elevations, the sample line diverged away from the creek cut, following the 1,250 m contour to the east. The samples that returned the highest values for most metals were taken along this contour line, over for a distance of 200 m starting at the creek. Peak values of 48.7 g/t silver, 9560 ppm lead and >500 ppm tin were all obtained from the same sample. All of the anomalous samples were collected from areas that are underlain Mount Christie Fountain chert.

Results for silver, lead and arsenic are shown on Figures 55 through 57 respectively. No soil samples were taken in 2013.

Diamond Drilling

A four hole diamond drill program was conducted at the Drex Zone in 2011. This drilling suggests that the Drex Zone is structurally complex and supports surface evidence of strong folding and faulting. All of the holes were collared on or near the hinge of an easterly oriented anticline, which coincides with strongest multi-element soil geochemistry in this area.

The first hole was lost immediately in broken ground, and it is believed that holes DRX-11-02 and -03 were collared in the most prospective horizon and passed out of it at shallow depths. Hole DRX-11-04 was collared near the fold hinge, closer to the surface showings. The strongest mineralization was intersected near the top of this hole.

Table 18: Drex Zone – Drill Highlights

Hole #	From (m)	To (m)	Length* (m)	Ag (g/t)	Pb (%)	Zn (%)	Cu (ppm)	Sn (ppm)
DRX-11-02	15.24	18.29	3.05	87.70	0.00	0.02	0.02	17
DRX-11-04	24.00	30.48	6.48	31.74	0.35	0.27	0.03	320
and	94.95	95.85	0.90	64.20	0.82	0.66	0.06	581

No drilling was done at the Drex Zone in 2012 or 2013.

ARCHIMEDES ZONE

The Archimedes Zone spans two northwest-trending ridges that extend out from a large flat-topped mountain, 16 km east-southeast of the Keg Main Zone.

Steep talus slopes cover the flanks of the ridges, on either side of a west-northwest flowing creek. At the head of the drainage, rugged outcrop and boulder fields extend upward to a

felsenmeer-blanketed plateau, atop the central mountain. Outcrop is moderately abundant along the crest of the northwest-trending ridges.

Sparse spruce and brush cover slopes and valley bottoms at low elevations in the south, where the west-northwest flowing creek drains into a larger northeast flowing creek. Several linear gullies trend northwestly and northeastly throughout the Archimedes Zone.

Geology

The Archimedes Zone is underlain by interbedded fine-grained clastics of the Tay Formation, chert of the Mount Christie Formation and limestone belonging to the Jones Lake Formation. Massive quartz veining and near-complete quartz replacement of sedimentary rocks occurs in north-trending elongate lenses in the southern part of the zone (Figure 59).

Tay Formation outcrops in the southwest corner of the zone and can be divided into two lithological packages. The eastern package comprises grey to buff medium-grained arenite with metre-scale interbeds of limey sandstone that often are fractured and exhibit quartz replacement (MT2). To the west, laminated to interbedded, variably calcareous clastics comprising dark grey fine-grained carbonaceous siltstone, medium grey medium-grained quartzose siltstone, limey siltstone and quartzose sandstone (MT) are exposed. Siltstone and sandstone interbeds are generally 0.1 to 2 cm thick, while limestone interbeds are up to 0.5 m thick.

Mount Christie Formation chert is exposed to the north-northeast of the Tay Formation. There are two varieties of chert: the first is banded light teal and grey with quartz veining; and, the second is massive, mottled black and maroon. The chert along the northeastern ridge is folded in a northwest-trending antiform that was traced for over 400 m. Jointing along this ridge is predominantly oriented at 120°/60° S.

A pebble breccia comprising chert and quartz vein clasts in limonite and goethite matrix crops out in a 40 m wide east-trending band that cuts Mount Christie Formation chert in the southeast corner of the zone. Similar material occurs as float in a northwest-trending linear gully, 400 m to the north.

Elongate bands of intense silicification and massive quartz veining, which trend north to northwest through both Tay and Mount Christie formations, are exposed along the southwestern ridge. Jointing is somewhat irregular in this area, but the primary joint set trends 060° and dips near-vertically.

A northwest-trending fault marks the boundary between Archimedes and Newton zones. This fault places Rabbitkettle Formation and Road River Group rocks to the southwest against units of the Tay and Mount Christie formations to the northeast.

Mineralization

The best mineralization discovered to date at the Archimedes Zone comprises blocks of blebby galena-, sphalerite- and limonite-healed breccia found within Mount Christie Formation quartzite

and limestone talus. This mineralization has been traced intermittently up a 200 m long talus train that leads to an area capped by unmineralized quartzite subcrop and bedrock, at the ridge crest. The showing lies within and adjacent to a north-trending quartz vein and silica-replacement zone that is cut by a northeast-trending recessive linear at the contact between the two Tay Formation sub-units.

Some of the better mineralized talus float samples collected prior to 2013 averaged 1043 g/t silver, 12.73% lead, 0.13% zinc, 682 ppm tin and 5.5 ppm indium. In 2012, a number of hand trenches were attempted within the apparent source area of the well mineralized float, but most of them did not reach bedrock. Five float samples collected from these trenches all graded better than 170 g/t silver, and averaged 433 g/t silver, 12.10% lead, 0.21% zinc, 674 ppm tin and 17.5 ppm indium. A 25 cm chip sample of rusty limestone with disseminated galena which was exposed in the westernmost trench returned 287 g/t silver, 6.35% lead, 0.195% zinc, 644 ppm tin and 13.2 ppm indium.

Six rock samples were collected from the Archimedes Zone in 2013 (Figure 59), but only one returned moderately elevated silver. This sample was collected from an outcrop of quartzite containing minor vuggy limonite, which is located 100 m northwest along the ridge crest from the 2012 hand trenches. It returned 43.7 g/t silver, 0.317% lead, 92.8 ppm tin and 11.45 ppm indium. Two other float samples, comprising limonitic quartz breccia, were collected in the southeast corner of the zone. These samples were taken 100 m apart and yielded weakly elevated lead values (2090 and 1710 ppm).

Mineralization in the Archimedes Zone is spatially associated with northeast-trending linear features that are inferred to be faults with unknown sense of motion. Silicification typically accompanies mineralization.

Soil Geochemistry

Grid soil sampling was performed at the Archimedes Zone in 2011 and 2012. Samples were collected every 50 m along lines spaced 100 m apart. Near the centre of the zone, sample lines were spaced 50 m apart. Results for silver, lead, zinc and antimony are shown on Figures 60 through 63.

A 370 by 300 m cluster of samples that produced very strongly anomalous silver, lead, antimony values occurs along a north facing slope, near the centre of the zone. Five samples within this cluster yielded greater than 10 g/t silver, with a peak value of 25.6 g/t. These samples were taken downhill from the hand trenches dug along the ridge in 2012.

No soil sampling was done at the Archimedes Zone in 2013.

NEWTON

The Newton Zone lies 18 km southeast of the Keg Main Zone and one kilometre north of the Euclid Zone. It was first classified as a secondary geochemical anomaly in 2012 and was reclassified as a primary anomaly in 2013. The area covers three sub-alpine plateaus that

gradually transform into three broad ridges to the north. These ridges are separated by two steep-sided north-flowing creeks.

Outcrop is relatively abundant in the area and is concentrated on the flanks of the ridges and along the walls of east-trending linear gullies. Spruce and low brush cover lower elevations to the north, while moss and grass blanket the plateaus to the south.

Geology

The Newton Zone is underlain by interbedded variably calcareous siltstone to sandstone, shale and slate belonging to the Ordovician-Silurian Road River Group (Figure 64).

In the vicinity of the Newton Zone, Road River Group has been divided into four lithologies: 1) dark grey siltstone to black shale, which underlies most of the area; 2) interbedded dark blue-grey siltstone and light calcareous siltstone to sandstone with a recrystallized texture, which is exposed as a 400 m thick bed along the eastern creek; 3) light grey silica-recrystallized medium-grained limey siltstone, interbedded with dark grey siltstone, which occurs in the western part of the zone; and 4) blue-grey slate with a minor phyllitic sheen that is associated with folding. The Road River Group often has orange to dark red weathered surfaces.

A prominent east-trending linear gully that bisects the zone marks the surface trace of a high-angle fault. To the east, this fault terminates against a thrust fault that places Road River Group above Tay Formation. The high-angle fault offsets the contact between folded slate and siltstone by about 150 m.

Medium- to coarse-grained concordant quartz veins, 0.5 to 5 m thick, are continuous over several hundred metres in the centre of the zone. These veins trend northwesterly and dip moderately to the south. Generally the quartz veins have distinct contacts; however, locally the contacts are gradational into fine-grained host rocks that exhibit intensely silicification.

A northwest-trending fault forms the boundary between the Newton and the Archimedes zones. This fault places Road River Group hosting the Newton Zone against Tay Formation hosting the Archimedes Zone. A magnetic low (Figure 20) and a linear conductor (Figure 21) coincide with this fault. Both of these geophysical features trend east-southeastly towards the Vent Zone, two kilometres to the east.

Mineralization

In 2012, prospecting located two mineralized showings along the thrust fault separating Road River Group and Tay Formation. Both are associated with quartz veining within Road River Group.

The first showing (N1) is located near the centre of the zone (Figure 64). Two float samples collected from this showing returned strongly anomalous silver values (1,050 g/t and 692 g/t). The sample that contained 1,050 g/t silver and also yielded 2.10% lead, 501 ppm tin, 7970 ppm antimony, 4,660 ppm bismuth and 0.224 g/t gold. This sample was composed of quartz-

arsenopyrite vein fragments. Another six samples collected nearby yielded weakly to moderately elevated silver values, averaging 43.52 g/t.

Three float samples were collected from the second showing (N2), located 600 m to the southeast along a gentle north-trending ridge. These samples comprise quartz-arsenopyrite vein fragments and average 700.6 g/t silver, 5.18% lead, 0.02% zinc, 1,125 ppm antimony and 0.469 g/t gold. It is believed that these samples are near their source.

In 2013, Silver Range collected 24 samples within the Newton Zone. Most of the samples were taken near the thrust fault or the east-trending linear fault gully. They include altered Road River Group rocks, limonitic quartz vein and quartz-carbonate limonitic breccia. Ten of the samples yielded greater than 10 g/t silver, averaging 117.78 g/t silver, 0.62% lead, 4.22% zinc and 0.036 g/t gold.

A float sample of iridescent, very dark red altered micaceous sediment was collected toward the eastern end of the high-angle fault (N3 on Figure 64). This sample contained sphalerite, galena and limonite and yielded 982 g/t silver, 4.18% lead, 9.73% zinc, 107.5 ppm antimony, 1985 ppm bismuth and 0.078 g/t gold. It is likely that this well-mineralized float is near source, because similar material was collected from bedrock nearby, although it gave weaker results (see Table 19).

Another showing (N4) was found along the same high angle fault, 800 m west of N3. A grab sample taken from brecciated bedrock with centimetre-scale clasts of limey siltstone and dark grey siliceous siltstone in a matrix composed of quartz, calcite, limonite and fine grained rosy-red sphalerite. This sample yielded 30.44% zinc.

Significant rock sample results from 2012 and 2013 are presented in the following table.

Table 19: Newton Zone – Significant Rock Sample Results

Year	Showing	Type	Ag (g/t)	Pb (%)	Zn (%)	Au (g/t)
2012	N1	Qz-As vein float	1050	2.10	0.029	0.224
2012	N1	Qz-As vein float, near source	692	0.574	0.008	0.183
2012	N2	Massive As in float	1330	10.85	0.038	0.196
2012	N2	Qz vein float	707	4.44	0.018	0.165
2012	N2	Qz vein float	64.7	0.261	0.0153	1.045
2012	N1	Qz-Py vein float	73.8	0.756	0.0491	<0.005
2012	N1	Qz-As vein bedrock grab	56.4	0.592	0.0138	0.100
2012	N1	Chert float with sulphides	51	0.371	0.5910	0.0025
2012	N1	Qz vein float	49.5	0.213	0.0161	0.031
2012	N1	Qz-As vein grab	19.85	0.999	0.0468	0.116
2013	N3	Near-source float, altered sediments with Gn, As, Sp, Li	982	4.18	9.73	0.078
2013	N3	Bedrock composite over 2 m, altered sediments	38.9	0.84	0.704	<0.005

2013	N4	Bedrock grab. Qz-Ca-Li-Sulphides breccia	29.5	0.04	30.44	0.006
2013	-	Float grab from pit at historical soil CC142485.	27.2	0.206	0.0642	0.006
2013	N3	Bedrock composite (10 pieces, 2x2m). Lim in altered sediments	24.2	0.0225	0.0891	<0.005
2013	N1	Bedrock composite (10 pieces, 2 x2m). Lim and clays adjacent to quartz vein	17.65	0.044	0.0037	<0.005
2013	-	Float grab. Qz-Sp-Li	16.65	0.00959	0.0463	<0.005
2013	-	Float composite (20 pieces over 4x4m) of gossan. Altered, Li sediments, blue recrystallized rock.	16.1	0.1075	0.063	<0.005
2013	N1	Composite float (10 pieces, 4x4m). Altered sediments with Gn, Py, Li and Sp	14.45	0.757	0.979	0.052
2013	N3	Near-source float composite (10 pieces, 3x3m). Qz-Sp vein	10.95	0.00566	0.12	<0.005
2013	N4	Near-source float composite (10 pieces over 2 x 2 m). Limey siltstone, Qz-Li	2.41	0.0011	3.02	<0.005

Qz – quartz, Bx – breccia, Gn – galena, As – arsenopyrite, Py – pyrite, Sp – sphalerite, Ca – Calcite, Li – limonite

Soil Geochemistry

Soil sampling at the Newton Zone included contour sampling in 2011 and 2013 and grid sampling in 2012. The soil grid was placed near the centre of the zone and covers a 500 m by 500 m area, immediately south of the east-trending high-angle fault. Results for silver, lead, zinc and antimony are shown on Figures 60 through 63.

Results from soil sampling include strongly to very strongly anomalous silver, lead, zinc and bismuth values as well as strongly anomalous antimony and tin. The highest values form a band that parallels the east-trending high-angle fault and spans the zone. The anomalous band cuts topographic features and is most evident in the zinc values.

EUCLID ZONE

The Euclid Zone is located 18 km southeast of the Keg Main Zone. It lies above treeline on a steep west-facing slope where abundant talus and outcrop are surrounded by grass. A prominent flat-topped peak is situated near the centre of the zone.

Geology

The Euclid Zone is underlain by variably calcareous quartzose siltstone to sandstone of the Road River Group and shale of Prevost Formation, which have been intruded by a Tertiary rhyolite plug. Shale adjacent to the rhyolite plug is thermally altered and exhibits strong cleavage. To the south of the zone, Tertiary ash tuff overlies quartzose crystal tuff (Figure 64).

Road River Group generally comprises dark grey, medium-grained silicified siltstone that is interbedded with light grey medium-grained, silicified, limey sandstone. Where hornfelsed, Road River Group siltstone is orange to red, and heavily fractured.

Very dark grey to black shale belonging to the Prevost Formation is often altered, foliated and friable near the margin of the rhyolite plug. Extensive quartz veining and silicification occurs locally within this unit. Prevost Formation shale is in contact with Road River Group siltstone to the east of the plug.

Well-formed columns of light grey quartz-pyroxene-biotite-phyric rhyolite form impressive cliffs near the centre of the Euclid Zone. This rhyolite is locally weathered to orange, yellow and rosy pink surfaces. Near its margin, the rhyolite plug contains abundant xenoliths of quartzose siltstone and shale.

Obsidian quartz porphyry, containing millimetre-scale quartz crystals, is exposed along the southern contact between the rhyolite plug and sedimentary units. This distinctive sub-unit is offset approximately 300 m by a northeast-trending fault. A linear valley, east of the columnar rhyolite exposure, is thought to represent the surface trace of this fault.

Soft fine-grained, weakly oxidized, light grey ash tuff is exposed in talus in the southeast portion of the zone. This is thought to be associated with the emplacement of the Tertiary rhyolite plug. Medium-grained quartzose crystal tuff with fine soft white matrix underlies the ash tuff to the south.

Gossanous siltstone is associated with three east-northeast trending faults in the northeast part of the zone. Each of these faults is continuous over approximately 100 m. The orientation of the faults is consistant with dominant jointing in the area, which dips steeply to the southeast.

Mineralization

The most colourful rocks in the vicinity of the Euclid Zone are yellow and green stained, bleached shale that lies in close proximity to the rhyolite plug. The shale is locally crackle brecciated and thermally altered along the rhyolite contact. The altered shale horizon is well exposed over a 500 m strike length. In 2012, 15 samples were collected from the rhyolite plug and adjacent shale (Figure 64). None of these samples returned anomalous values.

Much more encouraging results were returned from 12 float samples of rusty weathered chert and shale containing variable amounts of arsenopyrite, which were collected 390 m northwest of the plug. Seven of these samples returned greater than 23 g/t silver, averaging 155.8 g/t silver,

0.14% lead, 0.03% zinc, 0.214 g/t gold and 464 ppm bismuth.

In 2012, another showing was discovered one kilometre to the west. Three of four samples from this area, each consisting of quartz-arsenopyrite vein fragments, averaged 700.6 g/t silver, 5.18% lead, 0.02% zinc, 1125 ppm antimony and 0.469 g/t gold.

In 2013, 14 additional samples were taken in and around the Euclid Zone. The best results came from a float composite sample of gossanous quartz and limonite material collected upslope from the showing near the rhyolite plug. This composite sample yielded 68.1 g/t silver, 1440 ppm arsenic, and 0.05% zinc. Similar gossanous material was traced in an east-northeast trend that parallels jointing.

Soil Geochemistry

Grid soil sampling was completed over much of the Euclid Zone in 2011 and 2012. Samples were collected every 50 m along lines spaced 100 m apart. Results for silver, lead, zinc and antimony are shown on Figures 60 through 63.

Very strongly anomalous zinc values occur throughout the grid. The strongest zinc values occur 250 m south of the plug within a wedge of Road River Group. Strongly anomalous silver and antimony values support the zinc results.

A number of isolated samples throughout the area of the Euclid Zone returned elevated gold-in-soil values, including a peak of 61 ppb.

VENT ZONE

The Vent Zone is located above treeline on a 575 by 280 m, moss-covered plateau at the summit of a gossanous mountain, 21 km southeast of the Keg Main Zone. Felsenmeer and talus boulders are abundant on the upland plateau and western slopes of the hill. Outcrop is sparse and is mostly found along cliffs to the east and north of the plateau. Grass and scattered brush covers the southern and western slopes.

Geology

The Vent Zone is hosted in felsic volcanic rocks that cap Ordovician to Permian sedimentary rocks (Figure 65).

Buff orange weathering, dark grey mudstone to black shale assigned to the Portrait Lake Formation, form the basal stratigraphy at this zone. It is overlain by quartzite, chert and shale of the Prevost Formation**.** Northwest-trending bull-quartz veins cut dark gray Prevost Formation mudstone on the northwest side of the hill just below the plateau.

Loosely consolidated felsic volcaniclastic rocks, containing bombs ranging from 10 to 50 cm in diameter, cover much of the hilltop. No outcrop containing these volcaniclastic rocks has been discovered; but the rocks appear to be locally derived felsenmeer. Talus comprising white to

light grey ash tuff is common. This talus is interpreted to represent the basal layer of the volcaniclastic unit.

Mineralization

The Vent Zone was discovered in 2012 while following up a broad multi-element soil anomaly. Mineralization comprises: 1) disseminated arsenopyrite in volcaniclastic bombs within the felsenmeer cap on the plateau; and 2) quartz-arsenopyrite veins that cut the volcaniclastic and underlying shale on the adjacent steeper slopes.

Forty-one float samples, collected from the Vent Zone in 2012 (Figure 65), averaged 131.8 g/t silver, 0.51% lead, 0.02% zinc, 0.02% copper, 0.198 g/t gold and 557 ppm antimony. Of these, sixteen returned greater than 100 g/t silver, while only five contained less than 10 g/t. The majority of these samples were collected from a 75 m long float train composed of quartz-arsenopyrite vein fragments and cobbles of brecciated tuff containing disseminated to wispy banded arsenopyrite.

Two trenches were cut at the Vent Zone in 2012 using a heli-portable CanDig excavator. The first trench (VENT-1) was designed to test for bulk tonnage potential in the volcaniclastic rocks. It was dug for 198 m across the plateau, parallel to the orientation of the mineralized veins. The second trench (VENT-2) was oriented perpendicular to the veins and was 80 m long.

Both trenches were located within the volcaniclastic unit. Neither was able to reach bedrock; however, the material found at the bottom of both trenches is not believed to have been transported far. Results from the trench sampling are summarized below.

Table 20: Vent Trench Sampling – Significant Trench Intervals

Trench	From (m)	To (m)	Interval (m)	Ag (g/t)	Pb (%)	Zn (%)
VENT-1	33.00	60.00	27.00	9.05	0.096	0.014
Incl.	54.00	60.00	6.00	16.42	0.094	0.013
VENT-1	90.00	138.00	48.00	9.84	0.100	0.020
And	126.00	138.00	12.00	17.56	0.098	0.019
VENT-2	6.00	42.00	36.00	15.49	0.141	0.019
Incl.	21.00	42.00	21.00	21.02	0.147	0.017
VENT-2	72.00	80.00	8.00	247.08	1.304	0.023

Topographic constraints prevented VENT-2 from fully evaluating two float trains consisting of material from mineralized veins. The trench stopped in vein material at one end and terrain was too steep at the other end to reach the second float train, where most of the well mineralized samples were taken. Both trenches were backfilled and reclaimed prior to demobilization.

Another seven rock samples were collected from the Vent Zone in 2013. Most of the samples comprised limonitic vein breccia taken from boulders and outcrop immediately downhill from VENT-2. These samples did not produce any significant results. A float sample consisting of

white ash tuff with centimetre-scale arsenopyrite banding was collected uphill of VENT-2. This sample yielded 73.1 g/t silver, 0.16% lead and 59.7 ppm tin.

Soil Geochemistry

Grid soil sampling was conducted at the Vent Zone in 2011 and 2012. Samples were collected at 50 m intervals along lines spaced 100 m apart over much of the zone and 50 m apart near the northern and western edges of the plateau. Samples returned very strongly anomalous silver, lead, arsenic, antimony, bismuth and gold values. All of the samples collected from the area underlain by the volcaniclastic unit yielded anomalous results. The sample that produced the peak silver value (68.2 g/t) was collected 135 m north of the 2013 drill holes described below.

Drilling

Two diamond drill holes totaling 280.00 m were completed on a section at the Vent Zone, between June 16 and 21, 2013. The drilling was conducted by Top Rank Diamond Drilling Ltd. with a heli-portable Multi-Power Discovery II drill using NQ2 equipment. The locations of the holes are illustrated in plan view on Figure 65 and in cross section on Figure 66.

Drilling targeted the down-dip extensions of the mineralized veins indicated by prospecting and trenching in 2012. The holes were designed to intersect the mineralized structures just below the contact between the volcaniclastic and underlying sedimentary units, where it was hoped that a mineralizing fluids may have been trapped to form strong veins or a stratabound replacement deposit.

Surprisingly, both holes encountered siltstone directly below the casing and stayed in that unit for the entire length of the hole. No volcaniclastic rocks were cored. Silicified bands, up to 2 m wide within the siltstones are thought to represent vein structures.

Core from both drill holes returned weakly elevated values within the silicified bands near the targeted down-dip projections of the well mineralized trench exposures. However, these intercepts yielded much lower silver and lead grades than the trench samples. Intersections from hole VEN-13-002 are elevated in zinc relative to those in hole VEN-13-001 and the surface trenches.

The following table lists the mineralized drill intercepts from the Vent Zone drill holes.

Table 21: Vent Zone – Drill Highlights

Hole	From (m)	To (m)	Interval (m)	Ag (g/t)	Pb (%)	Zn (%)
VEN-13-001	89.00	98.00	9.00	11.11	0.166	0.096
and	104.80	106.20	1.40	32.80	0.449	0.079
VEN-13-002	93.69	95.22	1.53	2.42	0.004	1.880
and	142.43	146.67	4.24	0.70	0.003	0.689

Although both holes appear to have crossed the targeted structures, mineralization is weaker than expected and the sedimentary rocks were intersected sooner than planned. Any future drilling

should test the volcaniclastic unit and structures within it, with holes collared further uphill to the south. Induced polarization surveys are recommended before drilling to identify a possible feeder pipe for the volcaniclastic rocks.

MARKS ZONE

The Marks Zone is centred on a predominant mountain located 24 km southeast of the Keg Main Zone. The area is predominantly above treeline, ranging from 1850 m asl at the peak of the mountain to 1200 m asl on the floors of surrounding creek valleys. Treeline is at approximately 1400 m asl. Outcrop is concentrated near the peak.

An alpine cirque valley is carved into the west side of the mountain. To the south and east of the mountain, slopes are gentler and are covered with sparse spruce and dense brush.

Geology

Marks Zone is underlain by Cambrian through Permian aged sedimentary rocks (Figure 67). Stratigraphy trends southeastly, and is imbricated by a series of sub-parallel thrust faults. Bedding typically dips shallowly to the southwest, but it is often intensely folded locally.

The southern and central parts of the Marks Zone are underlain by fine-grained clastic rocks assigned to the Rabbitkettle Formation, which is further sub-divided into two lithologies. Medium-grained grey quartzite, interpreted as silicified arenite, is interlayered with very dark grey mudstone to black shale.

Road River Group consists of: medium to dark grey mudstone to siltstone with fine buff calcareous swales interlayered with medium blue-grey slate; and grey calcareous siltstone with wavy laminations, centimetre-scale sulphide blebs and minor interlayers of black siltstone.

Black shale belonging to the Prevost Formation is exposed in a fault sliver within the central portion of the zone. Locally, these rocks are folded and include a pebble to cobble heterolithic breccia with grey mudstone matrix.

Tay Formation mostly consists of dark blue and white banded calcareous siltstone. Light to medium grey fine-grained blebby quartzose rock, interpreted as metamorphosed banded siltstone, occurs in lenses adjacent to the banded siltstone in faulted and folded areas. Striped grey and black, foliated chert is exposed in fold hinges in the north-central portion of the zone. Decimetre-scale bladed calcite veins are often found within rocks of this formation.

Mount Christie Formation comprise light to dark teal chert, often with sucrosic quartz recrystallization. These rocks are frequently orange weathered and are exposed in a band several hundred metres wide, streaching from northwest to southeast across the northeastern edge of the zone.

Medium-grained silica recrystallization is evident in Mount Christie Formation chert along the eastern side of a ridge on the north side of the mountain. Recrystallization within Tay Formation banded siltstone, further south along this ridge, is accompanied by hornfels alteration.

A prominent southeast-trending recessive linear that transects the entire zone is interpreted as the surface trace of the southernmost fault in a series of parallel thrust faults. This fault places folded and deformed Rabbitkettle Formation above a panel containing Prevost Formation and Road River Group, which in turn is thrust over Tay Formation. On the northwest side of the zone, these thrust faults are cut by a northeast trending high angle fault, north of which a sliver of Rabbitkettle Formation is thrust over Road River Group. North-northwest to north-northeast high-angle faults in the southern portion of the Marks Zone offset a contact between chert and quartzite. Rocks within and adjacent to these faults are often altered to a dark red colour.

In the western corner of the zone, quartz-feldspar porphyry float has been found along a northwest flowing creek. The bedrock source of this float has not been located.

Mineralization

The Marks Zone comprises several historical showings that were discovered by Ridgemont Mining in 1975. These showings reportedly consist of fine-grained siliciclastic rocks (Rabbitkettle Formation) with minor vein and replacement-style lead-zinc mineralization and more extensive disseminated to layered iron sulphides. Ridgemont Mining did not report any assay results. The showings lie at or below treeline, in an area with gently rolling to locally steep topography.

In 2011, Silver Range collected 10 rock samples from the area. These samples primarily consisted of chert with thin bands of fine-grained pyrite and pyrrhotite. Most of the samples yielded subdued to weak results. Only two samples returned moderately elevated values. A sample of highly siliceous quartz porphyry(?) with weak limonite yielded 7.49 g/t silver and 0.82% zinc, while a sample of pyrite-rich, dark brown skarn collected from a creek bed returned 0.23% copper and 550 ppm tungsten.

In 2013, Silver Range collected another 24 rock samples from the Marks Zone (Figure 67). Some of these returned significant values. Two samples contained strongly elevated silver and lead, while three others yielded weakly elevated zinc values. Two of the anomalous samples also returned weakly elevated tungsten values. The highest of these was collected from the northeast flowing creek near the centre of the zone. The other tungsten enriched sample was collected from a northwest flowing creek, upstream from the grab sample collected in 2011 that yielded 550 ppm tungsten. Both of these samples were taken from the area where quartz-feldspar porphyry float was previously identified. This area coincides with a magnetic low that Condor interpreted as evidence for a buried pluton. Anomalous samples from 2013 are listed in the following table.

Table 22: Marks Zone – Significant 2013 Rock Samples

Type	Ag (g/t)	Cu (%)	Pb (%)	Zn (%)	W (ppm)
Float sample from trench across scorodite, argillite altered chert talus.	340	0.054	2.19	0.0374	5.2
Porous limonite in altered orange rock.	80.3	0.375	3.78	0.681	16.2
Chips from pit at soil sample site.	48.1	0.093	0.0121	0.204	324
Chips from pit at soil sample site.	13.35	0.005	0.038	0.0153	3.3
Bedrock composite. Blue rock with crackle veinlets, Lim, Sp, As.	1.12	0.006	0.00152	0.616	10.6
Float sample of punky skarn mineralization	0.93	0.004	0.0021	0.0271	146
Float sample at soil sample site	7.13	0.012	0.423	0.358	1.1

Lim – limonite, Sp – sphalerite, As - arsenopyrite

The sample that yielded 340 g/t silver also returned greater than 1% arsenic, 4380 ppm antimony, 97.8 ppm bismuth, 2.19% lead and greater than 500 ppm tin. This sample was taken from a hand-trench dug across a north-northwest trending float train of scordite- and argillically-altered light blue chert talus in the southwest part of the zone. The trench did not reach bedrock.

The sample that returned 80.3 g/t silver also contained 0.375% copper, 6750 ppm arsenic and 155.5 ppm tin. This sample was a composite sample of 12 pieces of porous orange float, which were collected from a 3 by 3 m area. The limonitic float lies along the trace of a fault that offsets an antiform in the northeast corner of the mapped area. Another sample taken adjacent to this structure returned 0.423% lead and 0.358% zinc.

Soil Geochemistry

Elevated lead, zinc, antimony and molybdenum results are present throughout the Marks Anomaly, while high silver, tin, tungsten, bismuth and arsenic values are mainly restricted to the northwest half of the anomaly. Scattered, elevated gold and copper values are found at the centre of the anomaly. Results for silver, lead, antimony and tungsten are shown on Figures 68 through 71.

The highest tungsten-in-soil (160 ppm) value on the Property was obtained from the Marks Zone. It lies within 470 m long by 330 m wide cluster of anomalous tungsten-in-soil results that occurs along a tributary creek in the western corner of the zone. The skarnified rock sample that yielded 0.23% copper and 550 ppm tungsten was also collected in this area.

WELD ZONE

The Weld Zone is a collection of four showings within a 3.3 by 1.6 km area, located 29.5 km southeast of the Keg Main Zone. The showings lie along a north-northwest trending rolling hill that is marred by a complex system of glacial outwash ravines. The area is drained by two west-southwest flowing creeks.

A moss and brush covered, flat-topped hill is located near the northern edge of the zone. The south side of the hill is covered with dense brush. Outcrop is sparse throughout the zone, mostly occurring along the sides of linear depressions. Boulder fields and talus slopes are common along a ridge extending east from the hill.

Geology

The Weld Zone is underlain by fine-grained clastics sediments mapped as Rabbitkettle Formation (Figure 72). Quartz veining and silica alteration are pervasive throughout the zone.

Rabbitkettle Formation is locally divided into three conformable lithologies. The predominant rock type is massive to laminated, dark grey, variably siliceous siltstone. Where exposed it is rusty, altered and fractured. Friable black shale found in the northeastern and western portions of the zone is distinguished by its dark red to orange weathering. Light grey and teal, chert and siliceous siltstone occur in small areas that are associated with strong quartz veining and pronounced linear depressions.

Quartz veining is pervasive throughout the Weld Zone, ranging from sub-millimetre veinlets in cherty rocks to metre-scale veins within the siltstone. Several well-defined linear depressions in the central portion of the Weld Zone are interpreted to be steeply east dipping faults. Easterly-trending recessive linears in the northern portion of the zone are spatially associated with cherty rocks.

Mineralization

The **Weld Main Showing** was discovered within a steep-sided ravine in 2012. A total of 14 float and grab samples were collected in the vicinity of this showing following the discovery. Of these, eight contained significant mineralization, averaging 180.5 g/t silver, 2.00% lead, 0.19% zinc, 0.19% copper and 162 ppm molybdenum (Figure 72).

Mineralization is hosted within chert and consists of a 1.3 m wide vein-fault that contains abundant weathered mineralized fragments. Galena and anglesite comprise the majority of the visible mineralization at surface. Two hand trenches were dug across this fault zone in 2012, with one located at the discovery site and the other 17 m along strike to the northeast. Results from these trenches are tabulated below.

Table 23: Weld Zone – Weld Main Showing Trench Results

Trench	Interval (m)	Ag (g/t)	Pb (%)	Zn (%)	Cu (%)	Mo (ppm)
T-1	3.2	170.8	0.62	0.22	0.20	52.4
Incl.*	1.3	353	0.64	0.34	0.44	77.3
T-2	2.81	9.4	0.22	0.27	0.02	38.9
Incl.*	1.01	13.4	0.31	0.36	0.02	44.7

* interval across vein-fault only

In 2013, a grab sample of bedrock containing vuggy limonite was collected from a fault structure 100 m southwest of the Weld Main Showing within a north trending ravine. This sample yielded 73.9 g/t silver, 0.34% lead, 0.14% zinc and 0.15% copper.

The **Caddy Shack Showing** is located 2.2 km north-northeast of the Weld Main Showing and was discovered in 2012 as mineralized fragments in gopher diggings within a gossanous, rubbly kill zone. The showing comprises abundant cobbles and small boulders of strongly weathered, limonitic quartz vein material. Mineralization consists of locally abundant galena and anglesite.

Thirteen samples of mineralized float were collected in 2012, averaging 1278.5 g/t silver, 16.56% lead, 0.07% zinc, 0.47% copper, 491 ppm tin and 1229 ppm antimony. Two samples produced anomalous gold values (0.114 g/t and 0.393 g/t). The weakest of the samples (61.9 g/t silver) was collected from a small kill zone located 180 m west of the Caddy Shack Vein.

Two hand trenches dug in 2013, spaced 15 m apart, exposed a dark red rubbly vein/fault structure near the mineralized rubble. The fault structure is approximately 30 cm wide, with an attitude of 062°/70° E. The vein/fault is hosted within teal, hornfels altered chert. Fracture faces in the wallrock chert are often coated with limonite. Very minor quartz veining was exposed in the trenches, massive quartz vein material is observed in situ 415 m to the west and in float 26 m to the east near the 13 mineralized samples collected in 2012. Quartz vein float and a few mineralized outcrops have been traced over a total strike length of 1100 m. Results from contiguous sampling within the two trenches are summarized in the table below.

Table 24: Weld Zone – Caddy Shack Showing Trench Results

Trench	Interval (m)	Ag (g/t)	Pb (%)	Zn (%)	Cu (%)	Au (g/t)
T-1	0.65	10.05	0.17	0.01	0.02	0.013
T-1	0.30	86	0.73	0.15	0.07	0.073
T-1	0.90	11.4	0.11	0.12	0.01	<0.005
T-2	1.0	3.66	0.12	0.07	0.01	<0.005
T-2	0.20	1540	3.39	0.41	0.14	1.26
T-2	1.0	10.55	0.06	0.13	0.01	0.013

The **Northeast Showing**, lies 1.6 km northeast of the Weld Main Showing and consists of two mineralized float occurrences situated 230 m apart. Both occurrences are in east trending outwash channels near the top of a flat-topped ridge. Mineralization comprises rusty quartz vein with banded arsenopyrite, and intensely altered and limonite pitted cobbles.

Six samples collected at the southerly occurrence in 2012 averaged 222.0 g/t silver, 2.93% lead, 0.25% zinc, 0.16% copper, 0.112 g/t gold and 19.5 ppm molybdenum. Another six samples taken from the northerly occurrence in 2012 averaged 130.5 g/t silver, 1.74% lead, 0.21% zinc, 0.06% copper, 0.007 g/t gold and 70.2 ppm molybdenum. Prospecting in 2013 failed to located any mineralized bedrock at either occurrence.

In 2013, a float sample collected from a boulder slope, 400 m west of the Northwest Showing, returned 222 g/t silver and 0.52% lead. This sample was a mixture of adamantine vuggy quartz vein, containing minor sphalerite, and grey to teal chert hosting limonite boxwork.

The **Southeast Showing** is located 1.7 km east-southeast of the Weld Main Showing, and comprises mineralized vein fragments found within chert talus. Three rock samples have been collected from different parts of a 500 m long northeast-trending silver-lead-zinc soil anomaly. In 2012, two samples of vuggy quartz float were collected from this showing. The first sample yielded 21.4 g/t silver, 0.58% lead, 0.02% zinc and 0.04% copper, while the second returned 674 g/t silver, 7.87% lead, 0.14% zinc, 0.34% copper, 55.2 ppm tin and 746 ppm bismuth. In 2013, a composite sample of vuggy quartz float taken 175 m northeast of the previous samples yielded 165 g/t silver, 3.49% lead, 0.17% zinc and 0.28% copper. No bedrock source for this mineralization has been identified.

Soil Geochemistry

Grid and contour soil sampling has been performed at the Weld Zone in each of the past three years. Samples along contour lines were collected every 50 m along lines spaced at 100 m elevation intervals. Closer-spaced grid soil sampling was done around each of the four mineral showings. Very strongly anomalous silver, lead, copper and antimony results were returned from all of the four soil grids. Results for silver, lead and antimony are illustrated on Figures 73 through 75.

Results from the Weld Main Showing outline a 300 m long east-trending anomaly that originates at the mineralized showing. The peak silver value of 725 g/t came from a sample collected from gougy soil within a fault structure. All of the strongly anomalous soils were taken along one of several ravines cutting the area. Results from samples collected elsewhere in this grid are weak to moderately anomalous for silver and other elements. The effectiveness of soil sampling at the Weld Main Showing is hindered by glacial deposits and the extensive network of glacial outwash ravines.

High silver, lead and antimony values from soil samples collected near the Caddy Shack Showing delineate an 850 m long by 100 m wide easterly trending anomaly that corresponds to the 1100 m long zone of quartz vein float, and which is roughly centred on the mineralized trenches.

A 575 m long anomaly is outlined by silver, lead and antimony values at the Northeast Showing. This anomaly originates at the showing and extends downhill to the west-northwest. Not all of the anomalous samples occur directly downhill of the showing, possibly indicating that this anomaly is not entirely related to downhill dispersion.

At the Southeast Showing, very anomalous silver and lead values were obtained from soil near the mineralized rock sample sites within a broad saddle along the ridge. Strongly anomalous values were also returned from samples collected up to 160 m to the northeast and up to 460 m to the southwest of the saddle, outlining a linear anomaly more than 600 m long.

Diamond Drilling

Two drill holes completed at the Weld Zone in 2012 tested beneath surface mineralization at the Weld Main Showing and the Cady Shack Showing.

Drilling at the Weld Main Showing intersected narrow rubbly, clay altered intervals that yielded poor core recovery but still returned encouraging results, as listed in the following table.

Table 25: Weld Zone – Drill Highlights

Hole	From (m)	To (m)	Interval (m)	Ag (g/t)	Pb (%)	Zn (%)	Au (g/t)
WLD-12-001	53.00	53.60	0.60	295.00	3.68	3.27	0.019
WLD-12-001	62.80	63.30	0.50	130.00	1.32	1.28	0.108

Hole WLD-12-002 was drilled at the Cady Shack Showing and targeted what at the time was believed to be an east trending near vertical structure. It intersected silicified siltstone with minor pyrrhotite and pyrite. A few narrow (approximately 0.5 cm) veinlets containing minor galena and sphalerite were cored; however, the hole did not cut any strong structure nor did it produce any significant intersections. Hole OSW-12-002 was located 53 m north-northwest of the 2013 trenches that exposed a mineralized vein fault. It is now thought that this hole was stopped 50 to 60 m short of its projected intersection with the vein fault.

KU ZONE

Ku Zone is located at the extreme southeast end of the Property, 45 km from the Keg Main Zone. The area covers broad rolling hills along a north-trending sub-alpine ridge. Several seasonal creeks drain the ridge toward the west and east. Bedrock is moderately abundant, along creek cuts. Boulder fields cover many hillsides. The northern portion of the zone is below treeline, where thick till cover is incised by glacial meltwater channels through spruce forest.

Several prominent linear features cut through the Ku Zone, with one north-trending linear extending the length of the zone.

Geology

Ku Zone is underlain by locally deformed quartzite, fine-grained clastic sediments, chert and limestone of the Rabbitkettle Formation. Small exoskarns are developed along the northern margin of the Orchay Batholith and adjacent to nearby dykes (Figure 76).

Locally the Rabbitkettle Formation is divided into four lithologies.

1) Fine-grained terrigenous clastics range from foliated dark grey mudstone to swaley laminated blue-grey siltstone. Slaty to phyllitic metamorphism affects these rocks in the southern part of the zone and in areas with intense folding. Quartz veining occurs as sub-centimetre crackle veinlets and centimetre-scale concordant banding. Silicification adjacent to quartz veins often results in a sucrosic or cherty textures. This sub-unit often exhibit

hornsfels alteration, characterized by light-medium grey or dark orange, fine-grained and well fractured rocks with limonitic coatings.

2) Medium blue-grey porously-weathered limey sandstone commonly forms sub-metre interbeds within silicified, medium blue-grey limey siltstone.

3) Medium-grained white and pale green swaley-bedded sandstone crops out on a hilltop near the central portion of the zone. This sub-unit is typically silicified and oxidized.

4) Light teal-grey and maroon banded chert, often with massive quartz veining and pervasive silicification, underlies the north-central portion of the Ku Zone.

In the southern part of the zone, medium-grained biotite-muscovite granite of the Orchay Batholith intrudes Rabbitkettle Formation rocks. The sediments adjacent to the granite show varying types and intensities of thermal alteration. Epidote±garnet±diopside skarn occurs along an east-trending linear horizon adjacent to the intrusive contact. Limey siltstone is locally clay-altered and foliated, while some limestone beds have converted to marble.

Phaneritic felsic dykes, ranging in composition from muscovite-quartz monzonite to monzo-granodiorite, extend northward from the batholith and cut through siltstone in the central portion of the zone. A quartz monzodiorite sill, approximately 10 m thick, has been traced 500 m along a creek cut, and is associated with quartz veining and skarn mineralization in adjacent sediments.

Mineralization

A skarnified limestone horizon, containing fine-grained galena and sphalerite with minor chalcopyrite, is located immediately adjacent to granitic rocks of the Orchay Batholith. In 2012, 12 samples were collected from mineralized skarn boulders within a 70 by 30 m area. These samples graded between 41.1 and 825 g/t silver, and averaged 239.1 g/t silver, 2.93% lead, 1.27% zinc, 0.33% copper, 188.8 ppm tin, 440.8 ppm bismuth and 1198.5 ppm tungsten (Figure 76).

Other samples collected in 2012 from elsewhere in this zone produced a wide range of anomalous results, including a sample taken from a mafic dyke (?) within the intrusion. This sample returned 1.02% tungsten, 699 ppm bismuth and 0.404 g/t gold.

Twelve additional rock samples were collected from the skarn horizon in 2013. Seven of these samples yielded anomalous values for multiple elements, including gold, tungsten, bismuth and tin. The strongest tungsten value (4750 ppm) was from a rock sample collected from a pit dug at the site of an anomalous soil sample. There are few outcrops in the area so bedrock data is limited; however, a 30 cm chip sample of pale green calc-silicate skarn containing pyrrhotite and trace arsenopyrite returned 1400 ppm tungsten, 381 ppm bismuth and 0.197 g/t gold.

Scattered mineral occurrences, 720 m north of the batholith, are associated with felsic dykes and sills. Skarn mineralization and quartz veins were identified within sedimentary rocks adjacent to a 10 m wide sill that was traced for 500 m along a creek. Twenty-one samples collected in this area averaged 31.1 g/t silver, 0.19% lead, 0.08% zinc, 0.13% copper and 173.6 ppm tin. Float samples of quartz veins and breccia containing arsenopyrite, galena and minor chalcopyrite, returned silver values ranging from below the detection limit to 215 g/t. An isolated sample

comprising rusty quartz fragments, returned elevated gold (0.490 g/t) but only background values for other metals.

The skarn horizon adjacent to the batholith is prospective drill target. In anticipation of a future work program, a drill site has been prepared (625,751 mE, 6,917,043 mN) and another was nearly completed (625,542 mE, 6,917,215 mN). Both sites are positioned for holes orientated toward the southwest (200°).

Soil Geochemistry

The Ku Anomaly is located within a soil grid covering a 1.1 by 2.0 km area and is defined by coincident elevated values for most elements of interest. The southern edge of the soil grid covers the contact between the sediments and Orchay Batholith. Tungsten and bismuth results are both strongly elevated near this contact, while very strong silver, lead, copper, antimony, arsenic and molybdenum values are found 800 m north of the contact. Results for silver, lead, antimony and tungsten are illustrated on Figures 77 through 80.

GAUSS ZONE

The Gauss Zone lies one kilometre north of the Ku Zone and 45 km southeast of the Keg Main Zone. The zone is located along a north-facing slope on an east-trending ridge, the crest of which marks the boundary between the Gauss and Ku zones.

Most of the zone is below treeline, with spruce and dense brush cover. A recent wild-fire burnt much of the western side of the zone. Low elevations near the centre of the zone are poorly drained and swampy. Outcrop is generally sparse, but is locally concentrated along the ridge and in steep-sided gullies southeast of it.

A number of smaller ridges in the western portion of the zone extend northward from the main ridge. Several west-northwest trending recessive linears that cut across these ridges are continuous for lengths of several hundred metres.

Geology

The area of the Gauss Zone is underlain by fine-grained sedimentary rocks belonging to the Rabbitkettle Formation, which are intruded by scattered metre-scale andesite dykes of the Ross Volcanics and by a plug of Selwyn Plutonic Suite muscovite-biotite granodiorite. The sedimentary rocks are pervasively silicified and folded. The Tay River Thrust Fault, a west-northwest regional-scale structure, juxtaposes Rabbit Kettle Formation against Tay Formation to the north. This fault marks the northern limit of the Gauss Zone (Figure 81).

Rabbitkettle Formation has been divided into four main conformable lithologies in the vicinity of the Gauss Zone: 1) fine-grained, grey and maroon laminated chert; 2) medium grey thin-bedded siltstone with interbedded shale, which are often heavily fractured and oxidized; 3) medium-grained, dark grey crystalline limestone to limey siltstone, which are locally bright green and

marbleized; and 4) medium-grained, buff to pale green quartzite, which is often pervasively deformed.

Fine-grained flow-banded andesitic dykes with sub-millimetre pyroxene phenocrysts and calcite amygdules cut the Rabbitkettle Formation. These dykes range from 0.5 to 3 m in thickness and do not appear to have a preferred orientation.

A 600 by 400 m plug of medium-grained muscovite-biotite granodiorite belonging to the Selwyn Plutonic Suite intrudes quartzite in the northwest corner of the zone. Muscovite altered quartzite have been mapped on the southern flank of the plug and alongside a fault that cuts through the plug.

A series of parallel, west-northwest trending faults cross the zone and are expressed on surface as recessive linear features. Regional folding parallels the trend of these structures and the Tay River Thrust Fault. On the east side of the zone, the trend of folding deflects to the south. This deflection is likely due to deformation associated with the emplacement of the Orchay Batholith, which lies approximately three kilometres to the south.

Mineralization

Silver Range collected a total of 31 rock samples within the Gauss Zone in 2012 and 2013 (Figure 81). Eight samples returned strongly elevated values averaging 99.28 g/t silver, 3.00% lead and 0.40 % zinc. The anomalous samples consist of: pale green quartzite with disseminated sulphides; quartz vein with fine sulphides; altered malachite-stained siltstone; and, limestone. The sample with the highest values graded 504 g/t silver, 14.35% lead, 0.477% zinc and 1.06% copper. This sample comprised green altered, silicified siltstone with clusters of pyrite, chalcopyrite and minor galena. It was collected from a small cliff along a north flowing creek in the eastern portion of the zone, adjacent to an andesite dyke. A sample comprising silicified sandstone with fine disseminated sulphides and malachite was collected just below the ridge line adjacent to a linear feature. This sample yielded 44.1 g/t silver and 2.28% copper.

Significant results from samples collected in 2012 and 2013 are listed in Table 26.

Table 26: Gauss Zone – Significant Rock Sample Results

Year	Type	Ag (g/t)	Pb (%)	Zn (%)	Cu(%)	Au (g/t)
2012	Float from trench. Qz vein and altered limestone wallrock, Gn, An, Py, and dark Li, abundant bladed, radial mineral.	179	6.21	2.38	0.1555	0.04
2012	Float grab. Li altered rock with fine sulphides	21.3	0.1735	0.052	0.1415	0.0025
2012	Pale green medium crystalline intrusive with abundant medium Py, intense rust weathering.	14.65	0.168	0.0589	0.1245	0.005
2012	Fine-grained Qz vein with fine	9.09	0.1585	0.0644	0.0564	0.0025

	sulphide: Gn, As, Py, strong Sc. Altered wallrock attached, including Gn and Li. Local, strong effervescence. Skarn boulders observed nearby.					
2013	Bedrock grab. Green altered siltstone with Qz-Ca-Gn-As-Py.	504	14.35	0.477	>1	0.009
2013	Bedrock grab. Malachite-stained sediments with fine sulphides.	44.1	2.86	0.0981	>1	<0.005
2013	Bedrock grab. Limey oxidized siltstone with Ma, Py	12.25	0.058	0.0851	0.862	<0.005

Qz – quartz, Bx – breccia, Gn – galena, As – arsenopyrite, Py – pyrite, Sp – sphalerite, Ca – Calcite, Li – limonite, Sc – sericite, An - anglesite

Soil Geochemistry

Soil sampling has conducted at the Gauss Zone at various times between 2011 and 2013. Samples were taken on contour lines and from a 300 by 400 m grid located in the northwest corner of the zone. The grid covers parts of the granodiorite plug. Results for silver, lead, antimony and tungsten are illustrated on Figures 77 through 80.

Samples collected from a creek and a north-facing slope in the eastern part of the zone yielded weakly to moderately anomalous values for silver, lead and antimony. The strongest results are from within the soil grid, including one sample that yielded peak values for silver (26.8 g/t), gold (29 ppb), lead (4660 ppm), copper (849 ppm), molybdenum (53.2 ppm) and antimony (300 ppm). This sample was taken on the south side of a high angle fault that cuts through the plug. Other nearby samples returned moderately to strongly anomalous values for the same elements.

REBEL ZONE

The Rebel Zone lies 17 km south-southeast of the Keg Main Zone, approximately six kilometres north-northeast of the other zones in the Mount Mye Belt. Rebel Zone covers a rounded mountain with gentle grass covered south-facing slopes and steeper, talus covered slopes and cliffs within a north-facing cirque. Periglacial processes are dominant, as indicated by frost boils and solifluction.

Geology

The Rebel Zone is mostly underlain by the Marmot Formation (Figure 82**)**, which is locally divided into three primary lithologies. These lithologies are conformable and interbedded, and include: 1) orange and brown altered volcanic and volcaniclastic rocks that are cut extensively by orange weathering, iron-carbonate veins (CSM2a); 2) black, strongly carbonaceous shale (CSM2b); and 3) variably deformed, green volcanic breccia interbedded with green, recemented volcaniclastic sandstone, siltstone and tuffaceous rocks and local amygdaloidal basalt flows

(CSM2c). Rabbitkettle Formation limey siltstone, which underlies the Marmot Formation, comes to surface in the southwestern part of the zone.

Marmot Formation strata dominantly strike east-southeasterly and dips shallowly to moderately to the north. Cleavage generally strikes northeasterly and dips to the northwest or southeast. Iron-carbonate veins mostly strike to the north-northwest or east-northeast and have variable dips.

Mineralization at the Rebel Zone is entirely hosted within CSM2c.

Mineralization

The Rebel Zone comprises mineralized float discovered in gossanous talus within the north-facing cirque (Figure 82). The gossan lies above treeline, but is often camouflaged by light grass cover, intense frost boiling and solifluction (Cathro, 1967b). The mineralization includes sphalerite-, galena- and chalcopyrite-bearing quartz-carbonate stringers, veins and breccia matrix hosted in Marmot Formation volcanics (Carne, 1990). The mineralized material is usually oxidized and leached to boxwork limonite with rare lenses of residual sulphide (Cathro, 1967b). A composite sample of galena-rich float collected in 1966 reportedly yielded 295 g/t silver, 1.2% zinc, 8.8% lead, 0.2% copper and trace gold.

In 2010, Strategic Metals collected 20 widely-spread representative grab and composite samples of limonite (with and without sulphides). In 2011, Silver Range collected another four samples composed of pyrite and limonite with minor residual galena or limonite-healed breccia with volcanic clasts. Seventeen of the 24 samples taken in 2010 and 2011 returned elevated values for most metals of interest. The 17 samples averaged 176 g/t silver, 2.69% lead, 1.36% zinc, 0.60% copper and 257 ppm tin. No rock samples were collected from the Rebel Zone in 2012 or 2013.

Soil Geochemistry

Grid soil sampling in 2010 and 2011 at the Rebel Zone delineated a 3500 by 1000 m area of weakly to moderately elevated zinc, lead and copper surrounding two clusters with stronger geochemical response (Rebel Main and Rebel SW anomalies). Rebel Main Anomaly coincides with mineralized rock samples and is hosted within Marmot Formation, while Rebel SW Anomaly (XVIII) is underlain by Rabbitkettle Formation. Results for silver and lead are shown of Figures 83 and 84 respectively.

Historical Diamond Drilling

<u>67-1 to -3</u>

No record of these drill holes, other than references in later assessment reports, could be found. They were reportedly drilled to test EM, gravity and geochemical anomalies that are situated immediately west of the Rebel Main Anomaly. All holes intersected Marmot Formation

metavolcanics. Traces of fracture-hosted galena and sphalerite were noted in 67-2, while the other holes were barren (Carne, 1991).

K-72-4 to -7

K-72-4, -5 and -6 tested geochemical, magnetic-electromagnetic and electromagnetic-gravity anomalies, respectively. K-72-4 and-6 lie within the Rebel Main Anomaly and K-72-5 is located one kilometre west of that anomaly. All of these holes cut locally brecciated Marmot Formation metavolcanics and underlying Rabbitkettle Formation metasediments (Jilson, 1972). The metavolcanics are locally listwaenitized. K-72-4 intersected minor pyrrhotite, sphalerite, chalcopyrite, galena and pyrite in fractures and as disseminations. K-72-5 and-6 were barren. No samples were analyzed from any of these holes.

K-72-7 was drilled within the Rebel Main Anomaly, to test the soil anomaly at depth. It intersected altered and brecciated Marmot Formation metavolcanics with disseminated to fracture-filling sphalerite, pyrite, galena, pyrrhotite and tetrahedrite. The best continuous interval yielded a weighted average of 2.28% zinc, 0.10% copper and 0.10% lead over 69.0 m, including 6.60% zinc, 0.29% copper, 0.41% lead, 36.4 g/t silver and 0.17 g/t gold over 3.0 m (Jilson, 1972).

K-73-8 to -10

K-73-8 tested an electromagnetic (EM) anomaly that coincides with the southwest corner of the Rebel Main Anomaly. It intersected brecciated Marmot Formation with minor chalcopyrite, pyrrhotite and sphalerite in fractures and veins. The best interval returned 2.25% zinc over 3.0 m (Carne, 1991).

K-73-9 was drilled 150 m to the east of K-72-7 in order to extend the known mineralized zone. It cut altered Marmot Formation with minor disseminated and fracture-filling sphalerite, pyrrhotite, chalcopyrite and pyrite throughout. An 18.3 m interval yielded a weighted average of 2.2% zinc (Carne, 1991).

K-73-10 was also designed to extend the mineralized zone. It was drilled about 170 m to the southwest of K-72-7. It intersected brecciated Marmot Formation with weak disseminated and fracture-filling sphalerite and galena, but was not sampled (Jilson, 1973).

KD-78-1 to -4

KD-78-1 to -4 were drilled to test geophysical anomalies within the Rebel Main Anomaly, to the south and west of the previous holes (Spence, 1979). None of the drill core was analyzed.

KD-78-1 tested a strong, broad EM conductor. It intersected interbanded volcanics and sediments including some strongly graphitic rocks. Minor pyrite was the only sulphide mineral encountered within the hole.

KD-78-2 tested coincident strong EM conductors. It cut similar rocks and mineralization to those in KD-78-1.

KD-78-3 tested a strong, broad horizontal-loop EM anomaly. It cut interbedded volcanics and graphitic sediments, both of which contained minor pyrite.

KD-78-4 tested strong EM conductors. It cut volcanics interlayered with graphitic sediments. Minor vein hosted galena was observed.

78-NA-03

78-NA-03 was drilled at the eastern edge of XVIII Anomaly to test elevated soil values and a coincident EM conductor. It intersected non-calcareous, locally chloritic phyllite with rare diorite porphyry dykes. Minor pyrrhotite and sphalerite were reported, but no samples were analyzed (Simpson, 1978b).

80-NAR-1

80-NAR-1 tested a linear cluster of widely-spaced, elevated geochemical values within the west half of XVIII Anomaly. It cut chlorite±muscovite±biotite phyllite (Hall, 1980). The phyllite is commonly calcareous and is locally interbedded with tuff. Rare marble was observed. No core was analyzed.

Recent Drilling

Three diamond drill holes were completed at the Rebel Zone in 2011. All three were in the vicinity of historical hole K-72-7, which reportedly yielded a 69 m long interval of 2.28% zinc, 0.10% copper and 0.10% lead.

Only hole REB-11-02 intersected a thick section of mineralization. It was drilled at the contact between volcanic breccia (CSM2c) and an underlying carbonate-altered volcanic and volcaniclastic package (CSM2a). Mineralization in REB-11-02 comprises fracture-controlled galena and sphalerite in partially oxidized host rocks. The following table lists highlights from this drilling.

Table 27: Rebel Zone – Diamond Drill Highlights

Hole #	From (m)	To (m)	Length* (m)	Ag (g/t)	Pb (%)	Zn (%)	Cu (ppm)	Sn (ppm)
REB-11-01	27.78	28.78	1.00	98.00	6.07	0.89	0.06	403
REB-11-02	21.94	28.10	6.16	155.84	12.43	3.08	0.20	807
and	53.95	55.47	1.53	21.50	1.69	0.92	0.09	300

These holes did not reproduce the interval from K-72-7. Due to the poorly constrained location of the historical hole relative to the recent holes, it is believed that the 2011 holes may have been drilled too far to the north.

A total of 1104.9 m of reverse circulation (RC) drilling was completed in 19 holes (Figure 82) in 2012 using a self-propelled, track-mounted percussion drill.

The drill program was designed to test anomalous silver, copper, indium, lead, zinc and tin geochemistry and mineralization associated with northerly-trending topographic linears, which cross the rounded mountain top south of the gossanous cirque. All holes were drilled with an azimuth of 090° and a dip of -45° except hole RCH-12-10, which was drilled at 270°/-45°.

Table 28 lists significant assay intervals from the 2012 program.

Table 28: Rebel Zone-Reverse Circulation Drill Highlights

Hole	From (m)	To (m)	Interval (m)	Ag (g/t)	Pb (%)	Zn (%)	Cu (ppm)	In (ppm)	Sn (ppm)
RCH-12-01	0.00	13.72	13.72	6.64	0.06	0.78	666.11	3.92	265.22
and	13.72	21.34	7.62	1.73	0.01	0.93	137.28	0.28	80.60
RCH-12-02	4.57	15.24	10.67	5.75	0.03	0.88	353.71	22.94	264.29
and	27.43	36.57	9.14	9.99	0.05	0.68	884.43	24.92	166.61
RCH-12-03	3.05	4.57	1.52	5.26	0.01	0.58	349.00	1.20	315.00
RCH-12-04	16.76	18.29	1.52	4.52	0.04	0.23	454.00	1.45	286.00
RCH-12-05	0.00	25.91	25.91	7.20	0.18	1.11	431.50	7.90	193.76
and	33.53	36.57	3.04	3.46	0.03	0.80	507.00	0.17	69.50
and	59.44	60.96	1.52	20.60	0.22	1.74	2480.00	1.55	119.00
RCH-12-06	0.00	48.76	48.76	9.11	0.19	0.40	565.85	2.10	198.39
RCH-12-07	4.57	9.14	4.57	7.90	0.04	1.15	995.67	1.83	213.00
and	13.72	18.29	4.57	11.15	0.11	0.77	528.67	9.64	252.33
and	21.34	47.24	25.90	11.49	0.14	1.17	1028.18	32.65	275.24
RCH-12-08	7.62	12.19	4.57	8.78	0.05	1.90	827.00	36.70	213.33
and	18.29	28.96	10.67	7.44	0.06	0.96	594.29	13.77	280.43
and	50.29	59.43	9.14	3.39	0.02	1.52	402.78	7.38	271.07
RCH-12-09	9.14	15.24	6.10	15.67	0.06	0.14	1089.50	4.04	253.75
and	32.00	59.43	27.43	2.53	0.01	0.49	424.67	5.83	180.77
RCH-12-10	1.52	4.57	3.05	9.78	0.04	3.63	1332.00	8.13	131.50
and	27.43	30.48	3.05	7.81	0.04	0.61	664.00	0.67	74.00
RCH-12-11	18.29	42.67	24.38	9.13	0.13	1.30	719.47	10.71	179.63
and	53.34	60.96	7.62	15.59	0.08	1.97	1776.46	14.84	250.87
RCH-12-12	3.05	7.62	4.57	4.83	0.08	0.26	264.33	7.55	176.33
and	51.82	54.86	3.04	3.01	0.03	0.35	168.00	10.05	219.50
RCH-12-13	51.82	56.38	4.56	9.88	0.69	0.22	175.00	0.09	44.33
RCH-12-14	10.67	12.19	1.52	3.67	0.32	0.28	307.00	0.10	80.00
and	21.34	27.43	6.10	5.79	0.49	0.36	211.65	0.13	483.50
and	51.82	60.96	9.14	3.32	0.26	0.32	145.18	0.08	146.35
RCH-12-15	9.14	30.48	21.34	11.86	0.09	1.45	1077.71	0.31	265.29
and	48.77	50.29	1.52	3.24	0.04	1.22	432.00	0.13	199.00

RCH-12-16	0.00	9.14	9.14	4.28	0.02	1.11	906.67	9.78	234.00
and	12.19	15.24	3.05	6.53	0.07	0.91	570.00	6.10	122.50
and	18.29	38.10	19.81	5.43	0.05	0.84	517.01	11.21	215.41
and	44.20	47.24	3.04	1.64	0.02	0.57	240.00	2.04	152.00
and	51.82	60.96	9.12	13.91	0.12	3.49	956.50	44.20	182.83
RCH-12-17	41.15	60.96	19.81	7.33	0.13	1.00	653.87	8.37	267.27
RCH-12-18	25.91	27.43	1.52	34.50	2.12	1.37	695.00	4.41	178.00
and	56.39	57.91	1.52	7.35	0.11	1.46	668.00	3.40	182.00
RCH-12-19	3.05	7.62	4.57	3.04	0.01	0.81	389.17	2.35	273.33
and	19.81	21.34	1.52	9.01	0.10	2.56	267.00	15.60	284.00

HAMMER ZONE

The Hammer Zone was discovered by Silver Range in 2011 during follow up of a single-point soil anomaly. It lies at the north end of a north-trending, glacially truncated, alpine ridge, located 23.5 km south-southeast of the Keg Main Zone. The area is mostly above treeline and dominated by boulder felsenmeer. Outcrop is rare, occurring only on steep north facing slopes where it often forms cliffs. Sparse black spruce covers lower elevations, while moss, grass and scattered brush vegetate uplands.

A series of prominent north-trending recessive linears, up to five metres wide and several metres deep, cut across steep north-facing slopes in the Hammer Zone.

Geology

The Hammer Zone is underlain by granite, quartz monzonite, granodiorite and minor syenite of Anvil Batholith (Figure 85). Anvil Batholith intrusives are generally fresh to weakly altered, except adjacent to and within south-southeasterly and east-northeasterly trending fault zones. The rocks become increasingly more altered near these fault zones, resulting in zonation from fresh to propylitic, sericitic and, eventually, pervasive argillic facies. Within the most intensely fractured and sheared fault zones, the intrusive rocks are leucocratic (the mafic minerals are altered to quartz and sericite), albitized and locally biotitized. This alteration is attributed to hydrothermal fluids that deposited sheeted quartz-sulphide veins within the fault zones.

Mineralization

Most of the anomalous samples collected from the Hammer Zone came from three sub-parallel, partially talus filled, recessive linears that trend north-northeasterly across the break-in-slope between over-steepened slopes to the north and felsenmeer-covered plateau to the south (Figure 85). The linears average about five metres in width and appear to be the result of differential weathering of mineralized veins and their adjacent altered wallrocks, compared to the relatively fresh host granite. The central linear contains a high abundance of vein and breccia float along a strike length of 65 m. Mineralized float is rarer in the two adjacent linears. To the south of the break-in-slope, mineralization has been traced intermittently in frost boils developed in glacial till and felsenmeer on the upland plateau. North of the ridge, the mineralized linears project under till and fluvial outwash deposits on a broad marshy valley floor.

Mineralization comprises sulphide-bearing, epithermal quartz veins and quartz-healed breccias. Sulphide minerals include pyrite, galena, sphalerite, arsenopyrite and tetrahedrite. Some samples are coated with malachite. The sulphides occur as fine laminations, disseminations and clots and in breccias as disseminations in matrices and as semi- to nearly-massive sulphide clasts.

Eight of the better mineralized talus samples collected in 2011 from within the central linear of the Hammer Zone averaged 6353 g/t silver, 4.31% lead, 3.88% zinc, 0.49% copper, 1503 ppm tin and 2.69 g/t gold. A total of 29 samples were collected in 2012. Thirteen of these samples returned greater than 610 g/t silver, averaging 2398 g/t silver, 2.04% lead, 0.74% zinc, 0.16% copper, 370 ppm tin and 0.341 g/t gold. Another seven of the 2012 samples returned silver values greater than the detection limit (100 g/t); however, there was not enough sample material for a complete assay.

In 2013, several samples were collected for petrographic and mineralogical analysis by a student working on a Masters thesis at the University of Alberta. Results of this work are pending.

Selected results from rock sampling at the Hammer Zone are listed in Table 29.

Table 29: Hammer Zone – Significant Rock Sample Results

Zone	Year	Type	Ag (g/t)	Pb (%)	Zn (%)	Cu (%)	Sn (ppm)	Au (g/t)
Hammer	2011	Grab, Bx with sulphide clasts in Qz matrix	2500	1.26	3.21	0.18	726	2.01
Hammer	2011	Grab, Gn-Tt in Bx	4080	0.38	0.68	0.41	191	0.086
Hammer	2011	Grab, Py-Gn Bx	3920	2.08	4.37	0.34	1120	0.457
Hammer	2011	Grab, Py-Gn-Tt Bx	6100	5.58	3.69	0.82	1415	0.573
Hammer	2011	2.4 m chip, vein + altered granite	93	0.17	0.20	0.02	33	0.014
Hammer	2011	Grab, Qz vein with As	16986	7.96	0.18	0.88	2500	12.8
Hammer	2011	Grab, Mn veins with Gn	6100	3.70	1.74	0.44	1500	2.76
Hammer	2011	Grab, sulphide rich Bx	6620	8.41	8.74	0.46	1905	1.02
Hammer	2011	Grab, sulphide rich Bx	4460	3.78	6.30	0.35	1670	0.511
Hammer	2011	Grab, Qz vein with Sp, Gn, Li	4140	1.74	2.85	0.45	1190	1.38
Hammer	2012	Float, Qz-Li-Mn	8460	4.08	0.96	0.53	1030	0.691
Hammer	2012	Float, Qz-Mn-Li-Gn-Sp rich Bx	3070	1.96	2.21	0.28	508	0.65

Qz – quartz, Bx – breccia, Gn – galena, As – arsenopyrite, Py – pyrite, Sp – sphalerite, Tt – tetrahedrite, Mn – manganese, Li – limonite, NR – not reported

Soil Geochemistry

Although Hammer Anomaly is relatively small compared to many of the other primary anomalies on the property, it has returned by far the highest silver values (peak of 3920 ppm) and second highest gold result (304 ppb). Results for silver and lead are shown on Figures 86 and 87 respectively.

Historical Diamond Drilling

K-70-1 was drilled to test a coincident lead-zinc soil anomaly that reportedly lies on the floor of a broad, U-shaped valley, approximately 1500 m northeast of Hammer Zone. The hole only cut glacially-derived boulders and clay (Turnbull and Simpson, 1970). The thickness of the overburden indicated that the soil anomaly was transported, and further drilling was directed toward nearby geophysical anomalies.

K-70-2 was drilled in the same area to test a moderate residual gravity anomaly with coincident, weak IP response. The hole intersected 22.6 m of overburden, then cut grey-green-purple phyllitic quartzite and phyllite and a 7.6 m thick diorite dyke or sill, before bottoming in altered granite. Zones of weakly disseminated pyrite and pyrrhotite were observed, but there was no significant base metal mineralization.

K-70-3 was drilled between the other two holes and was designed to intersect a possible fault zone that offset areas of variable soil geochemical and geophysical response. After drilling through 89.6 m of overburden, the hole cut green-purple phyllite and phyllitic schist. Between 152.4 and 213.3 m, thin laminations of pyrite and pyrrhotite were present along foliation planes. No significant base metal mineralization was observed.

Recent Diamond Drilling

In 2012, twenty-one diamond drill holes totalling 3903.64 m tested the Hammer Zone along a strike length of 630 m to a maximum depth of 200 m below surface on the Central Vein. Between June 22 and 28, 2013, another two holes totalling 361.00 m were completed by Top Rank Diamond Drilling Ltd. using a heli-portable Multi-Power Discovery II drill with NQ2 equipment. The 2012 and 2013 drill hole locations are shown on Figure 85, while a cross section showing one of the 2013 holes (HAM-13-022) is presented on Figure 88.

One of the 2013 drill holes (HAM-13-022) tested beneath two of the three sub-parallel linear features where mineralized float was discovered (West and Central Veins). The primary target of the hole was a piercement point at the 1400 m elevation along the West Vein, because none of the previous holes had penetrated to that depth on that vein. In order to intersect the West Vein at the target depth, the hole was collared on or just west of the East Vein. This hole crossed the Central Vein 45 m along strike to the south of hole HAM-12-017, which had yielded the best intercept obtained to date from the Hammer Zone. The Central Vein intercept in hole HAM-13-022 yielded 0.49 m grading 337.00 g/t silver, 0.487% lead and 4.590% zinc, but the West Vein intersection was narrower and unmineralized.

The other 2013 drill hole (HAM-13-023) was a water monitoring well. It was drilled vertically to a depth of 68 m and was lined with pvc pipe. This hole did not target any of the mineralized structures.

All of the 2012 and 2013 drill holes at the Hammer Zone intersected granite and pegmatite belonging to the Anvil Batholith. Quartz-rhodochrosite veins ranging from 5 mm to 1.3 m in width occur sporadically throughout the holes, but the widest of these veins coincide with the

down-dip extensions of the three surface linear features. Granite immediately adjacent to the veins is hydrothermally altered. This alteration is only developed in close proximity to the veins, rarely extending outwards any further than the width of the corresponding vein.

Where well mineralized, the veins comprise semi-massive to massive pyrite-galena-sphalerite-tetrahedrite. The best interval was from the Central Vein in hole HAM-12-017, which intersected 0.53 m of massive sulphide grading 4620 g/t (134.75 opt) silver, 8.99% lead and 4.84% zinc. In places, the Central Vein appears to split into two parallel veins separated by up to 30 m of barren granite. This is most evident in holes HAM-12-005, -006 and -009.

The veins are partially to completely oxidized to a depth of 150 m below surface, based mainly on results from the Central Vein. Oxidation appears to be deeper and more intense to the south, where the three veins begin to converge. The best oxide interval came from hole HAM-12-011, which yielded 1590 g/t (46.38 opt) silver, 1.13% lead and 0.47% zinc over 0.70 m.

A list of the most significant oxide and sulphide intersections is provided in the following table.

Table 30: Hammer Zone – Drill Highlights

Hole	From (m)	To (m)	Interval (m)	Ag (g/t)	Pb (%)	Zn (%)	Type	Vein
HAM-12-002	22.70	23.70	1.00	1010.00	2.700	0.240	OX	WEST
HAM-12-002	53.40	54.00	0.60	98.00	0.097	0.047	OX	CENTRAL
HAM-12-003	47.30	48.50	1.20	328.00	0.185	0.121	OX	EAST
HAM-12-005	38.10	38.60	0.50	980.00	0.228	0.629	OX	CENTRAL A
HAM-12-005	67.50	68.00	0.50	1290.00	0.580	1.710	OX	CENTRAL B
HAM-12-006	50.70	51.20	0.50	578.00	1.400	0.585	OX	CENTRAL A
HAM-12-006	81.70	83.00	1.30	36.80	0.029	0.185	OX	CENTRAL B
HAM-12-006	125.60	126.80	1.20	43.10	0.004	0.005	OX	EAST
HAM-12-008	36.60	37.70	1.10	23.30	0.018	0.102	OX	CENTRAL
HAM-12-008	107.00	107.80	0.80	537.00	0.178	0.572	OX/TR	WEST
HAM-12-009	56.30	56.80	0.50	507.00	0.082	0.178	OX	WEST
HAM-12-009	117.50	118.00	0.50	58.30	0.013	0.140	OX	CENTRAL B
HAM-12-010	62.10	62.60	0.50	618.00	0.426	0.258	OX	WEST
HAM-12-010	131.20	131.70	0.50	559.00	1.360	0.930	OX	CENTRAL
HAM-12-011	128.70	129.40	0.70	1590.00	1.130	0.466	OX	CENTRAL
HAM-12-015	20.90	21.45	0.55	41.80	0.036	0.396	SX	WEST
HAM-12-015	218.70	219.20	0.50	134.00	1.875	3.920	SX	CENTRAL
HAM-12-015	221.90	222.40	0.50	237.00	2.520	4.700	SX	CENTRAL
HAM-12-016	13.60	14.10	0.50	30.70	0.057	0.070	OX	WEST
HAM-12-016	262.35	263.24	0.89	258.00	3.800	6.300	SX	CENTRAL
HAM-12-017	82.30	82.80	0.50	17.30	0.007	0.144	SX	WEST
HAM-12-017	186.25	186.78	0.53	4620.00	8.990	4.840	SX	CENTRAL

HAM-12-017	304.36	304.86	0.50	198.00	0.042	0.049	SX	EAST
HAM-12-018	131.90	132.40	0.50	40.80	0.068	0.079	OX	CENTRAL
HAM-12-018	135.00	135.50	0.50	34.70	0.059	0.108	OX	CENTRAL
HAM-12-018	180.10	180.90	0.80	90.50	0.130	0.310	SX	EAST?
HAM-12-018	184.50	185.00	0.50	289.00	0.556	0.752	SX	EAST?
HAM-12-019	172.40	173.10	0.70	253.00	0.348	0.160	OX	WEST
HAM-12-020	114.10	115.10	1.00	16.70	0.090	0.062	SX	WEST
HAM-12-021	56.00	56.40	0.40	22.20	0.016	0.017	TR	WEST?
HAM-12-021	220.70	221.45	0.75	270.00	1.660	2.460	SX	CENTRAL
HAM-13-022	162.44	162.93	0.49	337.00	0.487	4.590	SX	CENTRAL

*SX = sulphide, TR = transition, OX = oxide

The piercement points along the Central and West veins are shown on Figures 89 and 90, respectively.

Metallurgy

In order to assess the metallurgical properties of the oxidized vein material, fifteen samples from the Hammer Zone were submitted to Kappes, Cassiday & Associates (KCA) in late 2012 for preliminary leach testing. Results from these tests are summarized in the table below.

Table 31: Results from KCA Cyanide Leach Tests

Sample	Hole	Zone	Head Grade Ag (g/t)	Recovery (%)	Leach Time (hours)	Consumption\ NaCN (kg/MT)	Addition $Ca(OH)_2$ (kg/MT)
L845507	HAM-12-002	Hammer	1040.6	93	120	5.16	2.00
L845508	HAM-12-002	Hammer	536.3	56	96	3.34	1.60
L845575	HAM-12-003	Hammer	276.0	48	120	1.94	1.20
L845620	HAM-12-005	Hammer	759.5	93	120	5.91	0.80
L845631	HAM-12-005	Hammer	584.5	84	120	5.22	0.80
L845660	HAM-12-006	Hammer	583.1	81	96	5.68	0.80
L845754	HAM-12-008	Hammer	515.2	81	120	7.77	0.80
L845776	HAM-12-009	Hammer	516.9	57	120	2.61	1.60
L845904	HAM-12-010	Hammer	592.7	62	120	4.09	0.80
L845862	HAM-12-010	Hammer	586.9	29	120	4.39	2.00
L845895	HAM-12-010	Hammer	19.2	50	96	1.12	0.40
L845968	HAM-12-011	Hammer	1750.2	27	120	3.52	1.20
L845969	HAM-12-011	Hammer	381.6	79	120	3.47	0.80
L840941	HAM-12-018	Hammer	382.3	64	96	3.27	0.40
L840966	HAM-12-019	Hammer	268.4	90	120	3.35	0.80

CODY ZONE

The Cody Zone is situated about 1000 m southeast of the Hammer Zone (24.5 km south-southeast of the Keg Main Zone) and was discovered by Doron Explorations in 1988. It is located above treeline along a northeast-trending ridge. Outcrop is relatively abundant and is

concentrated in cliffs found along rugged southeast-facing slopes. Grass and moss cover gentler north-facing slopes.

Geology

The Cody Zone is underlain by granite, quartz monzonite, granodiorite and minor syenite of Anvil Batholith (Figure 91). The intrusive rocks are generally fresh to poorly altered, except adjacent to or within northeast-trending fault zones. The rocks become increasingly more altered near these fault zones, resulting in the same type of veining and alteration seen at the Hammer Zone.

Mineralization

Mineralization comprises manganese stained, barren to variably sulphide-bearing quartz-rhodochrosite veins found in float within areas of strongly altered granite. The Cody Zone has been divided into four showings: Cody Main Showing, Cody South Showing, Cody East Showing and Cody West Showing. The latter two showings were identified by Silver Range in 2012.

At Cody Main Showing, the sulphide assemblage predominantly consists of galena, sphalerite and arsenopyrite. Seven samples collected from Cody Main Showing in 2012 yielded very strongly anomalous values, averaging 5607 g/t silver, 2.24% lead, 0.45% zinc, 0.17% copper, 240 ppm tin and 0.358 g/t gold. Two of these samples produced extremely elevated silver results (16069 g/t and 11424.5 g/t) and moderate lead values (3.68% and 6.78%) (Figure 91).

Cody South Showing is located in an area of scattered mineralized float, which lies 650 m south of Cody Main Showing. Lamprophyre dykes and an approximately 200 by 100 m, oblong syenite body were mapped within Anvil Batholith, between the two mineralized areas, by Doron Explorations. The best results from the Cody South Showing were from three silver-rich historical rock samples. The historical sample with the highest silver value also had very strongly anomalous lead and zinc response. Nine samples were collected from this showing in 2012, along a 250 m trend that runs parallel to the contour of the slope. Most results were relatively subdued. One sample graded 162 g/t silver, and another sample yielded 0.22% lead and 0.13% zinc with silver greater than the detection limit (100 g/t). The latter contained too little material for a complete assay.

Cody West Showing is located 430 m west-southwest of Cody Main Showing. It is defined by a 140 m long, north-trending float train containing intensely manganese stained quartz-rhodochrosite vein fragments with moderate fine-grained arsenopyrite and galena. Fourteen samples were collected from this showing in 2012, ten of which yielded greater than 140 g/t silver, averaging 2235 g/t silver, 2.60% lead, 1.77% zinc, 0.05% copper and 236 ppm tin. One of the ten samples returned 23.4 g/t gold, while the remainder averaged 0.169 g/t.

Cody East Showing is located 360 m east of Cody Main Showing and comprises a broad area of altered granite containing sparse, scattered vein float. Vein material is typically manganese

stained quartz with little to no visible sulphides. Five of the better mineralized samples averaged 300.6 g/t silver, 0.19% lead, 0.25% zinc, 0.02% copper and 0.34 g/t gold.

The most significant results from recent and historical rock sampling at the Cody Zone are listed in Table 32. No additional sampling was completed at the Cody Zone in 2013.

Table 32: Cody Zone – Significant Rock Sample Results

Showing	Year	Type	Ag (g/t)	Pb (%)	Zn (%)	Cu (%)	Sn (ppm)	Au (g/t)
Cody Main	1988	Grab, Qz veins in altered granite	172	0.01	0.01	NR	NR	0.029
Cody Main	1988	Grab, Qz-Mn vein	147	0.09	0.45	NR	NR	0.320
Cody Main	1988	Grab, Qz-Mn vein	5619	1.45	1.22	NR	NR	0.380
Cody Main	1988	Grab, gossan	733	0.46	0.03	NR	NR	0.152
Cody South	1988	Grab, Qz vein	161	1.45	7.08	NR	NR	0.038
Cody West	2012	Float, Qz-As vein	284	0.16	0.41	0.04	184.5	23.40
Cody West	2012	Grab, Qz-Mn-Sp-Gn vein	7350	5.88	3.23	0.06	207	<0.005
Cody Main	2012	Float, Qz-As	11424.5	6.78	1.40	0.64	737	0.559
Cody Main	2012	Float, Qz-Mn	16069	3.68	0.26	0.18	361	0.912
Cody East	2012	Float, Qz-Mn-Tt	421	0.17	0.06	0.02	4.6	0.4
Cody East	2012	Float, Qz-Mn	253	0.61	0.09	0.01	12.1	1.06

Qz – quartz, Bx – breccia, Gn – galena, As – arsenopyrite, Py – pyrite, Sp – sphalerite, Tt – tetrahedrite, Mn – manganese, NR – not reported

Soil Geochemistry

Limited soil sampling has been completed within the Cody Zone. Samples were taken at 50 m intervals along contour lines located near the base of the hill. Where possible, samples were also collected within a 50 by 100 m grid covering a gentle north-facing slope. Results for silver and lead are shown on Figures 86 and 87, respectively.

Samples yielding strongly anomalous silver are located near the Cody East, West and Main showings. The sample that returned the peak silver value (22.9 g/t) is located immediately downhill from the Cody Main Showing. Steep slopes and cliffs prevented soil sampling near the Cody South Showing.

CIRQUE ZONE

The Cirque Zone is located 27 km south-southeast of the Keg Main Zone and is situated within a small, steep northeast-facing cirque, which lies at the north end of a north-trending ridge. Abundant talus and patchy outcrop characterize the cirque.

Geology

The Cirque Zone is mostly underlain by granite, quartz monzonite, granodiorite and minor syenite of Anvil Batholith (Figure 92). The intrusive rocks are generally fresh to weakly altered, except adjacent to or within south-southeasterly and east-northeasterly trending fault zones. Alteration associated with these fault zones is very similar to that observed at the Hammer and Cody zones.

A large roof pendant is preserved along a ridge top within this zone. This roof pendant contains non-calcareous schist, phyllite and gneiss with lesser carbonaceous phyllite, marble, calc-silicate schist and metabasite. Both the metasedimentary rocks and Anvil Batholith have been intruded by intermediate dykes with compositions ranging from hornblende diorite to hornblende-plagioclase porphyry to fine-grained chlorite-epidote altered andesite dykes. The dykes trend northeasterly.

Mineralization

Mineralization was initially discovered in talus and later within bedrock exposed in hand and bulldozer trenches (see Historical Trenching section). The mineralized talus and bedrock are spread over an approximately 1000 by 500 m area (Main Cirque Showing).

Mineralization at the Cirque Zone is hosted within a variety of vein types, which are largely restricted to brittle fracture zones in granitic rocks (Robertson and Wallis, 1989). The granite is overlain by sub-horizontal schist and gneiss, which behaved more ductilely – thus inhibiting vein formation. The veins may be related to the emplacement of intermediate dykes, that cut both the intrusive and metasedimentary units (Lueck, 1988). There is no evident change in dyke width or orientation from one unit to the other. Robertson and Wallis (1989) thought that although a spatial relationship is evident between the veins and dykes, it is likely a function of two different processes operating on the same local fracture pattern, rather than a genetic relationship between the two.

The primary mineralized vein types in this zone are: 1) glassy, milky and sugary textured quartz veins with or without pyrite, galena, sphalerite and arsenopyrite; 2) poorly exposed quartz-chaledony-limonite veins with clay and carbonate alteration; 3) quartz-chalcedony-rhodochrosite veins with pyrite, galena, sphalerite and arsenopyrite; and 4) massive sulphide veins that consist primarily of galena. Some veins also host minor tetrahedrite-tennantite and proustite-pyrargyrite ("ruby silver" sulphosalt minerals). The sulphide and sulphosalt minerals are highly variable in abundance and grain size (Robertson and Wallis, 1989). The veins are often banded along their margins and brecciated in their centres, which indicates multiple stages of vein filling. The

brecciated centres of the veins sometimes contain small rounded fragments of granite wallrock rimmed by chalcedony or rhodochrosite. Rhodochrosite also occurs as patches, fragments and open space fillings within the veins or as cross-cutting veinlets. Open spaces within the veins are commonly lined with quartz prisms. Weathered vein surfaces are black due to strong manganese staining. Limonitic and hematitic staining is also locally prevalent. Unmineralized or pyrite- and arsenopyrite-bearing, siliceous veins are common within the zone.

The granite-hosted veins occur individually, in sets, or as the matrix in breccia zones. They typically comprise a series of less than one centimetre thick fracture infillings within a wider fracture zone. Individual veins measure up to 0.4 m in width. Breccia zones are tabular to lensoidal and attain widths of greater than four metres, though they average about one metre wide (Lueck, 1988). The most common vein strikes are 000°, 050 to 065° and 150 to 170°, all with steep dips (60° to vertical).

Alteration halos within the host granitic rocks are proportional to the width and density of veins. Typical alteration features replacement of feldspar by sericite and growth of arsenopyrite and pyrite (Lueck, 1988). Alteration is stronger around breccia zones, where the rocks are yellow-white, soft and clay-, sericite-, silica- and pyrite-altered.

Rock specimens and chip samples collected within this zone yielded weakly to very strongly elevated silver, lead, zinc, tin and gold values (Figure 92). Table 33 lists the best results from recent and historical samples (trench sampling results are discussed in the Historical Trenching section).

Table 33: Cirque Zone – Granite-Hosted Vein Assay Highlights

Year	Type	Ag (g/t)	Pb (%)	Zn (%)	Sn (ppm)	Au (g/t)
1986	Grab, As-Tt vein	12283	NR	NR	NR	4.45
1986	Grab, Tn-Tt in Qz-Ch vein	151	NR	NR	NR	7.54
1986	Grab, Qz-Sd vein	824	NR	NR	NR	5.90
1987	2 m chip, unspecified	1207	NR	0.15	NR	0.137
1987	2 m chip, unspecified	931	NR	0.19	NR	0.582
1987	3 m chip, unspecified	481	NR	0.10	NR	0.068
1988	Grab, Qz-Mn vein	450	0.07	0.22	NR	6.53
1988	Grab, Mn vein	1225	0.08	0.83	NR	3.15
1988	Grab, Mn vein	1283	1.21	2.15	NR	0.940
1998	2 m chip, Rh-Qz Bx vein with Gn-Tt	70	NR	NR	NR	0.114
2011	3.6 m chip, Rh vein with disseminated to massive Gn	327	3.53	0.25	67	0.089
2011	Grab, massive Gn vein	2460	46.4	0.34	465	0.016
2011	2.0 m chip, Rh-Qz vein	109	0.07	0.04	12	0.185
2011	Grab, Rh vein with Gn	441	0.26	0.26	26	1.120
2011	Composite, gossanous kill zone with minor residual sulphides	1500	2.01	0.22	334	0.331
2011	Grab, Mn-Sd vein with disseminated Gn	139	0.41	0.17	15	1.105
2011	Grab, Mn-Sd vein, 5%	2440	1.80	0.91	128	0.230

	disseminated Gn					
2012	70 cm chip, As-Py in Qz-Rh vein	1420	1.27	0.57	53.9	1.470
2012	25 cm chip, Qz-Rh vein	1230	18.30	0.34	163.5	0.030
2012	Grab, Qz-Gn-Py-As	1070	1.99	0.58	65.7	0.544
2012	Grab, Qz-Gn-Py-As	1000	1.78	0.89	61.9	0.623

Note: Qz – quartz, Ch – chalcedony, Sd – siderite, Rh – rhodochrosite, Gn – galena, As – arsenopyrite, Py – pyrite, Tn – tennantite, Tt – tetrahedrite, Mn – manganese, NR – not reported

A few historical samples were also collected from quartz veins in the overlying metasedimentary rocks. These veins are less abundant and contain only minor amounts of galena, sphalerite or arsenopyrite. They generally returned lower values than veins hosted within granite. Table 34 lists the most significant results from historical vein samples collected within the metasedimentary cap rocks.

Table 34: Cirque Zone – Metasedimentary-Hosted Vein Assay Highlights

Year	Type	Ag (g/t)	Pb (%)	Zn (%)	Au (g/t)
1988	Grab, Quartz-sulphide vein	186	1.76	2.86	0.004
1988	Grab, Quartz-sulphide vein	335	0.07	0.07	0.245
1988	Grab, Quartz-sulphide vein	95.3	0.62	2.91	0.009

In 2012, galena rich, quartz-rhodochrosite vein mineralization was found within a 380 m long north-trending linear, referred to as the **Bench Showing**, which is located 900 m south of the Main Cirque Showing. Two hand trenches, spaced 47 m apart, were dug across this linear. The first, located near the southern end of the linear, exposed a 0.95 m wide vein grading 153 g/t silver, 4.28% lead, 0.30% zinc, 129.5 ppm tin and 0.134 g/t gold. The second trench, which exposed both vein and altered wallrock, yielded 120.7 g/t silver, 1.75% lead, 0.19% zinc, 45.7 ppm tin and 0.04 g/t gold across 1.74 m.

Soil Geochemistry

Soil samples were collected at 50 m intervals along contour lines spaced approximately 100 m apart within the Cirque Zone. These samples yielded some very strongly anomalous silver, gold, lead and tin results. The highest values occur in the southern corner of the zone along an east facing slope. Many of these samples are downhill from known mineralization and the historical trenches. Results for silver and lead are shown on Figures 86 and 87, respectively.

The peak silver value (19.5 g/t) came from a sample taken immediately south of the historical showings. Three other samples in this area yielded greater than 10 g/t silver.

Historical Trenching

In the late 1980s, Doron Explorations carried out hand, blast and mechanized trenching programs at the Cirque Zone. This trenching was primarily directed at defining the orientations, widths and grades of silver-rich veins (Robertson and Wallis, 1989).
In 1987, Doron Explorations walked a D6 bulldozer from Faro to the lower part of the Cirque Zone. Fifteen trenches were excavated in this area, but the main part of the zone was too steep to

be accessed by this machine. In early summer of 1988, Doron Explorations blasted and hand excavated 19 small trenches within the upper part of the zone. Many of these trenches failed to reach bedrock due to permafrost, talus slides and deep overburden. Later that summer, Doron Explorations walked a D8K bulldozer to the zone. This bulldozer completed 800 m of excavation in six trenches, but it often had to be assisted by blasting to break up solid bedrock between and within the trenches. In early fall of 1988, Doron Explorations conducted an additional blasting and hand trenching program (six trenches) within the zone. The exact locations of many historical trenches are uncertain because the Doron Exploration maps have too few reference points.

The best results from these historical trenching programs are listed in Table 35.

Table 35: Cirque Zone – Significant Historical Trench Sample Results

Year	Type	Ag (g/t)	Pb (%)	Zn (%)	Au (g/t)
1987	Bulldozer – 3 m chip	482	NR	0.10	0.068
1987	Bulldozer – 2 m chip	932	NR	0.19	0.58
1987	Bulldozer – 3 m chip	284	NR	0.15	0.27
1987	Bulldozer – 2 m chip	1208	NR	0.15	0.14
1987	Bulldozer – 1 m chip	926	NR	0.18	0.137
1987	Bulldozer – 1 m chip	666	NR	0.52	0.617
1988	Hand/blast – 2.5 m chip	541	NNR	NNR	NNR
1988	Hand/blast – 1.5 m chip	259	NNR	NNR	NNR
1988	Hand/blast – grab	150	NNR	NNR	NNR
1988	Bulldozer – 0.3 m chip, vein	425	0.09	0.87	0.127
1988	Bulldozer – 0.7 m chip, 0.45 m vein at schist contact	3565	2.32	0.80	0.215
1988	Bulldozer – 0.5 m chip, 2 veins (0.10-0.15 m) in altered granite	550	0.25	0.34	0.740
1988	Bulldozer – 0.5 m chip, 0.2 m vein	589	0.57	0.54	0.615
1988	Bulldozer – 0.3 m chip, quartz vein with galena	396	1.96	0.51	0.410

The samples not listed on the table yielded less than 343 g/t silver (10 opt) or were narrower than 0.40 m.

Doron Explorations considered the trenching results to be generally disappointing compared to what it expected based on the abundance of mineralized float at surface (Robertson and Wallis, 1989). The veins were narrower and their abundance was lower than anticipated. It concluded that the vein size and abundance was exaggerated by downhill dispersion from buried veins. The widths, grades, textures, mineralogies and orientations of individual veins were found to be quite variable over short distances.

Diamond Drilling

Four holes totalling 342.28 m were completed at the Cirque Zone by Silver Range in 2012. Locations of these holes are shown on Figure 92. Three holes were drilled from an existing clearing at the end of a bulldozer trail and tested beneath historical blast trenches. The fourth hole was collared uphill from the Bench Showing.

Weakly oxidized granite containing narrow quartz-carbonate (rhodochrosite) veins was intersected in the first three holes. The veins contained trace to minor amounts of fine grained galena, pyrite, sphalerite and chalcopyrite. Overall, mineralization intersected in these holes is weaker than expected and it does not adequately explain the mineralization found at surface. The fourth hole was unmineralized. A list of significant drill intersections is provided in the following table.

Table 36: Cirque Zone – Drilling Highlights

Hole	From (m)	To (m)	Interval (m)	Ag (g/t)	Pb (%)	Zn (%)
CRQ-12-001	21.50	22.20	0.70	39.60	0.184	0.061
CRQ-12-002	6.00	6.80	0.80	25.70	0.037	0.041
CRQ-12-003	26.00	30.00	4.00	18.91	0.041	0.024

SNAP AND RISBY ZONES

The Snap and Risby Zones are situated 30 and 32.5 km south-southeast of the Keg Main Zone, respectively. The zones are located along two sub-parallel ridges located on opposite sides of a broad U-shaped valley that is drained by Ace High Creek, a northeast flowing creek with steep banks. Outcrop is common along ridge crests and north-facing slopes, often forming tall cliffs.

Geology

Both zones are underlain by granite, quartz monzonite, granodiorite and minor syenite of Anvil Batholith (Unit 3 on Figure 93). These rocks are light brown to grey, massive and fine to medium grained. They are composed of anhedral to subhedral feldspar, quartz, biotite and muscovite with minor apatite and magnetite (Blanchflower, 1999).

Several large roof pendants are preserved along ridge tops within and adjacent to the zones. These roof pendants comprise Mount Mye Formation non-calcareous schist, phyllite and gneiss with lesser carbonaceous phyllite, marble, calc-silicate schist and metabasite (Units 1 and 2).

Both the roof pendants and Anvil Batholith have been cut by green, fine-grained andesite to coarse-grained hornblende-plagioclase porphyry dykes (Unit 4), and quartz-feldspar porphyry dykes (Unit 5). These dykes could be Mid-Cretaceous or Early Tertiary in age.

Quaternary alluvium, glacial and glaciofluvial deposits blanket broad valleys in the area.

The metamorphosed sedimentary and lesser volcanic rocks have undergone a high degree of regional deformation. The gneiss and schist reportedly contain staurolite, which is indicative of relatively high metamorphic grade. With the exception of a relatively thin band of localized hornfels, little contact metamorphism has been mapped within the metasedimentary rocks near the intrusive contact (Blanchflower, 1999).

Anvil Batholith intrusives are generally fresh to poorly altered, except adjacent to or within south-southeasterly and east-northeasterly trending fault zones. The rocks become increasingly

more altered near these fault zones, resulting in an apparent zonation from fresh to propylitic, sericitic and, eventually, pervasive argillic alteration facies. Within the most intensely fractured and sheared fault zones, the intrusives are leucocratic (the mafic minerals are altered to quartz and sericite), albitized and locally biotitized. This alteration is attributed to hydrothermal fluids associated with the mineralization, since most of the mineralization (sheeted quartz-sulphide veins) occurs within sericitically-, or more commonly, argillically-altered granite or granodiorite.

The younger dykes (Units 4 and 5) display chill features near their margins and are usually sheared, silicified and limonitic at surface.

Two dominant sets of moderately to steeply dipping, normal faults result from extension during the intrusion of the Anvil Batholith (Jennings and Jilson, 1986 in Blanchflower, 1998). The fault sets are oriented at 060 to 070º and 160 to 170º. Foliation and apparent bedding attitudes within the metasedimentary units commonly strike northwesterly and dip shallowly (10 to 30º) to the southwest (Blanchflower, 1999). These attitudes are commonly parallel to contacts with the underlying batholitic rocks.

Mineralization

The Snap Zone comprises six showings (Arseno, Dyke, Bubble, Creek, Krist and Ace High), which are spread over 2500 m along a northeast-trending, alpine ridge (Figure 93). Arseno, Dyke and Bubble showings lie along the ridge crest, while Creek Showing is located on its eastern flank and Krist Showing is on its west side. Ace High Showing is located about 1000 m southeast of Arseno showing, along the banks of Ace High Creek. The Risby Zone is located southeast of the Snap Zone on the other side of Ace High Creek. It comprises two main mineralized areas (Risby Main Showing and Risby Northeast Showing), which are situated 1800 m apart along the ridge crest. Both zones are hosted within granitic rocks of the Anvil Batholith, which are overlain by roof pendants of foliated gneiss, in places along the ridge crests. Felsic dykes cut both units in the vicinity of Dyke and Bubble showings within the Snap Zone (Figure 93).

Granitic rocks within both zones appear to have undergone at least two periods of localized, post-intrusive hydrothermal alteration, silicification and mineralization (Blanchflower, 1999). The first period comprised mesothermal-style alteration and veining, which was overprinted by a second period of epithermal-style veining. In 2012, Silver Range collected 53 rock samples representing both types of mineralization from various showings within the two zones.

Most of the mineralization within the Snap and Risby zones consists of mesothermal, fracture-controlled quartz-sulphide veins, stringers and infilled tectonic breccias hosted by sericitically to argillically altered granite (Blanchflower, 1999). Individual quartz-sulphide veins vary from a few millimetres to more than 30 cm thick. Depending upon the density of fracturing, the distance between veins ranges from less than five centimetres to more than two metres. The veins have generally been described as sheeted structures, rather than vein stockworks. They are commonly oriented east-northeasterly and dip 45° to 70° northward. Localized quartz-sulphide vein stockworks are present at Creek and Krist showings.

Fine-grained pyrite, sphalerite and galena with lesser arsenopyrite, chalcopyrite and rare pyrrhotite are the sulphide minerals associated with the mesothermal sheeted quartz veins. The sulphides occur at the cores or along the selvages of veins. Near surface or within intensely fractured and deeply weathered areas, the sulphide minerals are oxidized to limonite, hematite, goethite, smithsonite and scorodite. Semi-massive sulphide breccias have been identified in float boulders along Ace High Creek. These sulphide breccias contain open-space filling, medium to coarse grained pyrite, sphalerite and arsenopyrite with minor disseminated galena, chalcopyrite and pyrrhotite hosted within quartz and calcite gangue. Based upon rock geochemical results from various showings, the best gold and silver values are generally associated with increased arsenopyrite and galena contents.

Epithermal-style veining overprints the mesothermal mineralization at Arseno and Risby Main showings and is the dominant type of mineralization at Dyke and Bubble showings. The epithermal vein mineralization has distinct open-space filling textures including: vugs; crustiform coarse grained quartz-calcite bands; and breccias with quartz, calcite and rhodochrosite enclosing clasts of altered granite. Very fine to fine grained pyrite and sulphosalts are often associated with these high-level, epithermal vein structures. Rhodochrosite is common within dark grey, sulphide-rich, epithermal veins. Rhodochrosite that is oxidized to black manganite has been observed along the western bank of Ace High Creek.

Most historical and recent exploration conducted within the Snap Zone focused on **Arseno Showing,** which comprises recessive and rusty weathering, fracture-controlled, sulphide-bearing, quartz-carbonate veins hosted within strongly altered granite. The alteration and mineralization are well developed, trend southeasterly across the ridge and have been traced for about 1000 m along strike. On the northwest side of the ridge, the showing consists of extensive sulphide-bearing quartz veins within talus and small rubbly outcrops of altered granite. On the southeast side of the ridge, the showing is mostly grass covered. There appears to be a vertical sulphide zonation within Arseno Showing, with arsenopyrite and pyrite dominating in sheeted quartz veins near the top of the ridge and increasing sphalerite and galena in sheeted vein float downslope towards Ace High Creek.

Three weakly mineralized samples were collected from this showing in 2013. One sample yielded high tungsten (7,190 ppm), bismuth (248 ppm) and zinc (0.48%). The best results from recent and historical sampling within Arseno Showing are listed in Table 37.

Table 37: Arseno Showing – Significant Rock Sample Results

Year	Type	Ag (g/t)	Pb (%)	Zn (%)	Tin (ppm)	Au (g/t)
1988	Grab, Qz vein in granite	346	0.74	0.40	NR	0.980
1988	Grab, Qz vein in altered granite	123	1.46	10.00	NR	0.042
1988	Grab, Qz vein in altered granite	71.0	0.49	0.30	NR	1.36
1998	30 m chip, argillically-altered granite with Ch-Cr stockwork veining	7.7	NR	NR	NR	0.05
1998	Grab, Ch-Qz-Cr-Gn-Sc vein	132.0	NR	NR	NR	1.33
1998	2.0 m chip, brecciated + silicified	602.0	NR	NR	NR	0.05

	granite with Sc-stained Qz veins					
1998	Grab, Qz-Ch with 35-40% Gn + As	695.0	NR	NR	NR	5.53
1999	Grab, Qz-Ch with Py, Gn, Sp	515.0	NR	NR	NR	7.27
1999	Grab, sulphide-rich mineralization	99.0	NR	NR	NR	1.54
2011	Grab, oxidized Qz vein in granite	1210	0.32	0.10	89	0.101
2011	Grab, schist with As + Sc	396	4.97	0.02	35	6.81
2011	Grab, well mineralized float	16.25	0.04	2.69	500	3.05
2012	Grab, Qz-Gn-Py-Sc	270	7.26	1.64	230	1.36
2012	Grab, Qz-As-Gn-Sp-Mn	69.8	1.90	0.93	72.8	0.81
2012	Grab, Qz-As-Py-Sc vein	39	0.56	0.08	161	5.64
2013	Grab	18.55	0.15	2.17	51.4	0.22
2013	Grab, altered gneiss	0.5	0.002	0.48	120.5	0.027

Note: Qz – quartz, Ch – chalcedony, Cr – carbonate, Gn – galena, As – arsenopyrite, Py – pyrite, Sc – scorodite, NR – not reported

Dyke Showing lies 500 m northeast of Arseno Showing. It is characterized by silicified and brecciated quartz-feldspar porphyry dykes that occupy a steeply dipping fault zone within granite. The dykes are cut by a later east-trending fault (Blanchflower, 1999). Dark grey, fracture-controlled, fine grained sulphide mineralization is hosted within the silicified and brecciated dyke and granite. No significant results were obtained from this showing in 2012 or 2013. Highlight results from 1999 and 2011 sampling are listed in Table 38.

Table 38: Dyke Showing – Significant Rock Sample Results

Year	Type	Ag (g/t)	Pb (%)	Zn (%)	Sn (ppm)	Au (g/t)
1999	Grab, Gn-rich Qz vein	912.0	NR	NR	NR	0.17
1999	Grab, Qz with 2-3% As and <1% Gn	149.3	NR	NR	NR	0.17
1999	Grab, banded Qz vein with 10% Sp, 5% Gn, 5% Py + 2-4% As	53.8	NR	NR	NR	1.68
1999	Grab, Gn-rich Qz veins	1277	NR	NR	NR	0.58
2011	Grab, Li + Sr altered granite	168	6.85	0.13	48	1.94
2011	Grab, Qz vein with minor Gn	348	1.88	0.82	47.7	0.008
2011	Grab, Qz vein with fine sulphides	31.5	1.26	1.50	1675	0.016
2011	Grab, Qz vein with sulphide-filled vugs and fine sulphide disseminations	28.6	1.62	0.62	5010	0.043

Note: Qz – quartz, Sr – sericite, As – arsenopyrite, Gn – galena, Py – pyrite, Li – limonite, NR – not reported

Bubble Showing is located 2000 m northeast along the ridge crest from Arseno Showing. Granitic rocks in this area were cut by rusty weathering, aphanitic to fine grained quartz-feldspar porphyry dykes, which were subsequently brecciated and silicified (Blanchflower, 1999). Quartz-chalcedony stockwork veins and breccia matrix host very fine grained galena, sphalerite, pyrite and arsenopyrite. The showing was named for the many vugs and miarolitic cavities that are present within the dykes. No significant samples were collected from this showing in 2013. The best results from 1999, 2011 and 2012 sampling at this showing are listed in Table 39.

Table 39: Bubble Showing – Significant Rock Sample Results

Year	Type	Ag (g/t)	Pb (%)	Zn (%)	Sn (ppm)	Au (g/t)
1999	Grab, silicified QFP dyke with Py blebs	36.8	NR	NR	NR	0.005
1999	3 m chip, weakly altered and brecciated granite	12.7	NR	NR	NR	0.005
1999	25 m chip, brecciated and silicified granite with no Qz sheeting	5.0	NR	NR	NR	0.005
1999	Grab, vuggy siliceous breccia with Gn, Sp, minor As	175.5	NR	NR	NR	0.026
2011	Grab, epithermal breccia with trace Sp-Gn-Py in rusty fault zone	65.3	0.57	0.30	399	0.011
2011	Grab, epithermal Qz vein with weathered sulphides	61.9	0.14	0.95	746	0.009
2011	5.8 m chip, rusty vein and gouge zone adjacent to QFP dyke	5.93	0.05	0.05	10000	<0.005
2012	Grab, Qz vein with Py-Sp-Gn-Cp-Cv	94.2	0.39	1.97	317	0.017
2012	Grab, vuggy Qz vein in granitic host, Py-Gn-Sp-Cp	52.4	0.18	0.17	235	0.007
2012	Grab, ferricrete breccia boulders	32.1	0.04	0.15	10900	0.005

Note: Qz – quartz, QFP – quartz-feldspar porphyry, Gn – galena, Sp – sphalerite, Py – pyrite, Cp – chalcopyrite, Cv – covellite, NR – not reported

Creek Showing is located 2500 m northeast of Arseno Showing, on the east side of the ridge. It comprises gossanous, intensely brecciated and limonite-altered granite exposed within a deeply incised creek cut. The creek follows a southeasterly trending, three to five metre wide, argillically-altered shear zone (Blanchflower, 1998). This shear zone is cut at regular intervals by a series of vertical shear structures that trend 167°. The intersection points of the structural sets are marked by four to seven metre long, intensely limonitic and/or hematitic breccia zones. Narrow fracture-filling veins with pyrite and galena have been found locally along the core of the southeasterly trending shear structure. This showing was not sampled in 2012 or 2013. The best historical results from this showing are listed in Table 40.

Table 40: Creek Showing – Significant Rock Sample Results

Year	Type	Ag (g/t)	Pb (%)	Zn (%)	Au (g/t)
1988	1 m chip, altered granite with sulphide veinlets	422	1.44	4.87	0.073
1988	Grab, Qz vein	130	1.46	0.53	5.85
1988	Grab, Qz vein	3.5	0.19	0.03	1.48
1998	0.5 m chip, 5 cm thick massive Gn-Py vein in altered granite	127.0	NR	NR	0.016

Note: Qz – quartz, Gn – galena, Py – pyrite, NR – not reported

Krist Showing lies on the northwest side of the ridge and comprises several small areas of fracture-controlled quartz-calcite-galena-sphalerite-arsenopyrite stockwork veins hosted by weakly to moderately argillized granite (Blanchflower, 1998). The main mineralized stockwork is the most northeasterly of the mineralized areas. It is three to ten metres wide and trends at

058°, parallel to a nearby creek. The stockwork is cut by vertical, north-trending shear structures spaced 0.5 to 2 m apart. These cross-cutting structures host quartz-calcite veins with local galena, sphalerite, pyrite and arsenopyrite (Blanchflower, 1998). Krist Showing has received cursory sampling by previous operators, but it has never been a primary focus of exploration nor has it been tested systematically. Table 41 lists highlight results from this showing (the 1998 samples have not be plotted on current maps due to a lack of reference points on the historical map; however they appear to have been collected in the vicinity of the 1988 sample).

Table 41: Krist Showing – Significant Rock Sample Results

Year	Type	Ag (g/t)	Pb (%)	Zn (%)	Au (g/t)
1986	Grab, massive Gn + Py vein	549	48.99	NR	0.17
1986	Grab, massive Gn vein	496	42.99	NR	0.17
1988	Grab, Qz vein	7.4	0.32	0.28	1.38
1998	20 m chip sample, fractured and Qz-veined, argillically altered granite	6.0	NR	NR	0.03
1998	1.0 m chip sample, Gn-Sp-As-Qz-Ca vein in limonitic + silicified shear zone with 15 cm wide Gn-Sp vein core	112.0	NR	NR	0.01
2012	58 cm chip, massive Gn-Sp-Cp	367	29.27	6.37	0.008
2012	15 cm chip, Qz-Gn-Sp-Cp vein	178	10.90	3.26	0.045
2012	25 cm chip, massive Gn-As-Sp-Py	83.4	4.66	0.83	1.605

Note: Qz – quartz, Ca – calcite, Gn – galena, Sp – sphalerite, As – arsenopyrite, Py – pyrite, NR – not reported

Prospecting in 2013 better delineated previously identified mineral occurrences along Ace High Creek, which are collectively referred to as the **Ace High Showing**. A total of nine samples were collected from this showing in 2013. All of these samples were taken from talus on either side of the creek and could represent downhill dispersion from either Arseno or Risby showings.

Table 42: Ace High Showing – Significant Rock Sample Results

Year	Type	Ag (g/t)	Pb (%)	Zn (%)	Tin (ppm)	Au (g/t)
2011	Boulder grab, dolomite-Qz-	267.00	5.27	5.21	731	0.809
2011	Near-source float boulder grab,	24.30	0.763	0.978	59	0.024
2012	Float grab, Gn-As-Ma vein	351.00	7.11	4.84	640	0.765
2012	Float grab, Qz-Gn-As-Sp-Cp	170.00	4.59	4.07	178.5	0.802
2013	Float grab, Qz-Gn-As-Sp-Cp	79.00	2.66	12.75	>500	0.914
2013	Float grab, Qz-Gn-As breccia	224.00	10.6	0.314	214	0.301
2013	Float grab, Qz-Gn-As-Sp-Cp	47.90	0.886	0.636	11	0.064
2013	Float grab, Qz-As-Sp breccia	43.90	0.756	1.84	114	0.463
2013	Float grab, Qz-Py-Gn	41.60	0.93	2.16	75.7	0.037

Note: Qz – quartz, Gn – galena, Sp – sphalerite, As – arsenopyrite, Py – pyrite, Cp – chalcopyrite

Risby Main Showing was discovered by P. Risby in 1999. It comprises several quartz-sulphide vein structures that cut fractured and limonitic granite. Two main mineralized and silicified structural trends were observed: 1) sub-parallel to Ace High Creek – east-northeasterly trending

(050° to 070°) and moderately dipping (-45° to -60° northward); and 2) within recessive weathering, young fault zones orthogonal to Ace High Creek – southerly trending (160° to 180°) and steeply dipping. Vertical zonation of mineralization, similar to that observed at Arseno Showing, has been noted at Risby Main Showing. The distribution of mineralization varies from very fine to fine grained, wispy colourations at the core or along the selvages of the quartz±carbonate veins at higher elevations to fracture in-fillings and disseminations within wider sheeted veins at lower elevations. Table 43 lists the best results from 1999, 2011, 2012 and 2013 sampling (Figure 93).

Table 43: Risby Main Showing – Significant Rock Sample Results

Year	Type	Ag (g/t)	Pb (%)	Zn (%)	Sn (ppm)	Au (g/t)
1999	Grab, altered granite with Qz vein + As	835.0	NR	NR	NR	4.73
1999	Grab, altered granite with 1 cm Sp-Gn bands in Qz vein	360.0	NR	NR	NR	5.74
1999	Grab, vuggy Qz-Ca vein with As-Gn	1822	NR	NR	NR	4.25
1999	Grab, Qz vein with Py-As	690.0	NR	NR	NR	3.33
1999	Grab, altered granite with Qz-Ca vein + fine sulphides	459.0	NR	NR	NR	7.41
1999	3 m grab, Qz-As vein	117.4	NR	NR	NR	1.970
1999	1 m grab, Qz-As fault breccia	1186	NR	NR	NR	2.568
1999	1 m grab, Qz-As vein	786.0	NR	NR	NR	6.495
1999	Grab, 10 cm wide Qz vein with banded As + Py	478.0	NR	NR	NR	6.690
1999	Grab, 10 cm wide Qz vein with As-Sp	2730	NR	NR	NR	5.690
2011	Grab, Qz with fine disseminated sulphide	767	0.39	0.02	80	8.82
2012	Grab, Qz-As	838	0.69	2.06	275	2.12
2012	Grab, Qz-As-Gn-Sp vein	409	0.19	0.20	52	9.07
2013	3 m grab, sericite-altered intrusive, Gn-As, drusy quartz	245	0.838	0.314	212	0.144
2013	Grab, Qz-Ga-As breccia	131	4.5	0.984	85.7	0.035

Note: Qz – quartz, Ca – calcite, Gn – galena, Sp – sphalerite, As – arsenopyrite, Py – pyrite, Ch – chalcedony, Rh – rhodochrosite NR – not reported

Four samples collected from Risby Main Showing in 2011 averaged 3322 ppm tungsten (between 52.7 and 9970 ppm). The highest tungsten value was obtained from a sample that also yielded 767 g/t silver and 8.82 g/t gold. Samples collected in 2012 and 2013 did not return any significant tungsten values.

Risby Northeast Showing was discovered and sampled in 1988 by Doron Explorations, which found silver-bearing quartz veins in granite float and subcrop in close proximity to a granite\schist contact. Better silver values were recorded in manganese-deficient veins than in samples with higher manganese values (Robertson and Wallis, 1989). The most significant sample results are listed in Table 44.

Table 44: Risby Northeast Showing – Significant Rock Sample Results

Year	Type	Ag (g/t)	Pb (%)	Zn (%)	Sn (ppm	Au (g/t)
1988	Grab, Qz vein	323	0.66	0.15	NR	0.091
1988	Grab, Qz vein in altered granite	296	0.08	0.18	NR	5.43
1988	Grab, Qz-sulphide vein	470	0.64	0.14	NR	0.149
1988	Grab, Qz-sulphide vein	374	0.43	0.04	NR	0.027
2012	Grab, Qz-As vein	3870	1.76	0.37	77.4	3.43
2012	Grab, Qz with fine disseminated	2560	1.45	0.22	80.8	0.81
2012	Grab, granite with quartz and	615	0.39	0.19	44.6	1.905
2012	Grab, Qz vein with fine	394	0.184	0.01	21.5	1.465
2012	Grab, Qz-Ch-Rh	144	0.06	0.19	21	0.63
2013	Grab, Qz-Gn vein	1880	0.932	0.277	59.5	2.29
2013	Grab, Qz vein	18.9	0.0273	0.112	17.1	0.59

Soil Geochemistry

The Snap Anomaly is the most extensive and strongest multi-element anomaly in Mount Mye Belt. High silver, lead, zinc, tin and arsenic values are prevalent throughout the anomaly, while elevated gold, tungsten and molybdenum results are common in its southern half. Strong bismuth values are only obtained in the northern half of the anomaly and copper results are subdued throughout. Results for silver, lead and arsenic are shown on Figures 94 through 96.

Only a few anomalous results were obtained from soil samples taken within the Risby Zone.

Geophysics

In spring 2013, Condor Consulting completed a basic assessment of IP survey data collected in 1999 for Pacific Ridge Exploration (Blanchflower, 1999). Data was digitized from the 1999 Pacific Ridge Exploration Report.

The IP-resistivity results show a complex pattern with responses that vary considerably with depth. The shallow chargeability (Figure 97) shows a fairly discrete high over Arseno Showing that appears to be fault bounded along its northern and southern margins. The deeper chargeability (Figure 98) suggests that the eastern margin of Arseno Showing is more anomalous (Witherly, 2013).

Shallow resistivity (Figure 99) shows a complex pattern of narrow conductive zones that are sub-parallel to mapped faults to the north and south of the surveyed area. The deeper resistivity (Figure 100) shows a prominent low that strikes southwest, perpendicular to the orientation of the trend of Arseno Showing.

A strong, deep chargeability high with a corresponding, resistivity high, underlies Ace High Creek near the eastern edge of the survey area.

Historical Diamond Drilling

Historical drilling at Arseno Showing was conducted to evaluate coincident soil geochemical and geophysical (chargeability) anomalies that had been identified in an area of little to no bedrock exposure, on the southeast side of the ridge (Blanchflower, 1999). Widespread, fracture-controlled, weak to locally strong quartz-pyrite (± sphalerite and lesser galena, chalcopyrite, arsenopyrite and/or pyrrhotite) sheeted veins and local sulphide-bearing breccias were identified within argillically-altered granite over a 1200 m strike length. The silver and gold values were lower than expected, based on prior surface rock geochemical sampling. None of the arsenopyrite- and galena-rich quartz-sulphide vein stockworks and semi-massive mineralization, observed in float within the Snap Zone, were intersected by the diamond drilling. The most significant intervals of quartz-sulphide vein mineralization were intersected by drill holes 99-04 and 99-05, which reportedly returned values of 52.3 g/t silver and 0.21 g/t gold over 3.0 m and 26.8 g/t silver and 1.50 g/t gold over 7.0 m, respectively (Blanchflower, 1999). The drilling did not intersect sufficient sulphide mineralization, or any other geological feature, to explain the chargeability anomaly.

Holes 77VZ-1 and -2 were drilled 1000 m south and 800 m southwest of Arseno Showing, respectively. They were designed to test coincident magnetic and electromagnetic anomalies within schist. Hole 77VZ-1 did not explain the anomalies, but the results from hole 77VZ-2 suggest that the anomalies are due to high carbon content and associated disseminated pyrite (up to 4%) within schist between 26.5 and 84.1 m.

Recent Diamond Drilling

The most recent diamond drilling at the Snap Zone comprises 10 holes totalling 2,343.11 m and was completed by Silver Range in 2011 and 2012. Locations of these holes are shown on Figure 93.

The primary focus of the drilling was the northern strike extension of Arseno Showing. Most of the drill holes are located on the same section line as hole 99-08, which graded 87.7 g/t silver over 8.9 m (Blanchflower, 1999).

All of the drill holes intersected granite belonging to the Anvil Batholith. A phyllite roof pennant, located at the crest of the hill above the main drill area was cored at the tops of holes SNP-12-009 and 99-08. Quartz veins with well-developed epithermal textures cut the granite.

A thick interval of moderately to intensely oxidized fractures was intersected near the centre of two section lines. This oxidized band trends northerly and appears to coincide with a near surface conductive feature outlined by the IP survey conducted by Pacific Ridge Exploration in 1999. These oxidized intervals correspond to broad low grade intersections, while higher grade intersections coincide with discrete mineralized quartz veins. The following table lists the most significant intersections obtained from drilling at the Snap Zone.

Table 45: Snap Zone – Drill Highlights

Hole	From (m)	To (m)	Interval (m)	Ag (g/t)	Pb (%)	Zn (%)	In (ppm)	Sn (ppm)	Au (g/t)
SNP-11-002	24.99	75.85	50.86	33.30	0.140	0.160	-	50.0	0.030
SNP-12-004	59.40	128.50	69.10	16.84	0.134	0.180	0.229	42.6	0.050
Incl.	59.40	73.40	14.00	36.53	0.238	0.114	0.234	47.5	0.120
Incl.	85.50	95.70	10.20	36.30	0.157	0.386	0.291	59.4	0.067
Incl.	117.40	120.10	2.70	34.56	0.996	1.5000	1.597	62.7	0.081
SNP-12-005	182.30	183.80	1.50	85.40	1.725	1.719	69.133	442.3	0.053
SNP-12-006	18.00	85.40	67.40	14.43	0.410	0.751	16.718	294.5	0.009
Incl.	21.60	23.30	1.70	219.93	2.741	8.609	156.671	2232.5	0.026
SNP-12-006	183.00	192.00	9.00	6.45	0.148	0.684	12.524	564.5	0.004
SNP-12-008	36.59	77.52	40.93	10.62	0.377	1.337	13.551	913.4	0.179
Incl.	36.59	56.72	20.13	16.53	0.661	1.553	11.863	1244.9	0.131
SNP-12-009	42.60	45.10	2.50	29.28	0.304	0.387	0.258	64.6	0.066
SNP-12-009	96.09	97.89	1.80	21.1	0.595	0.892	4.117	123.3	0.017
SNP-12-009	206.63	207.14	0.51	133.00	6.040	0.977	3.520	111.0	0.750
SNP-12-010	302.00	321.65	20.85	7.31	0.079	0.402	7.049	248.3	0.060
Incl.	302.00	308.20	6.20	10.34	0.059	0.547	12.967	312.9	0.026
Incl.	320.20	322.85	2.65	16.78	0.322	1.482	18.270	669.3	0.344

Only one drill hole has tested beneath mineralized at the Risby Zone. This hole was drilled in 2012 from the ridge top. It intersected granite cut by quartz veins, which are weakly to moderately oxidized near surface. Most of the quartz veins are barren, but some of them contain pyrite, galena and minor sphalerite. The following table lists the significant results from the Risby Zone hole.

Table 46: Risby Zone – Drill Highlights

Hole	From (m)	To (m)	Interval (m)	Ag (g/t)	Pb (%)	Zn (%)	Au (g/t)
RSB-12-001	2.75	20.42	17.67	33.47	0.075	0.012	0.105
Incl.	10.82	20.42	9.60	58.38	0.129	0.011	0.191
RSB-12-001	169.02	173.46	4.44	14.63	0.008	0.013	0.136
RSB-12-001	188.46	200.93	12.47	7.95	0.011	0.034	0.035

ORANGE ZONE

The Orange Zone was discovered by Doron Explorations in 1988. This zone is located on an east trending ridge, approximately 5.3 km west of the Snap Zone (28 km south-southeast of the Keg Main Zone). It is marked by a broad east-trending rusty terrace, which is flanked by cliffs and traceable for 3 km along strike. Orange Zone lies above treeline. Gentler slopes in the area are covered by moss and grass, while steeper talus slopes are largely unvegetated. Outcrop is abundant along the top of the ridge.

Geology

Granite of the Anvil Batholith underlies the Orange Zone (Figure 101). The rocks are relatively fresh except where cut by a rusty recessive fault structure exhibiting clay, limonite and siderite alteration.

East-northeast of the zone, roof pendants of metamorphosed Gull Lake Formation sedimentary rocks are exposed within a large north-facing cirque, where they are contact with the Anvil Batholith. The metamorphosed rocks comprise light green to pink, variably calcareous gneiss interlayered with biotite-quartz schist. Lensy dykes or sills of hornblende-plagioclase porphyry of the Tay Plutonic Suite cut the metasediments. Pegmatitic quartz veins, often containing muscovite and tourmaline crystals up to five centimetres wide, occur within Gull Lake Formation and Tay Plutonic Suite rocks.

The western contact between Anvil Batholith and Gull Lake Formation is brecciated. This breccia contains fine-grained silicified grey clasts within a limonite matrix. Gull Lake Formation rocks along the eastern contact within the granite are propyliticaly altered.

Mineralization

Mineralization, which consists of quartz and chalcedony with pyrite and galena, is mostly adjacent to a prominent orange-red terrace marking the surface trace of the mineralized fault structure. Sampling in 2012 and 2013 (Figure 101) was predominantly done near the centre of the zone within a quartz vein that is intermittently exposed for 200 m and is up to 2 m wide. Samples collected in 1988 did not yield any significant values (Robertson and Wallis, 1989). Significant results from 2012 and 2013 are listed in Table 47.

Table 47: Orange Zone – Significant Rock Sample Results

Year	Type	Ag (g/t)	Pb (%)	Zn (%)	Au (g/t)
2012	Grab, Qz-Gn vein	675	3.96	0.02	0.007
2012	Grab, Qz-Gn-Py	352	2.51	0.02	<0.005
2012	0.90 m chip, Qz-Gn-Py vein	337	2.03	0.01	<0.005
2013	Talus float composite, Qz-Gn	478	1.95	0.0185	0.021
2013	Grab, Qz-Gn vein	1150	3.34	0.0236	0.033
2013	Grab, Qz-Gn-Cpy vein	132	0.717	0.0061	<0.005
2013	Vein grab, Qz-Gn-Cpy, trace	59.4	1.13	0.261	<0.005

2013	0.5m chip, Qz vein with	56.9	0.347	0.0268	<0.005
2013	Vein grab Qz-musc-Cpy-Gn-Tr	55.5	0.292	0.0052	<0.005
2013	Vein float Qz-Gn-Cpy	24.1	0.0991	0.004	<0.005

Note: Qz – quartz, Gn – galena, Py – pyrite, Cpy – Chalcopyrite, Tr - Tourmaline

The significant samples listed above averaged 934.6 ppm bismuth (between 68.7 and 2790 ppm), with the highest bismuth value from the sample that yielded 1150 g/t silver.

Soil Geochemistry

Soil samples were collected every 50 m along contour lines spaced 100 m apart within the Orange Zone. Samples yielded strongly anomalous lead and moderately anomalous silver, zinc and copper. The strongest anomalies occur on north-facing slopes, north and northwest of the locations where mineralized rock samples were collected.

Soil samples taken along the ridge also returned some strongly anomalous gold values to a peak of 171 ppb. Samples taken 330 m to 550 m southwest of the mineralized rock samples produced the highest gold values.

DEPOSIT TYPES

Keg Main Zone comprises a large-scale, low grade, multi-element mineralized system that is being explored as a bulk tonnage target. It is located 25 km north of the former mines of the Anvil District, which comprised concordant and syngenetic Sedex zinc-lead-silver deposits. Keg Main Zone differs from the deposits of the Anvil District because it is predominantly discordant, epigenetic and lower grade. Keg Main Zone has an unusual metal suite and, although it is believed to be hydrothermal in origin, the deposit is located some distance from the closest known intrusion.

There are no known deposits that are directly analogous to Keg Main Zone. Table 48 lists the average grades of the mineral resources from some significant, multi-element, bulk tonnage deposits in comparison to Keg Main Zone.

Table 48: Comparison of Keg Main Zone with Multi-Metal, Bulk-Tonnage Deposits

Deposit/ Prospect	Ag (g/t)	Au (g/t)	Zn (%)	Pb (%)	Cu (%)	Sn (ppm)	In (ppm)	Reserve Resource (Mt)	Notes
Keg (Silver Range)	30.25	-	0.77	0.26	0.15	265	5.77	39.76	Inferred[1]
Promontorio (Kootenay)	32.69	0.40	0.55	0.46	-	-	-	10.29	Measured
	26.30	0.34	0.45	0.38	-	-	-	34.22	Indicated
	27.77	0.35	0.47	0.40	-	-	-	44.51	Measured and Indicated[2]
Minto (Capstone)	4.4	0.53	-	-	1.35	-	-	14.83	Measured
	3.7	0.36	-	-	1.03	-	-	38.56	Indicated

	3.9	0.41	-	-	1.12	-	-	53.39	Measured and Indicated[3]
Mt. Milligan (Thompson Creek)	-	0.44	-	-	0.210	-	-	274.6	Proven
	-	0.32	-	-	0.187	-	-	207.8	Probable
	-	0.39	-	-	0.200	-	-	482.4	Proven and Probable[4]
Malku Khota (South American Silver)	33.4	-	0.02	0.07	0.02	-	6.1	30.99	Measured
	27.3	-	0.05	0.08	0.02	-	5.8	224.00	Indicated
	28.10	-	0.04	0.08	0.02	-	5.8	254.99	Measured and Indicated[5]

[1] Inferred resource using a 16 g/t silver cut-off (Giroux and Melis, 2012).
[2] Olin et al., 2013
[3] Capstone Mining Corp., 2012
[4] Thompson Creek Metals Company Inc., 2012
[5] Armitage et al, 2011

Keg Main Zone lies in the Northern Cordillera, which hosts numerous low grade, bulk tonnage copper-gold deposits, including Capstone Mining Corp.'s Minto Mine and Thompson Creek Metals Company Inc.'s Mt. Milligan Deposit. The Minto Mine, located in central Yukon, is a copper-gold-silver open pit mine that commenced production in 2007. Its deposit type is also uncertain, but it has attributes of porphyry copper, magnetite skarn and Iron Oxide Copper Gold (IOCG) deposits. The Mt. Milligan porphyry copper-gold open-pit mine is located in central British Columbia and began production in 2013.

The most similar of the listed deposits in terms of size and grade is Kootenay Silver Inc.'s Promontorio Deposit in northwest Mexico. This deposit comprises a carbonate-rich, diatreme-hosted, polymetallic silver-lead-zinc deposit.

The Malku Khota deposit in Bolivia appears to be the most analogous to Keg Main Zone in terms of geochemistry and possible genesis. Like Keg Main Zone, early exploration in the Malku Khota area focussed on high grade stratabound sulphide lenses within clastic sedimentary units. These lenses were likely associated with Jurassic and Cretaceous rift development. A later hydrothermal event related to a hypothesised intrusive-hosted gold system brought minor gold with new and redistributed silver, lead, zinc, copper, indium and gallium mineralization into the clastic rocks. The mineralized zone is up to 200 m in true width and is at least four kilometres long.

Keg Main Zone is distinguished from these other bulk tonnage deposits by its uncommonly high tin values.

Hammer Zone comprises narrow, precious metal-rich, sulphide-bearing, quartz veins hosted in granite belonging to the Anvil Batholith, 12 km east of the former Faro Mine. Mineralization is exposed in three deep recessive linear features on a steep hillside. On gentler slopes further uphill to the south, mineralization is sparse and is mostly found in frost boils. The Hammer

Zone is characterized as an epithermal vein, some of the most noteworthy examples of which can be found in the Pachuca Real Del Monte district in Mexico.

Lower parts of epithermal veins are typically restricted to a single fault plane that splays out higher in the system to become a broader zone of dispersed fractures. These veins and fractures may not reach the surface, limiting the effectiveness of prospecting. Silver grades within the veins are strongly zoned, the highest occurring near the centre of the system, defining a bonanza zone. In the Purisima-Colon vein system, the bonanza zone is 900 m long by 200 m high, averaging 1.5 kg/t (43.75 opt) silver (Dreier, 2005). Below the bonanza zone, silver values diminish and the vein becomes enriched in base metals. Silver and base metal values quickly fall off above the bonanza zone. During formation, temperatures were higher near the base of the vein system resulting in vertical zonation with enrichment of elements such as tin at the base, giving way to manganese and other lower temperature elements toward the top.

A more local analogy for the Hammer Zone is the system of silver-rich veins that comprise the Keno Hill Camp in central Yukon. This camp is the second largest primary silver producer in Canada, with more than 214 million ounces produced since the early 1900s (Cathro, 2006). Table 49 lists several of the similarities between Hammer Zone and Keno Hill Camp.

Table 49: Comparison of Hammer Zone and Keno Hill Vein Deposits

Variable	Hammer Zone	Keno Hill Veins
Wallrocks	Granite	Interlayered quartzite and schist
Primary Ore Minerals	Galena, tetrahedrite	Galena, tetrahedrite
Accessory Metals	Zn, As, Sb, Sn (Au)	Zn, As, Sb, Sn (Au)
Gangue Minerals	Siderite > quartz	Siderite > quartz
Oxidation	Up to 150 m below surface	Up to 100 m below surface
Vein Orientation	Steeply dipping	Steeply dipping
District Size	About 50 km^2	About 80 km^2
Average Grade	752 g/t (22 oz/ton) * up to 4620 g/t (135 oz/ton)	1373 g/t (40 oz/ton) but some exceptional ore shoots exceed 500 oz/ton
Average Ag:Pb Ratio	14 oz Ag/1% Pb*	Usually 3 oz Ag/1% Pb for galena and 6 oz Ag/1% Pb overall
Age	Mid or late(?) Cretaceous	Mid-Cretaceous
Ground Conditions	Homogeneous granite wallrocks could be positive for ground conditions and continuity	Heterogeneous wallrocks often result in poor ground conditions

*based upon 18 mineralized oxide and sulphide vein intersections to date

OTHER STUDIES

Environmental Studies

Environmental monitoring on the Property commenced in 2010 and is continuing. The monitoring includes ongoing baseline water quality and wildlife surveys.

The water quality surveys are being performed by J. Gibson Environmental Consulting of Whitehorse. Since August 2010, several sites on the Property have been sampled on a quarterly basis and as of October 2012, sampling frequency in the vicinity of Keg Main Zone was increased to monthly. The samples are analyzed for routine chemistry, total metals, dissolved metals, total organic carbon, total cyanide and mercury plus field measurements for pH, water temperature and flow volumes. In summer 2013, a water monitoring well was installed at the Hammer Zone. The most recent water quality reports can be found in Appendix VII.

In November 2012, a base station for monitoring climate was set up on the Property, near the Keg Main Zone.

In summer 2011, winter 2011-2012 and summer 2013, wildlife and vegetation surveys were conducted on the Property by Laberge Environmental Services of Whitehorse. These surveys are expected to be completed in early winter 2014.

Access Route Studies

In November 2012, EBA Engineering Consultants Ltd. was contracted to evaluate potential routes for an all-season access route from the Faro haul road to Keg Main Zone. This evaluation was completed in spring 2013.

INTERPRETATION AND CONCLUSIONS

The Keg Main Zone is a bulk-tonnage silver-lead-zinc-copper±tin±indium deposit situated north of the formerly producing zinc-lead-silver mines of the Anvil District. The inferred mineral resource for the Keg Deposit is calculated as 39,760,000 t grading 30.25 g/t silver, 0.26% lead, 0.77% zinc, 0.15% copper, 265.7 ppm tin, 5.77 ppm indium and 138.06 ppm cadmium. This resource is stated above a 16.0 g/t silver cut-off grade.

The deposit is distinguished from other large base metal showings and deposits elsewhere in Yukon by its uncommonly high silver contents relative to contained base metals and by its enrichments of tin, indium and other relatively rare metals. Metallurgical testwork has demonstrated that flotation processing can effectively recover most of the silver, copper, zinc, lead and indium. Tin recovery is poor.

The Keg Deposit is favourably situated in an area where several regional structural elements occur close together. This cluster of large-scale structures likely played an important role in ground preparation for the deposit. The mineralization is hosted in strongly altered and folded siliceous siltstone and chert, which may have been deformed by a buried thrust fault that failed to break through these units. During folding of siliceous siltstone and chert, small-scale fracturing produced permeability in the otherwise relatively impermeable rocks.

In addition to the ground preparation described above other elements probably played roles in the development of mineralization within the Keg Deposit. The folded and fractured siliceous siltstone and chert host rocks are interbedded with silty limestone and calcareous siltstone, which are the most reactive rocks in the area. Fluids channeling through the fractured siliceous

siltstone and chert likely flowed upwards or laterally into the reactive stratigraphy. A small intrusive plug located approximately two kilometres south of the deposit may have provided a local heat source that powered the mineralizing hydrothermal cell. Normal and dip-slip faults crosscut the folded siliceous siltstone and chert and may have acted as deep-seated fluid conduits that localized hydrothermal flow.

A number of other showings elsewhere on the Property exhibit geochemical signatures that resemble the Keg Main Zone. The Rebel Zone is the most advanced of these other showings and is similarly enriched in silver, lead, zinc, copper, indium and tin. Drilling to date at the Rebel Zone has been insufficient to adequately outline and characterize the mineralization; however, it is believed the potential exists for a significant bulk tonnage deposit.

Numerous high-grade epithermal silver veins have also been identified on the Property within the northerly Tay Trend and southerly Mount Mye Trend. Veins and breccias at the Hammer, Cody, Snap, Owl Southwest and Weld zones are all strongly enriched in silver, but also contain elevated tin and indium, both of which are uncommon in Yukon. The presence of tin and indium within both the vein and the bulk tonnage targets on the Property suggest that the two styles are related. The silver-rich veins may be distal or higher level expressions of bulk tonnage zones.

Some of the mineralization in the southeastern part of the Property is associated with contact metamorphism. At the Ku and Gauss zones, skarn mineralization replaces calcareous horizons adjacent to the Orchay Batholith. At the Marks Zone, skarn mineralization and hornfels alteration have been observed in areas where locally defined dyke float has been found. The soil geochemical signature is similar at the Ku and Marks zones.

The Property is very well situated in regards to infrastructure and, considering the numerous discoveries, further work is warranted.

RECOMMENDATIONS

Additional diamond drilling should be conducted to better define the mineral resource within the Keg Deposit. Additional metallurgical testwork should be also done and geotechnical, heritage and environmental studies should be continued.

Exploration should also continue to evaluate the other zones and geochemical anomalies on the Property. A number of the zones are drill-ready, but some targets should receive more comprehensive surface exploration before advancing to the drill-stage. Given the large number of zones and anomalies, this work is expected to take several years to complete.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED



Matthew R. Dumala, P.Eng.

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APPENDIX I

STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Matthew R. Dumala, geological engineer, with business addresses in Vancouver, British Columbia and Whitehorse, Yukon Territory and residential address in Burnaby, British Columbia, do hereby certify that:

1. I graduated from the University of British Columbia in 2002 with a B.A.Sc in Geological Engineering, Option l, mineral and fuel exploration.

2. I registered as a Professional Engineer in the Province of British Columbia on November 14, 2008 (License Number 32783).

3. From 2003 to present, I have been actively engaged in mineral exploration in the Yukon Territory.

4. I have personally participated in the fieldwork reported herein.



Matthew R. Dumala, P.Eng.

APPENDIX II

STATEMENT OF EXPENDITURES

Statement of Expenditures
Keg Group 1
March 13, 2014

Labour

M. Dumala – engineer – 2 days June to August at $768/day	$ 1,612.80
C. Chung – geologist – 16 days June to August at $696/day	11,692.80
J. Tarswell – geologist – 7 days June to August at $616/day	4,527.60
J. Morton – geologist – 6 days June to July at $544/day	3,427.20
I. Ames – geologist – 6 days June at $592/day	3,729.60
A. Graham – geologist – 7 days June at $512/day	3,763.20
L. Pryer – field assistant – 23 days July at $300/day	7,245.00
M. Rogers – field assistant – 23 days July at $300/day	7,245.00
A. Tuzlak – field assistant – 3 days June at $360/day	1,134.00
M. Van Loon – field assistant – 7 days June to July at $392/day	2,881.20
M. Crapper – field assistant – 5 days June to July at $344/day	1,806.00
L. Engles – field assistant – 40 days June to August at $464/day	19,488.00
M. Alban – field assistant – 18 days June to August at $408/day	7,711.20
	76,263.60

Expenses (incl. management)

Field room and board – 164 mandays at $135/day	25,106.76
J. Gibson Env. Consulting	80,464.07
SGS	11,816.28
Trans North Helicopters	84,434.62
	201,821.73

Total	$ 278,085.33

Statement of Expenditures
Keg Group 2
March 13, 2014

Labour

M. Dumala – engineer – 20 days March to December at $768/day	$ 16,128.00
A. Graham – geologist – 4.5 days June to July at $512/day	2,419.20
– 28 days March to May, October to November at $512/day	15,052.80
C. Chung – geologist – 4 days June to August at $696/day	2,923.20
– 40 days March to May, September to December at $696/day	29,232.00
I. Ames – geologist – 5 days June to July at $592/day	3,108.00
M. Van Loon – field assistant – 1 day June to July at $392/day	411.60
M. Crapper – field assistant – 4 days June to July at $344/day	1,444.80
L. Engles – field assistant – 5 days June to August at $464/day	2,436.00
M. Alban – field assistant – 5 days June to August at $408/day	2,142.00
A. Tuzlak – field assistant – 1 days June at $360/day	378.00
L. Pryer – field assistant – 6 days July to August at $300/day	1,890.00
M. Rogers – field assistant – 2 days July to August at $300/day	630.00
T. den Engelsen – field assistant – 6 days July at $424/day	2,671.20
A. Carne – office – 10.5 days March to December at $680/day	7,497.00
	88,363.80

Expenses (incl. management)

Field room and board – 101.5 mandays at $135/day	15,538.64
Top Rank Diamond Drilling	77,152.94
EBA	21,332.76
SKS Consulting	48,126.42
ALS	14,155.87
Trans North Helicopters	68,263.97
	244,570.60

Total	$ 332,934.40

Total 284 soil and rock samples = $1,172.30/sample

Statement of Expenditures
Keg Group 3
March 13, 2014

Labour

D. Eaton – geologist – 15 days March to December at $960/day	$ 15,840.00
A. Graham – geologist – 32.5 days June and July at $512/day	17,472.00
I. Ames – geologist – 22 days July at $592/day	13,675.20
J. Morton – geologist – 1 day June to July at $544/day	571.20
C. Chung – geologist – 26 days June to August at $696/day	20,462.40
A. Tuzlak – field assistant – 26 days June and July at $360/day	9,828.00
L. Engles – field assistant – 2 days June to August at $464/day	974.40
T. den Engelsen – field assistant – 21 days June and July at $424/day	9,349.20
M. Crapper – field assistant – 1 day June to July at $344/day	361.20
L. Pryer – field assistant – 12 day July to August at $300/day	3,780.00
M. Alban – field assistant – 19 days June to August at $408/day	8,139.60
	100,453.20

Expenses (incl. management)

Field room and board – 181.5 mandays at $135/day	27,785.84
Top Rank Diamond Drilling	80,369.14
ALS	13,513.74
Trans North Helicopters	61,185.77
	182,187.78

Total	$ 283,307.69

Total 232 soil and rock samples = $1,221.15/sample

Statement of Expenditures
Keg Group 4
March 13, 2014

Expenses (incl. management)

Field room and board – 9 mandays at $135/day	$ 1,377.81
J. Gibson Env. Consulting	9,443.34
Labarge	65,123.38
Fireweed Helicopters	6,337.44
Trans North Helicopters	54,544.61
	136,826.58
Total	$ 136,826.58

Statement of Expenditures
Keg Group 5
March 13, 2014

Labour

D. Eaton – geologist – 15 days March to December at $960/day	$ 15,120.00
M. Dumala – engineer – 33 days March to December at $768/day	26,611.20
A. Graham – geologist – 10 days June to August at $512/day	5,376.00
– 3 days October at $512/day	1,612.80
C. Chung – geologist – 2 days June to August at $696/day	1,461.60
I. Ames – geologist – 24 days June to August at $592/day	14,918.40
J. Morton – geologist – 4 days June to July at $544/day	2,284.80
J. Tarswell – geologist – 2 days June to August at $616/day	1,293.60
L. Engles – field assistant – 4 days June to August at $464/day	1,948.80
M. Alban – field assistant – 7 days June to August at $408/day	2,998.80
A. Tuzlak – field assistant – 14 days June to August at $360/day	5,292.00
M. Crapper – field assistant – 3 days June to July at $344/day	1,083.60
M. Van Loon – field assistant – 4 days June to July at $392/day	1,646.40
T. den Engelsen – field assistant – 4 days June to August at $424/day	1,780.80
R. Gibbons – field assistant – 16 days June and July at $480/day	8,064.00
M. Rogers – field assistant – 7 days July at $300/day	2,205.00
L. Pryer – field assistant – 9 days July at $300/day	2,835.00
S. Newman – office – 15 days March to December at $496/day	7,812.00
	102,883.20

Expenses (incl. management)

Field room and board – 139 mandays at $135/day	21,279.51
North Track Exploration	9,047.68
Mark Roden	8,640.00
J. Gibson Env. Consulting	22,687.58
Condor Consulting	9,661.95
Kappes, Cassiday & Associates	9,365.53
ALS	6,219.49
Trans North Helicopters	29,631.82
	116,983.56

Total	$ 219,866.76

Total 128 soil and rock samples = $1,717.71/sample

Statement of Expenditures
Keg Group 5A
March 13, 2014

Labour

A. Graham – geologist – 4 days June to August at $512/day	$ 2,150.40
I. Ames – geologist – 4 days June to August at $592/day	2,486.40
A. Tuzlak – field assistant – 4 days June to August at $360/day	1,512.00
T. den Engelsen – field assistant – 4 days June to August at $424/day	1,780.80
	7,929.60

Expenses (incl. management)

Field room and board – 60 mandays at $135/day	9,185.40
Top Rank Diamond Drilling	56,216.51
Trans North Helicopters	58,033.82
ALS	11,057.48
	134,493.21

Total	$ 142,422.81

Statement of Expenditures
Keg Group 7 (New)
Ku 1-440, 681-740, 809-880 Mineral Claims
August 2, 2013

Labour

D. Eaton – geologist – 8 hours June at $120/hr	$ 1,008.00
H. Burrell – geologist – 7 days June at $765/day	5,622.75
A. Graham – geologist – 19 days June at $510/day	10,175.50
T. den Engelsen – field assistant – 19 days at $425/day	8,478.75
A/ Tuzlak – field assistant – 19 days at 357day	7,122.15
	32,407.15

Expenses (incl. management)

Field room and board – 65 mandays at $130/day	9,582.30
Trans North Helicopters – 9 hours Bell 206 @ $990/hr plus fuel	11,849.18
ALS Chemex	10,548.13
	31,979.61

Total	$64,386.76

APPENDIX III

SAMPLING METHODS AND ANALYTICAL PROCEDURES

Sampling Methods

Grid soil samples were collected at 50 m intervals along lines spaced 100 m apart. All soil sample locations were recorded using hand-held GPS units. Sample sites are marked by aluminum tags inscribed with the sample numbers and affixed to 0.5 m wooden lath that were driven into the ground. Soil samples were collected from 10 to 80 cm deep holes using hand-held augers. They were placed into individually pre-numbered Kraft paper bags. Sampling was often hindered by permafrost on moss-covered, north-facing slopes. Samples were not collected from many of these locations due to poor sample quality.

Rock sample sites were marked with orange flagging tape labeled with the sample number. The location of each sample was determined using a handheld GPS unit.

Geotechnical and geological logging was performed on all drill core from the 2010 to 2013 programs. A geotechnical log was filled out prior to geological logging of drill core and included the conversion, where needed, of drill marker blocks from imperial to metric and determinations of recovery, rock quality designations (RQD), hardness and weathering. Wetted core photographs were taken and catalogued prior to logging.

A sample was collected every six boxes for density measurements using both wet and dry evaluation methods to provide base level density data for resource evaluation. Magnetic susceptibility measurements were taken at one metre intervals along each hole.

All logging data were recorded as a hardcopy during the day and transcribed to digital format during the evenings.

Drill core samples were collected using the following procedures:

1) Core was reassembled, lightly washed and measured.
2) Core was photographed.
3) Core was geotechnically logged.
4) Core was geologically logged and sample intervals were designated. Sample intervals were set at geological boundaries, drill blocks or sharp changes in sulphide content.
5) Core recovery was calculated for each sample interval.
6) In 2010, visually promising core intervals were sawn in half using a rock saw and the remainder was split with an impact core splitter. In 2011 and 2012, all core was sawn in half. One-half was sent for analysis and one-half returned to the core box. In 2013, only visually promising core intervals were sawn in half using a rock saw and the remainder left unsampled.
7) Samples were double bagged in 6 mm plastic bags, a sample tag was placed in each sample bag, then two or three samples were placed in a fiberglass bag sealed with a metal clasp and sample numbers were written on the outside of that bag with permanent felt pen. The fibreglass bag was sealed with a numbered security tag.
8) Two blank and two standard samples were randomly included in every batch of 31 core samples (in 2012 and 2013, batches comprised 30 core samples).

9) One quarter-split duplicate sample was included in every batch of 31 core samples (in 2012 and 2013, batches comprised 30 core samples).
10) In 2012 and 2013, one coarse reject duplicate sample was included in every batch of 30 core samples.

Core recovery is generally good, averaging 96% for the 2010 to 2012 drill programs at the Keg Main Zone. Holes within the Keg Main zone were mostly sampled top to bottom (about 90% of core was sampled), while only visually promising intervals were sampled from holes within other zones. Care was taken to ensure that the sample split was not biased to sulphide content and, therefore, the sampling should be reliable and representative of the mineralization.

Reverse circulation chip samples, taken in 2012, encompassed five foot (1.52 m) intervals. All holes were continuously sampled from top to bottom. Samples were transported by ATV from the drill sites to a logging tent located on site. Approximately 200 g of chip material from each sample was washed, sieved to 8-mesh and transferred into a labelled chip tray for logging and future reference. Each interval was logged using a binocular microscope.

Sample Handling and Security

In 2010, the drill core was flown by helicopter from the drill sites to the company's staging area at the Faro airport, where it was transferred to a truck and transported to Whitehorse for logging and sampling. In 2011 thru 2013, the core was flown by helicopter from the drill sites to a logging and sampling area on the Property. The samples were later flown by helicopter to the Faro airport and transported to Whitehorse by truck. All samples were controlled by employees of Archer Cathro until they were delivered directly to ALS Minerals' laboratory in Whitehorse for preparation. ALS Minerals was responsible for shipping the prepared sample splits to its North Vancouver laboratory, where they were analyzed.

Archer Cathro ensured that a Chain of Custody form accompanied all batches of drill core during transportation from the Property to the laboratory. A unique security tag was attached to each individual fibreglass bag when the bag was sealed. The bags and security tags had to be intact in order to be delivered to ALS Minerals.

Sample Analysis

All samples were sent to ALS Minerals' laboratory in Whitehorse for preparation and then on to its laboratory in North Vancouver for analysis. ALS Minerals, a wholly owned subsidiary of ALS Limited, is an independent commercial laboratory specializing in analytical geochemistry services. Both ALS Minerals' Whitehorse and North Vancouver laboratories are individually certified to standards within ISO 9001:2008. The North Vancouver laboratory has also received accreditation to ISO/IEC 17025:2005 from the Standards Council of Canada for several analytical methods.

All 2010 to 2013 soil samples were dried and screened to -180 microns. The 2010 soil samples were analyzed for 35 elements by aqua regia digestion followed by inductively coupled plasma with atomic emission spectroscopy (ME-ICP41). An additional 30 g charge was further

analyzed for gold by fire assay with inductively coupled plasma-atomic emissions spectroscopy finish (Au-ICP21). The samples were reanalyzed for 51 elements by aqua regia digestion followed by inductively coupled plasma combined with mass spectroscopy or atomic emission spectroscopy (ME-MS41).

The 2011 soil samples were analyzed for 51 elements using aqua regia digestion followed by inductively coupled plasma combined with mass spectroscopy or atomic emission spectroscopy (ME-MS41). Soil samples were further analyzed for gold by aqua regia digestion followed by inductively coupled mass spectrometry (Au-TL43).

The 2012 and 2013 soil samples were analyzed for 51 elements using aqua regia digestion followed by inductively coupled plasma combined with mass spectroscopy or atomic emission spectroscopy (ME-MS41). An additional 30 g charge was further analyzed for gold by fire assay with inductively coupled plasma-atomic emissions spectroscopy finish (Au-ICP21).

All 2010 to 2013 rock and core samples were dried, fine crushed to better than 70% passing -2 mm and then a 250 g split was pulverized to better than 85% passing 75 microns.

The 2010 rock and core samples were initially analyzed for gold by fire assay followed by atomic absorption (Au-AA24) and 35 other elements using aqua regia digestion followed by inductively coupled plasma-atomic emission spectroscopy (ME-ICP41). Samples in mineralized intervals were later assayed for silver, zinc, lead and copper (Ag/Zn/Pb/Cu-OG62); geochemically analyzed for 51 elements (which include common refractory elements) by aqua regia digestion followed by inductively coupled plasma combined with mass spectroscopy or atomic emission spectroscopy (ME-MS41); and analyzed for tin and tungsten by pressed pellet XRF (Sn/W-XRF05).

The 2011 rock and core samples were analyzed for 51 elements by aqua regia digestion followed by inductively coupled plasma combined with mass spectroscopy or atomic emission spectroscopy (ME-MS41) and tin using pressed pellet XRF (Sn-XRF05). Samples that exceeded upper detection limits were assayed for silver, zinc, lead and/or copper by Ag/Zn/Pb/Cu-OG46. From the beginning of the program until late July, the core samples were analyzed for gold by aqua regia and mass spectroscopy (Au-TL44). During the QA/QC review, there were difficulties reproducing gold values from standard samples analyzed by this technique. These difficulties, combined with more severe problems encountered using the Au-TL44 technique on other projects with higher gold contents (conducted by another company managed by Archer Cathro) lead Silver Range to change techniques. The difficulties involved understatement of gold contents. For the remainder of the program, the core samples were analyzed for gold by fire assay followed by atomic absorption (Au-AA24).

The 2012 and 2013 rock and core samples were routinely analyzed for gold by fire assay followed by atomic absorption (Au-AA24), tin using pressed pellet XRF (Sn-XRF05) and for 48 other elements using four acid digestion followed by inductively coupled plasma-mass spectroscopy (ME-MS61). Samples in mineralized intervals that exceeded the upper detection limits were assayed for silver, zinc, lead and copper by inductively coupled plasma-atomic emission spectroscopy (Ag/Pb/Zn/Cu-OG62).

All 2010 to 2013 standard, blank and duplicate samples passed QA/QC reviews.

DATA VERIFICATION

Database

Geological and geotechnical logging prior to 2012 was initially recorded as a hardcopy and then transcribed into MS Excel®. In 2012 and 2013, logging was recorded as a hardcopy and then entered into a MS SQL Server® database. All of the pre-2012 data has been transferred to the database.

Visual comparison of hardcopy data and digital data was conducted on select holes to ensure accuracy. Any discrepancies identified by this process were investigated, by examining the core stored on the Property, and corrected.

Collar Locations

All drill hole collars at the Keg Main and East Zones were re-surveyed in 2012 using a Trimble RTK GPS system and, where necessary, survey data collected in previous years was corrected. The differences between this most recent survey and the earlier surveys can be explained by the poorer accuracy of the hand held equipment used in previous years. Drill hole collars at the Rebel, Owl Southwest, Vent and Hammer Zones have also been surveyed using the RTK GPS system.

The collar data stored in the MS SQL Server® database have been visually cross-checked with the digital survey reports generated by the Trimble system. No errors were found.

Down-hole Orientations

Prior to 2011, no down-hole azimuth measurements were made and dip deviations were measured using an acid test at the bottom of each hole. This practice does not follow industry standards, but due to the limited number of holes (four) and shallow depths (all but one less than 255 m), the Author does not consider this to be a significant issue.

Original 2011 to 2013 survey data obtained from the survey tools in CSV format has been imported directly into the MS SQL Server® database. All of the down-hole data was visually inspected and erroneous data has been omitted.

Assays

Assay certificates, for all of the drilling done to date, were obtained from ALS Minerals in CSV format and imported directly into the MS SQL Server® database. Spot checking of data within the database to hard copy certificates issued by ALS Minerals has not revealed any issues.

Samples from the diamond drilling programs were subjected to a QA/QC program designed by Archer Cathro for Silver Range. The QA/QC program consisted of:

1) Sequentially numbered sample tickets: to identify each sample with a unique number to minimize the possibility of sample numbering errors and to ensure uniform collection of sample data.
2) Sealed sample bags: to secure individual sample bags in order to reduce the possibility of sample contamination, spilling or tampering.
3) Chain of custody: samples were stored in a secure preparation area and delivered to the laboratory directly by Archer Cathro personnel.
4) Sample duplicates: select samples were quartered and re-submitted for assay. In addition, duplicates of coarse reject material of select 2012 and 2013 samples were re-submitted for assay.
5) Sample blanks: commercial samples were purchased and inserted in the sample sequence. All blank samples yielded background values, including samples inserted directly following a "standard" value to test for "smear effect" during the sample preparation process, indicating no observable contamination. These blanks were assigned unique sample numbers within the sample sequence so as to be "blind" to the laboratory.
6) Reference standard samples: commercially available standard samples for silver, copper, lead and zinc were purchased for the 2010 and 2011 drill program. Four standards were prepared from coarse reject material from the 2011 core samples for use during the 2012 and 2013 drill programs. Standards were assigned a unique sample number within the sample sequence.

Samples from the reverse circulation drill program were group into batches encompassing an entire hole. Sample batches ranged from 25 to 42 samples depending on the length of hole. One standard and one blank was inserted randomly into batches exceeding 30 samples.

All of the samples have passed this QA/QC program.

APPENDIX IV

ROCK SAMPLE DESCRIPTIONS

Rock Sample Descriptions Property: Archimedes

Sample Number:	M676929	UTM:	603746	mE	Nad83, Zone 8
Elevation:	1470 m	UTM:	6933741	mN	
Comments:	Silica recrystallized medium-grained limey sandstone with galena, sphalerite, pyrite, and arsenopyrite (~2% sulphides). Bedrock grab.				

Sample Number:	M676930	UTM:	604188	mE	Nad83, Zone 8
Elevation:	1722 m	UTM:	6933752	mN	
Comments:	Bedrock composite 10 pieces over 3x3m in hinge of fold? Limonite fill in fractures of medium grey chert.				

Sample Number:	M676931	UTM:	604237	mE	Nad83, Zone 8
Elevation:	1754 m	UTM:	6933816	mN	
Comments:	Near source composite (10 pieces over 2x2m). Brecciated chert with ~40% limonite, goethite.				

Sample Number:	M676932	UTM:	604252	mE	Nad83, Zone 8
Elevation:	1767 m	UTM:	6933970	mN	
Comments:	Float grab. ~60% limonite, 5% goethite in quartz vein material ?				

Sample Number:	M676933	UTM:	604213	mE	Nad83, Zone 8
Elevation:	1773 m	UTM:	6934068	mN	
Comments:	Float grab, similar material in area. Limonite brecciated light grey chert.				

Sample Number:	M676934	UTM:	603008	mE	Nad83, Zone 8
Elevation:	1457 m	UTM:	6934696	mN	
Comments:	Bedrock grab. Oxidized quartzite with minor vuggy limonite.				

Rock Sample Descriptions Property: Drex

Sample Number:	K280901	UTM:	598111	mE	Nad83, Zone 8
Elevation:	1356 m	UTM:	6937752	mN	
Comments:	Bedrock and float composite (10 pieces over 5x5m). Siliceous oxidized teal chert with mm-scale bands of sulphides (pyrrhotite ~.1%).				

Sample Number:	K280902	UTM:	598125	mE	Nad83, Zone 8
Elevation:	1374 m	UTM:	6937531	mN	
Comments:	Float grab. Chert breccia with ~10% limonite in matrix. ~5% quartz vein material.				

Sample Number:	K280903	UTM:	598127	mE	Nad83, Zone 8
Elevation:	1375 m	UTM:	6937530	mN	
Comments:	Bedrock grab. Medium grey chert with vuggy quartz veinlets, minor sulphides throughout. Limonite and white powder (hydrozincite?) on fracture surfaces.				

Sample Number:	K280904	UTM:	598408	mE	Nad83, Zone 8
Elevation:	1387 m	UTM:	6937484	mN	
Comments:	Near source float composite (15 pieces over 4x4m). Grungy yellow bleached light chert with oxidation concentrated around mm-scale fractures.				

Sample Number:	K280905	UTM:	598397	mE	Nad83, Zone 8
Elevation:	1278 m	UTM:	6937800	mN	
Comments:	Fractured oxidized chert with quartz veining and intense dark red and orange alteration. Bedrock grab. Fine arsenopyrite in sub-mm crackle veinlets (.1%).				

Sample Number:	K280906	UTM:	597602	mE	Nad83, Zone 8
Elevation:	1360 m	UTM:	6938171	mN	
Comments:	Bedrock grab. Fractured and oxidized limonitic heavy material in chert fold axes.				

Rock Sample Descriptions Property: Drex

Sample Number:	L840370	UTM:	597898	mE	Nad83, Zone 8
Elevation:	1573 m	UTM:	6937445	mN	
Comments:					

Sample Number:	L840371	UTM:	598015	mE	Nad83, Zone 8
Elevation:	1575 m	UTM:	6937695	mN	
Comments:					

Sample Number:	L840372	UTM:	598568	mE	Nad83, Zone 8
Elevation:	1316 m	UTM:	6937837	mN	
Comments:					

Sample Number:	L840373	UTM:	598675	mE	Nad83, Zone 8
Elevation:	1397 m	UTM:	6937386	mN	
Comments:					

Rock Sample Descriptions Property: Euclid

Sample Number:	L840429	UTM:	602703 mE	Nad83, Zone 8	
Elevation:	1780 m	UTM:	6931374 mN		
Comments:					

Sample Number:	L840430	UTM:	602716 mE	Nad83, Zone 8	
Elevation:	1762 m	UTM:	6931093 mN		
Comments:					

Sample Number:	L840431	UTM:	602704 mE	Nad83, Zone 8	
Elevation:	1769 m	UTM:	6931325 mN		
Comments:					

Sample Number:	L840432	UTM:	602699 mE	Nad83, Zone 8	
Elevation:	1788 m	UTM:	6931435 mN		
Comments:					

Sample Number:	M676908	UTM:	602569 mE	Nad83, Zone 8	
Elevation:	1725 m	UTM:	6931700 mN		
Comments:	Float grab of granule to pebble black shiny breccia with yellow clays and limonite vugs in matrix. Sample from rhyolite/seds contact, but may be altered obsidian quartz porphyry.				

Sample Number:	M676935	UTM:	602380 mE	Nad83, Zone 8	
Elevation:	1585 m	UTM:	6931887 mN		
Comments:	Float grab. Breccia/quartz vein material with grungy yellow alteration, ~10% limonite, ~2% disseminated arsenopyrite in fine-grained grey quartzose sediment fragments.				

Sample Number:	M676936	UTM:	602142 mE	Nad83, Zone 8	
Elevation:	1537 m	UTM:	6931914 mN		
Comments:	Bedrock grab. ~50% limonite in quartz altered sediments, from 'fault' structure.				

Rock Sample Descriptions Property: Euclid

Sample Number:	M676937	UTM:	602284	mE	Nad83, Zone 8
Elevation:	1581 m	UTM:	6931620	mN	
Comments:	Quartzose siltstone with ~3% arsenopyrite, weathered to limonite and dark purple tarnish. Near source float composite (12 pieces over 2x2m area).				

Sample Number:	M676938	UTM:	602680	mE	Nad83, Zone 8
Elevation:	1756 m	UTM:	6931428	mN	
Comments:	Float (~in situ) composite (15 pieces over 3x3m). Limonitic gossan, fractured hornfelsed siltstone? Above shale contact away from rhyolite plug.				

Sample Number:	M676939	UTM:	602700	mE	Nad83, Zone 8
Elevation:	1780 m	UTM:	6932134	mN	
Comments:	Float composite (5 pieces, 2x4m). Punky quartzose and limonite material in altered sediments.				

Sample Number:	M676940	UTM:	602656	mE	Nad83, Zone 8
Elevation:	1769 m	UTM:	6932178	mN	
Comments:	Bedrock grab from limonitic/ goethite brecciated fault (30cm thick) in hornfelsed sediments.				

Sample Number:	M676941	UTM:	602592	mE	Nad83, Zone 8
Elevation:	1747 m	UTM:	6932234	mN	
Comments:	Near-source float composite (8 pieces, 2x2m). Fractured, hornfelsed quartzose siltstone with limonite in fractures (~5%).				

Sample Number:	M676942	UTM:	602511	mE	Nad83, Zone 8
Elevation:	1699 m	UTM:	6932209	mN	
Comments:	Bedrock composite (10 pieces, 3x3m). Gossanous altered siltstone associated with heavy fracturing.				

Rock Sample Descriptions Property: Euclid

Sample Number:	M676943	UTM:	602263	mE	Nad83, Zone 8
Elevation:	1500 m	UTM:	6932053	mN	

Comments: Bedrock composite (10 pieces, 5x5m). Extensively limonite weathered (~70%) breccia in altered quartzose siltstone in fault structure (5m wide).

Rock Sample Descriptions Property: Hammer

Sample Number:	L840313	UTM:	595574	mE	Nad83, Zone 8
Elevation:	1573 m	UTM:	6918361	mN	
Comments:	Quartz-monzo-diorite with ~2% muscovite.E side of alteration associated with mineralized vein.				

Sample Number:	L840314	UTM:	595574	mE	Nad83, Zone 8
Elevation:	1573 m	UTM:	6918360	mN	
Comments:	Oxidized quartz-monzo-diorite adjacent to mineralized vein.				

Sample Number:	L840315	UTM:	595572	mE	Nad83, Zone 8
Elevation:	1573 m	UTM:	6918360	mN	
Comments:	Dark grey friable rock with metallic lustre, abundant muscovite, biotite, and sphalerite (~1%).				

Sample Number:	L840316	UTM:	595571	mE	Nad83, Zone 8
Elevation:	1574 m	UTM:	6918360	mN	
Comments:	West periphery of mineralized vein, quartz-monzo-diorite with abundant (>5%) muscovite.				

Sample Number:	L840317	UTM:	595569	mE	Nad83, Zone 8
Elevation:	1574 m	UTM:	6918360	mN	
Comments:	Quartz-monzo-diorite, relatively unaltered on western margin of mineralized vein.				

Rock Sample Descriptions Property: Hammer Region

Sample Number:	K280911	UTM:	595806	mE	Nad83, Zone 8
Elevation:	1851 m	UTM:	6916915	mN	

Comments: Float grab from plateau between rocky ridges. Muscovite-biotite granite with moderate iron oxidation, ,1% limonite. Dark purple tarnish on weathered surface.

Sample Number:	K280912	UTM:	595473	mE	Nad83, Zone 8
Elevation:	1862 m	UTM:	6915196	mN	

Comments: Float grab. Oxidized and friable muscovite-biotite granite with ~1% clay alteration and limonite in voids.

Sample Number:	K280913	UTM:	595502	mE	Nad83, Zone 8
Elevation:	1868 m	UTM:	6915051	mN	

Comments: Float grab. Quartz rhodochrosite coarse-grained vein with oxidized dark stringers ~10%.

Sample Number:	K280914	UTM:	595262	mE	Nad83, Zone 8
Elevation:	1925 m	UTM:	6914926	mN	

Comments: Near-source float composite (5 pieces over 2x2m). Pegmatitic quartz veining with ~10% muscovite with oxidized and limonitic seams and manganese stain.

Sample Number:	K280915	UTM:	595252	mE	Nad83, Zone 8
Elevation:	1928 m	UTM:	6914902	mN	

Comments: Float grab. Muscovite-biotite schist with limonite in sub-cm blebs.

Sample Number:	K280916	UTM:	595263	mE	Nad83, Zone 8
Elevation:	1911 m	UTM:	6914768	mN	

Comments: Float grab. Clay altered granite with ~10% limonite in mm-scale vugs

Sample Number:	K280917	UTM:	595195	mE	Nad83, Zone 8
Elevation:	1947 m	UTM:	6914683	mN	

Comments: Float composite ~10 pieces over 5m along base of outcrop. Quartz-brecciated grey rock with ~15% limonite in vugs.

Rock Sample Descriptions Property: Hammer Region

Sample Number:	K280918	UTM:	595206	mE	Nad83, Zone 8
Elevation:	1949 m	UTM:	6914658	mN	
Comments:	Near-source float composite (10 piees over 3x3m). Dark red and orange biotite schist with ~3% arsenopyrite, 5% limonite in stringers.				

Sample Number:	K280919	UTM:	595254	mE	Nad83, Zone 8
Elevation:	1952 m	UTM:	6914602	mN	
Comments:	Float grab. Very rubbly and oxidized material with quartz fragments, running adjacent to altered and quartz-veined green calcareous gneiss outcrop.				

Sample Number:	K280920	UTM:	595454	mE	Nad83, Zone 8
Elevation:	1893 m	UTM:	6914428	mN	
Comments:	Bedrock grab. Grotty oxidized quartz vein and fine-grained biotite-granite.				

Sample Number:	K280921	UTM:	595547	mE	Nad83, Zone 8
Elevation:	1913 m	UTM:	6914262	mN	
Comments:	Near source float composite (10 pieces, 3x3m). Pale green weakly foliated variably calcareous metasedimentary rock with ~20% quartz crystals, with transluscent honey brown tourmaline.				

Sample Number:	K280922	UTM:	593123	mE	Nad83, Zone 8
Elevation:	1627 m	UTM:	6916573	mN	
Comments:	Float grab from boulder pile of muscovite-biotite granite. (Material may be transported). Limonite weathered fine-grained crystalline quartz and calcite with cm-scale quartz veining. Fine muscovite ubiquitous. Very fine sulphides? Quite heavy.				

Sample Number:	K280923	UTM:	593124	mE	Nad83, Zone 8
Elevation:	1626 m	UTM:	6916574	mN	
Comments:	Float grab from boulder pile of muscovite-biotite granite. Very fine-grained dark teal rock with small-scale crackle veinlets and deformation textures (andesite?) ~5% very fine sulphides and arsenopyrite in mm-scale clusters and swales. Heavy.				

Rock Sample Descriptions Property: Hammer Region

Sample Number:	K280924	UTM:	595198	mE	Nad83, Zone 8
Elevation:	1955 m	UTM:	6914682	mN	

Comments: Float composite (10 pieces over 3x3m). Schistose silica recrystallized dark grey sediments with moderate oxidation, cm-scale quartz veining. Dark red and purple tarnish, minor limonite.

Sample Number:	L840380	UTM:	595196	mE	Nad83, Zone 8
Elevation:	1921 m	UTM:	6914686	mN	

Comments: Chip sample over 5m. Limonitic and goethitic heavy breccia with quartz matrix support of dark grey cobbles.

Sample Number:	L840381	UTM:	595202	mE	Nad83, Zone 8
Elevation:	1957 m	UTM:	6914698	mN	

Comments: Chip over 5m. Oxidized muscovite-biotite granite, fine-grained subcrop adjacent to seds contact.

Sample Number:	L840382	UTM:	595197	mE	Nad83, Zone 8
Elevation:	1955 m	UTM:	6914664	mN	

Comments: Chip over 3m normal to deformed foliation. Interlayered biotite schist and silicified sediments, pale green gneiss. Minor clay alteration.

Sample Number:	L840383	UTM:	595216	mE	Nad83, Zone 8
Elevation:	1955 m	UTM:	6914639	mN	

Comments: Chip over 3m normal to foliation. Predominantly pale green calcareous gneiss with minor biotite schist layers, oxidized.

Sample Number:	L840384	UTM:	595200	mE	Nad83, Zone 8
Elevation:	1954 m	UTM:	6914661	mN	

Comments: Chip over 3m. Subcrop of oxidized grotty quartz vein with slender prismatic amphiboles <5%.

Sample Number:	M676960	UTM:	597263	mE	Nad83, Zone 8
Elevation:	1764 m	UTM:	6913295	mN	

Comments: Biotite-quartz schist adjacent to highly oxidized zone containing propyllitic alteration. Abundant limonite.

Rock Sample Descriptions Property: Hammer Region

Sample Number:	M676961	UTM:	597263	mE	Nad83, Zone 8
Elevation:	1763 m	UTM:	6913294	mN	
Comments:	Propyllitic alteration adjacent to biotite-quartz schist.				

Sample Number:	M676962	UTM:	597191	mE	Nad83, Zone 8
Elevation:	1743 m	UTM:	6913278	mN	
Comments:	Float sample of zone containing propyllitic alteration.				

Sample Number:	M676963	UTM:	596765	mE	Nad83, Zone 8
Elevation:	1557 m	UTM:	6913545	mN	
Comments:	Oxidized horizon of biotite-quartz schist in association with 50 cm thick quartz vein.				

Sample Number:	M676964	UTM:	596100	mE	Nad83, Zone 8
Elevation:	1708 m	UTM:	6913872	mN	
Comments:	Non-calcareous gneiss adjacent to quartz vein. Abundant limonite and what appears to be sulphur salts.				

Rock Sample Descriptions Property: IX

Sample Number:	M676954	UTM:	597618	mE	Nad83, Zone 8
Elevation:	1437 m	UTM:	6935047	mN	
Comments:	Oxidized interbedded shale and chert. No visible sulphides however the rock was quite dense.				

Sample Number:	M676955	UTM:	597618	mE	Nad83, Zone 8
Elevation:	1437 m	UTM:	6935047	mN	
Comments:	Oxidized interbedded shale and chert. No visible sulphides however the rock was quite dense.				

Sample Number:	M676956	UTM:	597155	mE	Nad83, Zone 8
Elevation:	1735 m	UTM:	6934657	mN	
Comments:	Oxidized siliceous siltstone wit extensive quartz veinlets.				

Sample Number:	M676957	UTM:	596776	mE	Nad83, Zone 8
Elevation:	1537 m	UTM:	6934881	mN	
Comments:	Siliceous recrystallized chert that is extensively oxidized.				

Sample Number:	M676958	UTM:	596868	mE	Nad83, Zone 8
Elevation:	1450 m	UTM:	6935004	mN	
Comments:	Sampled from outcrop of very oxidized shale. Limonite is found extensively on surface and density of rock indicates the possibility of sulphides, although no visible were observed.				

Sample Number:	M676959	UTM:	596873	mE	Nad83, Zone 8
Elevation:	1455 m	UTM:	6935009	mN	
Comments:	Sampled from outcrop of very oxidized shale. Limonite is found extensively on surface and density of rock indicates the possibility of sulphides, although no visible were observed. 5-10 cm quartz veins, also showing extensive oxidation, were found to run parallel with bedding.				

Rock Sample Descriptions Property: Keg

Sample Number:	L840309	UTM:	586589	mE	Nad83, Zone 8
Elevation:	1108 m	UTM:	6940318	mN	

Comments: Highly altered, oxidized, and fractured fine-grained siliceous siltstone. Outcrop contains chalcopyrite, pyrrhotite, sphalerite and galena locally in clusters (~.5%), as well as bright turquoise clay minerals. Representative sample taken up the height of outcrop.

Sample Number:	L840310	UTM:	586641	mE	Nad83, Zone 8
Elevation:	1098 m	UTM:	6940357	mN	

Comments: Grungy yellow (As-oxide?) alteration surrounding fracture in highly altered and oxidized grey siliceous siltstone.

Sample Number:	L840311	UTM:	586640	mE	Nad83, Zone 8
Elevation:	1097 m	UTM:	6940359	mN	

Comments: Altered siliceous siltstone with ~2% galena, grains up to 2mm.

Sample Number:	L840312	UTM:	586643	mE	Nad83, Zone 8
Elevation:	1098 m	UTM:	6940358	mN	

Comments: Oxidized, altered, fractured siliceous siltstone with galena veinlets, sphalerite crystals (~.01%) and disseminated pyrite. Taken as a representative sample over 4 x 4m of relatively homogeneous outcrop.

Rock Sample Descriptions Property: Keg South

Sample Number:	L840301	UTM:	586310	mE	Nad83, Zone 8
Elevation:	1043 m	UTM:	6937275	mN	
Comments:	Quartzite with sparse pebble clasts, foliated. Disseminated pyrite and arsenopyrite.				

Sample Number:	L840302	UTM:	585851	mE	Nad83, Zone 8
Elevation:	1035 m	UTM:	6937288	mN	
Comments:	Oxidized and pitted angluar boulders, Xline quartzite with muscovite, biotite, white weathering.				

Sample Number:	L840303	UTM:	585504	mE	Nad83, Zone 8
Elevation:	1081 m	UTM:	6937007	mN	
Comments:	Strongly magnetic shale with abundant muscovite and biotite, recrystallized texture.				

Sample Number:	L840304	UTM:	585562	mE	Nad83, Zone 8
Elevation:	1070 m	UTM:	6937018	mN	
Comments:	Granule resistant black (qtz?pyroxenes?)and qtz. Angular grains with Ca cement.				

Sample Number:	L840305	UTM:	585891	mE	Nad83, Zone 8
Elevation:	1133 m	UTM:	6936564	mN	
Comments:	Light green 'sugary' textured silica rich rock with minor foliation. Minor muscovite disseminated throughout: greenschist metapelitics?				

Sample Number:	L840307	UTM:	586360	mE	Nad83, Zone 8
Elevation:	1039 m	UTM:	6937127	mN	
Comments:	Oxidized and white weathered fault gouge in shale: chlorite, arsenic oxide, arsenopyrite, py.				

Rock Sample Descriptions Property: Ku

Sample Number:	L840332	UTM:	625480	mE	Nad83, Zone 8
Elevation:	1608 m	UTM:	6918009	mN	
Comments:	Defrmed whiteish yellow material (quartz and calcite, sheelite?) in fracture of intensely deformed and oxidized limey siltstone.				

Sample Number:	L840333	UTM:	625659	mE	Nad83, Zone 8
Elevation:	1634 m	UTM:	6917985	mN	
Comments:	Intensely oxidized and altered siltstone adjacent to quartzolite. Quartz replacement, pale violet sheen. Sampled across bedding for 5m.				

Sample Number:	L840334	UTM:	625843	mE	Nad83, Zone 8
Elevation:	1705 m	UTM:	6917916	mN	
Comments:	Rust quartz at metaseds contact. Sampled over 1m.				

Sample Number:	L840335	UTM:	625843	mE	Nad83, Zone 8
Elevation:	1705 m	UTM:	6917916	mN	
Comments:	Altered, oxidized siltstone at contact of intrusive. Sampled over 2m.				

Sample Number:	L840336	UTM:	625846	mE	Nad83, Zone 8
Elevation:	1714 m	UTM:	6917210	mN	
Comments:	Calcite flooded siltstone above contact with intrusion. Not pervasively altered. Sampled every 30cm for 2m.				

Sample Number:	L840337	UTM:	625736	mE	Nad83, Zone 8
Elevation:	1705 m	UTM:	6917246	mN	
Comments:	Slate/foliated siltstone with quartz banding, folded. Sampled across bedding for 3m.				

Sample Number:	L840338	UTM:	625698	mE	Nad83, Zone 8
Elevation:	1711 m	UTM:	6917209	mN	
Comments:	Slaty grey rock with minor oxidation, fine disseminate sulphides.				

Rock Sample Descriptions Property: Ku

Sample Number:	L840339	UTM:	625538	mE	Nad83, Zone 8
Elevation:	1680 m	UTM:	6917298	mN	
Comments:	Vuggy quartz and calcite in altered, oxidize sediments				

Sample Number:	L840340	UTM:	625470	mE	Nad83, Zone 8
Elevation:	1655 m	UTM:	6917296	mN	
Comments:	Dark altered, oxidized siltstone with pale violet sheen and limonitic coating.				

Sample Number:	L840341	UTM:	625589	mE	Nad83, Zone 8
Elevation:	1615 m	UTM:	6918016	mN	
Comments:	MG epidote-garnet +-diopside skarn.				

Sample Number:	L840342	UTM:	625578	mE	Nad83, Zone 8
Elevation:	1740 m	UTM:	6916973	mN	
Comments:	Completely altered, oxidized rock immediately adjacent to felsic intrusive.				

Sample Number:	L840343	UTM:	625914	mE	Nad83, Zone 8
Elevation:	1644 m	UTM:	6918350	mN	
Comments:	Light grey quartz swaley laminated siltstone with limonite alteration.				

Sample Number:	L840344	UTM:	625674	mE	Nad83, Zone 8
Elevation:	1658 m	UTM:	6917996	mN	
Comments:	Quartz pebble breccia with swaley aphanitic black matrix and pitted limonite.				

Sample Number:	L840345	UTM:	625973	mE	Nad83, Zone 8
Elevation:	1714 m	UTM:	6917888	mN	
Comments:	Coral weathered quartz pebble breccia.				

Rock Sample Descriptions Property: Ku

Sample Number:	L840346	UTM:	625973	mE	Nad83, Zone 8
Elevation:	1714 m	UTM:	6917888	mN	
Comments:	Quartzose siltstone with porous vugs.				

Sample Number:	L840347	UTM:	625820	mE	Nad83, Zone 8
Elevation:	1703 m	UTM:	6918137	mN	
Comments:	Dark red/orange limonite/hornfels manganese mineralized vFG siltstone.				

Sample Number:	L840348	UTM:	625684	mE	Nad83, Zone 8
Elevation:	1600 m	UTM:	6918275	mN	
Comments:	Fine-grained siliceous siltstone with honey sphalerite on fractures and fine blebby pyrrhotite.				

Sample Number:	L840349	UTM:	625152	mE	Nad83, Zone 8
Elevation:	1748 m	UTM:	6916864	mN	
Comments:	Specimen sample near tungsten soil anomaly. Limonite and goethite bands, very oxidized, but still has weight. From within micaceous siltstone and sub-rounded intrusive talus.				

Sample Number:	L840350	UTM:	625006	mE	Nad83, Zone 8
Elevation:	1828 m	UTM:	6916586	mN	
Comments:	Altered metasediment. Buff white scheelite (?), grey/green masses of relict sulphide and wolframite? Trace limonite and goethite.				

Sample Number:	L840356	UTM:	625300	mE	Nad83, Zone 8
Elevation:	1557 m	UTM:	6917150	mN	
Comments:					

Sample Number:	L840357	UTM:	625380	mE	Nad83, Zone 8
Elevation:	1557 m	UTM:	6917044	mN	
Comments:					

Rock Sample Descriptions Property: Ku

Sample Number:	L840358	UTM:	625488	mE	Nad83, Zone 8
Elevation:	1705 m	UTM:	6916985	mN	
Comments:					
Sample Number:	L840359	UTM:	625596	mE	Nad83, Zone 8
Elevation:	1731 m	UTM:	6917045	mN	
Comments:					
Sample Number:	L840360	UTM:	625594	mE	Nad83, Zone 8
Elevation:	1737 m	UTM:	6916985	mN	
Comments:					
Sample Number:	L840361	UTM:	626099	mE	Nad83, Zone 8
Elevation:	1686 m	UTM:	6917001	mN	
Comments:					
Sample Number:	L840362	UTM:	625700	mE	Nad83, Zone 8
Elevation:	1560 m	UTM:	6917005	mN	
Comments:					
Sample Number:	L840405	UTM:	625582	mE	Nad83, Zone 8
Elevation:	1607 m	UTM:	6918007	mN	
Comments:					
Sample Number:	L840406	UTM:	625688	mE	Nad83, Zone 8
Elevation:	1654 m	UTM:	6917988	mN	
Comments:					

Rock Sample Descriptions Property: Ku

Sample Number:	L840407	UTM:	625678	mE	Nad83, Zone 8
Elevation:	1604 m	UTM:	6917986	mN	
Comments:					
Sample Number:	L840408	UTM:	625618	mE	Nad83, Zone 8
Elevation:	1736 m	UTM:	6917026	mN	
Comments:					
Sample Number:	L840409	UTM:	625591	mE	Nad83, Zone 8
Elevation:	1734 m	UTM:	6916989	mN	
Comments:					
Sample Number:	L840410	UTM:	625843	mE	Nad83, Zone 8
Elevation:	1740 m	UTM:	6916909	mN	
Comments:					
Sample Number:	L840411	UTM:	625992	mE	Nad83, Zone 8
Elevation:	1709 m	UTM:	6916879	mN	
Comments:					
Sample Number:	L840412	UTM:	626076	mE	Nad83, Zone 8
Elevation:	1693 m	UTM:	6917011	mN	
Comments:					
Sample Number:	L840413	UTM:	625654	mE	Nad83, Zone 8
Elevation:	1640 m	UTM:	6917997	mN	
Comments:					

Rock Sample Descriptions Property: Ku

Sample Number:	L840414	UTM:	625923	mE	Nad83, Zone 8
Elevation:	1719 m	UTM:	6917292	mN	
Comments:					

Sample Number:	L840451	UTM:	625342	mE	Nad83, Zone 8
Elevation:	1761 m	UTM:	6916737	mN	
Comments:	Sample from 30 cm wide chip sample from pegmatitic vein of quartz, scheelite and fluorite (pale pink to purple). In nearby boulders veins reach 90 cm.				

Sample Number:	L840452	UTM:	625594	mE	Nad83, Zone 8
Elevation:	1765 m	UTM:	6916840	mN	
Comments:	Specimen (20 by 10 by 12 cm) of quartz vein gangue with 6 cm band of massive wolframite crystals.				

Sample Number:	L840453	UTM:	625678	mE	Nad83, Zone 8
Elevation:	1754 m	UTM:	6916966	mN	
Comments:	Specimen sample across 30 cm. Pale green to grey calc-silicate skarn with 2% pyrrhotite and 0.5% arsenopyrite. Oxidized weathering surface. Outcrop 1 by 2 m within kill zone.				

Sample Number:	L840454	UTM:	625582	mE	Nad83, Zone 8
Elevation:	1739 m	UTM:	6916982	mN	
Comments:	From 2.5 m wide trench of epidote-diopside-garnet skarn. Blebs of fine tarnished pyrite and chalcopyrite. Specimen sample from 50 cm bedrock.				

Sample Number:	L840455	UTM:	625488	mE	Nad83, Zone 8
Elevation:	1711 m	UTM:	6916985	mN	
Comments:	Specimen 30 by 10 by 40 cm. Diopside-wolframite-epidote skarn with disseminated stringers of arsenopyrite.				

Rock Sample Descriptions Property: Ku

Sample Number:	L840456	UTM:	626307	mE	Nad83, Zone 8
Elevation:	1662 m	UTM:	6917944	mN	
Comments:	Float - Granodiorite - MG with malachite and limonite specimen 20 cm^2.				

Sample Number:	L840457	UTM:	626292	mE	Nad83, Zone 8
Elevation:	1658 m	UTM:	6917892	mN	
Comments:	40cm^2 - Shale to mudstone with limonite boxwork bands. Limonite coating bands, manganese oxide.				

Sample Number:	L840458	UTM:	626246	mE	Nad83, Zone 8
Elevation:	1662 m	UTM:	6917846	mN	
Comments:	20 x 20 x 30cm from scree below fels alt seds. Pale grey to blue vitreous quartz vein <3mm sphalerite veinlets and anglesite and trace galena. No vis Sx within quartz. Abundant over 5m area.				

Sample Number:	L840459	UTM:	624800	mE	Nad83, Zone 8
Elevation:	1538 m	UTM:	6917645	mN	
Comments:	Composite chip sample: 3 pieces over 5m from drainage. Limonitic altered metasediments. Protolith unrecognizable. Quartz rich, vuggy calcite and limonite, minor goethite.				

Sample Number:	L840460	UTM:	624934	mE	Nad83, Zone 8
Elevation:	1554 m	UTM:	6917710	mN	
Comments:	Quartz breccia with calcite, ankerite, limonite clasts. <3cm clasts of mafic intrusive (?) From soil sample pit: ZZ08210.				

Rock Sample Descriptions Property: Marks

Sample Number:	L840365	UTM:	609516	mE	Nad83, Zone 8
Elevation:	1469 m	UTM:	6929444	mN	
Comments:	Chip Sample				

Sample Number:	L840366	UTM:	609510	mE	Nad83, Zone 8
Elevation:	1463 m	UTM:	6929446	mN	
Comments:	Chip Sample				

Sample Number:	L840367	UTM:	607968	mE	Nad83, Zone 8
Elevation:	1634 m	UTM:	6929941	mN	
Comments:					

Sample Number:	L840368	UTM:	608330	mE	Nad83, Zone 8
Elevation:	1769 m	UTM:	6929297	mN	
Comments:					

Sample Number:	L840369	UTM:	608918	mE	Nad83, Zone 8
Elevation:	1446 m	UTM:	6929498	mN	
Comments:					

Sample Number:	L840421	UTM:	608163	mE	Nad83, Zone 8
Elevation:	1814 m	UTM:	6929282	mN	
Comments:	Sample from trench across arsenic weathered light blue argillic altered chert talus.				

Sample Number:	L840422	UTM:	607821	mE	Nad83, Zone 8
Elevation:	1697 m	UTM:	6929205	mN	
Comments:					

Rock Sample Descriptions Property: Marks

Sample Number:	L840423	UTM:	609471 mE	Nad83, Zone 8	
Elevation:	1450 m	UTM:	6929479 mN		
Comments:					

Sample Number:	L840424	UTM:	609505 mE	Nad83, Zone 8	
Elevation:	1460 m	UTM:	6929452 mN		
Comments:					

Sample Number:	L840425	UTM:	609777 mE	Nad83, Zone 8	
Elevation:	1481 m	UTM:	6929921 mN		
Comments:					

Sample Number:	L840487	UTM:	609036 mE	Nad83, Zone 8	
Elevation:	1442 m	UTM:	6930065 mN		
Comments:	Medium-grained quartz vein with limonite vugs, pale yellow clay mineral in fractures. Near source float grab.				

Sample Number:	L840488	UTM:	609036 mE	Nad83, Zone 8	
Elevation:	1443 m	UTM:	6930065 mN		
Comments:	Composite of 10 pieces over 2 x 2m altered quartzite adjacent to quartz vein. Dark red/orange alteration with fine disseminated sulphides. Epidote skarn?				

Sample Number:	L840489	UTM:	609105 mE	Nad83, Zone 8	
Elevation:	1437 m	UTM:	6929928 mN		
Comments:	Float grab from boulder train of swaley banded light/dark grey cherty rock. Sample is rose/green/white very hard calc-silicate skarn (?). Calcite veinlets and blebs, vuggy quartz hosts limonite and clay minerals.				

Rock Sample Descriptions Property: Marks

Sample Number:	L840490	UTM:	609474	mE	Nad83, Zone 8
Elevation:	1450 m	UTM:	6929481	mN	
Comments:	Composite of 15 pieces at along 10m at base of outcrop. Dark red altered epidote skarn with disseminated sulphides, limonite tarnish.				
Sample Number:	L840491	UTM:	609568	mE	Nad83, Zone 8
Elevation:	1509 m	UTM:	6929151	mN	
Comments:	Aphanitic light blue rock with fine dark blue crackle veinlets (rhyolite? Chert?) Limonite vugs and abundant clustered sphalerite (2%), fine dissem. Sulphides (AsPy). Composite of 12 pieces over 2x2m alteration zone.				
Sample Number:	L840492	UTM:	607712	mE	Nad83, Zone 8
Elevation:	1515 m	UTM:	6929936	mN	
Comments:	Bedrock grab of coarse-grained rose/teal silica recrystallized rock with ~1% galena.				
Sample Number:	L840493	UTM:	607677	mE	Nad83, Zone 8
Elevation:	1493 m	UTM:	6929927	mN	
Comments:	Float grab of very punky heavy rock with extensive limonite, white fibrous radiating mineral, ~5% muscovite.				
Sample Number:	L840494	UTM:	607650	mE	Nad83, Zone 8
Elevation:	1470 m	UTM:	6929995	mN	
Comments:	Bedrock grab of epidote-garnet skarn (?) with ~1% galena, 1% arsenopyrite, rusty vugs in quartz framework.				
Sample Number:	L840495	UTM:	608517	mE	Nad83, Zone 8
Elevation:	1758 m	UTM:	6929074	mN	
Comments:	Float grab of abundant material. Silica recrystallized, hornfelsed 'chert' with black venilets/swales, very fine disseminated sulphides. Quite heavy.				

Rock Sample Descriptions Property: Marks

Sample Number:	L840496	UTM:	608116	mE	Nad83, Zone 8
Elevation:	1489 m	UTM:	6930495	mN	
Comments:	Maroon and teal quartzite (greenschist metaseds?) with quartz deformation and fracturins. Fracture face with 1% sphalerite, galena. Limonite in pores. Bedrock grab._				
Sample Number:	L840497	UTM:	608425	mE	Nad83, Zone 8
Elevation:	1553 m	UTM:	6930248	mN	
Comments:	Float grab of light green recrystallized quartz rock with punky limonite and clay minerals in vugs				
Sample Number:	L840498	UTM:	609528	mE	Nad83, Zone 8
Elevation:	1448 m	UTM:	6929462	mN	
Comments:	Float composite of 10 pieces over 3 x 3m area. Very punky quartz vein material with vugs of limonite, dark brown clay mineral, and white clay. Abundant muscovite.				
Sample Number:	L840499	UTM:	609777	mE	Nad83, Zone 8
Elevation:	1421 m	UTM:	6929921	mN	
Comments:	Composite float grab of 12 pieces over 3 x 3m area. Material is abundant. Porous limonite in very altered orange rock.				

Rock Sample Descriptions Property: Orange

Sample Number:	M355862	UTM:	594505	mE	Nad83, Zone 8
Elevation:	1963 m	UTM:	6912903	mN	

Comments: From west end of quartz vein with weak orange and red weathering. On fresh fractures, strong bright orange-red oxide in honeycomb vugs. Oxide is associated with 2% blebs of chalcopyrite and 2% fine-grained, disseminated tetrahedrite and trace to 2% medium-grained galena. Quartz is white to crystalline (1 cm qz crystals) to cryptocrystalline (clear). Mineralization is inconsistent throughout vein.

Sample Number:	M355863	UTM:	594518	mE	Nad83, Zone 8
Elevation:	1958 m	UTM:	6912907	mN	

Comments: Footwall segment (?) of vein is orange-grey-white with a strong orange oxide associated with 2% blebs of chalcopyrite, 0.5-1% sporadic galena and fine-grained disseminated tetrahedrite in hanging-wall portion. White mica is also present in some segments of quartz vein. Mineralization is discontinuous. Attitude of quartz vein is ~268/62 and perpendicular joint set of 166/52.

Sample Number:	M355864	UTM:	594523	mE	Nad83, Zone 8
Elevation:	1956 m	UTM:	6913010	mN	

Comments: Chips over a 1 m width at eastern end of orange vein that is in place. Yellow orange limonite stain on white, brittle quartz with white micaceous flakes but no visible sulphides.

Sample Number:	M355865	UTM:	594819	mE	Nad83, Zone 8
Elevation:	1854 m	UTM:	6913010	mN	

Comments: Blocky, yellow orange stained quartz in granitic talus. Trace to 1% fine grained silver sulphide (tetrahedrite?) associated with 1-2% patchy blebs of malachite. Bright orange oxide also present. Mineralization in this quartz vein is sporadically disrtibuted.

Sample Number:	M355866	UTM:	594799	mE	Nad83, Zone 8
Elevation:	1854 m	UTM:	6913011	mN	

Comments: High graded chips from 3 angular quartz boulders in granitic talus. All have rusty orange-red weathering. Fresh surfaces exhibit orange oxidized filled honeycomb vugs with 3-5% galena. Other, larger, white, brittle but barren quartz blocks are abundant here also. Located east and downslope from orange vein ~ 350 meters- probably detritus from the orange vein above??

Rock Sample Descriptions Property: Orange

Sample Number:	M355867	UTM:	594905	mE	Nad83, Zone 8
Elevation:	1610 m	UTM:	6912943	mN	

Comments: Weak rust orange weathered quartz vein with sections with pitted oxidized vugs. Contains 5% medium grained galena that occurs in strong orange oxide and honey combed oxide filled vugs. White-grey quartz but not consistantly mineralized. Hosted in granite talus.

Sample Number:	M355868	UTM:	594971	mE	Nad83, Zone 8
Elevation:	1794 m	UTM:	6912914	mN	

Comments: Blocky quartz vein float with weak yellow-orange rust. Fresh face reveals white-grey to rose coloured quartz. Localized 0.5cm zonation of 1%Cpy, 0.5% blebs of galena and one fracture face upto 2% blebs of medium grained galena was noted. From flatter open granite boulder field.

Sample Number:	M355869	UTM:	595844	mE	Nad83, Zone 8
Elevation:	1927 m	UTM:	6913232	mN	

Comments: Rusty orange red weathered quartz vein. Select sample from west end of exposed vein with average thickness of 0.4m and 6m strike. Vein attitude is 258/60. Sporadically mineralized with 2% medium grained blebs of galena with a trace to 0.5% Cpy and trace of azurite. Vfg galena and possibly tetrahedrite and chaclco pyrite up to 4% concentrated on one face. On trend with the oranage vein.

Sample Number:	M355934	UTM:	595854	mE	Nad83, Zone 8
Elevation:	1927 m	UTM:	6913235	mN	

Comments: Chip over 0.5m of white quartz vein, strike 068, vertical dip. Exposed for 25 m. Minor yellow, green staining, no visible sulphides.

Sample Number:	M355935	UTM:	595944	mE	Nad83, Zone 8
Elevation:	1931 m	UTM:	6913563	mN	

Comments: Grab of quartz vein material, very broken up. Strike 068, undetermined dip. Bull white, some limonite, very minor 1/4 inch pyrite cubes.

Rock Sample Descriptions Property: Orange

Sample Number:	M355936	UTM:	595872	mE	Nad83, Zone 8
Elevation:	1937 m	UTM:	6913678	mN	
Comments:	Composite over 15 m along contact of horizontal bedded granite, schist mica, quartz rich, fractured, limonite, manganese staining.				

Sample Number:	M355937	UTM:	595753	mE	Nad83, Zone 8
Elevation:	1929 m	UTM:	6913727	mN	
Comments:	Composite over 10 m small quartz schist breccia vein, 1.5 m wide exposed 15 m heavy manganese, limonite, some green staining, malachite?				

Sample Number:	M355938	UTM:	595732	mE	Nad83, Zone 8
Elevation:	1938 m	UTM:	6913731	mN	
Comments:	Grab sample of very small outcrop, 1 x 2 m quartz, schist, phyllite breccia, heavy manganese and fracture.				

Sample Number:	M355939	UTM:	595736	mE	Nad83, Zone 8
Elevation:	1938 m	UTM:	6913735	mN	
Comments:	Grab sample of very small outcrop, 1 x 2 m quartz, schist, phyllite breccia, heavy manganese and fracture.				

Sample Number:	M355940	UTM:	595660	mE	Nad83, Zone 8
Elevation:	1949 m	UTM:	6913745	mN	
Comments:	Composite over 10 m outcrop of chloritic grey green, horizontal banded quartz silica, 5-10 m thick with minor disseminated pyrite.				

Sample Number:	M355941	UTM:	595634	mE	Nad83, Zone 8
Elevation:	1962 m	UTM:	6913766	mN	
Comments:	Composite over 10 m outcrop of chloritic grey green, horizontal banded quartz silica, 5-10 m thick with minor disseminated pyrite. Granite above, schist below.				

Rock Sample Descriptions Property: Orange

Sample Number:	M355942	UTM:	595595	mE	Nad83, Zone 8
Elevation:	1971 m	UTM:	6913812	mN	

Comments: Composite over 10 m small quartz schist breccia vein, 1.5 m wide exposed 15 m heavy manganese, limonite, some green staining, malachite? Granite above, schist below, 3m thick here.

Sample Number:	M355943	UTM:	595612	mE	Nad83, Zone 8
Elevation:	1966 m	UTM:	6913814	mN	

Comments: Outcrop grab quartz, schist breccia, semi-massive sulphides. Pyrite, ?, Black and grungy.

Sample Number:	M355944	UTM:	595651	mE	Nad83, Zone 8
Elevation:	1934 m	UTM:	6913794	mN	

Comments: Grab from fractured 1 x 5 m outcrop. Schist breccia vein exposed minor disseminated pyrite. Strike 105, dip vertical.

Sample Number:	M355945	UTM:	596391	mE	Nad83, Zone 8
Elevation:	1666 m	UTM:	6911227	mN	

Comments: Float grab from train. Fractured 1 x 10m rusty quartz, minor 1/4 inch pyrite cubes, possibly minor galena.

Sample Number:	M355946	UTM:	596427	mE	Nad83, Zone 8
Elevation:	1682 m	UTM:	6911217	mN	

Comments: Grab from float train. Fractured 1 x 10m rusty quartz, minot 1/4 inch pyrite cubes. Possibly minor galena, seems to be several.

Sample Number:	M355947	UTM:	596310	mE	Nad83, Zone 8
Elevation:	1657 m	UTM:	6911089	mN	

Comments: Outcrop grab. Quartz, schist breccia, minor sulphides: pyrite + ? Black grungy galena?

Sample Number:	M355948	UTM:	595754	mE	Nad83, Zone 8
Elevation:	1739 m	UTM:	6910386	mN	

Comments: Outcrop composite over 10m. Horizontally bedded carbonate altered grey-green chloritic quartz, silica band on contact with schist, limestone cap.

Rock Sample Descriptions Property: Orange

Sample Number:	M355949	UTM:	595786	mE	Nad83, Zone 8
Elevation:	1745 m	UTM:	6910367	mN	
Comments:	Chip over 2m wide bed. Bedded, carbonate altered grey-green chloritie quartz, silica band on contact with schist, limestone cap. Limestone above, schist below.				
Sample Number:	M355950	UTM:	595636	mE	Nad83, Zone 8
Elevation:	1758 m	UTM:	6910292	mN	
Comments:	Composite over 5m of horizontally bedded schist mica, quartz rich. Fracutred with limonite, manganese on contact with limestone.				
Sample Number:	M355957	UTM:	594135	mE	Nad83, Zone 8
Elevation:	1554 m	UTM:	6912969	mN	
Comments:	Coarse-grained hornblende plagioclase dyke. Margins are chlorite altered and contain minor sulphides.				
Sample Number:	M355958	UTM:	594135	mE	Nad83, Zone 8
Elevation:	1538 m	UTM:	6912969	mN	
Comments:	Steeply dipping pegmatite dykes intruding granodiorite, variably tourmaline-bearing. Oxidized pits and density indicate sulphide potential.				
Sample Number:	M650151	UTM:	595636	mE	Nad83, Zone 8
Elevation:	1758 m	UTM:	6910292	mN	
Comments:	Composite over 5m along horizontal contact of rusty quartz bed, 30-100cm thick. Grey-green banded quartz above, schist below.				
Sample Number:	M650152	UTM:	595631	mE	Nad83, Zone 8
Elevation:	1755 m	UTM:	6910287	mN	
Comments:	Grab of wte felsic quartz vein zig-zagging discontinuously .5-2m thick. Salt and pepper hornblende specks, possibly sphalerite.				

Rock Sample Descriptions Property: Orange

Sample Number:	M650153	UTM:	595897	mE	Nad83, Zone 8
Elevation:	1575 m	UTM:	6910851	mN	
Comments:	Grab from very small quartz vein in creek 30cm x 3m fractured with pyrite, chalcopyrite, striking 110.				

Sample Number:	M650154	UTM:	595858	mE	Nad83, Zone 8
Elevation:	1566 m	UTM:	6910860	mN	
Comments:	Grab from very small quartz vein in creek 15cm x 3m fractured with pyrite, chalcopyrite, striking 110.				

Sample Number:	M650155	UTM:	594777	mE	Nad83, Zone 8
Elevation:	1589 m	UTM:	6910629	mN	
Comments:	Outcrop grab from 1.5 x 5m limestone outcrop with white green staining, minor very small crystals of sphalerite?				

Sample Number:	M650156	UTM:	594775	mE	Nad83, Zone 8
Elevation:	1588 m	UTM:	6910628	mN	
Comments:	Composite over 5m along strike of grey-green banded silica, 2m thick with limestone above, schist below, minor pyrite and galena?				

Sample Number:	M650157	UTM:	594651	mE	Nad83, Zone 8
Elevation:	1602 m	UTM:	6910633	mN	
Comments:	Grab from white felsic quartz vein zig-zagging discontinuous 0.5-2m thick. Salt and pepper hornblende specks, possibly sphalerite.				

Sample Number:	M650158	UTM:	594645	mE	Nad83, Zone 8
Elevation:	1598 m	UTM:	6910639	mN	
Comments:	Outcrop composite over 10m of horizontally bedded carbonate altered grey-green chloritie quartz, silica band on contact with schist below, granite above.				

Rock Sample Descriptions Property: Orange

Sample Number:	M650159	UTM:	594634	mE	Nad83, Zone 8
Elevation:	1599 m	UTM:	6910643	mN	
Comments:	Outcrop composite over 10m of horizontally bedded carbonate altered grey-green chloritie quartz, silica band on contact with schist below, granite above.				

Sample Number:	M650160	UTM:	594623	mE	Nad83, Zone 8
Elevation:	1601 m	UTM:	6910640	mN	
Comments:	Outcrop composite over 10m of horizontally bedded carbonate altered grey-green chloritie quartz, silica band on contact with schist below, granite above.				

Sample Number:	M650161	UTM:	594553	mE	Nad83, Zone 8
Elevation:	1589 m	UTM:	6910667	mN	
Comments:	Composite over 10m. Small pod of limestone, 5m thick x 25m. Small specks of sphalerite?				

Sample Number:	M650162	UTM:	594503	mE	Nad83, Zone 8
Elevation:	1608 m	UTM:	6910616	mN	
Comments:	Grab from small rusty quartz vein/pod. Sandwiched between very tightly folded phyllite above and schist below. Minor pyrite, possibly galena.				

Sample Number:	M650163	UTM:	595559	mE	Nad83, Zone 8
Elevation:	1985 m	UTM:	6913833	mN	
Comments:	Composite over 10m of green, grey banded calcareous silica.				

Sample Number:	M650164	UTM:	595557	mE	Nad83, Zone 8
Elevation:	1989 m	UTM:	6913832	mN	
Comments:	Composite over 10m of small seam of very fractured dark black quartz porphyry with pyrrhotite, pyrite, chalcopyrite.				

Rock Sample Descriptions Property: Orange

Sample Number:	M650165	UTM:	595576	mE	Nad83, Zone 8
Elevation:	1967 m	UTM:	6913901	mN	
Comments:	Composite over 5m of small seam of very fractured dark black quartz porphyry with pyrrhotite, pyrite, chalcopyrite. 30 m x 5 m.				

Sample Number:	M650166	UTM:	595473	mE	Nad83, Zone 8
Elevation:	1959 m	UTM:	6914307	mN	
Comments:	Composite over 10m of small seam of very fractured dark black quartz porphyry with pyrrhotite, pyrite, chalcopyrite. 1.0 m thick x 10 m.				

Sample Number:	M650167	UTM:	595479	mE	Nad83, Zone 8
Elevation:	1955 m	UTM:	6914315	mN	
Comments:	Composite over 5m of small seam of very fractured dark black quartz porphyry with pyrrhotite, pyrite, chalcopyrite. 1 x 10m				

Sample Number:	M650168	UTM:	595527	mE	Nad83, Zone 8
Elevation:	1943 m	UTM:	6914234	mN	
Comments:	Composite over 10m of small seam of very fractured dark black quartz porphyry with pyrrhotite, pyrite, chalcopyrite. 0.5m x 10m.				

Sample Number:	M650169	UTM:	595517	mE	Nad83, Zone 8
Elevation:	1946 m	UTM:	6914251	mN	
Comments:	Composite over 10m. Green, grey banded calcareous silica large block here 20-30m thick.				

Rock Sample Descriptions Property: RGS

Sample Number:	L840500	UTM:	596848	mE	Nad83, Zone 8
Elevation:	1729 m	UTM:	6937340	mN	
Comments:	Float composite (6 pieces, 2x2m) of limonitic chert breccia.				

Sample Number:	M676944	UTM:	595409	mE	Nad83, Zone 8
Elevation:	1172 m	UTM:	6938943	mN	
Comments:	Float grab. Finely laminated light grey chert with ~1% arsenopyrite in fractures. Mm-scale fracture contains carbon and limonite (~2%)				

Sample Number:	M676945	UTM:	595728	mE	Nad83, Zone 8
Elevation:	1184 m	UTM:	6938947	mN	
Comments:	Bedrock composite from quartzose/limonitic fault gouge in light grey chert / limey silt to sandstone. 2% pyrite.				

Sample Number:	M676946	UTM:	596096	mE	Nad83, Zone 8
Elevation:	1225 m	UTM:	6938727	mN	
Comments:	Near source float grab of limey siltstone with limonite in fractures.				

Sample Number:	M676947	UTM:	596305	mE	Nad83, Zone 8
Elevation:	1283 m	UTM:	6938538	mN	
Comments:	Near source float grab. Dark red altered grey chert, ~10% limonite.				

Sample Number:	M676948	UTM:	596546	mE	Nad83, Zone 8
Elevation:	1585 m	UTM:	6937890	mN	
Comments:	Float composite (10 pieces, 4x4m) brecciated chert with limonite in vugs				

Sample Number:	M676949	UTM:	596078	mE	Nad83, Zone 8
Elevation:	1358 m	UTM:	6938183	mN	
Comments:	Near source float composite (10 pieces, 4x4m). Limonite matrix support of cobble chert breccia.				

Rock Sample Descriptions Property: RGS

Sample Number:	M676950	UTM:	596296	mE	Nad83, Zone 8
Elevation:	1501 m	UTM:	6938017	mN	

Comments: Subcrop grab. Granule to pebble light teal chert breccia, oxidfized, with limonite in matrix (~10%).

Sample Number:	M676951	UTM:	595612	mE	Nad83, Zone 8
Elevation:	1265 m	UTM:	6938831	mN	

Comments: Chert with limonite and lesser arsenic oxide along joint fractures (200/80). Disseminated arsenopyrite and pyrite are also found along these joints (mineralization spans a width of 1-2mm within joint).

Sample Number:	M676952	UTM:	595541	mE	Nad83, Zone 8
Elevation:	1136 m	UTM:	6938732	mN	

Comments: Finely laminated chert with limonite and disseminated arsenopyrite, pyrrhotite, and pyrite along the 200/85 joint surface.

Sample Number:	M676953	UTM:	595878	mE	Nad83, Zone 8
Elevation:	1487 m	UTM:	6938066	mN	

Comments: Fault breccia (highly oxidized) within massive chert.

Rock Sample Descriptions Property: Risby

Sample Number:	M355851	UTM:	601200	mE	Nad83, Zone 8
Elevation:	1776 m	UTM:	6911410	mN	
Comments:	Flat lying 10 cm thick quartz vein hosted in biotite altered phyllite. Black sph				

Sample Number:	M355852	UTM:	601021	mE	Nad83, Zone 8
Elevation:	1747 m	UTM:	6911407	mN	
Comments:	Blocky, weakly banded quartz-chlorite-calcite altered metaseds. Highly siliceous- trace black sphalerite? White coating - hydrozincite?				

Sample Number:	M355853	UTM:	600836	mE	Nad83, Zone 8
Elevation:	1355 m	UTM:	6911323	mN	
Comments:	Orange-red rusty 40cm 3 blocky float. Siliceous dark grey to green metased with 10% medium-grained disseminated pyrite. From steep 40 degree north-facing talus slope.				

Sample Number:	M355858	UTM:	600717	mE	Nad83, Zone 8
Elevation:	1707 m	UTM:	6911282	mN	
Comments:	20 x 30 cm bedrock grab. Taken from steep N-NW facing bluff. Quartz-chlorite altered phyllite with 1-2% fine-grained disseminated pyrite. Flatly bedded, rusty orange red weathering.				

Sample Number:	M355859	UTM:	601399	mE	Nad83, Zone 8
Elevation:	1740 m	UTM:	6911579	mN	
Comments:	Narrow east-west trending 10cm wide zone of strong manganese coated, siliceous material with 4 cm elongated lensed fine-grained pyrite and 1-2% fine-grained arsenopyrite. From the west side of rill at the head of a steep 40 degree talus chute.				

Sample Number:	M355860	UTM:	601187	mE	Nad83, Zone 8
Elevation:	1702 m	UTM:	6911510	mN	
Comments:	A 3 m strike of manganese-coated, sericite altered intrusive with 2% medium-grained galena and 1% very fine-grained arsenopyrite. Drusy quartz cavities and green-orange-yellow oxides on fresh surfaces. Trends 0-24 degrees on the east side of an intrusive rill.				

Rock Sample Descriptions Property: Risby

Sample Number:	M355861	UTM:	601187	mE	Nad83, Zone 8
Elevation:	1734 m	UTM:	6911450	mN	

Comments: Strongly sericite altered felsic intrusive with trace to 0.5% very fine-grained pyrite; trace to 0.5% very fine grained silver sulphide (Arsenopyrite?). Also exhibits a yellow oxide. Taken at the contact margin with phyllites. From a north-facing bluff in a small 1.5 x 0.5 m exposure bounded by overburden.

Sample Number:	M355901	UTM:	600349	mE	Nad83, Zone 8
Elevation:	1794 m	UTM:	6910979	mN	

Comments: Composite over 10 m. Horizontal bedded quartz, schist, mica-rich with manganese and iron oxide coating, 1-2% disseminated pyrite.

Sample Number:	M355902	UTM:	600288	mE	Nad83, Zone 8
Elevation:	1809 m	UTM:	6910949	mN	

Comments: Grab of bull white quartz vein, cutting schist, 20 - 30 cm wide exposed for 10 m, fractured with manganese and ~1% pyrite.

Sample Number:	M355903	UTM:	601276	mE	Nad83, Zone 8
Elevation:	1815 m	UTM:	6911282	mN	

Comments: Subcrop grab of banded quartz and schist, <5% pyrite and galena.

Sample Number:	M355904	UTM:	601250	mE	Nad83, Zone 8
Elevation:	1823 m	UTM:	6911344	mN	

Comments: Chip over 2 m of east-west fractured bull white quartz vein, tiny blebs pyrite, <5% pyrite and galena.

Sample Number:	M355905	UTM:	601204	mE	Nad83, Zone 8
Elevation:	1792 m	UTM:	6911091	mN	

Comments: Chip sample over 1.5 m. Disseminated pyrite and galena blebs 1-2%.

Rock Sample Descriptions Property: Risby

Sample Number:	M355906	UTM:	601233	mE	Nad83, Zone 8
Elevation:	1802 m	UTM:	6911370	mN	
Comments:	Outcrop grab of grey quartzose schist, fractured, ,5% pyrite.				

Sample Number:	M355907	UTM:	601228	mE	Nad83, Zone 8
Elevation:	1804 m	UTM:	6911369	mN	
Comments:	Grab of small quartz vein 10 - 15 cm wide, exposed for 8m, striking east-west. Fractured with minor disseminated pyrite.				

Sample Number:	M355908	UTM:	601277	mE	Nad83, Zone 8
Elevation:	1816 m	UTM:	6911328	mN	
Comments:	Composite over 10 m subcrop. Banded quartz, schist, fractured with minor disseminated pyrite.				

Sample Number:	M355909	UTM:	601230	mE	Nad83, Zone 8
Elevation:	1826 m	UTM:	6911341	mN	
Comments:	Outcrop grab. Fractured grey quartzose schist, <5% blebby pyrite.				

Sample Number:	M355910	UTM:	601178	mE	Nad83, Zone 8
Elevation:	1832 m	UTM:	6911339	mN	
Comments:	Bedrock grab of very fractured horizontal bedded black phyllite/schist. 1m thick, exposed for 10 m.				

Sample Number:	M355911	UTM:	601176	mE	Nad83, Zone 8
Elevation:	1832 m	UTM:	6911347	mN	
Comments:	Composite over 10m. Horizontally bedded grey-gren chlorite altered quartz, silica. 2-3m thick.				

Sample Number:	M355912	UTM:	601166	mE	Nad83, Zone 8
Elevation:	1824 m	UTM:	6911328	mN	
Comments:	Composite over 5m. Very fractured dark black crystalline phyllite, 5% pyrite.				

Rock Sample Descriptions Property: Risby

Sample Number:	M355913	UTM:	601160	mE	Nad83, Zone 8
Elevation:	1823 m	UTM:	6911330	mN	
Comments:	Composite over 10m. Horizontally bedded grey-green chlorite quartz, silica. 2-3m thic, white oxide coating.				

Sample Number:	M355914	UTM:	601038	mE	Nad83, Zone 8
Elevation:	1783 m	UTM:	6911342	mN	
Comments:	Composite over 10m. Dark black crystalline phyllite with very fine disseminated pyrite.				

Sample Number:	M355931	UTM:	602358	mE	Nad83, Zone 8
Elevation:	1715 m	UTM:	6912194	mN	
Comments:	Grab of quartz vein, 1 m wide. Strike 40, dip vertical exposed over 5m high manganese, very fractured, minor galena blebs.				

Sample Number:	M355932	UTM:	602253	mE	Nad83, Zone 8
Elevation:	1689 m	UTM:	6912117	mN	
Comments:	Grab of quartz vein, 1 m wide. Strike 55, dip vertical, exposed 30m high. Medium-grained, fractured. Previously sampled # M676303.				

Sample Number:	M355955	UTM:	600853	mE	Nad83, Zone 8
Elevation:	1554 m	UTM:	6911202	mN	
Comments:	Taken above rhyolite sill in phyllite.				

Sample Number:	M355956	UTM:	600620	mE	Nad83, Zone 8
Elevation:	1538 m	UTM:	6911228	mN	
Comments:	Subcrop grab. Biotite quartz phyllite. Mineralization in anticline structure. Quartz-chlorite alteration with arsenopyrite.				

Rock Sample Descriptions Property: Rose

Sample Number:	K280925	UTM:	575613	mE	Nad83, Zone 8
Elevation:	1685 m	UTM:	6912695	mN	
Comments:	Bedrock grab. Strongly foliated siliceous light teal phyllite with ~5% limonite in fractures.				

Sample Number:	K280926	UTM:	575519	mE	Nad83, Zone 8
Elevation:	1675 m	UTM:	6912756	mN	
Comments:	Float grab. Semi-vitreous quartz pegmatite with ~7% limonite and white clay in fractures. Similar material observed in float in area.				

Sample Number:	K280927	UTM:	575840	mE	Nad83, Zone 8
Elevation:	1397 m	UTM:	6913233	mN	
Comments:	Near-source float composite (5 pieces over 4x4m). Coarse-grained quartz vein with ~10% limonite in vugs.				

Sample Number:	K280928	UTM:	575841	mE	Nad83, Zone 8
Elevation:	1398 m	UTM:	6913232	mN	
Comments:	Near-source float grab adjacent to dm-scale quartz vein. Dark purplish green phyllitic chert with cm-scale quartz veining, oxidized and with ~5% honeycomb limonite.				

Sample Number:	K280929	UTM:	575838	mE	Nad83, Zone 8
Elevation:	1427 m	UTM:	6913122	mN	
Comments:	Bedrock composite (10 pieces over 4x4m). Intermixed concordant quartz veining and foliated cherty siltstone. Minor limonite, intensely oxidized, pervasive white powder on surfaces.				

Sample Number:	K280930	UTM:	574508	mE	Nad83, Zone 8
Elevation:	1715 m	UTM:	6913156	mN	
Comments:	Float composite along strike of limonitic quartzose material with black crackle veinlets in basalt.				

Rock Sample Descriptions Property: Rose

Sample Number:	K280931	UTM:	574207	mE	Nad83, Zone 8
Elevation:	1683 m	UTM:	6913262	mN	
Comments:	Float grab, approximately in situ. Quartz-carbonate brecciation of grey chert with ~10% black crackle veinlets, oxidized to limonite.				
Sample Number:	K280932	UTM:	574128	mE	Nad83, Zone 8
Elevation:	1664 m	UTM:	6913384	mN	
Comments:	Float composite (10 pieces over 4x4m). Quartz-carbonate brecciation of grey chert with ~10% black crackle veinlets, oxidized to limonite.				
Sample Number:	K280933	UTM:	574048	mE	Nad83, Zone 8
Elevation:	1671 m	UTM:	6913409	mN	
Comments:	Near-source float composite (10 pieces over 5x5m). Basalt breccia with limonitic quartz-calcite matrix support.				
Sample Number:	K280934	UTM:	573428	mE	Nad83, Zone 8
Elevation:	1703 m	UTM:	6913642	mN	
Comments:	Bedrock grab. Light teal chert with ~15% black crackle veinlets, oxidized and with silica blebs. Heavy.				
Sample Number:	L840385	UTM:	572645	mE	Nad83, Zone 8
Elevation:	1581 m	UTM:	6913617	mN	
Comments:	Light grey-green fresh buff to rusty weathering. Strongly ex				
Sample Number:	L840386	UTM:	572715	mE	Nad83, Zone 8
Elevation:	1579 m	UTM:	6913647	mN	
Comments:					
Sample Number:	L840387	UTM:	572848	mE	Nad83, Zone 8
Elevation:	1556 m	UTM:	6913583	mN	
Comments:					

Rock Sample Descriptions Property: Rose

Sample Number:	M676965	UTM:	576705	mE	Nad83, Zone 8
Elevation:	1349 m	UTM:	6912086	mN	

Comments: Siliceous/recrystallized chert. Sampled from a zone of strong oxidation. Control over oxidation is unknown. Quartz veinlets and cm scale veins are present in the viscinity, parallel with 030/70 joints. Thin, 1-3 mm sulphide seams (discontinuous) are observed parallel with 120-130/70 foliation in the locality.

Sample Number:	M676966	UTM:	576698	mE	Nad83, Zone 8
Elevation:	1349 m	UTM:	6912104	mN	

Comments: Siliceous/recrystallized chert. Sampled from a zone of strong oxidation. Control over oxidation is unknown. Quartz veinlets and cm scale veins are present in the viscinity, parallel with 030/70 joints. Thin, 1-3 mm sulphide seams (discontinuous) are observed parallel with 120-130/70 foliation in the locality.

Sample Number:	M676967	UTM:	576685	mE	Nad83, Zone 8
Elevation:	1360 m	UTM:	6912123	mN	

Comments: Siliceous/recrystallized chert. Sampled from a zone of strong oxidation. Control over oxidation is unknown. Quartz veinlets and cm scale veins are present in the viscinity, parallel with 030/70 joints. Thin, 1-3 mm sulphide seams (discontinuous) are observed parallel with 120-130/70 foliation in the locality.

Sample Number:	M676968	UTM:	576676	mE	Nad83, Zone 8
Elevation:	1364 m	UTM:	6912133	mN	

Comments: Sampled from poor exposure outcrop between cherty siltstone and pale grey chert. Rock appears extensively recrystallized and is very siliceous. Limonite and other oxides are present at surface. 'Grotty' texture of oxidized rock may account for the poor exposure between two large resistive outcrops.

Sample Number:	M676969	UTM:	576233	mE	Nad83, Zone 8
Elevation:	1609 m	UTM:	6912571	mN	

Comments: Light green phyllitic chert with concordant oxidized horizons. Mm-scale crackle veinlets appear to contain disseminated sulphides.

Rock Sample Descriptions Property: Rose

Sample Number:	M676970	UTM:	576220	mE	Nad83, Zone 8
Elevation:	1616 m	UTM:	6912523	mN	

Comments: Light green phyllitic chert with concordant oxidized horizons. Mm-scale crackle veinlets appear to contain disseminated sulphides.

Sample Number:	M676971	UTM:	576483	mE	Nad83, Zone 8
Elevation:	1507 m	UTM:	6912500	mN	

Comments: Light grey, strongly foliated chert. Appears recrystallized and siliceous in some areas. Oxidation is prevelent along foliation planes and the rock is very dense.

Sample Number:	M676972	UTM:	576542	mE	Nad83, Zone 8
Elevation:	1467 m	UTM:	6912800	mN	

Comments: Light green phyllitic chert showing extensive oxidation. Oxidation is most prevelent adjacent to a 5 cm thick quartz vein which runs parallel to 300/60 jointing.

Sample Number:	M676973	UTM:	576492	mE	Nad83, Zone 8
Elevation:	1456 m	UTM:	6912866	mN	

Comments: Siliceous siltstone with 50 cm thick limonitic and vuggy/grotty quartz vein concordant with 130/40 foliation. Quartz vein was sampled in this case.

Sample Number:	M676974	UTM:	576903	mE	Nad83, Zone 8
Elevation:	1485 m	UTM:	6913981	mN	

Comments: Quartz veining within phyllitic chert. Vein appears propylitically altered and contains chlorite, epidote, carbonate, and mm scale pyrite crystals.

Sample Number:	M676975	UTM:	576962	mE	Nad83, Zone 8
Elevation:	1522 m	UTM:	6913808	mN	

Comments: Phyllitic chert showing local zones of strong oxidation.

Rock Sample Descriptions Property: Rose

Sample Number:	M676976	UTM:	577219	mE	Nad83, Zone 8
Elevation:	1608 m	UTM:	6913740	mN	

Comments: Quartz veining within phyllitic chert. Vein appears propylitically altered and contains chlorite, epidote, carbonate, and mm scale pyrite crystals.

Sample Number:	M676977	UTM:	577229	mE	Nad83, Zone 8
Elevation:	1386 m	UTM:	6913718	mN	

Comments: Quartz veining within phyllitic chert. Vein appears propylitically altered and contains chlorite, epidote, carbonate, and mm scale pyrite crystals.

Sample Number:	M676978	UTM:	572675	mE	Nad83, Zone 8
Elevation:	1589 m	UTM:	6913642	mN	

Comments: Oxidized quartz vein, quite dense. Adjacent chert shows extensive recrystallization and contains an abundance of a malachite green coloured mineral (appears like a silicate though). Quartz vein appears to be over 5 metres thick in areas.

Sample Number:	M676979	UTM:	572770	mE	Nad83, Zone 8
Elevation:	1567 m	UTM:	6913576	mN	

Comments: Oxidized quartz vein, quite dense. Adjacent chert shows extensive recrystallization and contains an abundance of a malachite green coloured mineral (appears like a silicate though). Quartz vein appears to be over 5 metres thick in areas.

Sample Number:	M676980	UTM:	572888	mE	Nad83, Zone 8
Elevation:	1559 m	UTM:	6913614	mN	

Comments: Oxidized quartz vein, quite dense. Adjacent chert shows extensive recrystallization and contains an abundance of a malachite green coloured mineral (appears like a silicate though). Quartz vein appears to be over 5 metres thick in areas.

Sample Number:	M676981	UTM:	572888	mE	Nad83, Zone 8
Elevation:	1559 m	UTM:	6913614	mN	

Comments: Oxidized basalt adjacent to quartz vein.

Rock Sample Descriptions Property: Snail

Sample Number:	K280935	UTM:	553930	mE	Nad83, Zone 8
Elevation:	1547 m	UTM:	6954607	mN	
Comments:	Bedrock grab. Fine-grained grey hornblende-biotite-granodiorite weathered to dark orange. ~6% crystalline arsenopyrite, 2% pyrite.				

Sample Number:	K280936	UTM:	554186	mE	Nad83, Zone 8
Elevation:	1602 m	UTM:	6954664	mN	
Comments:	Bedrock grab. Very oxidized and fractured fine-grained quartzose bluish-grey crystalline rock. Dark red/brown stain and limonite weathering. ~3% crystalline arsenopyrite.				

Sample Number:	K280937	UTM:	554152	mE	Nad83, Zone 8
Elevation:	1623 m	UTM:	6954596	mN	
Comments:	Bedrock grab. Fine-grained dark green crystalline groundmass with ~25% pyrite, 2% chalcopyrite, 3% arsenopyrite. Dark purple and orange tarnish, grungy yellow (scorodite) clay powder.				

Sample Number:	K280938	UTM:	554262	mE	Nad83, Zone 8
Elevation:	1607 m	UTM:	6954408	mN	
Comments:	Near-source float grab. Very fine-grained light grey siliceous siltstone with ~20% pyrite and minor chalcopyrite. Dark red and limonitic weathering. Mineralized material appears to be fine-grained and dark green.				

Sample Number:	K280939	UTM:	554232	mE	Nad83, Zone 8
Elevation:	1541 m	UTM:	6954244	mN	
Comments:	Bedrock and near-source float composite. Very altered and fractured siliceous siltstone with dark red and orange tarnish, oily appearance. Quite dense.				

Sample Number:	K280940	UTM:	554762	mE	Nad83, Zone 8
Elevation:	1646 m	UTM:	6954548	mN	
Comments:	Bedrock grab. Heavy light tan siliceous rock. Banded and interbedded with dark grey siltstone, altered. Silicified felsic tuff?				

Rock Sample Descriptions Property: Snail

Sample Number:	K280941	UTM:	553986	mE	Nad83, Zone 8
Elevation:	1500 m	UTM:	6954190	mN	
Comments:	Bedrock grab. Medium-grained hornblende-biotite granodiorite. Fracture structure (~183/72, appears to be offset by northeast trending linear)) with dark red and orange weathering. Minor white precipitate dusting.				
Sample Number:	K280942	UTM:	553937	mE	Nad83, Zone 8
Elevation:	1484 m	UTM:	6954160	mN	
Comments:	Medium-grained bluish-grey crystalline rock with limonite and dark red tarnish. ~2% arsenopyrite disseminated. Fracture strucure.				
Sample Number:	K280943	UTM:	553936	mE	Nad83, Zone 8
Elevation:	1486 m	UTM:	6954191	mN	
Comments:	Bedrock composite from oxidized fractured structure, appears to be aligned with structure of K280942, across linear.				
Sample Number:	K280944	UTM:	553950	mE	Nad83, Zone 8
Elevation:	1466 m	UTM:	6954052	mN	
Comments:	Bedrock grab. Siliceous siltstone with ~10% disseminated pyrite. Dark red tarnish, at contact with granodiorite.				
Sample Number:	K280945	UTM:	553981	mE	Nad83, Zone 8
Elevation:	1508 m	UTM:	6953883	mN	
Comments:	Bedrock grab. Very altered dark red and orange, heavily fractured area within light grey siliceous siltstone, weathered white.				
Sample Number:	K280946	UTM:	554121	mE	Nad83, Zone 8
Elevation:	1498 m	UTM:	6953806	mN	
Comments:	Bedrock grab. Dark red altered and fractured light grey siliceous siltstone. Yellow and white precipitate surrounds fractures.				

Rock Sample Descriptions Property: Snail

Sample Number:	K280947	UTM:	553752	mE	Nad83, Zone 8
Elevation:	1433 m	UTM:	6954158	mN	

Comments: Bedrock grab. Medium-grained biotite granodiorite. Intense oxidation to dark orange and red. Yellow powder along fractures. ~2% arsenopyrite in mm-scale crystals and finely disseminated.

Sample Number:	K280948	UTM:	553603	mE	Nad83, Zone 8
Elevation:	1444 m	UTM:	6953938	mN	

Comments: Bedrock grab. Very fractured and altered tuffaceous tan siltstone. ~10% pyrite in matrix of fracture brecciation.

Sample Number:	K280949	UTM:	553574	mE	Nad83, Zone 8
Elevation:	1438 m	UTM:	6953939	mN	

Comments: Bedrock grab. Very altered and fractured siliceous siltstone - dark red and orange tarnish. ~10% limonite, white and yellow precipitate on fracture surfaces.

Sample Number:	K280950	UTM:	554419	mE	Nad83, Zone 8
Elevation:	1708 m	UTM:	6954763	mN	

Comments: Near-source float composite. Fine-grained bluish grey crystalline rock with ~3% arsenopyrite disseminated and in swaley veinlets. Dark red and orange weathering.

Sample Number:	L840388	UTM:	554004	mE	Nad83, Zone 8
Elevation:	1577 m	UTM:	6954858	mN	

Comments: Chip sample along strike of oxidized quartz vein, dm-scale through granodiorite.

Sample Number:	L840389	UTM:	554002	mE	Nad83, Zone 8
Elevation:	1553 m	UTM:	6954861	mN	

Comments: Chip across 3m in oxidized granodiorite adjacent to dm-scale oxidized quartz veining.

Rock Sample Descriptions Property: Snail

Sample Number:	L840390	UTM:	554032	mE	Nad83, Zone 8
Elevation:	1573 m	UTM:	6954884	mN	

Comments: Chip sample across 1.5m. Fractured and rubbly oxidized greenish tan siliceous siltstone with pervasive black alteration. Chip sample across structure of historical grab: MK11 - 015.

Sample Number:	L840391	UTM:	554030	mE	Nad83, Zone 8
Elevation:	1572 m	UTM:	6954892	mN	

Comments: Chip sample across 5m adjacent to 030 linear and L840390. Fractured and oxidized rosy grey siliceous siltstone.

Sample Number:	L840392	UTM:	554031	mE	Nad83, Zone 8
Elevation:	1566 m	UTM:	6954884	mN	

Comments: Chip sample across 5m adjacent to 030 linear and L840390. Very rubbly and oxidized dark red and orange siliceous siltstone.

Sample Number:	L840393	UTM:	554416	mE	Nad83, Zone 8
Elevation:	1696 m	UTM:	6954827	mN	

Comments: Chip sample across 3m outcrop. Bluish fine-grained crystalline rock with arsenopyrite and quartz veining (~10%). Dark purple tarnish. Chip across historical grab M676826.

Sample Number:	L840394	UTM:	554411	mE	Nad83, Zone 8
Elevation:	1697 m	UTM:	6954831	mN	

Comments: Chip across 3m outcrop in northeast-trending linear. Very fractured and altered light bluish-grey crystalline rock with dark red tarnish.

Sample Number:	L840395	UTM:	554419	mE	Nad83, Zone 8
Elevation:	1707 m	UTM:	6954812	mN	

Comments: Chip sample over 5m adjacent to east-northeast trending linear, historical mineralized sample. Oxidized granodiorite: fine-grained bluish-grey with trace arsenopyrite disseminated.

Rock Sample Descriptions Property: Snail

Sample Number:	L840396	UTM:	554737	mE	Nad83, Zone 8
Elevation:	1670 m	UTM:	6954580	mN	
Comments:	Chip sample over 5m outcrop very altered and tarnished siliceous siltstone.				

Sample Number:	L840397	UTM:	554727	mE	Nad83, Zone 8
Elevation:	1674 m	UTM:	6954586	mN	
Comments:	Chip sample over 5m outcrop very altered and tarnished siliceous siltstone.				

Sample Number:	L840398	UTM:	554712	mE	Nad83, Zone 8
Elevation:	1677 m	UTM:	6954595	mN	
Comments:	Chip sample over 5m outcrop very altered and tarnished siliceous siltstone.				

Sample Number:	L840399	UTM:	554030	mE	Nad83, Zone 8
Elevation:	1568 m	UTM:	6954890	mN	
Comments:	Chip sample over 4 meter horizontal trench				

Sample Number:	L840400	UTM:	554030	mE	Nad83, Zone 8
Elevation:	1568 m	UTM:	6954890	mN	
Comments:					

Sample Number:	L840439	UTM:	553755	mE	Nad83, Zone 8
Elevation:	1444 m	UTM:	6956018	mN	
Comments:					

Sample Number:	L840440	UTM:	553757	mE	Nad83, Zone 8
Elevation:	1478 m	UTM:	6954714	mN	
Comments:					

Rock Sample Descriptions Property: Snail

Sample Number:	L840441	UTM:	553756	mE	Nad83, Zone 8
Elevation:	1477 m	UTM:	6954714	mN	
Comments:					
Sample Number:	L840442	UTM:	553756	mE	Nad83, Zone 8
Elevation:	1477 m	UTM:	6954714	mN	
Comments:					
Sample Number:	L840443	UTM:	553762	mE	Nad83, Zone 8
Elevation:	1478 m	UTM:	6954724	mN	
Comments:					
Sample Number:	L840444	UTM:	553762	mE	Nad83, Zone 8
Elevation:	1479 m	UTM:	6954725	mN	
Comments:					
Sample Number:	L840445	UTM:	553762	mE	Nad83, Zone 8
Elevation:	1478 m	UTM:	6954725	mN	
Comments:					
Sample Number:	L840446	UTM:	553768	mE	Nad83, Zone 8
Elevation:	1492 m	UTM:	6954740	mN	
Comments:					
Sample Number:	L840447	UTM:	553767	mE	Nad83, Zone 8
Elevation:	1493 m	UTM:	6954741	mN	
Comments:					

Rock Sample Descriptions Property: Snail

Sample Number:	L840448	UTM:	553767	mE	Nad83, Zone 8
Elevation:	1491 m	UTM:	6954741	mN	
Comments:					

Sample Number:	L840449	UTM:	553574	mE	Nad83, Zone 8
Elevation:	1568 m	UTM:	6953939	mN	
Comments:	Chip across 3 m				

Sample Number:	L840450	UTM:	553574	mE	Nad83, Zone 8
Elevation:	1567 m	UTM:	6953939	mN	
Comments:	Chip across 2 m				

Sample Number:	M676620	UTM:	554625	mE	Nad83, Zone 8
Elevation:	1724 m	UTM:	6954699	mN	
Comments:	Subcrop grab. Grey siltstone with ~5% arsenopyrite, very fine-grained disseminated. Dark purple tarnish.				

Sample Number:	M676621	UTM:	554695	mE	Nad83, Zone 8
Elevation:	1678 m	UTM:	6954604	mN	
Comments:	Chip across 5m outcrop. Light grey siliceous siltstone with <1% very fine-grained disseminated arsenopyrite. Very fractured with dark red and orange tarnish and minor limonite locally. Adjacent to historical mineralization in altered siliceous siltstone.				

Sample Number:	M676982	UTM:	554386	mE	Nad83, Zone 8
Elevation:	1683 m	UTM:	6955803	mN	
Comments:	Siliceous siltstone with mm to sub-mm scale quartz veinlets predominantly concordant with 060/85 jointing. Arsenopyrite, pyrrhotite, and chalcopyrite present in veinlets.				

Rock Sample Descriptions Property: Snail

Sample Number:	M676983	UTM:	554088	mE	Nad83, Zone 8
Elevation:	1588 m	UTM:	6955749	mN	
Comments:	Siliceous siltstone with sub-mm to mm scale quartz veinlets. Quartz veinlets contain epidote, carbonate (minor) and arsenopyrite.				

Sample Number:	M676984	UTM:	554153	mE	Nad83, Zone 8
Elevation:	1590 m	UTM:	6955811	mN	
Comments:	Siliceous siltstone with quartz veinlets containg arsenopyrite, chalcopyrite, and pyrite.				

Sample Number:	M676985	UTM:	554197	mE	Nad83, Zone 8
Elevation:	1618 m	UTM:	6955873	mN	
Comments:	Siliceous silstone with quartz veinlets containing disseminated sulphides.				

Sample Number:	M676986	UTM:	554359	mE	Nad83, Zone 8
Elevation:	1665 m	UTM:	6955999	mN	
Comments:	Siliceous silstone with quartz veinlets containing disseminated sulphides.				

Sample Number:	M676987	UTM:	554440	mE	Nad83, Zone 8
Elevation:	1693 m	UTM:	6956027	mN	
Comments:	Siliceous silstone with quartz veinlets containing disseminated sulphides.				

Sample Number:	M676988	UTM:	555596	mE	Nad83, Zone 8
Elevation:	1662 m	UTM:	6955608	mN	
Comments:	Oxidation within light grey chert that appears to be focussed along 190/80 joints. Rock has a 'grotty' texture, is limonitic, and also contains a rust orange oxidation as well as a metallic blue/purple surface staining.				

Rock Sample Descriptions Property: Snail

Sample Number:	M676989	UTM:	555558	mE	Nad83, Zone 8
Elevation:	1663 m	UTM:	6955629	mN	

Comments: Light grey chert with irregular dark grey to blue siliceous veinlets . Oxidized horizon is limonitic, and also contains a rust orange oxidation as well as a metallic blue/purple surface staining.

Sample Number:	M676990	UTM:	555398	mE	Nad83, Zone 8
Elevation:	1546 m	UTM:	6955853	mN	

Comments: Strongly oxidized horizon within bedded to massive siltstone.

Sample Number:	M676991	UTM:	555268	mE	Nad83, Zone 8
Elevation:	1569 m	UTM:	6955810	mN	

Comments: Strongly oxidized silstone along fault/linear. Rusty brown oxidation, scorderite, and limonite present.

Sample Number:	M676992	UTM:	553658	mE	Nad83, Zone 8
Elevation:	1492 m	UTM:	6955811	mN	

Comments: 90 degree trending zone of oxidation within light grey siliceous siltstone. Horizon approximately 5 m thick. Scorderite, pyrite, and arsenopyrite present.

Sample Number:	M676993	UTM:	553479	mE	Nad83, Zone 8
Elevation:	1575 m	UTM:	6955220	mN	

Comments: Oxidized dark grey siliceous siltstone with hairline fractures and mm-scale quartz veinlets containing disseminated sulphides. Pyrite and arsenopyrite visible.

Sample Number:	M676994	UTM:	553448	mE	Nad83, Zone 8
Elevation:	1573 m	UTM:	6955231	mN	

Comments: Strongly oxidized siliceous siltstone with mm-scale quartz veinlets containing arsenopyrite and pyrite. Oxidation appears to be focused along 190/70 joints.

Rock Sample Descriptions Property: Snail

Sample Number:	M676995	UTM:	553007	mE	Nad83, Zone 8
Elevation:	1429 m	UTM:	6955372	mN	
Comments:	10 m wide oxidized zone within light grey laminated siltstone. Pyrite and arsenopyrite can be found within and adjacent to mm-scale quartz veinlets.				
Sample Number:	M896401	UTM:	553574	mE	Nad83, Zone 8
Elevation:	1568 m	UTM:	6953939	mN	
Comments:	Chip across 3 m				
Sample Number:	M896402	UTM:	553563	mE	Nad83, Zone 8
Elevation:	1409 m	UTM:	6953951	mN	
Comments:	Chip across 3 m				
Sample Number:	M896403	UTM:	553563	mE	Nad83, Zone 8
Elevation:	1408 m	UTM:	6953951	mN	
Comments:	Chip across 2 m				
Sample Number:	M896404	UTM:	553563	mE	Nad83, Zone 8
Elevation:	1407 m	UTM:	6953951	mN	
Comments:	Chip across 3 m				
Sample Number:	M896405	UTM:	553578	mE	Nad83, Zone 8
Elevation:	1428 m	UTM:	6953934	mN	
Comments:	Chip across 2 m				
Sample Number:	M896406	UTM:	553578	mE	Nad83, Zone 8
Elevation:	1429 m	UTM:	6953934	mN	
Comments:	Chip across 2 m				

Rock Sample Descriptions Property: Snail

Sample Number:	M896407	UTM:	553578 mE	Nad83, Zone 8
Elevation:	1429 m	UTM:	6953935 mN	

Comments: Chip across 2 m

Rock Sample Descriptions Property: SNAP

Sample Number:	M355854	UTM:	600557	mE	Nad83, Zone 8
Elevation:	1554 m	UTM:	6911788	mN	

Comments: Angular 43 x 27 x 20 cm block. Brown-yellow weathering, siliceous light grey on fresh face with 7-10% pyrite, 3% medium-grained galena, white-grey silica and light green sericite alteration. From the south bank of '5 Aces Creek'.

Sample Number:	M355855	UTM:	600650	mE	Nad83, Zone 8
Elevation:	1538 m	UTM:	6911883	mN	

Comments: Semi-angular float boulder with rusty red-brown weathering. Light grey-white siliceous quartz breccia with 20% fine-grained silver sulphide (arsenopyrite?) and 2% black sphalerite. Also contains .5 x 2 cm clasts with vFG light green-grey marcasite and 2% light green scorodite. Very siliceous material. From northwest bank of '5 Aces Creek'.

Sample Number:	M355856	UTM:	600561	mE	Nad83, Zone 8
Elevation:	1543 m	UTM:	6911979	mN	

Comments: Rusty dark-orange weathering of grey-white very siliceous rock. Contains 2% light green scorodite, 4% disseminated to fine-grained clusters of arsenopyrite. Hosted in flat-lying boulder train of felsic granitoid boulders up to 0.5m in diameter. Peacock coloured 'live limonite' on weathered surface.

Sample Number:	M355857	UTM:	600568	mE	Nad83, Zone 8
Elevation:	1568 m	UTM:	6912154	mN	

Comments: Siliceous grey white with 3-5% fine-grained grey marcasite and 1-2% blebs disseminated arsenopyrite. Yellow-green oxide. From a 040 degree trending bench with granitoid boulders.

Sample Number:	M355915	UTM:	601624	mE	Nad83, Zone 8
Elevation:	1677 m	UTM:	6913649	mN	

Comments: Composite over 10m. Felsic intrusive float train, very fractured, 5-10m wide, 25 m long. Quartz lenses, minor disseminated pyrite.

Sample Number:	M355916	UTM:	601593	mE	Nad83, Zone 8
Elevation:	1700 m	UTM:	6913649	mN	

Comments: Composite over 10 m. Cementer quartz, chert float, fractured with very minor pyrite and galena.

Rock Sample Descriptions Property: SNAP

Sample Number:	M355917	UTM:	601447	mE	Nad83, Zone 8
Elevation:	1745 m	UTM:	6913934	mN	
Comments:	Composite over 10 m. Rusty bull quartz float with limonite and minor disseminated pyrite.				

Sample Number:	M355918	UTM:	600316	mE	Nad83, Zone 8
Elevation:	1878 m	UTM:	6913606	mN	
Comments:	Composite over 10 m outcrop/subcrop very fractured phyllite contact with minor disseminated pyrite.				

Sample Number:	M355919	UTM:	600561	mE	Nad83, Zone 8
Elevation:	1542 m	UTM:	6911907	mN	
Comments:	Float boulder grab, football size. Very fractured quartz breddia along creek. Semi-massive galena and arsenopyrite?, manganese and scorodite.				

Sample Number:	M355920	UTM:	601332	mE	Nad83, Zone 8
Elevation:	1793 m	UTM:	6911387	mN	
Comments:	Float boulder grab, football size. Very fractured quartz breccia along creek, semi-massive galena, arsenopyrite? Manganese and scorodite.				

Sample Number:	M355921	UTM:	600530	mE	Nad83, Zone 8
Elevation:	1563 m	UTM:	6912008	mN	
Comments:	Float boulder grab, football size. Very fractured quartz breccia along creek, semi-massive galena, arsenopyrite? Manganese and scorodite.				

Sample Number:	M355922	UTM:	600501	mE	Nad83, Zone 8
Elevation:	1621 m	UTM:	6912290	mN	
Comments:	Float boulder grab, basketball size. Very fractured, quartz-limonite and manganese. No visible sulphides.				

Rock Sample Descriptions Property: SNAP

Sample Number:	M355923	UTM:	600412	mE	Nad83, Zone 8
Elevation:	1584 m	UTM:	6912062	mN	
Comments:	Float boulder grab, football size. Very fractured quartz breccia along creek. Semi-massive galena, arsenopyrite? With manganese and scorodite.				

Sample Number:	M355924	UTM:	600540	mE	Nad83, Zone 8
Elevation:	1783 m	UTM:	6911080	mN	
Comments:	Composite over 10m. Dark black crystalline phyllite, very fractured with minor disseminated pyrite, horizontally bedded seam 1-2m thick.				

Sample Number:	M355925	UTM:	600910	mE	Nad83, Zone 8
Elevation:	1830 m	UTM:	6911227	mN	
Comments:	Composite over 10m. Dark black crystalline phyllite, very fractured with minor disseminated pyrite, horizontally bedded seam 1-2m thick. 5% disseminated pyrite				

Sample Number:	M355926	UTM:	600972	mE	Nad83, Zone 8
Elevation:	1838 m	UTM:	6911297	mN	
Comments:	Composite over 10m. Dark black crystalline phyllite, very fractured with minor disseminated pyrite, horizontally bedded seam 1-2m thick. 5% disseminated pyrite				

Sample Number:	M355927	UTM:	601141	mE	Nad83, Zone 8
Elevation:	1853 m	UTM:	6911321	mN	
Comments:	Composite over 10m. Bedded seam 1-2m thick exposed over 20m. Grey, greenish white banded quartz, white oxide coating.				

Sample Number:	M355928	UTM:	601134	mE	Nad83, Zone 8
Elevation:	1846 m	UTM:	6911320	mN	
Comments:	Composite over 15m. Bedded seam 1-2m thick exposed over 20m. Grey, greenish white banded quartz, white oxide coating.				

Rock Sample Descriptions Property: SNAP

Sample Number:	M355929	UTM:	601150	mE	Nad83, Zone 8
Elevation:	1845 m	UTM:	6911314	mN	
Comments:	Composite over 10m. Bedded seam 1-2m thick exposed over 20m. Grey, greenish white banded quartz, white oxide coating.				

Sample Number:	M355930	UTM:	601332	mE	Nad83, Zone 8
Elevation:	1793 m	UTM:	6911387	mN	
Comments:	Composite over 10m. Bedded seam 1-2m thick exposed over 20m. Grey, greenish white banded quartz, white oxide coating.				

Sample Number:	M355933	UTM:	600683	mE	Nad83, Zone 8
Elevation:	1528 m	UTM:	6911893	mN	
Comments:	Float grab, football-sized boulder. Quartz, schist, semi-massive pyrite breccia.				

Sample Number:	M355951	UTM:	600130	mE	Nad83, Zone 8
Elevation:	1554 m	UTM:	6912727	mN	
Comments:	Heavily oxidized zone with quartz-feldspar-muscovite phyllite cut by vuggy quartz veining. Quartz flooding shows bands of arsenopyrite. Very rusty quartz vein intrudes phyllite along joint set, ~20cm thick.				

Sample Number:	M355952	UTM:	599865	mE	Nad83, Zone 8
Elevation:	1538 m	UTM:	6912065	mN	
Comments:					

Sample Number:	M355953	UTM:	599754	mE	Nad83, Zone 8
Elevation:	1543 m	UTM:	6912142	mN	
Comments:	Alteration at 320 degrees. Grey/pink weathered, pink to light grey fresh: orthogneiss?				

Sample Number:	M355954	UTM:	599754	mE	Nad83, Zone 8
Elevation:	1568 m	UTM:	6912142	mN	
Comments:	Oxidized horizon parallel to gneissic banding in grey/pink orthogneiss. Horizon strikes 240 degrees				

Rock Sample Descriptions Property: Vat

Sample Number:	M355959	UTM:	595186	mE	Nad83, Zone 8
Elevation:	1554 m	UTM:	6910570	mN	

Comments: Non-calcareous chloritized phyllite in contact with coarse-grained granodiorite. Phyllite is mid-brown to orange weathered and medium green/grey fresh weathered horizons are biotite and plagioclase, with disseminated pyrite and arsenopyrite.

Sample Number:	M676622	UTM:	597807	mE	Nad83, Zone 8
Elevation:	1526 m	UTM:	6908686	mN	

Comments: Bedrock grab. Semi-vitreous concordant quartz veining through oxidized biotite +- garnet (?) schist. Material is oxidized with minor limonite and dark tarnish.

Sample Number:	M676623	UTM:	597805	mE	Nad83, Zone 8
Elevation:	1526 m	UTM:	6908683	mN	

Comments: Bedrock grab. Semi-vitreous concordant quartz veining through oxidized biotite +- garnet (?) schist. Material is oxidized with minor limonite and dark tarnish, biotite in cm-scale clusters, dm-scale quartz vein.

Sample Number:	M676624	UTM:	597809	mE	Nad83, Zone 8
Elevation:	1527 m	UTM:	6908689	mN	

Comments: Bedrock grab. Oxidized and clay altered biotite schist adjacent to quartz veining.

Sample Number:	M676625	UTM:	597725	mE	Nad83, Zone 8
Elevation:	1576 m	UTM:	6908222	mN	

Comments: Bedrock grab. Dark red and orange tarnished biotite schist with quartz fragments. Minor limonite and grungy yellow clay.

Sample Number:	M676626	UTM:	597664	mE	Nad83, Zone 8
Elevation:	1612 m	UTM:	6907806	mN	

Comments: Subcrop grab. Fine-grained dark green mica schist with oxidized concordant quartz veining, soft black coating on fracture faces streaks white. Minor blebs calcareous material, sub-mm.

Rock Sample Descriptions Property: Vat

Sample Number:	M676627	UTM:	597740	mE	Nad83, Zone 8
Elevation:	1709 m	UTM:	6907542	mN	
Comments:	Subcrop grab. Medium-grained granite with white clay and limonite preferential replacement (of micas presumably), ~10%.				

Sample Number:	M676628	UTM:	597877	mE	Nad83, Zone 8
Elevation:	1728 m	UTM:	6907194	mN	
Comments:	Bedrock grab. Very oxidized biotite-schist with white clay weathering and minor limonite (~2%).				

Sample Number:	M676629	UTM:	597898	mE	Nad83, Zone 8
Elevation:	1723 m	UTM:	6907096	mN	
Comments:	Float composite (10 pieces over 5x5m along linear). Massive quartz vein material with oxidized fractures. ~5% limonite and white clay.				

Sample Number:	M676630	UTM:	598153	mE	Nad83, Zone 8
Elevation:	1662 m	UTM:	6906466	mN	
Comments:	Float grab. Quartz and white-yellow talcy lustre mineral vein material with ~10% sub-cm tourmaline, in limonitic schist.				

Sample Number:	M676631	UTM:	597724	mE	Nad83, Zone 8
Elevation:	1821 m	UTM:	6910351	mN	
Comments:	Float composite (10 pieces over 3x5m). Dark red and orange oxidized medium-grained quartz with light green alteration. Minor limonite on fracture faces (~1%).				

Sample Number:	M676632	UTM:	597497	mE	Nad83, Zone 8
Elevation:	1699 m	UTM:	6910354	mN	
Comments:	Near-source float composite (10 pieces over 3x3m). Medium-grained quartz with ~10% cm-scale tourmaline, 15% cm-scale muscovite, ~15% soft white mineral (interstitial), and 3% mm-scale pink garnets. Oxidized to bright orange, with ~2% limonite in tourmaline clusters. At the contact between the batholith and metasediments.				

Rock Sample Descriptions Property: Vat

Sample Number:	M896408	UTM:	597808	mE	Nad83, Zone 8
Elevation:	1623 m	UTM:	6909406	mN	

Comments: Float grab. Oxidized quartz vein material with very fine disseminated sulphides and sub-mm dark stringers.

Rock Sample Descriptions Property: Vent

Sample Number:	H805423	UTM:	605671 mE	Nad83, Zone 8	
Elevation:	1655 m	UTM:	6932246 mN		
Comments:	Representive chip of 1.5x0.75 m boulder, intensely limonite altered conglomerate. Quartzite compisies much of the clasts (rounded) in limonite matrix. This material is common in this area				

Sample Number:	H805424	UTM:	605669 mE	Nad83, Zone 8	
Elevation:	1660 m	UTM:	6932243 mN		
Comments:	Fine grain limonite conglomerate. 0.5 to 1 cm clasts. Taken uphill from H805423. Possible subcrop				

Sample Number:	H805425	UTM:	605585 mE	Nad83, Zone 8	
Elevation:	1712 m	UTM:	6932123 mN		
Comments:	Ash tuff with 1 cm band of arsenopyrite found in float pile. Float of this is rare. All occurences <10 cm				

Sample Number:	L840484	UTM:	606005 mE	Nad83, Zone 8	
Elevation:	1665 m	UTM:	6931697 mN		
Comments:	Float grab of medium-grained quartzite with mm-scale quartz crystals (veining) and boxwork limonite.				

Sample Number:	L840485	UTM:	605945 mE	Nad83, Zone 8	
Elevation:	1697 m	UTM:	6931831 mN		
Comments:	Coarse-grained quartz vein with limonite vug fill, sulphurous smell. Near source float grab.				

Sample Number:	L840486	UTM:	605946 mE	Nad83, Zone 8	
Elevation:	1698 m	UTM:	6931834 mN		
Comments:	Medium grained quartz very altered grungy yellow-orange, limonite fill and abundant cubic dark brown mineral (?) . Altered quartzite or chill margin of quartz vein of L840485. Near source float grab.				

Sample Number:	M676907	UTM:	605716 mE	Nad83, Zone 8	
Elevation:	1749 m	UTM:	6931872 mN		
Comments:	Medium-grained quartz rick granitoid with ~3% sulphides. Float grab from subcrop.				

Rock Sample Descriptions Property: Weld

Sample Number:	L840415	UTM:	611713	mE	Nad83, Zone 8
Elevation:	1546 m	UTM:	6927077	mN	
Comments:					

Sample Number:	L840417	UTM:	611701	mE	Nad83, Zone 8
Elevation:	1572 m	UTM:	6927076	mN	
Comments:	Trench 2 Chip Sample across 1 m hanging wall of fault				

Sample Number:	L840418	UTM:	611701	mE	Nad83, Zone 8
Elevation:	1572 m	UTM:	6927076	mN	
Comments:	Trench 2 Chip Sample across 20 cm of rubbly red fault gauge				

Sample Number:	L840419	UTM:	611701	mE	Nad83, Zone 8
Elevation:	1572 m	UTM:	6927076	mN	
Comments:	Trench 2 Chip Sample across 1 m foot wall of fault				

Sample Number:	L840461	UTM:	612181	mE	Nad83, Zone 8
Elevation:	1542 m	UTM:	6925822	mN	
Comments:	Float grab from boulder slope. Adamantine vuggy quartz vein with minor sphalerite in vugs and pitted limonite. Float is with grey to teal silicified horsfelsed chert.				

Sample Number:	L840462	UTM:	612898	mE	Nad83, Zone 8
Elevation:	1568 m	UTM:	6926067	mN	
Comments:	Composite sample across 3m outcrop. Hornsfelsed black shale with minor sub-cm quartz veining and sub-mm arsenopyrite veinlets.				

Sample Number:	L840463	UTM:	612822	mE	Nad83, Zone 8
Elevation:	1557 m	UTM:	6925801	mN	
Comments:	Grab sample from outcrop of light greyish teal chert with mm-scale very-fine-grained galena veinlets.				

Rock Sample Descriptions Property: Weld

Sample Number:	L840464	UTM:	612625	mE	Nad83, Zone 8
Elevation:	1595 m	UTM:	6925844	mN	
Comments:	Composite sample of ~12 fragments over 2 x 2m area. Vuggy limonite upslope from hand trenches.				

Sample Number:	L840465	UTM:	612179	mE	Nad83, Zone 8
Elevation:	1580 m	UTM:	6926369	mN	
Comments:	Float grab of quartz vein fragment / complete quartz replacement of chert near base of bouldery slope. Vugs filled with limonite.				

Sample Number:	L840466	UTM:	612460	mE	Nad83, Zone 8
Elevation:	1602 m	UTM:	6926413	mN	
Comments:	Composite of ~10 pieces over 4 x 4m area, abundant silica replaced mudstone with limonite vugs and fractures, iridescent tarnish.				

Sample Number:	L840467	UTM:	612439	mE	Nad83, Zone 8
Elevation:	1590 m	UTM:	6926435	mN	
Comments:	Intensely altered mudstone with limonite vugs, high G, from base area of bouldery slope.				

Sample Number:	L840468	UTM:	611608	mE	Nad83, Zone 8
Elevation:	1559 m	UTM:	6927274	mN	
Comments:	Composite from float 12 pcs 1 x 1m. Dark red oxidized, silica recrystallized chert with limonite veinlets and vugs.				

Sample Number:	L840469	UTM:	611606	mE	Nad83, Zone 8
Elevation:	1557 m	UTM:	6927294	mN	
Comments:	Light grey silica recrystallized chert with very fine dark swales and mm-scale clusters of fine-grained galena. Bedrock grab of material representative of larger subcrop area.				

Sample Number:	L840470	UTM:	611613	mE	Nad83, Zone 8
Elevation:	1555 m	UTM:	6927326	mN	
Comments:	Light grey silica recrystallized chert with cm-scale dark grey porous vugs.				

Rock Sample Descriptions Property: Weld

Sample Number:	L840471	UTM:	611582	mE	Nad83, Zone 8
Elevation:	1581 m	UTM:	6927028	mN	
Comments:	Friable hornsfelsed black shale with white mm-scale wisps, limonite in fractures and pores. Grab from exposed rocky hill.				
Sample Number:	L840472	UTM:	611207	mE	Nad83, Zone 8
Elevation:	1593 m	UTM:	6927024	mN	
Comments:	Float grab of vuggy limonitic boxwork in medium-grained quartz fragment.				
Sample Number:	L840473	UTM:	611383	mE	Nad83, Zone 8
Elevation:	1493 m	UTM:	6924947	mN	
Comments:	Friable hornsfelsed medium blue aphanitic sediments with limonite coating and replacement of mm-scale quartz veins.				
Sample Number:	L840474	UTM:	611399	mE	Nad83, Zone 8
Elevation:	1493 m	UTM:	6924923	mN	
Comments:	Composite sample of outcrop of foliated friable 'slate' with orange and yellow fracture surfaces. Minor cm0scale quartz veining with limonite vugs.				
Sample Number:	L840475	UTM:	611335	mE	Nad83, Zone 8
Elevation:	1482 m	UTM:	6924860	mN	
Comments:	Gougy limonitic material, white clay alteration and quartz crystals from exposed surface of outcrop (appears to be planar feature).				
Sample Number:	L840476	UTM:	611373	mE	Nad83, Zone 8
Elevation:	1485 m	UTM:	6924771	mN	
Comments:	Vuggy limonite in pervasively quartz altered mudstone near source float composite (~10 pcs, 3 x3 m)				
Sample Number:	L840477	UTM:	611385	mE	Nad83, Zone 8
Elevation:	1483 m	UTM:	6924765	mN	
Comments:	Vuggy fibrous limonite in fault structure, across steep linear from L840476. Bedrock grab.				

Rock Sample Descriptions Property: Weld

Sample Number:	L840478	UTM:	611715	mE	Nad83, Zone 8
Elevation:	1564 m	UTM:	6927076	mN	
Comments:	Dark red rubbly fault gouge, quartz fragments, limonite, and dark friable material from Trench 1.				

Sample Number:	L840479	UTM:	611715	mE	Nad83, Zone 8
Elevation:	1563 m	UTM:	6927076	mN	
Comments:	Silica recrystallized teal chert with minor limonite on hanging wall of fault in trench 1.				

Sample Number:	L840480	UTM:	611715	mE	Nad83, Zone 8
Elevation:	1562 m	UTM:	6927076	mN	
Comments:	Silicified and altered teal chert with minor quartz fragments and limonitic coating, footwall of fault in trench 1.				

Sample Number:	L840481	UTM:	613061	mE	Nad83, Zone 8
Elevation:	1643 m	UTM:	6925423	mN	
Comments:	Float grab from bouldery slope, dark grey mudstone with sub-mm galena (~1%) in clusters. Minor quartz veining with limonitic vuggy fill.				

Sample Number:	L840482	UTM:	613181	mE	Nad83, Zone 8
Elevation:	1644 m	UTM:	6925380	mN	
Comments:	Float grab of quartz brecciated dark grey mudstone with vug-filling limonite.				

Sample Number:	L840483	UTM:	613166	mE	Nad83, Zone 8
Elevation:	1660 m	UTM:	6924280	mN	
Comments:	Composite sample of ~12 pieces over 10m southwest trending line of angular cobbles - boulders. Porous limonite with euhedral quartz in dark grey mudstone material.				

Rock Sample Descriptions Property: X

Sample Number:	K280907	UTM:	596832	mE	Nad83, Zone 8
Elevation:	1601 m	UTM:	6936877	mN	

Comments: Near-source float composite (10 pieces over 4x4m). Intensely silicified light bluish-grey rock with red staining and ~15% limonite and goethite in deformation patterns.

Sample Number:	K280908	UTM:	596835	mE	Nad83, Zone 8
Elevation:	1606 m	UTM:	6936882	mN	

Comments: Float composite (10 pieces over 2 x 5m). Quartz veining to complete silica erplacement of grey rock. Minor hematitic staining. ~1% sphalerite in mm-scale veinlets, oxidation surrounds fractures throughout. ~.5% goethite.

Sample Number:	K280909	UTM:	596521	mE	Nad83, Zone 8
Elevation:	1702 m	UTM:	6937170	mN	

Comments: Float grab. Pebble to cobble silty chert breccia with limonite/goethite matrix. Fine sulphides disseminated in matrix (~2%). Mm-scale pyrrhotite. Hematite ~10% of matrix.

Sample Number:	K280910	UTM:	595865	mE	Nad83, Zone 8
Elevation:	1656 m	UTM:	6937387	mN	

Comments: Float grab. Grotty very altered limone filled rock among approximately in situ oxidized siltstone, with sparse quartz veining and dark red iridescent tarnish.

Sample Number:	M676611	UTM:	598246	mE	Nad83, Zone 8
Elevation:	1344 m	UTM:	6936193	mN	

Comments: Bedrock composite (10 pieces over 2x2m). Soft white mineral (scheelite?) veining in altered siltstone, yellow clay weathering.

Sample Number:	M676612	UTM:	598249	mE	Nad83, Zone 8
Elevation:	1344 m	UTM:	6936194	mN	

Comments: Bedrock composite (5 pieces, 3x3m). Altered siltstone with limonite, quartz material adjacent to scheelite (?) veining.

Rock Sample Descriptions Property: X

Sample Number:	M676613	UTM:	598673	mE	Nad83, Zone 8
Elevation:	1686 m	UTM:	6934795	mN	
Comments:	Metre scale oxidized horizon of plagioclase quartz schist, running parallel with 150/30 foliation. Limonite and manganese staining present.				

Sample Number:	M676614	UTM:	598574	mE	Nad83, Zone 8
Elevation:	1663 m	UTM:	6934824	mN	
Comments:	Metre scale oxidized horizon of plagioclase quartz schist, running parallel with 150/30 foliation. Limonite and manganese staining present.				

Sample Number:	M676615	UTM:	598558	mE	Nad83, Zone 8
Elevation:	1699 m	UTM:	6934957	mN	
Comments:	Metre scale oxidized horizon of plagioclase quartz schist, running parallel with 150/30 foliation. Abundant limonite with lesser manganese staining present.				

Sample Number:	M676616	UTM:	596747	mE	Nad83, Zone 8
Elevation:	1586 m	UTM:	6936834	mN	
Comments:	Oxidized horizon within massive to laminated siliceous siltstone. Oxidation is most notable along 080/50 joint. Manganese staining and minor limonite present.				

Sample Number:	M676617	UTM:	596759	mE	Nad83, Zone 8
Elevation:	1598 m	UTM:	6936850	mN	
Comments:	Oxidized horizon within massive to laminated siliceous siltstone. Oxidation is most notable along 080/50 joint. Manganese staining and minor limonite present.				

Sample Number:	M676618	UTM:	597141	mE	Nad83, Zone 8
Elevation:	1650 m	UTM:	6937067	mN	
Comments:	Bleached chert with a vesicular-like texture in highly oxidized zone (rubbly outcrop with poor exposure). Limonite and manganese staining.				

Rock Sample Descriptions Property: X

Sample Number:	M676619	UTM:	597234 mE	Nad83, Zone 8
Elevation:	1637 m	UTM:	6937057 mN	

Comments: Bleached chert with a vesicular-like texture in highly oxidized zone (rubbly outcrop with poor exposure). Limonite and manganese staining. Irregular quartz veinlets present throughout outcrop.

Rock Sample Descriptions Property: XI

Sample Number:	L840374	UTM:	599429	mE	Nad83, Zone 8
Elevation:	1514 m	UTM:	6934894	mN	
Comments:					

Sample Number:	L840375	UTM:	598580	mE	Nad83, Zone 8
Elevation:	1674 m	UTM:	6935000	mN	
Comments:					

Sample Number:	L840376	UTM:	598580	mE	Nad83, Zone 8
Elevation:	1675 m	UTM:	6935000	mN	
Comments:					

Sample Number:	L840377	UTM:	598574	mE	Nad83, Zone 8
Elevation:	1675 m	UTM:	6934969	mN	
Comments:					

Sample Number:	L840378	UTM:	598574	mE	Nad83, Zone 8
Elevation:	1482 m	UTM:	6934969	mN	
Comments:					

Sample Number:	M676601	UTM:	598576	mE	Nad83, Zone 8
Elevation:	1678 m	UTM:	6935014	mN	
Comments:	Float and subcrop composite (10 pieces over 10x10m), material is scattered, sparse. Granule quartz conglomerate with calcite and quartz veining, ~5% limonite in vugs and on fracture faces.				

Sample Number:	M676602	UTM:	598573	mE	Nad83, Zone 8
Elevation:	1694 m	UTM:	6934967	mN	
Comments:	Bedrock composite (12 pieces over 3m of 50cm wide structure). Altered rock, extensively limonite weathered in fault in granule quartz conglomerate.				

Rock Sample Descriptions Property: XI

Sample Number:	M676603	UTM:	598747	mE	Nad83, Zone 8
Elevation:	1729 m	UTM:	6934647	mN	

Comments: Bedrock and near-source float composite (15 pieces, 3x3m). Very dark red and orange medium-grained grey rock (quartz SST/quartzite?) with ~3% vuggy limonite. Quite heavy.

Sample Number:	M676604	UTM:	599372	mE	Nad83, Zone 8
Elevation:	1663 m	UTM:	6934635	mN	

Comments: Near-source float composite (5 pieces over 2x2m). Quartz recrystallized sediments with deformed quartz veining, white clay and limonite cm-scale blebs. Outcrop is adjacent to pronounced linear depression.

Sample Number:	M676605	UTM:	599406	mE	Nad83, Zone 8
Elevation:	1661 m	UTM:	6934600	mN	

Comments: Near-source float grab. Brecciated quartzite with quartz veining. Heavy, and with a sulphurous odour. Pervasive yellow clay alteration and limonite in vugs (~10%).

Sample Number:	M676606	UTM:	599330	mE	Nad83, Zone 8
Elevation:	1476 m	UTM:	6934918	mN	

Comments: Float grab from creek bed. Heavy dark grey siltstone with graphite on irregular fractures, limonitic tarnish and yellow clay minor.

Sample Number:	M676607	UTM:	598972	mE	Nad83, Zone 8
Elevation:	1436 m	UTM:	6935150	mN	

Comments: Bedrock composite (20 pieces over 2x3m). Very altered dark red and orange, carbonaceous dark grey siltstone with quartz veining, ~3% limonite.

Sample Number:	M676608	UTM:	599030	mE	Nad83, Zone 8
Elevation:	1516 m	UTM:	6934941	mN	

Comments: Bedrock grab. Heavy, altered siltstone with red staining. Yellow clay and limonite in fractures (~2%).

Rock Sample Descriptions Property: XI

Sample Number:	M676609	UTM:	598985	mE	Nad83, Zone 8
Elevation:	1606 m	UTM:	6934748	mN	

Comments: Bedrock composite (12 pieces over 2x4m). Very altered friable grey rock with red alteration, yellow clay and limonite.

Sample Number:	M676610	UTM:	599313	mE	Nad83, Zone 8
Elevation:	1523 m	UTM:	6934845	mN	

Comments: Bedrock composite (10 pieces over 2x2m). Altered siltstone and fracture fill limonite and altered rock surrounding structure.

Rock Sample Descriptions Property: XV

Sample Number:	L840318	UTM:	625762	mE	Nad83, Zone 8
Elevation:	1365 m	UTM:	6921386	mN	
Comments:	Swaley foliated altered grey siltstone and quartz veins with sphalerite aligned with foliations. Minor orange oxidation. See photo.				

Sample Number:	L840319	UTM:	625577	mE	Nad83, Zone 8
Elevation:	1363 m	UTM:	6921466	mN	
Comments:	orously weathered grotty orange/brown rock in mossy hillside.				

Sample Number:	L840320	UTM:	625441	mE	Nad83, Zone 8
Elevation:	1333 m	UTM:	6921719	mN	
Comments:	Intensely oxidized granodiorite with minor micas.				

Sample Number:	L840321	UTM:	625493	mE	Nad83, Zone 8
Elevation:	1345 m	UTM:	6921678	mN	
Comments:	Oxidized granodiorite with minor (<.1%)sphalerite and limonite coating.				

Sample Number:	L840322	UTM:	625487	mE	Nad83, Zone 8
Elevation:	1343 m	UTM:	6921672	mN	
Comments:	Chip (every 50cm for 4m) down deformed grey shale at contact with granodiorite.				

Sample Number:	L840323	UTM:	627429	mE	Nad83, Zone 8
Elevation:	1494 m	UTM:	6919547	mN	
Comments:	Green altered quartzose siltstone with mm-scale quartz crystals and bladed calcite, clusters of pyrite, and chalcopyrite, minor galena? Bedrock grab.				

Sample Number:	L840324	UTM:	626710	mE	Nad83, Zone 8
Elevation:	1477 m	UTM:	6920368	mN	
Comments:	Bright green clay altered (malachite?) and oxidized limey siltstone with ~.5% pyrite. Bedrock grab.				

Rock Sample Descriptions Property: XV

Sample Number:	L840325	UTM:	626922	mE	Nad83, Zone 8
Elevation:	1427 m	UTM:	6920580	mN	
Comments:	Medium grey quartz rich crystalline limestone with foliation, adjacent to felsic dyke, oxidized, porous, but no vis. Min.				

Sample Number:	L840326	UTM:	625746	mE	Nad83, Zone 8
Elevation:	1420 m	UTM:	6921145	mN	
Comments:	Intensely silica altered medium grey siltstone.				

Sample Number:	L840327	UTM:	626327	mE	Nad83, Zone 8
Elevation:	1555 m	UTM:	6920021	mN	
Comments:	Quartzite/grey siltstone with quartz blebs with minor (.01%) pyrite.				

Sample Number:	L840328	UTM:	625858	mE	Nad83, Zone 8
Elevation:	1550 m	UTM:	6920222	mN	
Comments:	Silica altered siltstone in planar fractures with malachite (1%) and fine disseminated sulphides. Bedrock grab.				

Sample Number:	L840329	UTM:	625482	mE	Nad83, Zone 8
Elevation:	1566 m	UTM:	6920324	mN	
Comments:	Chip sample across outcrop of silicified siltstone with fine disseminated sulphides in quartz blebs.				

Sample Number:	L840330	UTM:	627945	mE	Nad83, Zone 8
Elevation:	1397 m	UTM:	6920468	mN	
Comments:	Intensely oxidized very fine-grained siliceous mudstone with minor fine disseminated sulphides locally. Rep sample across outcrop.				

Sample Number:	L840331	UTM:	626042	mE	Nad83, Zone 8
Elevation:	1350 m	UTM:	6921361	mN	
Comments:	Rock sample from pit at soil sample ZZ08307.				

Rock Sample Descriptions Property: XV

Sample Number:	L840351	UTM:	627738	mE	Nad83, Zone 8
Elevation:	1403 m	UTM:	6920524	mN	
Comments:	Pit dug at anomaly soil sample #ZZ45723				

Sample Number:	L840352	UTM:	627742	mE	Nad83, Zone 8
Elevation:	1402 m	UTM:	6920524	mN	
Comments:	Rock sample found at nearest outcrop to sample #ZZ45723				

Sample Number:	L840353	UTM:	627790	mE	Nad83, Zone 8
Elevation:	1355 m	UTM:	6920841	mN	
Comments:	Rock sample taken from nearest outcrop to sample #ZZ083436				

Sample Number:	L840354	UTM:	627825	mE	Nad83, Zone 8
Elevation:	1266 m	UTM:	6921246	mN	
Comments:	Rock sample taken from felsenmeer.				

Sample Number:	L840355	UTM:	626755	mE	Nad83, Zone 8
Elevation:	1574 m	UTM:	6918536	mN	
Comments:	Very fine grained, laminated, light teal, silicious, siltstone.				

Sample Number:	L840401	UTM:	627513	mE	Nad83, Zone 8
Elevation:	1400 m	UTM:	6920278	mN	
Comments:					

Sample Number:	L840402	UTM:	627607	mE	Nad83, Zone 8
Elevation:	1489 m	UTM:	6920457	mN	
Comments:					

Rock Sample Descriptions Property: XV

Sample Number:	L840403	UTM:	625506	mE	Nad83, Zone 8
Elevation:	1351 m	UTM:	6921634	mN	
Comments:					

Sample Number:	L840404	UTM:	626550	mE	Nad83, Zone 8
Elevation:	1480 m	UTM:	6920525	mN	
Comments:					

Rock Sample Descriptions Property: XVI

Sample Number:	L840306	UTM:	584989	mE	Nad83, Zone 8
Elevation:	1003 m	UTM:	6938463	mN	

Comments: Dark grey siliceous siltstone with weak foliation, disseminated arsenopyrite to mm-scale clusters.

Sample Number:	L840308	UTM:	585000	mE	Nad83, Zone 8
Elevation:	1003 m	UTM:	6938465	mN	

Comments: Foliated light/dark swaley bands of siliceous grey siltstone with arsenopyrite disseminated aligned with foliation.

Rock Sample Descriptions Property: XXII

Sample Number:	L840427	UTM:	603510	mE	Nad83, Zone 8
Elevation:	1503 m	UTM:	6932802	mN	
Comments:					

Sample Number:	L840428	UTM:	602590	mE	Nad83, Zone 8
Elevation:	1532 m	UTM:	6933181	mN	
Comments:					

Sample Number:	L840433	UTM:	601868	mE	Nad83, Zone 8
Elevation:	1579 m	UTM:	6933325	mN	
Comments:					

Sample Number:	L840434	UTM:	602706	mE	Nad83, Zone 8
Elevation:	1579 m	UTM:	6933153	mN	
Comments:					

Sample Number:	M676909	UTM:	603335	mE	Nad83, Zone 8
Elevation:	1435 m	UTM:	6932873	mN	
Comments:	Quartz replacement and brecciation of bedded silstone/sandstone. Pore space contains limonite, fine sulphides (galena? Friable small crystals of dark silver mineral). Composite bedrock grab, 6 pieces along alteration/quartz plane (~2m).				

Sample Number:	M676910	UTM:	603327	mE	Nad83, Zone 8
Elevation:	1425 m	UTM:	6932892	mN	
Comments:	Very altered medium-grained quartz sill material, bedrock composite (10 pieces over 2 x 2m) ~10% limonite.				

Sample Number:	M676911	UTM:	603327	mE	Nad83, Zone 8
Elevation:	1425 m	UTM:	6932892	mN	
Comments:	Very altered dark red, white and yellow clays, ~10% limonite fractured and foliated sediments adjacent to quartzolite sill. Bedrock composite (10 pieces, 2 x2m).				

Rock Sample Descriptions Property: XXII

Sample Number:	M676912	UTM:	602883	mE	Nad83, Zone 8
Elevation:	1563 m	UTM:	6933132	mN	
Comments:	Intermixed quartz material with altered sediments, ~3% limonite. Bedrock and near-source float composite (12 pieces, 3x3m).				
Sample Number:	M676913	UTM:	602862	mE	Nad83, Zone 8
Elevation:	1562 m	UTM:	6933143	mN	
Comments:	Porous limonite and white clays in pervasively altered fine-grained sediments with minor quartz material. Bedrock composite (10 pieces, 2x2m).				
Sample Number:	M676914	UTM:	602706	mE	Nad83, Zone 8
Elevation:	1554 m	UTM:	6933148	mN	
Comments:	Very dark red iridescent altered sediments with ~10% sphalerite, 20% micas, 5% galena, 2% limonite. Near-source float grab.				
Sample Number:	M676915	UTM:	603166	mE	Nad83, Zone 8
Elevation:	1528 m	UTM:	6932880	mN	
Comments:	Composite float (10 pieces, 4x4m). Quartzose sediments with ~5% limonite, 2% sphalerite, 1% galena, 1% pyrite . Exterior of rocks is very dark red iridescent tarnish and limonite dusting.				
Sample Number:	M676916	UTM:	603205	mE	Nad83, Zone 8
Elevation:	1495 m	UTM:	6932892	mN	
Comments:	Bedrock grab - altered sediments with fragments of irregular quartz veining. Minor sphalerite, pyrite, limonite.				
Sample Number:	M676917	UTM:	602668	mE	Nad83, Zone 8
Elevation:	1531 m	UTM:	6932838	mN	
Comments:	Medium-grained crystalline quartz with 10% cubic sphalerite and cubic orange voids. Fine yellow clays and limonite in matrix. Float grab.				

Rock Sample Descriptions Property: XXII

Sample Number:	M676918	UTM:	602644	mE	Nad83, Zone 8
Elevation:	1541 m	UTM:	6933166	mN	
Comments:	Very altered limonitic sediments with vuggy quartz fragments. Float composite, near source (10 pieces, 3x3m).				

Sample Number:	M676919	UTM:	602590	mE	Nad83, Zone 8
Elevation:	1540 m	UTM:	6933180	mN	
Comments:	Limonitic matrix quartz vein material with ~10% mm-grains of sphalerite. Float composite (near source, 10 pieces, 3x3m).				

Sample Number:	M676920	UTM:	602361	mE	Nad83, Zone 8
Elevation:	1387 m	UTM:	6933392	mN	
Comments:	Bedrock grab. Very heavy and hard to break grey rock with light aphanitic deformation swales. Minor crystalline epidote: skarnified limestone?				

Sample Number:	M676921	UTM:	602363	mE	Nad83, Zone 8
Elevation:	1380 m	UTM:	6933375	mN	
Comments:	Very altered friable dark red and orange fault rock with minor white clays. Near source float composite (10 pieces, 3x3m).				

Sample Number:	M676922	UTM:	603546	mE	Nad83, Zone 8
Elevation:	1546 m	UTM:	6932667	mN	
Comments:	Very altered dark red slate/phyllitic mudstone with iridescent limonite tarnish, quartz fragments, ~5% limonite. Bedrock composite (10 pieces, 2x2m).				

Sample Number:	M676923	UTM:	603491	mE	Nad83, Zone 8
Elevation:	1519 m	UTM:	6932788	mN	
Comments:	Bedrock composite (20 pieces over ~25m of outcrop). Very altered dark red and limonitic sediments.				

Rock Sample Descriptions Property: XXII

Sample Number:	M676924	UTM:	603515	mE	Nad83, Zone 8
Elevation:	1504 m	UTM:	6932803	mN	
Comments:	Composite float (20 pieces over 4x4m) of gossan, partly from pit dug at CC142485. Very altered dark red and limonitic sediments, light grey/blue siliceous recrystallized siltstone.				

Sample Number:	M676925	UTM:	603549	mE	Nad83, Zone 8
Elevation:	1480 m	UTM:	6932829	mN	
Comments:	Bedrock grab of limonitic quartz material.				

Sample Number:	M676926	UTM:	602003	mE	Nad83, Zone 8
Elevation:	1547 m	UTM:	6932658	mN	
Comments:	Near-source float composite (12 pieces over 2x2m). Orange to red altered siliceous dark grey siltstone with limonite and clays on fracture faces.				

Sample Number:	M676927	UTM:	601852	mE	Nad83, Zone 8
Elevation:	1519 m	UTM:	6933167	mN	
Comments:	Bedrock grab. Fault breccia with cm-scale clasts of limey siltstone and dark grey siliceous siltstone. Matrix is quartz, calcite, limonite, and rosy fine sulphides. Very heavy.				

Sample Number:	M676928	UTM:	601871	mE	Nad83, Zone 8
Elevation:	1513 m	UTM:	6933248	mN	
Comments:	Near-source float composite (10 pieces over 2x2m). Fractured limey siltstone with quartz recrystallization, ~10% limonite in vugs.				

Rock Sample Descriptions Property: XXV

Sample Number:	M676901	UTM:	608359	mE	Nad83, Zone 8
Elevation:	1454 m	UTM:	6932164	mN	
Comments:	Very altered chert breccia with ~5% sphalerite, 3% limonite. Composite float 5 pieces over 5m.				

Sample Number:	M676902	UTM:	608586	mE	Nad83, Zone 8
Elevation:	1448 m	UTM:	6932044	mN	
Comments:	Float grab of quartz vein material with limonite in altered light teal chert.				

Sample Number:	M676903	UTM:	608596	mE	Nad83, Zone 8
Elevation:	1451 m	UTM:	6932041	mN	
Comments:	Quartz-brecciated chert with limonite vugs. Red stain/alteration minor. Float grab from subcrop.				

Sample Number:	M676904	UTM:	608830	mE	Nad83, Zone 8
Elevation:	1510 m	UTM:	6932116	mN	
Comments:	Float grab from angular boulders in side of linear depression. Pebble breccia of black chert with dark orange and limonite matrix, 2% sphalerite.				

Sample Number:	M676905	UTM:	608744	mE	Nad83, Zone 8
Elevation:	1456 m	UTM:	6931938	mN	
Comments:	Composite float 15 pieces over 5x5m area, material is abundant. Limonite matrix with minor quartz, black chert granule to pebble conglomerate.				

Sample Number:	M676906	UTM:	608730	mE	Nad83, Zone 8
Elevation:	1462 m	UTM:	6931957	mN	
Comments:	Composite bedrock, 10 pieces over 2m. Grungy yellow fractured quartzolite material with limonite powder.				

APPENDIX V

CERTIFICATES OF ANALYSIS

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 19-JUN-2013
Account: RANSIL

CERTIFICATE WH13104918

Project: KEG - XVI

P.O. No.:

This report is for 1 Soil sample submitted to our lab in Whitehorse, YT, Canada on 13-JUN-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS41	51 anal. aqua regia ICPMS	

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Finalized Date: 19-JUN-2013
Account: RANSIL

Project: KEG - XVI

CERTIFICATE OF ANALYSIS WH13104918

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
CC106250		0.13	0.001	0.30	0.17	0.8	<0.2	<10	20	<0.05	0.02	0.04	0.07	1.22	0.9	1

***** See Appendix Page for comments regarding this certificate *****

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Project: KEG - XVI

CERTIFICATE OF ANALYSIS WH13104918

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
CC106250		0.35	2.6	0.25	1.00	<0.05	<0.02	0.01	<0.005	0.03	0.7	0.8	0.02	17	0.11	0.03

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Project: KEG - XVI

CERTIFICATE OF ANALYSIS WH13104918

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
CC106250		0.19	1.0	40	0.9	3.3	<0.001	<0.01	0.10	0.2	<0.2	<0.2	8.2	<0.01	<0.01	0.2

***** See Appendix Page for comments regarding this certificate *****

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CERTIFICATE OF ANALYSIS WH13104918

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
CC106250		0.017	<0.02	0.07	9	<0.05	0.23	7	<0.5

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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 19- JUN- 2013
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CERTIFICATE OF ANALYSIS WH13104918

	CERTIFICATE COMMENTS
Applies to Method:	

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Finalized Date: 21-JUN-2013
Account: RANSIL

CERTIFICATE WH13104919

Project: KEG - XVI

P.O. No.:

This report is for 2 Rock samples submitted to our lab in Whitehorse, YT, Canada on 13-JUN-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70%<2mm
SPL-21	Split sample - riffle splitter
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
PUL-31	Pulverize split to 85%<75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Au-AA24	Au 50g FA AA finish	AAS

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Finalized Date: 21-JUN-2013
Account: RANSIL

Project: KEG - XVI

CERTIFICATE OF ANALYSIS WH13104919

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
L840306		0.35	0.12	5.96	12.1	1430	1.71	0.18	2.60	0.11	69.4	4.3	91	9.77	7.8	1.65
L840308		0.42	0.36	4.73	3.2	1320	1.46	0.32	8.25	2.00	57.0	3.6	66	1.92	10.5	3.14

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Project: KEG - XVI

CERTIFICATE OF ANALYSIS WH13104919

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
L840306		14.65	0.19	2.0	0.016	3.51	42.0	29.6	0.66	44	1.36	0.43	16.7	24.7	500	14.1
L840308		11.20	0.18	1.6	0.067	2.11	33.5	9.8	2.02	253	1.74	0.13	15.2	27.0	510	3.2

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CERTIFICATE OF ANALYSIS WH13104919

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1
L840306		153.0	0.003	0.76	1.99	7.2	1	1.6	198.5	0.91	<0.05	9.7	0.311	2.02	3.1	339
L840308		91.8	<0.002	1.00	2.64	6.9	2	3.0	463	0.78	0.06	8.5	0.257	0.74	2.9	291

***** See Appendix Page for comments regarding this certificate *****

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Finalized Date: 21-JUN-2013
Account: RANSIL

Project: KEG - XVI

CERTIFICATE OF ANALYSIS WH13104919

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm
	LOR	0.1	0.1	2	0.5	0.005
L840306		1.2	15.3	53	77.9	<0.005
L840308		0.8	20.7	243	61.5	<0.005

***** See Appendix Page for comments regarding this certificate *****

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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 21- JUN- 2013
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Project: KEG - XVI

CERTIFICATE OF ANALYSIS WH13104919

	CERTIFICATE COMMENTS
Applies to Method:	

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Finalized Date: 21-JUN-2013
Account: RANSIL

CERTIFICATE WH13107390

Project: KEG - Hammer

P.O. No.:

This report is for 5 Rock samples submitted to our lab in Whitehorse, YT, Canada on 13-JUN-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70%<2mm
SPL-21	Split sample - riffle splitter
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
PUL-31	Pulverize split to 85%<75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Au-AA24	Au 50g FA AA finish	AAS

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
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***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Finalized Date: 21-JUN-2013
Account: RANSIL

Project: KEG - Hammer

CERTIFICATE OF ANALYSIS WH13107390

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
L840313		0.52	0.79	7.54	145.0	610	5.21	1.73	0.43	0.20	74.4	1.9	12	8.07	4.5	1.32
L840314		0.29	2.04	7.59	149.5	370	6.64	1.63	0.18	1.17	67.8	0.9	9	16.60	8.9	1.55
L840315		0.59	0.59	7.81	11.1	930	5.44	0.76	0.44	0.74	83.5	4.6	10	19.00	3.4	1.40
L840316		0.44	0.39	7.42	15.3	590	5.57	0.68	0.66	0.25	75.8	2.1	13	7.58	3.2	1.33
L840317		0.66	0.10	7.47	4.1	540	10.05	0.74	0.55	0.12	64.8	2.0	12	10.30	2.1	1.16

***** See Appendix Page for comments regarding this certificate *****

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Finalized Date: 21- JUN- 2013
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Project: KEG - Hammer

CERTIFICATE OF ANALYSIS WH13107390

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
L840313		24.0	0.21	1.8	0.024	4.44	37.2	72.0	0.27	247	0.53	1.77	9.7	2.8	520	67.9
L840314		25.9	0.20	1.7	0.030	3.93	34.8	189.5	0.18	868	0.24	0.42	12.0	2.2	550	161.0
L840315		26.4	0.23	2.0	0.030	4.36	44.3	190.0	0.20	12550	0.34	1.13	11.6	5.4	530	69.8
L840316		25.4	0.22	1.9	0.033	3.94	36.6	56.8	0.31	423	0.26	2.08	10.8	2.9	530	65.8
L840317		26.2	0.22	2.0	0.022	3.94	32.7	56.1	0.28	333	0.19	2.37	14.0	2.5	670	45.7

***** See Appendix Page for comments regarding this certificate *****

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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 21- JUN- 2013
Account: RANSIL

Project: KEG - Hammer

CERTIFICATE OF ANALYSIS WH13107390

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1
L840313		277	<0.002	0.01	1.63	3.1	1	7.8	146.0	1.04	<0.05	19.7	0.153	2.14	6.7	17
L840314		336	<0.002	0.05	8.74	3.6	1	18.5	65.4	1.53	<0.05	15.1	0.146	3.37	12.8	16
L840315		266	<0.002	<0.01	1.13	3.9	1	7.2	142.0	1.18	<0.05	21.1	0.179	2.10	6.9	20
L840316		235	<0.002	<0.01	0.80	3.9	1	7.1	177.5	0.99	<0.05	20.3	0.177	1.64	6.8	20
L840317		282	<0.002	<0.01	0.20	3.3	1	14.2	153.0	2.62	<0.05	15.5	0.161	1.97	5.0	18

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Project: KEG - Hammer

CERTIFICATE OF ANALYSIS WH13107390

Sample Description	Method Analyte Units LOR	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Au-AA24 Au ppm 0.005
L840313		1.3	7.3	75	68.1	<0.005
L840314		2.3	6.0	270	61.4	<0.005
L840315		1.5	12.7	2110	75.1	<0.005
L840316		0.9	7.4	147	75.4	0.120
L840317		1.6	6.9	58	69.3	<0.005

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Total # Appendix Pages: 1
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Project: KEG - Hammer

CERTIFICATE OF ANALYSIS WH13107390

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Account: RANSIL

CERTIFICATE WH13107391

Project: KEG - Vent

P.O. No.:

This report is for 3 Rock samples submitted to our lab in Whitehorse, YT, Canada on 13-JUN-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70%<2mm
CRU-QC	Crushing QC Test
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test
PUL-31	Pulverize split to 85%<75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Finalized Date: 21- JUN- 2013
Account: RANSIL

Project: KEG - Vent

CERTIFICATE OF ANALYSIS WH13107391

Sample Description	Method	WEI-21	Au-AA24	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
H805423		0.60	<0.005	2.61	2.81	1230	960	2.73	1.36	0.05	11.70	61.3	5.0	34	6.18	282
H805424		0.54	<0.005	1.79	3.93	864	1750	4.57	0.96	0.06	5.29	102.0	2.9	41	3.67	309
H805425		0.26	0.012	73.1	6.69	>10000	970	1.24	28.7	0.03	5.19	46.8	3.0	81	5.76	303

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Finalized Date: 21- JUN- 2013
Account: RANSIL

Project: KEG - Vent

CERTIFICATE OF ANALYSIS WH13107391

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
H805423		15.60	5.28	0.15	0.7	0.033	0.83	31.2	20.9	0.13	168	3.38	0.02	3.8	45.9	3670
H805424		12.65	7.10	0.27	0.7	0.032	1.07	46.9	25.7	0.14	147	2.84	0.02	4.6	47.0	4400
H805425		5.13	20.2	0.44	1.5	0.441	3.12	24.4	30.3	0.43	59	4.67	0.03	11.5	9.2	430

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CERTIFICATE OF ANALYSIS WH13107391

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
H805423		80.9	57.5	<0.002	0.05	70.0	2.6	5	8.7	67.7	0.25	0.10	3.3	0.092	0.79	3.9
H805424		170.5	70.8	<0.002	0.07	95.4	2.4	6	23.3	202	0.31	0.12	3.9	0.110	0.92	4.6
H805425		1565	186.0	<0.002	1.16	143.0	11.4	152	59.7	37.2	0.85	1.63	10.7	0.323	4.41	3.8

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Finalized Date: 21-JUN-2013
Account: RANSIL

Project: KEG - Vent

CERTIFICATE OF ANALYSIS WH13107391

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm
	LOR	1	0.1	0.1	2	0.5
H805423		142	1.5	24.2	911	31.2
H805424		196	1.1	28.6	513	31.0
H805425		262	2.0	12.5	160	55.5

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Project: KEG - Vent

CERTIFICATE OF ANALYSIS WH13107391

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Finalized Date: 23-JUN-2013
Account: RANSIL

CERTIFICATE WH13107392

Project: KEG - Keg South

P.O. No.:

This report is for 6 Rock samples submitted to our lab in Whitehorse, YT, Canada on 13-JUN-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70%<2mm
CRU-QC	Crushing QC Test
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test
PUL-31	Pulverize split to 85%<75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
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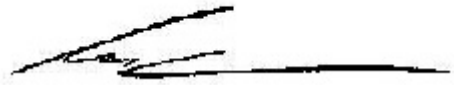
This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature: 

Colin Ramshaw, Vancouver Laboratory Manager

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Finalized Date: 23- JUN- 2013
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Project: KEG - Keg South

CERTIFICATE OF ANALYSIS WH13107392

Sample Description	Method	WEI-21	Au-AA24	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L840301		0.25	<0.005	0.13	5.71	8.4	1100	1.16	0.69	2.06	0.25	40.0	1.8	9	4.62	4.9
L840302		0.56	<0.005	0.03	6.26	37	2540	1.27	0.11	11.00	1.28	106.5	47.0	313	15.85	52.2
L840303		0.39	0.008	0.02	5.46	5	1390	1.31	0.06	10.60	0.30	101.5	56.8	267	4.06	29.1
L840304		0.65	<0.005	0.20	6.66	34	7030	2.87	3.74	17.65	1.07	167.0	40.3	204	7.80	54.4
L840305		0.32	<0.005	0.09	2.96	<5	540	0.60	0.11	10.70	0.10	38.9	18.0	196	1.54	324
L840307		0.15	<0.005	0.58	4.11	6.5	60	1.34	0.48	6.27	0.22	71.0	5.6	57	1.20	39.5

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Project: KEG - Keg South

CERTIFICATE OF ANALYSIS WH13107392

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
L840301		1.13	18.45	0.11	1.8	0.055	2.00	15.6	43.1	0.38	165	1.00	0.20	11.0	7.3	960
L840302		7.21	16.80	0.19	3.0	0.079	3.48	51.6	243	2.40	1180	0.15	0.58	65.2	277	2030
L840303		9.10	14.35	0.19	2.8	0.055	1.40	55.5	74.4	8.60	1460	0.19	0.05	67.5	176.5	2460
L840304		7.13	16.25	0.22	5.2	0.107	1.12	87.6	96.7	2.37	1710	0.43	0.22	94.1	118.5	3080
L840305		4.84	8.64	0.17	0.9	0.067	1.93	19.8	35.0	4.98	1200	1.37	0.29	21.1	56.0	1210
L840307		4.72	13.45	0.19	2.2	0.040	0.17	39.0	15.7	4.21	355	2.01	0.08	10.9	19.4	1690

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Finalized Date: 23- JUN- 2013
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Project: KEG - Keg South

CERTIFICATE OF ANALYSIS WH13107392

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
L840301		7.2	71.2	0.003	0.32	2.31	3.5	5	5.4	126.0	1.23	0.16	11.5	0.081	1.01	7.3
L840302		6.4	163.0	0.002	0.02	0.98	27.7	4	6.1	248	3.81	<0.05	7.0	1.205	0.61	1.1
L840303		2.6	55.7	<0.002	<0.01	0.50	24.6	1	1.4	76.3	3.81	<0.05	6.1	1.155	0.10	1.6
L840304		22.9	59.4	<0.002	0.12	2.89	29.6	2	23.0	311	5.36	<0.05	9.4	1.495	0.21	2.3
L840305		2.6	37.9	<0.002	0.03	0.42	13.3	2	0.6	81.2	1.25	<0.05	2.7	0.433	0.13	0.7
L840307		2.5	14.9	<0.002	1.14	0.59	12.5	8	2.3	171.0	0.76	0.18	9.6	0.261	0.14	4.2

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Finalized Date: 23- JUN- 2013
Account: RANSIL

Project: KEG - Keg South

CERTIFICATE OF ANALYSIS WH13107392

Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
L840301		7	3.2	21.5	60	45.4
L840302		427	0.9	19.2	114	109.0
L840303		206	0.4	20.5	142	103.5
L840304		217	2.0	24.2	130	209
L840305		110	0.9	11.0	16	21.1
L840307		347	1.1	45.9	114	71.7

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CERTIFICATE OF ANALYSIS WH13107392

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Finalized Date: 22- JUN- 2013
Account: RANSIL

CERTIFICATE WH13107393

Project: KEG (Keg - Main)

P.O. No.:

This report is for 4 Rock samples submitted to our lab in Whitehorse, YT, Canada on 13- JUN- 2013.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- 31	Fine crushing - 70%< 2mm
CRU- QC	Crushing QC Test
SPL- 21	Split sample - riffle splitter
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%< 75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA24	Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
Ag- OG62	Ore Grade Ag - Four Acid	VARIABLE
Pb- OG62	Ore Grade Pb - Four Acid	VARIABLE

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
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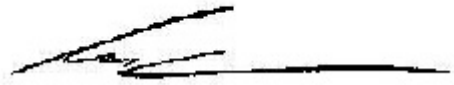
This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature: 

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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To: **SILVER RANGE RESOURCES LTD.**
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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 22- JUN- 2013
Account: RANSIL

Project: KEG (Keg - Main)

CERTIFICATE OF ANALYSIS WH13107393

Sample Description	Method	WEI-21	Au-AA24	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L840309		0.41	<0.005	9.89	4.07	8.8	430	1.16	8.34	7.64	98.7	53.1	4.5	61	5.78	1810
L840310		0.38	<0.005	>100	3.74	1260	920	0.44	250	0.35	2.52	19.85	0.5	58	6.35	362
L840311		0.49	0.022	75.2	2.78	>10000	680	0.28	75.1	0.36	82.1	13.20	29.7	38	2.62	580
L840312		0.50	<0.005	44.4	4.28	378	1720	1.03	110.5	2.39	6.29	49.5	3.6	77	5.72	236

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Finalized Date: 22- JUN- 2013
Account: RANSIL

Project: KEG (Keg - Main)

CERTIFICATE OF ANALYSIS WH13107393

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
L840309		3.61	11.65	0.18	1.7	5.42	1.06	28.4	17.8	2.74	1750	2.05	0.20	8.7	30.5	990
L840310		8.03	12.10	0.66	2.3	6.57	4.24	10.2	78.2	1.02	119	1.88	0.11	8.8	2.2	710
L840311		8.71	9.26	1.01	0.9	14.85	3.37	5.8	12.9	0.33	126	1.62	0.08	4.1	38.3	450
L840312		2.83	12.50	0.34	2.2	2.01	3.89	24.5	34.4	2.22	283	1.20	0.16	9.2	23.4	650

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CERTIFICATE OF ANALYSIS WH13107393

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
L840309		271	53.0	0.007	1.09	5.41	8.0	20	339	181.0	0.69	0.06	7.1	0.302	0.51	2.9
L840310		>10000	268	<0.002	1.41	38.1	5.9	270	381	122.5	0.64	1.09	5.0	0.302	3.37	2.0
L840311		>10000	176.0	0.004	4.60	87.5	5.2	400	257	95.6	0.29	1.26	2.8	0.143	2.36	1.4
L840312		3280	199.0	0.004	0.62	9.65	9.7	68	134.5	121.0	0.69	0.22	7.7	0.311	1.84	2.6

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Finalized Date: 22-JUN-2013
Account: RANSIL

Project: KEG (Keg - Main)

CERTIFICATE OF ANALYSIS WH13107393

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	Pb-OG62
	Analyte	V	W	Y	Zn	Zr	Ag	Pb
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	1	0.1	0.1	2	0.5	1	0.001
L840309		72	2.0	25.3	5410	57.4		
L840310		80	52.3	8.6	568	79.6	125	1.820
L840311		33	1.4	7.7	5720	32.0		3.20
L840312		76	3.0	23.6	420	73.0		

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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 22- JUN- 2013
Account: RANSIL

Project: KEG (Keg - Main)

CERTIFICATE OF ANALYSIS WH13107393

	CERTIFICATE COMMENTS
Applies to Method:	

ALS Canada Ltd.

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To: **SILVER RANGE RESOURCES LTD.**
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1016-510 W HASTINGS ST
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Finalized Date: 4-JUL-2013
Account: RANSIL

CERTIFICATE WH13115627

Project: KEG (XV)

P.O. No.:

This report is for 52 Soil samples submitted to our lab in Whitehorse, YT, Canada on 25-JUN-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS41	51 anal. aqua regia ICPMS	

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
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***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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To: **SILVER RANGE RESOURCES LTD.**
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VANCOUVER BC V6B 1L8

Finalized Date: 4-JUL-2013
Account: RANSIL

Project: KEG (XV)

CERTIFICATE OF ANALYSIS WH13115627

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ44765		0.28	<0.001	0.05	0.22	0.4	<0.2	<10	20	<0.05	0.01	0.11	0.02	3.43	0.5	1
ZZ44766		0.25	<0.001	0.02	0.15	0.1	<0.2	<10	20	<0.05	0.01	0.08	<0.01	2.10	0.3	<1
ZZ44767		0.21	0.001	0.25	0.92	9.5	<0.2	<10	90	0.28	0.27	0.12	0.34	26.6	1.9	22
ZZ44775		0.20	0.004	0.78	1.40	43.9	<0.2	<10	230	0.75	0.49	0.55	0.79	40.4	11.0	34
ZZ44776		0.37	0.003	2.00	1.34	91.5	<0.2	<10	110	1.10	0.54	0.25	2.36	43.0	18.4	45
ZZ44777		0.34	0.004	1.40	1.62	40.0	<0.2	<10	170	1.01	0.66	0.45	1.69	46.4	8.8	44
ZZ44778		0.28	0.002	1.44	1.81	49.3	<0.2	<10	150	0.98	0.70	0.44	1.48	43.7	11.7	48
ZZ44779		0.16	0.001	1.38	1.32	27.2	<0.2	<10	130	0.45	0.45	0.11	0.62	22.4	3.3	34
ZZ44780		0.34	0.003	1.58	1.45	123.0	<0.2	<10	240	0.75	0.34	0.55	0.92	39.3	6.1	39
ZZ44781		0.32	0.001	0.66	0.73	7.0	<0.2	<10	100	0.23	0.13	0.08	0.34	17.20	1.6	11
ZZ44782		0.33	0.003	0.75	1.95	31.3	<0.2	<10	280	0.93	0.33	0.53	0.81	46.1	11.4	59
ZZ44783		0.27	0.002	0.38	1.37	35.7	<0.2	<10	210	0.82	0.29	0.57	0.69	48.2	8.5	48
ZZ44784		0.30	0.001	0.58	1.43	22.3	<0.2	<10	150	0.62	0.28	0.21	0.76	35.0	6.2	29
ZZ44785		0.31	0.003	0.84	1.66	24.7	<0.2	<10	150	0.67	0.26	0.23	0.61	34.2	6.0	36
ZZ44786		0.37	0.002	0.64	1.03	21.3	<0.2	<10	150	0.44	0.39	0.25	0.72	31.2	4.9	26
ZZ44787		0.27	0.009	3.21	1.19	134.5	<0.2	<10	180	1.35	0.58	0.20	2.08	52.9	6.2	38
ZZ44788		0.27	0.002	0.31	1.23	58.0	<0.2	<10	120	0.37	0.41	0.17	0.63	34.7	3.9	28
ZZ44789		0.40	0.002	0.67	1.96	88.8	<0.2	<10	170	0.94	0.51	0.40	1.41	40.2	9.5	56
ZZ44790		0.21	0.029	26.8	0.77	405	<0.2	<10	130	0.61	12.30	0.49	11.80	47.3	10.4	25
ZZ44791		0.29	0.002	0.84	1.59	24.6	<0.2	<10	250	0.76	0.48	0.79	0.82	31.3	11.8	44
ZZ44792		0.31	0.002	0.77	1.71	32.4	<0.2	<10	220	1.36	0.39	1.52	1.49	42.9	12.0	34
ZZ44793		0.28	<0.001	0.31	0.85	12.4	<0.2	<10	110	0.24	0.28	0.09	0.67	26.8	2.9	14
ZZ44794		0.40	0.004	1.93	0.42	68.5	<0.2	<10	130	0.47	0.35	0.11	1.22	43.4	5.3	18
ZZ44795		0.36	0.009	1.17	1.20	315	<0.2	<10	120	1.31	0.24	0.39	0.40	65.5	9.6	22
ZZ44796		0.29	0.003	1.16	0.74	32.5	<0.2	<10	80	0.63	0.19	0.10	1.89	20.0	5.9	18
ZZ44797		0.24	0.001	0.72	1.02	23.4	<0.2	<10	100	0.40	0.17	0.14	2.05	16.35	4.7	24
ZZ44798		0.36	0.003	0.74	1.84	29.5	<0.2	<10	160	0.97	0.32	0.39	1.20	36.7	11.3	46
ZZ44799		0.22	0.001	0.31	0.63	9.6	<0.2	<10	80	0.23	0.16	0.09	0.28	17.90	1.6	11
ZZ44800		0.46	0.002	0.58	1.28	29.7	<0.2	<10	110	0.67	0.28	0.22	0.93	29.5	6.5	29
ZZ44801		0.39	0.002	0.80	1.82	37.8	<0.2	<10	210	1.01	0.31	0.41	1.82	44.6	11.6	48
ZZ44802		0.35	0.003	0.93	0.77	32.1	<0.2	<10	130	0.76	0.25	0.13	0.94	22.7	5.8	19
ZZ44803		0.37	0.007	0.99	0.28	31.2	<0.2	<10	30	1.62	0.13	0.04	4.17	15.15	10.9	10
ZZ44804		0.40	0.002	2.02	0.79	67.8	<0.2	<10	60	1.75	0.24	0.16	11.95	43.2	36.4	30
ZZ44805		0.33	0.001	1.19	0.80	97.0	<0.2	<10	100	0.64	0.35	0.14	1.24	29.2	8.5	21
ZZ44806		0.31	0.001	0.43	1.04	79.1	<0.2	<10	130	0.43	0.26	0.16	0.64	37.3	5.3	28
ZZ44957		0.25	0.001	0.11	1.65	29.9	<0.2	<10	200	0.64	0.18	0.85	0.41	41.0	12.5	53
ZZ44958		0.16	0.002	0.54	1.25	20.6	<0.2	<10	160	0.69	0.13	0.57	0.43	20.7	6.4	27
ZZ44959		0.23	0.007	0.62	1.14	25.2	<0.2	<10	130	0.86	0.14	0.32	0.23	18.40	8.4	29
ZZ44960		0.24	0.001	0.52	0.91	18.9	<0.2	<10	60	0.51	0.10	0.10	0.74	16.05	4.8	21
ZZ44961		0.24	0.001	0.38	1.78	20.9	<0.2	<10	150	0.77	0.22	0.33	0.60	27.2	9.1	44

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VANCOUVER BC V6B 1L8

Finalized Date: 4-JUL-2013
Account: RANSIL

Project: KEG (XV)

CERTIFICATE OF ANALYSIS WH13115627

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ44765		0.06	3.9	0.18	0.87	<0.05	<0.02	<0.01	<0.005	0.02	1.6	0.3	0.03	12	0.09	0.03
ZZ44766		<0.05	1.3	0.07	0.52	<0.05	<0.02	<0.01	<0.005	0.02	0.9	0.3	0.02	7	<0.05	0.03
ZZ44767		3.38	12.8	1.20	5.75	<0.05	<0.02	0.03	0.012	0.08	15.1	6.5	0.23	50	2.34	0.01
ZZ44775		3.73	52.3	2.30	4.47	0.06	0.03	0.07	0.021	0.10	21.3	20.7	0.50	564	8.82	0.02
ZZ44776		9.41	223	2.76	3.81	0.07	0.05	0.04	0.058	0.13	27.1	23.7	0.59	387	26.5	0.02
ZZ44777		4.17	88.2	2.14	4.06	0.07	0.06	0.03	0.026	0.12	25.2	21.1	0.59	239	9.24	0.01
ZZ44778		4.95	90.3	2.48	4.63	0.07	0.10	0.04	0.027	0.14	24.1	26.0	0.58	356	13.30	0.01
ZZ44779		5.67	48.2	1.84	5.37	<0.05	<0.02	0.06	0.020	0.10	13.2	8.5	0.29	82	6.45	0.01
ZZ44780		4.84	53.5	2.05	4.78	0.05	<0.02	0.04	0.023	0.13	22.3	20.0	0.52	195	9.42	0.01
ZZ44781		1.31	11.3	0.75	2.89	<0.05	<0.02	0.02	0.010	0.04	9.5	4.2	0.10	47	1.80	0.02
ZZ44782		4.84	52.2	2.14	5.05	0.07	0.05	0.04	0.024	0.12	25.0	27.9	0.84	237	4.22	0.01
ZZ44783		3.09	40.9	1.89	4.17	0.08	0.06	0.02	0.020	0.09	25.6	23.9	0.79	308	3.20	0.01
ZZ44784		3.30	25.1	1.83	4.43	0.05	0.02	0.04	0.020	0.08	18.4	17.7	0.39	195	4.01	0.01
ZZ44785		3.53	26.9	2.05	4.65	0.05	0.03	0.06	0.024	0.09	18.5	20.6	0.46	175	5.70	0.02
ZZ44786		3.53	29.4	1.38	4.04	<0.05	<0.02	0.02	0.017	0.09	18.0	9.5	0.36	177	6.61	0.01
ZZ44787		6.87	188.5	3.27	3.41	0.08	0.02	0.05	0.051	0.15	33.5	11.5	0.30	183	37.6	0.01
ZZ44788		4.10	22.5	2.40	6.08	<0.05	0.02	0.01	0.020	0.09	19.6	11.4	0.35	149	9.29	0.01
ZZ44789		4.99	90.5	2.32	4.59	0.06	0.07	0.03	0.025	0.11	22.3	24.3	0.65	220	8.05	0.01
ZZ44790		5.01	849	4.29	2.54	0.18	0.14	0.06	0.041	0.12	27.3	9.0	0.21	815	53.2	0.01
ZZ44791		4.63	48.4	2.34	4.74	0.07	0.03	0.06	0.023	0.15	16.6	21.4	0.72	397	3.04	0.04
ZZ44792		3.92	55.8	3.04	5.26	0.09	0.03	0.04	0.025	0.09	24.3	25.1	1.59	954	22.3	0.02
ZZ44793		1.60	13.1	1.12	4.78	<0.05	<0.02	0.01	0.012	0.04	14.3	6.0	0.18	100	3.81	0.01
ZZ44794		6.35	36.4	2.30	1.85	0.07	0.06	0.05	0.028	0.22	26.3	5.9	0.13	219	51.2	0.01
ZZ44795		9.68	97.4	3.23	3.63	0.10	0.03	0.04	0.029	0.09	47.1	19.6	0.30	394	5.11	0.01
ZZ44796		4.43	31.2	2.00	2.72	<0.05	0.02	0.02	0.065	0.10	13.0	10.6	0.64	184	42.5	<0.01
ZZ44797		1.88	22.9	1.66	3.48	<0.05	0.02	0.03	0.022	0.07	9.9	10.0	0.35	138	13.90	0.01
ZZ44798		3.97	50.0	2.02	4.30	0.06	0.10	0.03	0.028	0.11	19.8	22.3	0.64	264	6.57	0.01
ZZ44799		1.71	11.9	0.83	2.97	<0.05	<0.02	0.02	0.011	0.05	10.7	3.6	0.11	45	4.59	0.01
ZZ44800		3.84	31.3	2.08	3.78	<0.05	0.04	0.04	0.029	0.10	16.4	17.6	0.40	197	11.45	<0.01
ZZ44801		3.86	48.6	2.10	4.60	0.07	0.06	0.04	0.025	0.09	23.4	23.7	0.74	286	5.48	0.01
ZZ44802		3.99	46.2	1.98	2.57	<0.05	0.07	0.03	0.027	0.11	14.0	7.1	0.16	87	24.7	<0.01
ZZ44803		6.81	217	2.30	0.88	<0.05	0.20	0.04	0.011	0.09	9.3	2.7	0.03	113	39.0	<0.01
ZZ44804		6.21	124.0	5.35	1.78	0.07	0.03	0.08	0.063	0.09	25.9	4.7	0.09	1080	23.5	<0.01
ZZ44805		4.67	43.8	2.10	3.54	<0.05	<0.02	0.03	0.023	0.08	16.8	7.9	0.19	302	8.36	0.01
ZZ44806		5.37	41.9	2.99	5.26	0.07	0.02	0.04	0.025	0.11	21.8	6.0	0.20	190	19.80	0.01
ZZ44957		5.64	33.5	2.10	5.24	0.10	0.09	0.03	0.014	0.12	19.7	35.4	1.10	350	4.55	0.02
ZZ44958		6.92	36.2	1.49	3.83	<0.05	0.04	0.04	0.013	0.08	11.6	24.0	0.86	302	9.97	0.02
ZZ44959		5.38	66.8	2.04	3.34	0.05	0.14	0.02	0.015	0.13	11.1	18.9	1.07	225	37.4	<0.01
ZZ44960		3.49	42.1	1.50	2.78	<0.05	<0.02	0.03	0.009	0.06	9.3	10.8	0.52	82	12.25	0.01
ZZ44961		4.33	39.4	2.06	5.69	0.06	0.04	0.03	0.015	0.12	13.8	28.5	0.87	296	10.65	0.01

***** See Appendix Page for comments regarding this certificate *****

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To: **SILVER RANGE RESOURCES LTD.**
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 4-JUL-2013
Account: RANSIL

Project: KEG (XV)

CERTIFICATE OF ANALYSIS WH13115627

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ44765		0.22	0.7	400	0.8	0.6	<0.001	<0.01	0.18	0.2	0.3	<0.2	10.0	<0.01	<0.01	<0.2
ZZ44766		0.15	0.3	230	0.3	0.5	<0.001	<0.01	<0.05	0.1	0.2	<0.2	9.4	<0.01	<0.01	<0.2
ZZ44767		0.60	9.2	840	27.0	11.2	<0.001	0.03	1.67	0.1	0.9	0.6	15.6	<0.01	<0.01	<0.2
ZZ44775		2.78	63.4	1070	77.0	18.9	0.001	0.03	43.2	3.2	1.9	0.5	37.8	<0.01	0.04	1.5
ZZ44776		3.06	138.5	1000	204	18.0	0.005	0.03	99.6	3.7	3.1	0.4	26.8	<0.01	0.10	2.7
ZZ44777		4.22	64.3	1380	278	16.0	0.002	0.03	33.2	3.7	2.5	0.6	31.5	<0.01	0.07	4.8
ZZ44778		4.41	58.0	1850	205	18.4	0.002	0.04	27.9	4.0	2.9	0.6	37.0	<0.01	0.07	5.5
ZZ44779		0.68	25.2	1020	100.5	22.8	0.001	0.05	14.40	0.2	1.7	0.6	20.9	<0.01	0.03	<0.2
ZZ44780		1.52	35.4	940	71.4	23.5	0.001	0.09	11.10	1.3	2.1	0.6	48.0	<0.01	0.04	0.2
ZZ44781		0.49	7.0	330	18.8	6.7	<0.001	0.01	1.62	0.3	0.9	0.3	12.8	<0.01	<0.01	<0.2
ZZ44782		4.35	55.3	1140	57.7	17.2	0.001	0.02	8.59	4.6	1.8	0.6	37.1	<0.01	0.05	3.9
ZZ44783		2.62	39.6	1150	51.4	11.4	<0.001	0.01	9.89	4.5	1.5	0.5	37.6	<0.01	0.01	5.5
ZZ44784		2.35	27.3	770	52.6	16.1	0.001	0.01	5.08	2.3	1.5	0.5	21.5	<0.01	0.04	1.7
ZZ44785		3.41	29.8	820	45.0	15.7	<0.001	0.02	5.39	2.9	1.6	0.5	21.1	<0.01	0.03	2.9
ZZ44786		1.48	26.4	670	53.8	18.5	0.001	0.02	6.19	1.3	1.1	0.5	27.9	<0.01	0.03	0.3
ZZ44787		1.08	61.8	3830	193.5	16.5	0.007	0.18	24.0	3.0	9.3	0.5	119.0	<0.01	0.18	1.2
ZZ44788		2.39	21.8	990	61.0	17.6	<0.001	0.01	8.69	1.9	1.3	0.7	23.7	<0.01	0.05	1.1
ZZ44789		4.33	54.5	1110	156.5	17.7	0.002	0.04	19.20	3.9	2.7	0.5	26.4	<0.01	0.06	5.2
ZZ44790		1.43	93.4	1950	4660	14.2	0.014	0.15	300	3.7	56.7	0.5	33.4	<0.01	0.89	7.6
ZZ44791		3.92	53.9	1010	77.9	20.8	0.001	0.01	9.77	4.1	0.9	0.5	35.4	<0.01	0.02	2.4
ZZ44792		1.50	100.0	880	47.4	14.0	0.001	0.01	29.5	4.4	1.7	0.6	58.1	<0.01	0.05	2.7
ZZ44793		1.74	15.1	260	27.1	10.0	<0.001	<0.01	4.84	1.1	0.6	0.6	13.0	<0.01	0.02	0.8
ZZ44794		0.85	45.2	610	78.8	18.7	0.010	0.33	34.6	1.7	5.7	0.4	70.4	<0.01	0.15	3.0
ZZ44795		1.27	52.8	790	27.9	17.5	0.001	0.03	13.15	4.7	2.3	0.4	22.5	<0.01	0.02	6.0
ZZ44796		0.21	72.0	1320	29.3	12.5	0.007	0.09	7.29	0.8	2.5	0.3	36.5	<0.01	0.10	0.7
ZZ44797		1.75	42.0	530	34.5	10.0	0.001	0.05	6.29	1.6	1.2	0.3	24.8	<0.01	0.04	1.4
ZZ44798		3.70	55.6	1420	59.0	13.9	0.002	0.04	8.90	3.6	1.9	0.5	35.8	<0.01	0.05	5.4
ZZ44799		0.38	9.4	380	17.4	8.3	<0.001	0.03	2.11	0.4	1.1	0.3	16.7	<0.01	0.04	0.2
ZZ44800		2.17	43.9	1700	41.2	13.7	0.001	0.04	7.33	2.2	1.8	0.4	32.3	<0.01	0.04	3.1
ZZ44801		3.53	53.9	1080	65.2	12.8	0.001	0.03	9.59	4.3	1.6	0.6	32.3	<0.01	0.03	5.0
ZZ44802		0.91	61.8	1460	47.1	14.4	0.003	0.06	11.90	1.9	3.2	0.3	52.0	<0.01	0.09	3.3
ZZ44803		0.06	122.0	750	18.5	11.0	0.025	0.06	14.10	2.8	4.2	0.2	49.6	<0.01	0.08	3.6
ZZ44804		0.12	213	2530	27.2	10.3	0.010	0.12	19.90	6.4	5.1	0.4	114.0	<0.01	0.09	3.1
ZZ44805		1.11	48.8	1020	64.8	11.0	0.001	0.07	29.8	1.1	1.9	0.4	54.4	<0.01	0.06	0.3
ZZ44806		1.65	34.9	3640	31.5	12.0	0.002	0.19	13.70	1.2	2.2	0.4	140.0	<0.01	0.08	0.5
ZZ44957		8.16	51.7	1360	31.8	15.5	0.001	0.04	3.12	3.6	1.0	0.5	32.0	<0.01	0.04	3.9
ZZ44958		2.46	43.7	820	15.5	10.9	0.004	0.06	3.56	1.9	2.3	0.3	21.9	<0.01	0.05	0.9
ZZ44959		4.24	101.5	630	18.7	14.7	0.003	0.04	9.07	3.2	2.8	0.4	17.6	<0.01	0.08	3.8
ZZ44960		0.93	45.1	360	18.3	7.4	0.004	0.04	4.46	0.9	5.0	0.3	8.7	<0.01	0.05	0.2
ZZ44961		5.74	57.1	980	52.4	17.7	0.001	0.03	3.00	2.7	2.7	0.5	17.8	<0.01	0.04	2.0

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 4-JUL-2013
Account: RANSIL

Project: KEG (XV)

CERTIFICATE OF ANALYSIS WH13115627

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ44765		0.022	0.02	0.09	9	<0.05	0.63	3	<0.5
ZZ44766		0.012	<0.02	0.05	3	<0.05	0.39	2	<0.5
ZZ44767		0.008	0.35	0.89	76	0.10	3.01	30	<0.5
ZZ44775		0.069	0.31	1.13	64	0.31	10.85	123	1.2
ZZ44776		0.067	0.79	4.89	213	0.50	11.25	318	2.2
ZZ44777		0.094	0.67	2.44	153	0.42	12.00	238	2.8
ZZ44778		0.087	0.72	2.68	170	0.42	10.85	173	4.2
ZZ44779		0.009	0.56	1.60	124	0.38	3.71	82	<0.5
ZZ44780		0.041	0.77	2.31	132	0.34	9.86	90	<0.5
ZZ44781		0.019	0.21	0.57	42	0.12	2.26	22	<0.5
ZZ44782		0.124	0.62	1.76	115	0.37	11.90	91	2.0
ZZ44783		0.130	0.42	1.73	93	0.32	13.05	91	2.9
ZZ44784		0.053	0.36	1.34	79	0.29	7.01	108	0.6
ZZ44785		0.066	0.42	1.51	105	0.31	6.87	88	1.2
ZZ44786		0.047	0.43	1.15	102	0.24	6.08	94	<0.5
ZZ44787		0.024	1.88	9.28	241	0.49	18.90	268	0.8
ZZ44788		0.063	0.49	1.02	140	0.33	4.35	102	0.8
ZZ44789		0.098	0.61	2.05	153	0.38	9.25	174	3.0
ZZ44790		0.026	0.75	12.85	170	0.42	22.1	880	8.6
ZZ44791		0.103	0.35	0.94	76	0.34	10.35	134	1.7
ZZ44792		0.059	0.69	1.87	195	0.28	25.3	132	1.2
ZZ44793		0.054	0.21	0.57	82	0.29	2.71	42	<0.5
ZZ44794		0.017	3.95	6.14	179	0.56	9.46	189	3.4
ZZ44795		0.023	0.51	2.38	73	0.27	26.5	96	1.2
ZZ44796		0.007	0.92	1.99	187	0.32	4.62	387	0.8
ZZ44797		0.031	0.41	0.92	149	0.23	3.13	261	0.9
ZZ44798		0.093	0.50	2.10	105	0.33	9.69	155	4.2
ZZ44799		0.017	0.25	0.79	60	0.15	2.12	46	<0.5
ZZ44800		0.045	0.44	1.84	118	0.48	7.11	205	1.5
ZZ44801		0.112	0.49	1.89	108	0.34	12.45	180	2.7
ZZ44802		0.017	0.64	2.78	151	0.28	6.90	225	4.0
ZZ44803		<0.005	0.78	9.65	261	0.24	10.75	215	11.0
ZZ44804		<0.005	1.48	6.57	255	0.31	39.5	593	2.0
ZZ44805		0.037	0.85	1.77	112	0.30	7.28	175	<0.5
ZZ44806		0.034	1.45	2.90	134	0.38	8.58	76	0.8
ZZ44957		0.167	0.36	1.04	108	0.42	9.08	106	3.3
ZZ44958		0.059	0.37	1.79	144	0.25	10.70	52	1.6
ZZ44959		0.088	0.58	2.01	222	0.35	15.95	29	7.7
ZZ44960		0.035	0.25	0.98	171	0.23	4.87	46	<0.5
ZZ44961		0.116	0.32	1.41	207	0.41	8.31	61	1.9

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Finalized Date: 4- JUL- 2013
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CERTIFICATE OF ANALYSIS WH13115627

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ44962		0.21	0.002	0.82	1.84	28.9	<0.2	<10	80	0.68	0.24	0.13	0.22	20.6	8.5	47
ZZ44963		0.33	0.002	0.58	2.22	19.8	<0.2	<10	240	0.80	0.22	0.67	0.66	48.8	14.5	72
ZZ44964		0.39	0.001	0.59	1.92	15.9	<0.2	<10	200	0.77	0.23	0.41	0.41	42.4	10.2	42
ZZ44965		0.33	0.001	0.71	1.48	19.8	<0.2	<10	150	0.45	0.36	0.29	0.30	28.9	7.1	37
ZZ44966		0.26	<0.001	0.09	0.17	0.3	<0.2	<10	30	0.05	0.01	0.14	0.01	2.14	0.9	2
ZZ44967		0.25	0.001	0.24	0.22	0.2	<0.2	<10	10	<0.05	0.01	0.04	0.02	1.36	0.8	2
ZZ44968		0.11	0.002	0.10	0.62	9.7	<0.2	<10	40	0.16	0.14	0.06	0.09	9.56	2.0	13
ZZ44969		0.23	0.001	0.15	1.07	35.6	<0.2	<10	90	0.49	0.22	0.14	0.58	20.0	3.4	18
ZZ44970		0.19	0.005	0.11	0.61	9.2	<0.2	<10	120	0.53	0.07	1.80	0.11	14.15	5.5	5
ZZ44971		0.17	0.001	0.93	1.33	14.4	<0.2	<10	180	0.51	0.15	0.56	0.47	25.7	6.5	34
ZZ44972		0.28	0.002	0.74	2.12	30.2	<0.2	<10	220	1.21	0.31	0.98	0.47	45.3	15.5	66
ZZ44973		0.25	0.002	0.25	2.36	42.1	<0.2	<10	190	0.64	0.44	0.82	0.60	37.0	16.5	102

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	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ44962		7.47	58.8	3.06	7.11	0.08	0.04	0.02	0.017	0.19	11.9	22.8	1.32	228	31.8	<0.01
ZZ44963		7.03	33.5	2.27	5.74	0.09	0.06	0.05	0.018	0.12	23.2	46.9	1.04	329	2.23	0.02
ZZ44964		4.03	26.8	2.10	5.51	0.07	0.02	0.04	0.019	0.13	20.7	27.6	0.71	264	1.27	0.01
ZZ44965		3.66	19.3	1.90	6.43	0.05	<0.02	0.03	0.016	0.08	15.0	19.2	0.55	204	3.43	0.01
ZZ44966		0.15	2.7	0.32	0.78	<0.05	<0.02	0.01	<0.005	0.02	1.0	0.4	0.03	19	0.19	0.04
ZZ44967		0.21	3.3	0.34	0.90	<0.05	<0.02	0.01	<0.005	0.02	0.7	0.2	0.01	16	0.24	0.02
ZZ44968		3.20	10.1	1.32	4.46	<0.05	<0.02	0.02	0.007	0.03	4.9	5.7	0.13	68	7.19	0.02
ZZ44969		6.77	81.9	1.28	5.00	<0.05	<0.02	0.02	0.015	0.04	11.4	13.4	0.21	93	5.75	0.01
ZZ44970		1.45	81.7	0.58	1.60	<0.05	0.07	0.05	0.006	0.02	9.0	1.2	0.08	64	0.69	0.03
ZZ44971		4.77	29.7	1.43	3.84	0.06	0.02	0.07	0.011	0.09	14.6	21.2	0.52	156	0.76	0.03
ZZ44972		8.69	74.4	2.39	5.77	0.10	0.05	0.06	0.021	0.15	24.7	40.8	1.11	428	1.98	0.02
ZZ44973		14.50	25.5	3.29	10.15	0.10	0.09	0.02	0.014	0.41	19.3	53.0	1.32	414	3.06	0.02

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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 4-JUL-2013
Account: RANSIL

Project: KEG (XV)

CERTIFICATE OF ANALYSIS WH13115627

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ44962		7.09	92.1	760	54.2	19.4	0.002	0.07	6.18	2.3	7.3	0.7	10.7	<0.01	0.08	0.8
ZZ44963		8.35	60.4	1670	54.3	18.9	0.001	0.03	1.70	4.3	0.9	0.6	31.4	<0.01	0.03	3.8
ZZ44964		4.01	31.7	1010	32.5	18.4	<0.001	0.03	1.42	3.2	0.5	0.6	21.9	<0.01	0.02	2.5
ZZ44965		3.33	26.6	620	39.6	14.1	<0.001	0.03	2.35	2.1	0.7	0.7	20.4	<0.01	0.04	0.9
ZZ44966		0.16	1.3	230	1.3	0.7	<0.001	0.02	0.15	0.2	<0.2	<0.2	12.4	<0.01	0.01	<0.2
ZZ44967		0.15	1.1	180	0.7	0.8	<0.001	0.03	0.05	0.1	<0.2	<0.2	7.3	<0.01	0.01	<0.2
ZZ44968		1.13	7.7	270	6.5	4.5	<0.001	0.04	0.89	0.5	<0.2	0.4	8.0	<0.01	0.03	<0.2
ZZ44969		1.17	17.9	440	15.2	8.1	0.001	0.04	1.58	0.7	0.4	0.4	14.9	<0.01	0.03	<0.2
ZZ44970		0.56	33.1	860	3.6	1.6	0.001	0.13	2.16	0.4	2.7	<0.2	46.6	0.01	0.03	0.2
ZZ44971		3.09	27.2	1040	41.3	13.3	<0.001	0.06	1.12	2.1	0.7	0.3	25.4	<0.01	0.02	0.8
ZZ44972		5.71	52.7	1390	79.7	22.9	0.001	0.05	2.06	4.3	1.2	0.6	30.2	0.01	0.02	2.4
ZZ44973		17.30	54.2	1810	60.5	44.1	0.001	0.06	2.55	4.1	0.8	0.7	39.3	0.01	0.04	1.7

***** See Appendix Page for comments regarding this certificate *****

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Finalized Date: 4- JUL- 2013
Account: RANSIL

Project: KEG (XV)

CERTIFICATE OF ANALYSIS WH13115627

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ44962		0.118	0.39	1.97	387	0.49	8.49	62	2.1
ZZ44963		0.186	0.37	1.25	85	0.42	10.65	86	2.4
ZZ44964		0.110	0.27	0.90	58	0.34	8.57	72	0.8
ZZ44965		0.094	0.23	0.92	108	0.39	4.96	61	0.7
ZZ44966		0.023	0.03	0.16	12	<0.05	0.56	5	<0.5
ZZ44967		0.017	<0.02	0.17	12	<0.05	0.33	5	<0.5
ZZ44968		0.052	0.08	0.68	113	0.23	1.17	20	<0.5
ZZ44969		0.038	0.11	2.13	61	0.24	5.04	68	<0.5
ZZ44970		0.019	0.18	3.66	14	0.07	7.78	8	2.7
ZZ44971		0.078	0.28	1.39	38	0.23	7.22	82	0.8
ZZ44972		0.144	0.52	1.75	71	0.35	12.85	106	1.8
ZZ44973		0.386	0.65	1.06	130	0.54	7.21	92	4.3

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Finalized Date: 4-JUL-2013
Account: RANSIL

Project: KEG (XV)

CERTIFICATE OF ANALYSIS WH13115627

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
ME-MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
LOG-22 SCR-41 WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-ICP21 ME-MS41

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 9-JUL-2013
Account: RANSIL

CERTIFICATE WH13115628

Project: KEG (XV)

P.O. No.:

This report is for 23 Rock samples submitted to our lab in Whitehorse, YT, Canada on 25-JUN-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70%<2mm
CRU-QC	Crushing QC Test
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test
PUL-31	Pulverize split to 85%<75 um

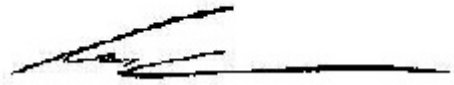
ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Ag-OG62	Ore Grade Ag - Four Acid	VARIABLE
Cu-OG62	Ore Grade Cu - Four Acid	VARIABLE
Pb-OG62	Ore Grade Pb - Four Acid	VARIABLE

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature: 

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
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To: **SILVER RANGE RESOURCES LTD.**
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VANCOUVER BC V6B 1L8

Finalized Date: 9-JUL-2013
Account: RANSIL

Project: KEG (XV)

CERTIFICATE OF ANALYSIS WH13115628

Sample Description	Method	WEI-21	Au-AA24	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L840318		0.39	<0.005	0.08	2.67	52.7	660	1.07	0.15	3.50	0.87	31.7	6.1	83	3.07	13.3
L840319		0.36	<0.005	0.20	7.40	88	1490	1.31	0.26	11.95	1.96	191.5	52.3	364	3.64	30.9
L840320		0.52	<0.005	0.50	7.78	12.7	1280	1.82	0.70	0.31	1.17	56.2	2.6	19	12.50	9.2
L840321		0.85	<0.005	0.31	7.50	5.6	1470	1.96	0.56	1.64	20.1	78.3	22.3	26	26.7	23.0
L840322		0.32	<0.005	0.70	4.19	23.2	410	1.59	0.30	0.10	0.97	33.5	1.3	99	13.40	42.7
L840323		0.56	0.009	>100	3.09	207	30	0.40	73.1	7.37	80.5	37.4	12.9	19	1.46	>10000
L840324		0.55	<0.005	12.25	6.22	242	110	1.75	0.19	16.10	18.50	101.0	75.7	249	5.46	8620
L840325		0.51	<0.005	0.54	6.69	<5	680	2.38	0.12	10.55	0.35	149.5	58.6	328	21.7	75.0
L840326		0.63	<0.005	0.42	3.08	30.5	760	1.29	0.16	1.95	0.12	67.0	6.8	65	6.43	109.5
L840327		0.81	<0.005	0.43	3.19	<5	90	1.62	0.11	13.35	1.10	124.5	26.2	142	4.12	33.3
L840328		0.53	<0.005	44.1	0.93	28.9	20	1.37	2.06	6.96	16.35	55.4	61.4	3	1.55	>10000
L840329		0.48	<0.005	0.71	7.22	59.4	3820	1.14	0.69	9.42	1.40	109.5	44.8	48	6.99	130.0
L840330		0.72	<0.005	0.37	7.93	2.4	2000	1.37	0.11	5.06	0.19	117.5	32.0	196	16.75	135.0
L840331		0.59	<0.005	0.07	4.01	<5	580	1.04	0.05	20.4	0.82	106.5	38.3	350	10.15	56.7
L840351		0.47	<0.005	0.32	8.07	127.0	3200	2.75	0.23	5.38	0.57	179.5	56.1	354	24.3	52.6
L840352		0.52	<0.005	9.83	8.57	96	1920	1.11	0.49	12.55	2.27	113.0	38.6	346	3.08	1060
L840353		0.50	<0.005	0.22	2.16	15.0	570	1.09	0.15	3.75	0.12	20.7	4.4	44	9.60	31.7
L840354		0.39	<0.005	0.15	6.79	4.8	780	2.02	0.07	1.38	0.27	47.8	5.2	18	4.40	8.6
L840355		0.82	<0.005	0.08	6.50	8	350	1.57	0.15	16.75	0.04	74.8	12.9	45	7.22	25.9
L840401		0.76	<0.005	0.10	7.19	3.1	1640	1.36	0.07	1.97	0.52	52.3	8.3	48	2.20	14.8
L840402		0.97	<0.005	2.56	5.18	69	380	1.02	3.46	17.75	4.59	121.5	46.6	214	1.29	181.5
L840403		0.81	<0.005	0.08	7.83	4.2	1260	1.60	0.05	0.48	1.40	47.2	10.8	19	11.35	70.7
L840404		0.55	<0.005	0.58	5.42	22	60	1.52	0.08	10.55	0.31	123.5	63.5	126	3.38	303

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Finalized Date: 9-JUL-2013
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Project: KEG (XV)

CERTIFICATE OF ANALYSIS WH13115628

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
L840318		1.69	8.91	0.09	1.7	0.029	0.33	20.0	26.3	1.63	375	14.60	0.10	11.3	69.8	690
L840319		5.73	19.30	0.25	3.9	0.073	2.88	91.8	32.7	1.64	2170	1.53	0.09	75.0	186.5	3770
L840320		3.40	18.50	0.14	2.1	0.041	3.53	29.9	60.2	0.75	371	7.13	1.04	10.0	41.7	610
L840321		3.71	17.50	0.15	2.1	0.042	3.78	36.3	79.4	0.91	1250	1.46	1.08	11.0	115.0	560
L840322		1.90	12.50	0.11	2.4	0.011	1.94	21.2	41.2	0.46	70	27.3	0.03	8.9	21.5	670
L840323		7.24	8.63	1.42	1.2	0.060	0.16	19.1	121.0	2.02	1500	0.44	0.01	14.8	30.5	990
L840324		9.14	17.05	0.14	3.5	0.048	0.28	48.6	52.8	0.92	1280	3.49	0.01	57.7	337	2340
L840325		7.27	18.25	0.19	5.2	0.074	1.84	74.0	58.7	3.82	1120	0.32	1.18	86.6	236	2560
L840326		1.30	9.17	0.11	2.0	<0.005	1.44	52.4	26.9	0.78	120	30.7	0.13	17.9	79.5	970
L840327		5.77	10.10	0.16	2.9	0.051	0.70	63.9	38.1	6.61	1940	0.28	0.07	52.0	74.3	1900
L840328		4.81	4.11	0.34	0.1	0.020	0.05	28.8	38.8	7.23	1390	0.31	0.05	1.0	12.3	80
L840329		7.29	16.20	0.17	3.4	0.067	2.50	53.6	79.5	3.18	1140	0.22	0.17	51.7	60.8	3470
L840330		7.91	19.95	0.18	5.4	0.065	2.41	59.5	87.4	5.35	729	2.00	0.75	70.0	148.5	3160
L840331		5.34	10.80	0.14	2.9	0.034	0.68	56.4	75.5	3.27	1040	0.30	0.81	49.2	197.0	2090
L840351		5.20	23.0	0.21	7.0	0.068	5.08	91.0	133.5	3.12	640	10.30	0.35	136.0	275	1180
L840352		7.32	22.4	0.17	4.1	0.082	0.80	55.2	24.1	2.44	1230	0.39	0.05	60.1	190.0	1660
L840353		1.48	5.49	0.07	1.4	<0.005	0.89	12.2	21.0	2.04	374	19.20	0.15	8.8	48.5	340
L840354		2.35	16.00	0.14	1.8	0.025	3.13	21.3	30.6	0.46	510	0.63	2.23	13.0	8.8	420
L840355		2.92	17.35	0.13	2.2	0.029	2.44	39.6	45.5	2.20	455	0.32	0.56	11.3	28.2	310
L840401		2.97	17.95	0.13	2.9	0.020	2.29	26.7	19.0	0.88	494	1.40	1.53	9.7	19.7	430
L840402		6.24	14.50	0.16	4.5	0.089	0.39	61.5	73.0	3.47	1720	0.78	0.18	78.4	156.0	3020
L840403		4.54	18.60	0.14	2.0	0.060	4.14	21.1	91.3	0.90	436	1.63	0.54	11.6	59.8	600
L840404		7.83	15.85	0.19	2.8	0.097	0.19	66.3	129.0	8.48	1290	0.29	0.02	100.0	71.4	3090

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Finalized Date: 9- JUL- 2013
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CERTIFICATE OF ANALYSIS WH13115628

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
L840318		4.1	16.5	0.018	0.01	8.42	4.7	1	1.0	219	0.72	<0.05	5.6	0.161	0.17	7.3
L840319		28.6	97.8	<0.002	<0.01	10.20	38.3	4	1.2	200	4.45	<0.05	11.5	1.890	1.09	2.3
L840320		63.6	186.0	<0.002	0.04	8.67	14.9	4	2.2	194.5	0.88	<0.05	16.1	0.326	2.37	6.6
L840321		39.5	143.5	<0.002	0.26	5.03	15.4	5	2.1	268	0.98	<0.05	14.3	0.364	2.85	4.2
L840322		16.7	118.5	0.024	0.10	25.3	7.8	5	2.0	45.8	0.60	0.08	8.1	0.249	2.70	10.3
L840323		>10000	16.1	<0.002	3.24	352	8.7	626	0.8	65.5	1.01	5.71	1.4	0.530	0.32	0.8
L840324		580	21.3	<0.002	0.55	16.70	22.2	4	1.3	342	3.51	<0.05	6.3	1.230	1.86	1.8
L840325		133.5	111.5	<0.002	0.03	1.40	36.7	1	1.7	131.0	5.31	<0.05	8.3	1.635	0.53	1.7
L840326		18.1	70.7	0.022	0.18	3.05	4.2	3	0.6	107.0	1.11	0.06	7.0	0.190	0.91	9.9
L840327		89.1	49.8	<0.002	<0.01	8.17	15.3	<1	1.1	97.8	3.27	<0.05	4.6	0.992	0.51	0.9
L840328		>10000	1.6	<0.002	0.35	31.7	4.3	121	<0.2	20.8	0.06	3.10	0.2	0.026	0.46	0.1
L840329		310	131.5	<0.002	0.10	12.00	24.0	6	1.6	275	3.21	0.05	4.4	1.745	1.67	1.1
L840330		85.4	116.5	0.002	1.09	1.58	31.4	5	1.7	174.0	4.32	0.06	9.6	1.340	0.88	2.9
L840331		12.0	34.2	<0.002	0.01	3.96	22.7	4	0.9	212	2.68	<0.05	5.9	0.944	0.34	1.6
L840351		38.3	202	0.004	0.05	6.69	32.0	3	1.9	149.5	7.95	<0.05	12.7	1.975	3.48	4.6
L840352		20.7	34.8	0.002	0.12	11.25	40.1	5	1.7	433	3.73	<0.05	6.4	1.355	0.41	1.4
L840353		37.2	43.2	0.013	0.03	3.16	3.7	1	0.6	66.9	0.51	<0.05	4.4	0.143	0.64	5.7
L840354		45.2	174.0	<0.002	0.01	0.59	9.7	3	3.4	205	1.35	<0.05	17.6	0.243	1.19	2.2
L840355		13.0	118.0	<0.002	0.02	1.01	10.6	2	1.6	582	0.81	<0.05	13.0	0.311	0.37	2.0
L840401		26.4	96.2	0.002	0.05	1.05	15.0	<1	1.1	217	0.68	<0.05	9.8	0.387	0.67	2.4
L840402		589	18.3	<0.002	0.06	13.55	24.5	5	1.1	377	4.99	0.10	6.7	1.410	0.32	1.7
L840403		17.6	174.0	<0.002	0.01	19.90	16.3	2	3.1	170.5	0.97	<0.05	14.7	0.330	2.58	11.0
L840404		5.0	10.7	0.002	<0.01	8.60	15.5	1	2.0	78.4	5.61	<0.05	10.4	1.235	0.22	2.0

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 9-JUL-2013
Account: RANSIL

Project: KEG (XV)

CERTIFICATE OF ANALYSIS WH13115628

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	Cu-OG62	Pb-OG62
	Analyte	V	W	Y	Zn	Zr	Ag	Cu	Pb
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	LOR	1	0.1	0.1	2	0.5	1	0.001	0.001
L840318		516	0.7	20.4	27	98.8			
L840319		344	2.2	27.0	97	116.0			
L840320		72	1.3	12.8	248	51.4			
L840321		73	1.0	38.7	1200	50.8			
L840322		1300	1.2	11.6	191	77.0			
L840323		97	1.1	7.4	4770	34.3	504	1.060	14.35
L840324		214	4.6	20.8	851	115.5			
L840325		285	1.4	26.5	79	230			
L840326		750	0.9	22.0	13	74.5			
L840327		162	2.1	23.6	152	92.0			
L840328		42	0.2	15.7	981	2.5		2.28	2.86
L840329		267	2.2	20.5	187	149.5			
L840330		280	0.8	28.8	129	224			
L840331		174	0.7	16.0	70	112.0			
L840351		345	1.6	24.3	114	288			
L840352		283	1.3	27.5	130	161.0			
L840353		316	0.6	13.0	70	49.9			
L840354		42	2.2	15.6	40	40.0			
L840355		53	0.9	17.0	53	67.5			
L840401		151	0.8	17.1	95	97.2			
L840402		222	1.3	21.6	233	160.5			
L840403		70	0.9	20.3	543	52.2			
L840404		169	2.1	18.3	135	95.2			

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Project: KEG (XV)

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 9-JUL-2013
Account: RANSIL

CERTIFICATE OF ANALYSIS WH13115628

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

Applies to Method: Interference: Samples with Ca>10%on ICP-MS As. ICP-AES As results reported (5 ppm DL)
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

CRU-31	CRU-QC	LOG-22	PUL-31
PUL-QC	SPL-21	WEI-21	

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Ag-OG62	Au-AA24	Cu-OG62	ME-MS61
ME-OG62	Pb-OG62		

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To: **SILVER RANGE RESOURCES LTD.**
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 16-JUL-2013
Account: RANSIL

CERTIFICATE WH13121810

Project: Keg (Ku Zone)

P.O. No.: KU

This report is for 46 Rock samples submitted to our lab in Whitehorse, YT, Canada on 2-JUL-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70%<2mm
CRU-QC	Crushing QC Test
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test
PUL-31	Pulverize split to 85%<75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
W-XRF05	Trace Level W XRF Analysis	XRF

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 16-JUL-2013
Account: RANSIL

Project: Keg (Ku Zone)

CERTIFICATE OF ANALYSIS WH13121810

Sample Description	Method	WEI-21	Au-AA24	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L840356		0.63	<0.005	0.10	7.29	12.1	530	2.70	0.38	0.85	0.17	73.7	6.6	36	8.96	16.0
L840357		0.45	<0.005	0.06	9.26	15.2	850	3.48	0.20	1.55	0.14	94.4	8.8	49	9.51	20.2
L840358		0.59	<0.005	0.16	5.65	5.9	560	1.55	0.25	0.65	0.17	40.6	4.2	22	7.05	10.7
L840359		0.64	<0.005	0.17	2.51	25.9	280	0.71	0.07	0.12	0.31	17.30	4.6	24	8.98	10.6
L840360		0.71	<0.005	0.01	0.41	1.2	10	0.32	0.46	0.02	0.02	0.77	0.2	20	1.24	2.1
L840361		0.48	<0.005	0.05	7.68	4.4	1350	2.08	0.05	2.17	0.30	82.4	6.7	19	1.92	10.2
L840362		0.86	0.075	3.20	16.90	1.4	60	19.95	177.5	8.74	0.42	2.44	8.5	<1	5.51	636
L840405		0.46	0.016	1.73	2.20	>10000	420	16.80	19.40	7.25	1.6	5.87	2.6	15	4.78	184.0
L840406		0.33	<0.005	0.95	7.29	56.3	780	4.05	6.01	2.32	0.23	62.8	2.8	11	8.84	81.6
L840407		0.67	<0.005	44.0	5.80	3140	330	1.62	85.4	3.35	28.2	11.80	5.7	29	4.17	879
L840408		1.03	0.006	1.45	4.60	12.1	140	2.61	22.3	9.51	1.9	49.2	4.8	37	2.59	285
L840409		1.97	0.053	4.04	5.87	40	90	31.1	97.2	17.15	4.33	57.1	8.9	26	4.24	16.2
L840410		0.75	<0.005	0.08	7.32	1.8	370	0.66	0.34	0.56	0.04	26.2	2.7	5	9.79	5.1
L840411		1.10	<0.005	0.55	7.43	7.5	460	4.35	2.64	0.95	0.70	53.4	4.2	13	5.15	11.8
L840412		0.81	<0.005	<0.01	7.63	2.0	470	3.50	0.42	1.24	0.07	63.6	4.3	14	18.10	2.0
L840413		0.79	<0.005	0.22	7.16	21.9	640	7.78	0.50	0.50	0.12	20.4	0.5	6	9.50	4.7
L840414		0.77	<0.005	2.06	6.96	2.7	320	1.89	0.62	0.61	0.14	21.2	2.2	5	6.60	11.7
L840332		0.53	<0.005	0.24	9.28	25	230	3.25	0.91	11.00	0.26	61.0	14.3	38	0.44	2.3
L840333		0.35	<0.005	1.97	5.70	358	430	2.11	6.00	3.19	1.67	47.9	12.9	55	4.41	537
L840334		0.40	<0.005	1.74	3.47	90.3	620	1.29	2.86	0.30	0.98	17.75	1.8	8	3.91	37.9
L840335		0.52	<0.005	9.75	6.16	16.5	700	1.33	22.2	1.37	1.14	51.6	4.1	60	4.67	125.0
L840336		0.56	<0.005	0.21	8.60	14.7	1410	2.70	0.53	6.73	0.48	70.9	14.6	63	7.80	36.7
L840337		0.69	<0.005	0.22	8.64	10.7	1320	2.51	0.28	6.56	0.30	65.6	11.5	76	8.05	44.5
L840338		0.41	<0.005	0.42	9.21	18.0	880	3.23	0.21	4.74	0.24	95.2	18.2	76	13.85	56.4
L840339		0.36	<0.005	0.19	8.79	24.6	3200	2.72	0.22	3.20	0.31	63.2	19.0	99	11.25	58.7
L840340		0.57	<0.005	0.09	5.64	84.3	510	1.36	0.17	1.50	0.13	46.7	14.0	49	6.66	34.7
L840341		1.53	<0.005	0.97	7.58	162.5	110	2.31	3.36	9.47	1.4	59.7	4.8	66	1.09	214
L840342		0.64	0.005	1.26	3.17	<5	10	3.09	13.70	12.35	1.5	14.35	1.0	18	1.54	125.0
L840343		0.79	<0.005	0.03	11.05	4.0	840	2.50	0.32	0.48	0.02	78.5	14.4	89	10.95	7.1
L840344		1.22	<0.005	3.60	5.75	42.4	480	1.98	8.12	3.72	2.53	43.5	6.2	65	2.49	117.0
L840345		2.32	<0.005	0.21	4.68	8.1	990	1.60	0.51	4.08	1.64	31.8	5.8	67	2.80	3.6
L840346		1.01	<0.005	0.47	4.61	49.0	40	1.60	7.49	4.36	1.27	23.3	6.0	50	1.42	10.4
L840347		2.09	<0.005	0.73	4.81	49.9	50	1.60	0.64	9.84	0.41	307	40.7	584	1.82	160.5
L840348		2.33	<0.005	0.62	5.10	137.5	130	1.38	0.91	9.70	0.14	156.0	55.0	913	1.04	133.0
L840349		0.87	<0.005	0.45	3.65	120.0	130	4.10	36.6	0.06	0.22	8.01	10.5	9	3.60	126.5
L840350		1.84	0.213	0.54	5.56	130.0	50	3.58	179.0	0.13	0.04	24.7	16.0	31	1.62	206
L840451		1.81	<0.005	0.06	6.93	2.2	100	1.43	1.38	0.17	<0.02	4.67	0.9	12	13.55	4.0
L840452		1.04	<0.005	0.03	7.81	2.5	10	2.69	2.12	0.19	<0.02	53.2	11.3	73	1.17	3.8
L840453		2.02	0.197	1.31	17.05	0.9	50	14.95	381	9.11	0.20	5.03	11.5	4	3.25	580
L840454		1.45	0.012	0.52	5.97	<5	70	11.20	23.2	12.50	1.8	65.0	7.4	32	1.01	135.5

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 16-JUL-2013
Account: RANSIL

Project: Keg (Ku Zone)

CERTIFICATE OF ANALYSIS WH13121810

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
L840356		2.65	18.70	0.18	0.7	0.047	2.65	36.2	87.6	0.53	317	0.24	1.02	11.8	12.8	510
L840357		4.26	24.4	0.22	1.9	0.077	3.68	46.6	67.4	0.87	645	0.54	1.01	17.4	11.3	510
L840358		1.70	13.45	0.13	1.0	0.025	3.19	20.0	35.9	0.29	311	0.21	0.86	9.5	6.0	360
L840359		1.51	5.42	0.12	2.2	0.011	1.23	10.2	21.0	0.19	257	1.37	0.04	3.9	12.1	120
L840360		0.38	1.37	0.09	0.1	0.005	0.17	<0.5	19.6	0.02	43	0.15	0.02	1.5	0.9	50
L840361		2.99	18.85	0.19	1.8	0.055	2.74	41.4	39.9	0.58	478	0.41	1.88	12.7	8.7	470
L840362		7.69	110.0	0.08	1.2	0.071	0.62	0.9	155.0	0.36	658	0.37	0.57	6.2	6.8	1590
L840405		9.01	21.3	0.09	0.5	1.820	1.59	3.6	8.2	7.66	1140	0.79	0.17	2.3	10.4	430
L840406		1.31	21.7	0.20	1.1	0.071	3.79	30.1	27.5	0.51	249	0.25	1.83	13.7	7.9	640
L840407		6.81	23.6	0.16	0.9	19.40	1.04	6.2	51.7	1.26	2240	5.00	0.04	4.2	29.8	850
L840408		13.90	13.20	0.15	1.5	1.255	0.59	26.3	25.1	3.56	7320	0.70	0.12	10.5	8.9	1620
L840409		7.96	36.6	0.13	0.9	3.12	0.30	28.6	48.2	1.89	9040	0.64	0.13	43.0	15.5	740
L840410		0.76	14.35	0.14	0.9	0.024	5.99	13.5	17.8	0.14	127	0.11	1.06	7.8	7.1	560
L840411		1.86	19.00	0.18	1.0	0.082	3.85	26.8	32.7	0.45	612	0.17	2.33	11.5	4.4	630
L840412		2.03	21.0	0.20	1.0	0.043	3.75	31.5	52.7	0.48	425	0.10	2.19	18.1	3.9	710
L840413		0.42	14.65	0.16	1.5	0.011	4.81	9.6	9.5	0.14	88	0.16	2.49	11.2	1.1	1020
L840414		0.94	14.40	0.15	1.3	0.024	3.52	11.0	29.7	0.16	227	0.27	2.37	8.6	1.3	520
L840332		4.33	41.4	0.21	2.1	0.094	0.65	28.9	31.7	1.23	884	0.68	0.02	9.7	27.5	690
L840333		10.50	19.80	0.17	1.2	0.348	1.05	27.6	53.0	1.49	689	6.25	0.04	8.0	49.4	900
L840334		1.24	7.11	0.10	0.7	0.221	1.52	8.9	18.2	0.16	214	0.55	0.96	4.5	3.4	410
L840335		4.84	21.5	0.17	1.7	2.08	1.32	29.2	73.1	1.65	1100	2.13	0.69	9.3	25.2	630
L840336		3.90	23.2	0.20	1.9	0.063	3.23	40.4	57.8	1.98	575	1.57	0.86	17.2	35.2	490
L840337		3.75	22.3	0.22	1.9	0.071	3.49	37.5	62.5	1.90	591	0.86	0.38	13.2	27.0	660
L840338		5.04	24.4	0.21	2.4	0.064	2.91	50.7	105.5	1.79	1550	1.75	0.41	19.8	37.8	2140
L840339		4.78	28.3	0.19	2.7	0.054	2.93	32.9	147.0	2.26	312	0.56	1.28	16.5	44.3	950
L840340		16.15	14.80	0.18	1.4	0.631	2.20	28.2	41.5	0.74	9370	1.76	0.17	13.8	27.1	510
L840341		6.84	27.1	0.16	2.1	0.646	0.19	31.0	13.1	1.11	1040	2.16	0.02	12.8	26.6	900
L840342		11.95	11.95	0.10	0.7	1.205	0.09	7.4	8.3	3.16	13550	0.26	0.20	7.7	1.5	520
L840343		6.64	29.4	0.19	3.3	0.047	3.85	39.8	115.5	3.34	173	0.89	0.76	17.0	56.2	490
L840344		5.20	18.70	0.15	1.3	0.804	0.72	24.5	69.9	1.48	1280	4.98	0.02	7.6	28.5	870
L840345		2.06	13.20	0.14	1.4	0.054	2.63	18.6	33.8	1.34	325	0.80	0.07	7.2	20.5	690
L840346		2.73	15.30	0.10	1.4	0.053	0.03	12.5	65.9	1.43	537	0.67	0.01	7.2	20.4	580
L840347		8.82	18.75	0.44	10.0	0.125	0.14	156.5	37.2	7.98	1700	3.36	0.12	189.0	143.0	6560
L840348		6.91	17.25	0.24	4.9	0.098	0.51	78.4	20.5	7.38	1310	2.02	0.36	87.8	264	3430
L840349		18.10	12.25	0.11	0.8	0.174	1.14	3.7	14.3	0.17	320	2.09	0.10	3.2	48.8	1710
L840350		14.70	16.15	0.11	0.7	0.100	0.17	13.6	9.3	0.71	125	2.12	0.36	4.4	46.4	790
L840451		0.72	17.25	0.11	0.5	<0.005	6.40	2.4	9.2	0.08	88	0.19	1.41	8.0	1.7	820
L840452		3.62	38.9	0.15	0.4	0.066	0.30	25.9	23.5	1.30	237	0.23	0.66	1.1	26.3	110
L840453		6.97	90.2	0.09	2.0	0.023	0.51	1.6	66.1	0.54	330	0.28	1.15	24.1	6.0	3030
L840454		8.71	26.9	0.12	1.2	2.68	0.18	31.6	12.4	1.58	12700	0.31	0.11	11.6	13.0	710

***** See Appendix Page for comments regarding this certificate *****

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 16-JUL-2013
Account: RANSIL

Project: Keg (Ku Zone)

CERTIFICATE OF ANALYSIS WH13121810

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
L840356		20.7	149.0	<0.002	<0.01	1.68	10.2	1	5.5	115.5	1.15	<0.05	12.4	0.312	0.94	4.4
L840357		18.6	211	<0.002	0.01	0.67	18.1	1	5.5	148.5	1.75	<0.05	15.8	0.411	1.17	3.4
L840358		16.5	165.0	<0.002	<0.01	0.29	6.6	<1	4.4	90.8	1.30	<0.05	8.4	0.165	0.76	2.0
L840359		9.6	58.0	<0.002	<0.01	2.80	2.2	<1	0.6	30.8	0.32	<0.05	9.2	0.119	0.55	2.0
L840360		1.0	11.1	<0.002	<0.01	0.23	0.6	<1	1.6	1.7	0.56	<0.05	<0.2	0.007	0.06	0.2
L840361		25.2	121.5	<0.002	<0.01	0.54	12.0	1	2.7	265	0.92	<0.05	16.2	0.292	0.68	2.8
L840362		15.8	8.7	0.023	3.32	2.06	1.5	1	15.5	253	4.95	0.20	0.3	0.042	0.88	2.4
L840405		30.3	106.5	<0.002	0.12	6.72	4.2	2	295	129.0	0.15	0.06	1.6	0.060	0.62	0.9
L840406		75.2	193.5	<0.002	0.06	1.90	7.5	1	55.0	325	1.69	<0.05	14.6	0.272	1.02	2.6
L840407		3540	69.5	0.003	0.24	23.0	8.9	25	198.5	259	0.48	0.74	3.4	0.093	0.69	21.9
L840408		79.4	42.0	<0.002	0.21	4.56	8.7	2	155.0	127.0	0.73	<0.05	9.8	0.261	0.43	2.2
L840409		196.5	28.8	0.004	0.01	12.20	7.0	2	77.3	268	2.38	0.25	9.2	0.230	0.32	2.9
L840410		33.3	210	<0.002	<0.01	0.13	4.0	1	5.7	102.5	2.09	<0.05	4.9	0.071	1.11	2.0
L840411		75.9	217	<0.002	<0.01	1.41	7.1	1	8.2	169.0	2.27	<0.05	12.6	0.217	1.20	2.5
L840412		35.4	258	<0.002	<0.01	0.19	8.0	1	10.8	156.5	2.84	<0.05	13.6	0.264	1.17	2.4
L840413		38.5	270	<0.002	<0.01	0.53	2.0	<1	13.5	171.0	3.77	<0.05	3.9	0.060	1.15	1.6
L840414		36.3	194.5	<0.002	<0.01	4.48	3.9	1	5.4	99.1	1.49	<0.05	5.1	0.081	1.37	1.7
L840332		35.4	12.7	<0.002	<0.01	6.73	8.1	1	5.3	752	0.67	<0.05	11.0	0.279	0.24	1.9
L840333		42.8	75.8	0.003	0.09	13.65	8.0	7	67.8	146.5	0.74	0.07	8.0	0.198	0.60	5.8
L840334		203	82.2	<0.002	0.01	1.43	1.5	1	40.3	80.7	0.73	<0.05	3.5	0.048	0.51	1.6
L840335		755	75.9	<0.002	0.03	2.62	9.4	9	217	117.5	0.63	0.24	9.3	0.234	0.53	3.5
L840336		35.4	148.0	<0.002	0.01	7.57	12.3	1	5.9	309	1.24	<0.05	11.2	0.311	1.19	3.9
L840337		14.5	142.5	<0.002	0.11	0.53	12.4	2	4.9	300	1.07	<0.05	10.7	0.334	0.77	3.3
L840338		10.4	138.0	0.002	0.11	1.42	14.4	2	2.5	207	1.30	<0.05	16.8	0.410	1.19	3.0
L840339		19.0	83.3	<0.002	0.03	0.61	15.4	2	4.9	259	1.11	<0.05	11.0	0.414	0.77	3.0
L840340		14.5	108.0	0.002	0.13	1.14	8.7	1	4.4	65.6	0.84	<0.05	7.5	0.244	0.40	2.9
L840341		23.7	12.0	0.002	<0.01	22.4	11.5	2	124.5	376	0.82	<0.05	11.8	0.316	0.10	6.3
L840342		7.5	7.2	<0.002	0.21	3.64	4.3	3	118.5	48.0	0.96	<0.05	3.7	0.116	0.11	2.1
L840343		6.6	96.2	<0.002	0.12	0.78	15.0	1	3.4	48.4	1.21	<0.05	14.3	0.446	0.89	3.0
L840344		309	50.1	0.005	0.03	8.61	8.9	3	149.5	222	0.53	0.11	7.8	0.215	0.47	5.2
L840345		10.4	163.5	<0.002	<0.01	5.80	6.5	<1	13.8	246	0.53	<0.05	6.2	0.186	1.27	3.3
L840346		279	2.6	<0.002	<0.01	9.51	5.4	<1	8.3	259	1.27	<0.05	5.1	0.143	0.07	6.0
L840347		15.6	7.3	0.002	1.09	2.98	34.3	5	9.9	735	10.50	0.05	19.5	2.01	0.10	4.0
L840348		14.8	26.2	<0.002	1.14	3.84	54.5	4	15.1	978	4.79	0.06	7.3	1.970	0.25	1.4
L840349		54.0	90.6	<0.002	0.04	188.0	2.6	2	37.5	12.0	0.65	0.10	1.9	0.042	0.42	17.8
L840350		37.8	13.8	<0.002	0.03	5.59	6.7	4	11.8	58.0	0.63	1.25	6.5	0.137	0.08	3.0
L840451		48.7	299	<0.002	<0.01	1.64	2.1	<1	6.8	50.4	6.46	<0.05	1.0	0.026	1.72	0.9
L840452		10.3	19.3	<0.002	<0.01	0.85	21.6	1	12.0	55.9	0.19	<0.05	9.3	0.274	0.25	1.8
L840453		13.8	6.0	0.008	3.87	0.77	7.5	2	32.4	314	19.80	0.86	2.0	0.106	0.36	21.4
L840454		15.2	13.9	0.003	0.02	10.75	7.4	1	197.5	210	0.80	0.05	10.5	0.241	0.13	4.3

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
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Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 16-JUL-2013
Account: RANSIL

Project: Keg (Ku Zone)

CERTIFICATE OF ANALYSIS WH13121810

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	W-XRF05
	Analyte	V	W	Y	Zn	Zr	W
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	1	0.1	0.1	2	0.5	10
L840356		50	2.1	9.1	41	22.7	
L840357		78	2.1	21.6	59	50.4	
L840358		27	4.7	9.5	32	25.5	
L840359		17	0.7	6.2	44	72.5	
L840360		1	0.6	0.3	2	1.1	
L840361		51	1.1	23.7	65	43.3	
L840362		2	4600	3.8	41	22.6	4750
L840405		148	9.8	12.4	101	15.0	
L840406		36	136.0	17.3	99	27.9	
L840407		306	5.9	11.8	1870	29.5	
L840408		64	27.1	24.7	183	40.2	
L840409		32	670	14.4	633	23.9	710
L840410		8	3.0	7.9	12	20.2	
L840411		31	7.8	14.0	74	22.3	
L840412		34	3.3	9.5	48	28.0	
L840413		4	1.9	6.3	17	38.0	
L840414		13	1.1	9.0	40	26.5	
L840332		72	2.8	28.3	61	60.9	
L840333		248	12.4	15.9	248	37.5	
L840334		23	1.6	3.9	188	19.1	
L840335		215	2.4	13.0	562	60.6	
L840336		126	5.2	18.2	130	67.1	
L840337		117	1.6	15.7	73	62.3	
L840338		116	1.8	26.5	34	79.9	
L840339		162	2.0	13.4	120	87.6	
L840340		87	1.3	12.7	36	53.7	
L840341		389	1.7	22.4	134	65.9	
L840342		17	59.8	23.2	141	17.1	
L840343		87	1.3	9.2	48	104.5	
L840344		271	3.4	14.8	186	38.0	
L840345		186	2.3	7.7	82	49.7	
L840346		192	1.6	9.1	226	40.9	
L840347		306	3.0	35.4	309	432	
L840348		333	2.8	29.6	123	140.5	
L840349		8	16.6	4.1	124	14.0	
L840350		29	23.2	6.5	114	17.7	
L840451		3	1.0	2.2	8	6.4	
L840452		102	2.3	11.1	64	10.6	
L840453		9	1400	6.1	26	36.2	1410
L840454		42	345	23.0	228	34.4	

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VANCOUVER BC V6B 1L8

Finalized Date: 16-JUL-2013
Account: RANSIL

Project: Keg (Ku Zone)

CERTIFICATE OF ANALYSIS WH13121810

Sample Description	Method	WEI-21	Au-AA24	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L840455		1.93	0.008	0.06	11.25	23.8	950	4.78	1.59	0.24	0.02	69.2	39.8	121	12.60	43.8
L840456		1.44	0.007	12.25	7.03	199.0	1700	1.67	126.0	0.26	2.22	37.0	43.4	9	11.70	4340
L840457		2.17	<0.005	1.56	7.28	68.7	1510	1.36	1.68	3.09	2.40	81.8	4.8	81	7.55	67.4
L840458		2.22	<0.005	0.18	0.13	5.1	10	0.06	0.80	0.02	0.07	1.16	1.3	42	0.23	44.9
L840459		1.52	0.060	21.4	4.68	4630	640	1.36	27.0	0.34	3.07	76.3	2.4	61	7.75	551
L840460		2.04	<0.005	0.26	2.74	77.3	410	0.94	1.54	1.15	0.85	20.8	3.4	36	2.78	21.9

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Finalized Date: 16- JUL- 2013
Account: RANSIL

Project: Keg (Ku Zone)

CERTIFICATE OF ANALYSIS WH13121810

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
L840455		6.46	37.2	0.20	2.5	0.119	4.39	28.4	67.6	1.24	540	0.58	0.40	31.1	61.4	730
L840456		4.07	19.60	0.14	1.3	0.454	6.24	16.2	40.0	0.29	286	0.53	0.34	6.6	10.3	970
L840457		3.69	20.1	0.18	2.0	0.102	2.07	45.3	36.4	0.70	1440	19.60	0.04	9.3	34.2	1540
L840458		0.88	0.64	0.09	<0.1	0.009	0.03	0.6	3.5	0.02	141	1.40	<0.01	0.3	3.3	60
L840459		9.26	17.95	0.18	1.2	6.01	1.51	49.3	42.1	1.16	380	16.20	0.05	6.9	14.1	1130
L840460		1.36	7.31	0.09	0.4	0.045	1.19	11.2	24.8	0.75	262	0.34	0.05	2.6	8.6	300

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Finalized Date: 16-JUL-2013
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Project: Keg (Ku Zone)

CERTIFICATE OF ANALYSIS WH13121810

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
L840455		9.0	161.5	0.002	0.57	0.17	24.0	1	7.4	61.8	2.06	<0.05	11.0	0.725	1.15	3.3
L840456		252	187.0	<0.002	0.01	5.49	3.9	3	25.9	119.5	1.17	0.98	8.2	0.087	2.06	8.2
L840457		343	117.5	<0.002	0.02	32.2	10.3	6	10.7	119.5	0.68	0.24	12.3	0.272	1.40	13.6
L840458		3.1	2.2	<0.002	0.04	2.78	0.3	1	0.5	1.2	<0.05	<0.05	0.2	0.006	0.02	0.2
L840459		655	102.5	0.003	0.31	105.5	8.0	15	234	52.5	0.46	0.16	10.7	0.191	0.89	8.7
L840460		33.6	80.3	<0.002	<0.01	1.69	2.7	<1	5.3	50.2	0.21	<0.05	3.4	0.066	0.44	0.8

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VANCOUVER BC V6B 1L8

Finalized Date: 16-JUL-2013
Account: RANSIL

Project: Keg (Ku Zone)

CERTIFICATE OF ANALYSIS WH13121810

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	W-XRF05
	Analyte	V	W	Y	Zn	Zr	W
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	1	0.1	0.1	2	0.5	10
L840455		127	5.4	8.1	80	83.9	
L840456		35	6.5	11.2	199	36.1	
L840457		476	2.9	21.5	99	70.1	
L840458		3	0.8	0.5	8	1.1	
L840459		232	5.1	17.5	183	47.7	
L840460		56	1.7	5.4	41	17.1	

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 16-JUL-2013
Account: RANSIL

Project: Keg (Ku Zone)

CERTIFICATE OF ANALYSIS WH13121810

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

	REE's may not be totally soluble in this method.
Applies to Method:	ME-MS61
	Interference: Samples with Ca>10%on ICP-MS As. ICP-AES As results reported (5 ppm DL)
Applies to Method:	ME-MS61

LABORATORY ADDRESSES

	Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.			
Applies to Method:	CRU-31	CRU-QC	LOG-22	PUL-31
	PUL-QC	SPL-21	WEI-21	
	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.			
Applies to Method:	Au-AA24	ME-MS61	W-XRF05	

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 16-JUL-2013
Account: RANSIL

CERTIFICATE WH13121811

Project: KEG (Ku)

P.O. No.: KU

This report is for 170 Soil samples submitted to our lab in Whitehorse, YT, Canada on 2-JUL-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

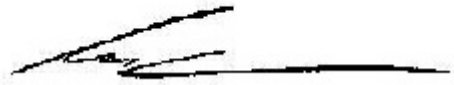
ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS41	51 anal. aqua regia ICPMS	

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature: 

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 16-JUL-2013
Account: RANSIL

Project: KEG (Ku)

CERTIFICATE OF ANALYSIS WH13121811

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ44704		0.13	0.001	0.34	2.55	36.4	<0.2	<10	120	1.21	0.20	1.34	1.29	22.8	10.5	27
ZZ44705		0.31	<0.001	0.04	0.40	1.3	<0.2	<10	30	0.09	0.05	0.09	0.03	5.92	1.3	4
ZZ44706		0.33	0.001	0.06	1.84	13.4	<0.2	<10	100	0.53	0.23	0.15	0.27	26.5	5.7	22
ZZ44707		0.27	0.002	0.32	1.87	21.9	<0.2	<10	230	1.02	0.40	0.51	0.65	46.2	6.9	21
ZZ44708		0.24	0.001	0.07	1.08	8.4	<0.2	<10	80	0.24	0.35	0.10	1.54	21.5	5.3	15
ZZ44709		0.33	0.002	0.14	1.26	8.2	<0.2	<10	110	0.31	0.19	0.08	0.28	25.0	3.6	13
ZZ44710		0.37	<0.001	0.12	0.58	1.1	<0.2	<10	40	0.19	0.06	0.09	0.05	7.25	0.6	2
ZZ44711		0.25	0.001	0.09	0.36	0.6	<0.2	<10	50	0.09	0.04	0.15	0.06	4.24	1.3	2
ZZ44712		0.27	0.001	0.08	0.95	4.5	<0.2	<10	170	0.23	0.15	0.26	0.12	18.95	3.2	11
ZZ44713		0.25	0.005	0.07	0.72	6.3	<0.2	<10	110	0.19	0.13	0.16	0.24	13.25	2.5	10
ZZ44714		0.29	0.001	0.19	1.71	9.8	<0.2	<10	170	0.52	0.22	0.17	0.39	24.8	5.3	20
ZZ44715		0.37	0.001	0.12	1.76	10.1	<0.2	<10	200	0.58	0.20	0.29	0.46	42.7	5.8	15
ZZ44716		0.31	0.003	0.18	1.86	12.7	<0.2	<10	150	0.60	0.16	0.17	0.33	25.7	5.5	32
ZZ44717		0.36	0.001	0.19	1.67	10.8	<0.2	<10	130	0.52	0.14	0.15	0.31	21.6	5.1	26
ZZ44718		0.27	0.001	0.08	0.23	0.3	<0.2	<10	30	0.05	0.02	0.06	0.12	2.62	0.7	1
ZZ44719		0.27	0.001	0.40	0.73	11.0	<0.2	<10	70	0.33	0.06	0.40	0.16	9.36	1.9	7
ZZ44720		0.40	0.002	0.19	1.27	5.1	<0.2	<10	190	0.39	0.11	0.26	0.24	41.2	4.2	12
ZZ44721		0.35	0.001	0.47	1.93	21.1	<0.2	<10	260	0.69	0.17	0.45	0.46	37.5	4.7	16
ZZ44722		0.34	0.002	0.08	1.23	8.0	<0.2	<10	150	0.41	0.14	0.35	0.39	34.6	5.2	12
ZZ44723		0.23	0.001	0.07	0.50	0.8	<0.2	<10	50	0.13	0.04	0.31	0.57	5.46	1.8	2
ZZ44724		0.31	<0.001	0.11	0.93	4.0	<0.2	<10	120	0.33	0.12	0.31	0.38	17.05	3.3	7
ZZ44725		0.36	<0.001	0.13	0.42	1.0	<0.2	<10	50	0.09	0.05	0.18	0.11	6.76	1.8	3
ZZ44726		0.25	<0.001	0.22	1.86	15.2	<0.2	<10	130	0.46	0.30	0.14	1.15	24.5	4.5	26
ZZ44744		0.37	0.001	0.11	2.17	10.4	<0.2	<10	140	0.84	0.27	0.16	0.30	38.0	8.3	33
ZZ44807		0.27	0.001	0.11	4.68	9.7	<0.2	<10	130	1.45	0.29	0.77	0.11	24.9	10.9	52
ZZ44808		0.27	0.004	3.63	1.77	401	<0.2	<10	210	2.14	14.40	0.31	1.34	29.1	10.1	23
ZZ44809		0.26	0.006	6.23	3.53	704	<0.2	<10	270	5.04	14.95	0.87	5.61	38.2	78.6	59
ZZ44810		0.28	0.002	0.67	2.61	37.4	<0.2	<10	170	1.51	0.62	0.38	0.58	47.2	10.0	33
ZZ44811		0.28	0.002	0.43	1.74	45.6	<0.2	<10	140	0.77	0.50	0.22	1.03	35.0	6.7	19
ZZ44812		0.22	0.001	0.46	2.21	21.9	<0.2	<10	190	0.81	0.62	0.12	0.97	41.1	8.8	28
ZZ44813		0.31	0.005	0.73	5.79	53.4	<0.2	<10	260	2.61	1.66	0.24	1.10	40.5	14.4	57
ZZ44814		0.25	0.003	0.15	5.52	38.6	<0.2	<10	410	2.14	0.87	0.44	0.35	51.9	15.0	70
ZZ44815		0.29	0.002	0.15	8.10	62.4	<0.2	<10	1120	3.01	0.29	0.32	0.26	52.9	19.6	88
ZZ44816		0.26	<0.001	0.14	0.73	1.6	<0.2	<10	30	0.28	0.05	0.09	0.04	9.12	1.9	3
ZZ44817		0.37	0.001	0.19	2.24	10.9	<0.2	<10	200	0.77	0.56	0.16	0.18	32.2	5.3	21
ZZ44818		0.38	0.002	0.31	2.00	11.2	<0.2	<10	170	0.87	0.35	0.15	0.27	46.5	6.2	20
ZZ44819		0.42	0.003	1.20	3.31	20.2	<0.2	<10	310	1.62	0.51	0.39	0.46	67.9	8.7	25
ZZ44820		0.39	0.002	0.31	2.32	26.7	<0.2	<10	330	0.66	0.45	0.45	0.36	48.1	7.7	21
ZZ44821		0.31	0.001	0.14	2.34	17.2	<0.2	<10	250	0.94	0.58	0.24	0.43	40.5	7.8	22
ZZ44822		0.34	0.002	0.13	2.23	24.0	<0.2	<10	180	0.85	0.49	0.33	0.73	52.6	7.2	19

***** See Appendix Page for comments regarding this certificate *****

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To: **SILVER RANGE RESOURCES LTD.**
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Finalized Date: 16-JUL-2013
Account: RANSIL

Project: KEG (Ku)

CERTIFICATE OF ANALYSIS WH13121811

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ44704		7.85	25.0	2.19	7.90	0.09	0.05	0.04	0.022	0.17	13.4	25.4	0.87	564	1.17	0.05
ZZ44705		0.50	5.5	0.50	1.55	<0.05	<0.02	0.02	<0.005	0.02	2.8	2.3	0.08	33	0.31	0.02
ZZ44706		2.67	17.5	2.13	6.15	0.07	<0.02	0.03	0.024	0.06	12.9	15.9	0.44	196	1.28	0.01
ZZ44707		4.12	17.0	2.20	5.89	0.10	0.05	0.03	0.026	0.06	22.7	22.2	0.48	328	1.12	0.01
ZZ44708		2.74	7.7	2.24	8.37	0.07	0.03	0.03	0.018	0.05	11.0	10.8	0.28	567	1.71	<0.01
ZZ44709		1.75	7.2	1.84	6.73	0.06	0.02	0.03	0.019	0.05	12.0	13.7	0.28	156	1.49	0.01
ZZ44710		0.38	5.1	0.31	1.42	<0.05	<0.02	0.01	<0.005	0.02	3.6	1.4	0.04	21	0.21	0.02
ZZ44711		0.34	4.3	0.42	1.49	<0.05	<0.02	0.01	<0.005	0.02	2.1	1.1	0.04	50	0.27	0.02
ZZ44712		2.88	7.9	1.27	5.13	0.05	<0.02	0.02	0.014	0.06	9.4	7.1	0.23	171	1.03	0.01
ZZ44713		4.06	6.5	1.00	3.72	<0.05	<0.02	0.02	0.009	0.05	6.5	6.9	0.20	146	0.84	0.02
ZZ44714		2.44	8.9	2.28	6.12	0.07	0.02	0.03	0.022	0.06	12.5	13.1	0.32	293	1.96	<0.01
ZZ44715		2.29	9.4	1.72	5.29	0.09	0.04	0.04	0.020	0.08	19.4	17.1	0.39	225	0.56	0.01
ZZ44716		9.49	22.6	2.11	8.28	0.08	0.02	0.04	0.022	0.14	13.1	22.7	0.48	212	1.65	0.01
ZZ44717		7.34	19.8	1.83	6.39	0.07	0.02	0.03	0.018	0.11	11.0	20.0	0.43	209	1.33	0.01
ZZ44718		0.24	3.1	0.25	0.94	<0.05	<0.02	0.01	<0.005	0.02	1.3	0.4	0.03	18	0.19	0.02
ZZ44719		2.77	50.1	0.64	1.84	<0.05	0.05	0.05	0.006	0.03	5.2	5.9	0.08	87	0.42	0.03
ZZ44720		1.60	7.2	1.33	4.20	0.09	0.05	0.04	0.016	0.05	20.0	14.2	0.34	176	0.53	0.01
ZZ44721		6.31	12.3	1.72	6.17	0.09	0.06	0.08	0.024	0.06	19.7	19.2	0.38	151	0.54	0.01
ZZ44722		1.74	7.6	1.57	4.82	0.08	0.02	0.03	0.017	0.06	16.0	14.0	0.33	241	0.62	0.01
ZZ44723		0.37	4.1	0.38	1.57	<0.05	0.02	0.01	0.005	0.03	2.4	1.4	0.04	341	0.25	0.04
ZZ44724		1.41	6.9	0.99	3.97	<0.05	<0.02	0.02	0.011	0.04	9.4	6.4	0.15	394	0.58	0.03
ZZ44725		0.65	7.8	0.56	1.86	<0.05	0.02	0.01	<0.005	0.02	3.5	1.2	0.04	127	0.20	0.03
ZZ44726		3.73	9.7	2.37	9.14	<0.05	0.03	0.04	0.018	0.10	13.2	20.1	0.48	156	1.07	0.01
ZZ44744		3.36	17.9	2.30	7.20	0.06	0.03	0.03	0.026	0.11	17.9	18.9	0.64	449	0.87	0.02
ZZ44807		8.08	13.1	2.62	14.00	0.06	0.08	0.01	0.012	0.13	13.3	131.5	4.88	241	0.41	0.01
ZZ44808		17.00	130.0	2.68	7.33	0.06	0.03	0.03	0.211	0.24	14.7	25.4	0.60	464	1.99	0.02
ZZ44809		26.8	281	3.50	11.00	0.08	0.12	0.03	0.579	0.35	17.6	66.1	1.79	1580	4.50	0.02
ZZ44810		6.93	37.8	2.74	9.76	0.05	<0.02	0.04	0.037	0.14	23.0	35.5	0.71	508	1.02	0.01
ZZ44811		3.64	18.0	2.25	6.65	0.05	<0.02	0.05	0.034	0.08	17.5	18.3	0.34	340	2.08	0.01
ZZ44812		5.59	20.9	3.38	8.75	0.06	0.03	0.05	0.050	0.14	21.1	23.8	0.38	559	3.40	0.01
ZZ44813		15.40	45.3	3.84	19.00	0.14	0.04	0.03	0.053	0.39	20.9	66.2	1.18	502	1.76	0.01
ZZ44814		18.70	29.2	3.76	18.40	0.18	0.08	0.01	0.032	0.94	26.4	75.4	2.09	358	0.40	0.03
ZZ44815		26.6	46.0	4.89	24.1	0.22	0.23	0.02	0.030	1.30	24.3	82.0	2.24	407	0.61	0.03
ZZ44816		0.68	10.2	0.42	2.23	<0.05	<0.02	0.02	0.005	0.03	5.8	2.0	0.06	145	0.31	0.03
ZZ44817		3.30	14.0	2.17	9.50	0.05	<0.02	0.03	0.026	0.09	19.2	19.1	0.42	362	0.80	0.01
ZZ44818		2.33	12.8	1.72	6.52	0.06	0.02	0.03	0.022	0.08	27.2	21.5	0.44	291	0.59	0.01
ZZ44819		3.72	21.7	2.43	9.34	0.05	0.02	0.07	0.030	0.14	24.9	23.8	0.47	432	1.07	0.02
ZZ44820		3.00	14.8	2.53	8.88	0.05	0.02	0.02	0.027	0.11	20.9	18.8	0.48	408	0.96	0.02
ZZ44821		3.43	15.4	2.62	9.57	0.05	<0.02	0.03	0.030	0.13	21.3	23.4	0.48	571	1.18	0.01
ZZ44822		3.29	14.4	2.73	9.64	0.05	<0.02	0.04	0.027	0.13	22.3	27.2	0.49	434	1.14	0.02

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Finalized Date: 16-JUL-2013
Account: RANSIL

Project: KEG (Ku)

CERTIFICATE OF ANALYSIS WH13121811

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ44704		1.44	19.0	960	40.5	20.9	0.001	0.11	1.82	2.7	2.1	0.5	61.8	0.01	0.02	1.3
ZZ44705		0.28	2.5	410	3.9	2.7	<0.001	0.01	0.13	0.3	0.2	<0.2	7.9	<0.01	0.01	<0.2
ZZ44706		0.90	14.9	790	37.4	11.7	<0.001	0.03	0.87	1.3	0.8	0.6	15.5	0.01	0.03	0.4
ZZ44707		1.05	16.5	980	73.8	15.4	<0.001	0.04	1.21	2.2	1.3	0.6	20.3	0.01	0.02	1.4
ZZ44708		2.88	9.0	250	22.1	19.6	<0.001	0.02	0.93	1.9	0.5	0.9	10.8	<0.01	0.02	2.5
ZZ44709		1.61	9.2	310	13.5	15.8	<0.001	0.02	0.67	1.8	0.5	0.7	9.6	<0.01	0.02	1.0
ZZ44710		0.34	1.3	390	9.6	2.2	<0.001	0.02	0.14	0.3	0.2	<0.2	8.0	<0.01	0.01	<0.2
ZZ44711		0.27	1.6	340	3.6	3.0	<0.001	0.02	0.09	0.2	<0.2	<0.2	9.9	<0.01	0.01	<0.2
ZZ44712		0.84	7.4	390	9.7	23.8	<0.001	0.03	0.46	1.0	0.3	0.7	18.8	<0.01	0.01	0.2
ZZ44713		0.58	6.4	470	8.3	10.5	<0.001	0.02	0.42	0.7	0.3	0.4	14.7	<0.01	0.01	<0.2
ZZ44714		1.82	12.1	540	22.4	16.3	<0.001	0.02	0.70	2.3	0.6	0.6	13.5	0.01	0.03	1.8
ZZ44715		2.04	14.5	540	48.2	12.8	<0.001	0.02	0.82	3.3	0.7	0.7	15.8	0.01	0.02	3.8
ZZ44716		1.10	15.3	690	19.3	36.2	<0.001	0.04	1.12	1.2	0.8	0.7	26.6	<0.01	0.03	0.2
ZZ44717		0.80	13.2	650	15.9	26.9	<0.001	0.04	0.94	1.0	0.7	0.5	21.7	<0.01	0.02	0.2
ZZ44718		0.13	1.1	300	3.0	1.1	<0.001	0.02	0.05	0.1	<0.2	<0.2	7.9	<0.01	<0.01	<0.2
ZZ44719		0.43	7.5	430	5.1	3.7	0.001	0.06	1.68	1.0	1.8	0.2	10.5	<0.01	0.01	0.5
ZZ44720		1.77	10.3	630	13.2	8.9	<0.001	0.01	0.54	2.9	0.6	0.6	16.6	0.01	0.01	5.0
ZZ44721		1.18	10.9	1060	13.9	15.6	<0.001	0.08	1.13	2.3	1.6	0.7	18.8	0.01	0.02	1.5
ZZ44722		1.36	10.7	550	13.7	12.6	<0.001	0.02	0.70	2.0	0.5	0.6	15.6	<0.01	0.02	1.6
ZZ44723		0.35	1.8	360	3.5	2.8	<0.001	0.03	0.11	0.3	<0.2	<0.2	11.8	0.01	0.01	0.2
ZZ44724		0.36	5.0	560	9.8	12.2	<0.001	0.04	0.38	0.5	0.3	0.4	16.5	<0.01	0.02	0.2
ZZ44725		0.34	1.6	500	9.2	2.5	<0.001	0.02	0.14	0.3	<0.2	<0.2	11.1	<0.01	0.01	0.3
ZZ44726		2.27	12.4	390	60.9	15.0	<0.001	0.03	1.21	2.3	0.4	0.8	19.8	0.01	0.03	2.4
ZZ44744		1.07	22.7	780	16.5	15.4	<0.001	0.05	1.44	2.3	0.4	0.7	21.0	0.01	0.02	1.3
ZZ44807		1.09	41.7	680	18.4	18.1	<0.001	0.03	1.14	3.8	0.4	1.0	49.6	<0.01	0.01	9.0
ZZ44808		1.04	20.5	730	220	28.8	<0.001	0.29	4.16	2.5	2.4	28.5	68.2	<0.01	0.06	3.1
ZZ44809		1.08	75.0	1140	562	51.5	<0.001	0.16	5.20	4.3	2.1	35.7	269	<0.01	0.13	10.5
ZZ44810		1.58	25.2	530	46.5	20.3	<0.001	0.04	16.75	3.7	0.7	1.2	22.6	<0.01	0.03	2.8
ZZ44811		1.32	14.2	650	37.2	13.2	<0.001	0.05	6.55	2.0	0.6	1.3	26.9	<0.01	0.04	1.3
ZZ44812		2.65	27.3	610	58.3	33.0	<0.001	0.03	2.66	3.5	0.8	2.0	12.2	<0.01	0.04	7.0
ZZ44813		2.72	48.1	680	18.7	73.6	0.001	0.05	2.41	7.7	1.1	3.4	85.0	0.01	0.03	3.9
ZZ44814		2.71	34.9	290	69.3	91.4	<0.001	0.02	0.80	9.9	<0.2	1.7	51.7	<0.01	0.02	12.1
ZZ44815		2.97	50.0	680	25.1	168.0	<0.001	0.03	0.48	14.0	0.7	2.8	127.5	<0.01	0.02	12.1
ZZ44816		0.31	2.0	420	3.6	3.7	<0.001	0.05	0.14	0.3	<0.2	<0.2	8.2	<0.01	0.01	<0.2
ZZ44817		0.85	12.8	540	30.6	17.8	<0.001	0.05	0.88	1.5	0.2	1.4	12.3	<0.01	0.02	0.4
ZZ44818		1.66	13.1	410	23.1	11.0	<0.001	0.04	0.84	3.0	0.3	0.9	12.3	<0.01	0.01	3.2
ZZ44819		1.35	19.9	850	36.9	22.9	<0.001	0.07	1.34	2.8	0.5	1.0	26.8	<0.01	0.03	1.8
ZZ44820		1.39	15.7	670	33.2	25.6	<0.001	0.06	1.21	2.9	0.2	1.3	28.5	<0.01	0.03	2.1
ZZ44821		1.07	16.2	750	27.4	22.7	<0.001	0.06	1.24	2.3	0.2	1.1	20.8	<0.01	0.04	1.1
ZZ44822		1.11	15.0	690	42.2	18.4	<0.001	0.06	1.13	2.6	0.4	1.3	28.6	<0.01	0.02	1.5

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 16- JUL- 2013
Account: RANSIL

Project: KEG (Ku)

CERTIFICATE OF ANALYSIS WH13121811

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ44704		0.055	0.20	3.10	35	0.31	12.05	93	1.6
ZZ44705		0.018	0.04	0.20	13	0.08	0.95	9	<0.5
ZZ44706		0.034	0.19	0.79	40	0.34	4.99	70	<0.5
ZZ44707		0.032	0.17	2.18	39	0.34	13.40	121	1.1
ZZ44708		0.084	0.12	0.52	46	0.43	2.81	82	1.2
ZZ44709		0.048	0.11	0.55	35	0.30	3.30	52	<0.5
ZZ44710		0.014	0.04	0.29	6	0.06	1.36	7	<0.5
ZZ44711		0.018	0.04	0.20	12	0.08	0.71	8	<0.5
ZZ44712		0.037	0.12	0.49	28	0.27	2.46	39	<0.5
ZZ44713		0.033	0.09	0.36	24	0.17	1.87	35	<0.5
ZZ44714		0.046	0.16	0.70	42	0.38	4.32	56	0.5
ZZ44715		0.053	0.16	0.77	32	0.32	7.81	66	1.0
ZZ44716		0.045	0.67	1.36	115	0.32	5.17	65	0.9
ZZ44717		0.038	0.55	1.06	95	0.27	4.09	59	0.5
ZZ44718		0.011	0.03	0.23	8	<0.05	0.52	4	<0.5
ZZ44719		0.026	0.15	2.35	17	0.08	5.65	26	1.6
ZZ44720		0.052	0.10	1.29	25	0.23	8.51	55	1.3
ZZ44721		0.031	0.20	2.42	32	0.17	11.30	107	1.4
ZZ44722		0.044	0.11	0.71	28	0.29	6.63	58	<0.5
ZZ44723		0.024	0.04	0.21	10	0.06	0.91	15	0.6
ZZ44724		0.027	0.08	0.68	21	0.17	3.06	50	<0.5
ZZ44725		0.034	0.04	0.15	19	0.09	1.14	10	0.5
ZZ44726		0.104	0.18	0.46	48	0.38	2.73	102	1.1
ZZ44744		0.054	0.14	0.71	36	0.29	6.13	59	0.9
ZZ44807		0.033	0.28	0.79	42	0.35	7.06	50	2.7
ZZ44808		0.047	0.43	2.22	55	0.82	6.10	157	1.0
ZZ44809		0.069	1.03	4.32	148	2.11	14.35	609	5.5
ZZ44810		0.069	0.25	1.45	56	1.72	7.38	109	<0.5
ZZ44811		0.055	0.18	1.12	39	0.51	5.89	66	<0.5
ZZ44812		0.089	0.29	0.97	48	0.71	6.08	105	1.0
ZZ44813		0.148	0.41	1.94	58	0.35	13.40	291	1.1
ZZ44814		0.261	0.51	1.00	65	0.36	6.85	145	3.2
ZZ44815		0.277	0.95	1.09	120	0.35	7.61	126	7.9
ZZ44816		0.020	0.06	0.50	9	0.10	2.41	8	<0.5
ZZ44817		0.050	0.22	0.95	44	0.96	5.17	70	<0.5
ZZ44818		0.076	0.13	1.03	32	1.05	8.56	53	0.5
ZZ44819		0.054	0.18	1.71	45	0.70	11.80	80	0.5
ZZ44820		0.063	0.19	1.26	50	0.64	6.91	89	0.6
ZZ44821		0.053	0.21	1.21	47	1.23	7.36	91	<0.5
ZZ44822		0.057	0.17	1.46	46	2.86	8.64	106	<0.5

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VANCOUVER BC V6B 1L8

Finalized Date: 16-JUL-2013
Account: RANSIL

Project: KEG (Ku)

CERTIFICATE OF ANALYSIS WH13121811

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ44823		0.32	0.002	0.19	4.30	52.9	<0.2	<10	340	2.39	0.59	0.30	0.35	47.8	10.0	30
ZZ44824		0.36	0.004	1.39	3.48	109.0	<0.2	<10	350	1.40	0.76	0.41	1.24	43.6	8.3	26
ZZ44825		0.38	0.003	0.14	2.23	13.6	<0.2	<10	180	0.86	0.37	0.18	0.56	27.8	5.5	26
ZZ44826		0.32	0.003	0.20	2.39	71.4	<0.2	<10	200	0.86	0.76	0.15	0.87	41.1	15.5	36
ZZ44827		0.25	0.002	0.17	1.65	29.6	<0.2	<10	160	0.64	1.00	0.26	0.58	35.0	6.7	22
ZZ44828		0.26	0.003	0.52	2.25	32.7	<0.2	<10	160	1.02	0.84	0.10	0.90	29.8	5.7	28
ZZ44829		0.30	0.080	2.25	1.99	51.9	<0.2	<10	170	0.94	72.6	0.09	0.53	27.5	19.1	26
ZZ44830		0.31	0.006	1.16	3.50	87.8	<0.2	<10	200	1.57	1.81	0.38	1.45	42.7	12.3	45
ZZ44831		0.30	0.006	0.18	2.27	18.7	<0.2	<10	170	0.81	3.24	0.14	0.36	37.8	7.2	22
ZZ44832		0.30	0.002	0.21	8.52	66.4	<0.2	<10	530	3.41	0.40	0.38	1.43	53.7	31.3	91
ZZ44833		0.31	0.002	0.57	2.59	22.0	<0.2	<10	140	1.22	0.41	0.34	0.82	33.4	7.8	29
ZZ44834		0.44	<0.001	0.12	1.70	18.4	<0.2	<10	160	0.72	0.35	0.33	0.80	37.4	6.0	17
ZZ44866		0.39	0.001	0.11	1.92	22.3	<0.2	<10	180	0.69	0.40	0.23	0.43	39.1	6.1	17
ZZ44867		0.50	0.001	0.44	2.47	32.9	<0.2	<10	230	1.03	0.65	0.35	0.42	34.4	6.9	22
ZZ44868		0.34	0.001	0.11	2.41	30.6	<0.2	<10	260	0.78	0.51	0.32	0.47	30.5	6.2	21
ZZ44869		0.29	0.001	0.07	1.56	19.5	<0.2	<10	150	0.65	0.31	0.16	0.42	38.0	5.1	15
ZZ44870		0.32	0.002	0.17	2.04	12.0	<0.2	<10	170	0.77	0.28	0.17	0.44	42.0	6.9	17
ZZ44871		0.30	0.002	0.07	0.97	7.9	<0.2	<10	290	0.57	0.23	0.34	0.23	58.6	6.8	11
ZZ44872		0.38	0.001	0.14	1.65	8.9	<0.2	<10	110	0.60	0.28	0.08	0.52	32.0	4.2	14
ZZ44873		0.36	0.005	0.36	2.45	29.8	<0.2	<10	170	1.18	1.20	0.24	2.07	32.4	11.9	32
ZZ44874		0.27	0.002	0.29	1.96	81.8	<0.2	<10	150	0.98	0.42	0.70	1.29	29.5	15.5	34
ZZ44875		0.31	0.002	0.19	1.52	24.5	<0.2	<10	90	1.12	0.38	0.37	1.37	31.4	8.4	18
ZZ44876		0.31	0.002	0.54	2.61	26.7	<0.2	<10	210	1.18	0.50	0.17	0.88	39.6	11.6	27
ZZ44877		0.30	0.005	0.20	4.52	171.5	<0.2	<10	290	0.86	0.44	0.09	0.66	19.90	10.1	54
ZZ44878		0.29	0.003	0.22	3.67	39.2	<0.2	<10	380	1.32	0.66	0.27	2.40	34.8	9.2	53
ZZ44879		0.28	0.001	0.18	2.15	28.0	<0.2	<10	180	0.63	0.62	0.09	0.22	27.5	5.4	30
ZZ44880		0.32	0.002	0.28	2.22	14.4	<0.2	<10	200	1.23	0.35	0.32	0.56	36.9	5.7	18
ZZ44881		0.25	0.003	0.26	2.60	15.3	<0.2	<10	270	1.06	0.32	0.16	1.22	36.2	6.4	23
ZZ44882		0.42	0.004	1.04	3.06	23.2	<0.2	<10	320	1.42	0.67	0.51	0.45	31.2	8.0	26
ZZ44883		0.50	0.002	0.15	2.56	31.3	<0.2	<10	310	1.16	0.60	0.37	0.44	64.0	9.1	21
ZZ44884		0.30	0.001	0.20	1.22	7.5	<0.2	<10	140	0.50	0.22	0.24	0.17	26.9	4.0	10
ZZ44885		0.30	0.003	0.10	2.22	19.1	<0.2	<10	200	0.52	0.42	0.10	0.40	30.2	9.4	30
ZZ44886		0.31	0.001	0.08	1.05	22.6	<0.2	<10	130	0.34	0.30	0.35	0.92	24.2	3.5	11
ZZ44887		0.32	0.001	0.35	2.26	26.2	<0.2	<10	230	0.81	1.06	0.28	1.12	26.8	9.9	36
ZZ44888		0.27	0.001	0.09	2.44	24.7	<0.2	<10	320	0.65	0.50	0.15	0.57	35.3	7.7	47
ZZ44889		0.25	0.002	0.34	4.35	14.0	<0.2	<10	260	2.26	0.39	0.57	0.57	49.9	16.9	51
ZZ44890		0.31	0.001	0.46	4.08	11.0	<0.2	<10	260	2.30	0.31	1.34	0.51	50.2	17.5	45
ZZ44891		0.49	0.002	0.21	3.00	12.8	<0.2	<10	250	1.47	0.33	0.83	0.27	57.0	16.3	39
ZZ44892		0.51	0.002	0.94	2.89	28.1	<0.2	<10	280	1.86	0.49	0.63	0.60	60.5	13.5	38
ZZ44893		0.25	0.001	0.09	1.32	13.6	<0.2	<10	170	0.38	0.31	0.19	0.98	24.8	7.6	22

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CERTIFICATE OF ANALYSIS WH13121811

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ44823		5.82	27.8	3.26	13.25	0.09	0.05	0.04	0.049	0.17	36.6	26.5	0.56	549	1.73	0.01
ZZ44824		7.30	33.9	2.89	11.20	0.09	0.04	0.05	0.042	0.14	31.2	28.5	0.58	464	3.91	0.02
ZZ44825		3.93	15.7	2.39	8.95	<0.05	<0.02	0.03	0.022	0.10	15.8	18.4	0.48	330	2.67	0.01
ZZ44826		13.00	55.4	5.27	9.91	0.08	<0.02	0.03	0.060	0.42	21.6	23.0	0.40	930	7.44	0.01
ZZ44827		4.85	25.2	2.61	7.97	<0.05	0.02	0.03	0.051	0.12	19.1	22.9	0.42	274	4.30	0.01
ZZ44828		5.19	31.0	2.78	7.53	0.06	<0.02	0.04	0.026	0.15	16.3	22.4	0.48	248	5.26	0.01
ZZ44829		12.65	204	6.41	8.95	0.08	<0.02	0.07	0.092	0.22	15.6	25.5	0.36	796	22.5	0.02
ZZ44830		15.00	87.0	4.16	13.90	0.08	0.02	0.03	0.101	0.27	24.8	67.8	0.99	722	6.30	0.01
ZZ44831		3.35	12.6	2.25	7.27	0.05	0.05	0.05	0.026	0.13	19.6	22.3	0.43	226	1.05	0.01
ZZ44832		27.7	53.4	5.80	26.2	0.30	0.23	0.02	0.057	1.43	25.6	101.5	2.42	1020	1.14	0.02
ZZ44833		5.05	17.6	2.43	10.35	0.06	<0.02	0.03	0.026	0.15	19.3	36.5	0.69	299	1.81	0.02
ZZ44834		2.43	10.9	1.99	6.59	0.06	0.02	0.03	0.021	0.11	18.0	14.9	0.34	416	1.23	0.01
ZZ44866		2.59	12.4	2.61	9.60	<0.05	<0.02	0.03	0.028	0.10	20.9	17.9	0.45	395	1.29	0.02
ZZ44867		3.04	12.3	2.27	8.18	0.06	0.03	0.04	0.036	0.11	21.1	24.0	0.45	388	1.07	0.01
ZZ44868		3.47	11.9	2.41	9.67	0.05	<0.02	0.02	0.031	0.12	17.2	24.5	0.49	321	1.34	0.01
ZZ44869		2.36	9.5	1.72	6.49	0.05	0.02	0.02	0.024	0.08	18.9	22.3	0.34	205	0.87	0.01
ZZ44870		2.05	12.4	1.96	6.59	0.06	0.02	0.04	0.023	0.08	20.5	19.4	0.40	340	1.02	0.01
ZZ44871		1.45	7.3	1.45	4.02	0.07	0.06	0.04	0.017	0.08	27.2	15.1	0.35	379	0.53	0.02
ZZ44872		2.11	10.2	1.74	7.28	<0.05	<0.02	0.04	0.020	0.07	16.4	14.0	0.28	216	1.24	0.01
ZZ44873		10.45	32.9	4.15	10.40	0.08	<0.02	0.02	0.106	0.55	19.6	47.0	0.59	759	5.73	0.01
ZZ44874		7.47	63.6	3.31	7.63	0.05	0.02	0.02	0.029	0.11	16.7	22.8	0.51	373	6.52	0.01
ZZ44875		5.93	23.9	2.29	5.52	<0.05	<0.02	0.04	0.020	0.06	15.9	17.0	0.30	165	4.29	0.01
ZZ44876		5.17	22.7	2.38	7.70	0.07	0.03	0.05	0.030	0.17	19.3	28.3	0.62	344	2.17	0.01
ZZ44877		9.46	90.4	10.20	15.25	0.10	0.03	0.02	0.334	1.00	11.5	80.3	0.85	684	10.30	<0.01
ZZ44878		9.92	27.5	3.52	13.60	0.10	0.05	0.05	0.034	0.51	16.9	66.1	1.29	373	1.91	0.01
ZZ44879		5.58	19.2	2.51	9.23	0.05	0.02	0.03	0.023	0.18	15.0	25.2	0.60	227	1.83	0.01
ZZ44880		5.10	17.5	2.52	7.78	0.05	0.03	0.06	0.028	0.08	23.7	19.5	0.29	219	1.68	0.01
ZZ44881		2.95	13.8	2.60	9.74	0.06	<0.02	0.11	0.027	0.16	17.5	19.9	0.37	434	1.43	0.01
ZZ44882		3.95	19.5	2.84	10.30	0.06	0.06	0.07	0.040	0.17	21.4	25.5	0.59	291	2.12	0.02
ZZ44883		4.58	15.7	2.97	8.36	0.05	0.04	0.03	0.035	0.11	25.8	30.0	0.52	387	1.43	0.02
ZZ44884		1.59	11.2	1.23	4.36	<0.05	<0.02	0.03	0.017	0.07	15.2	12.5	0.26	125	0.47	0.02
ZZ44885		3.25	17.7	3.37	10.20	<0.05	<0.02	0.04	0.031	0.11	15.3	24.2	0.60	563	2.13	0.01
ZZ44886		2.16	10.2	1.65	6.76	<0.05	<0.02	0.03	0.015	0.07	12.1	6.5	0.18	192	1.63	0.01
ZZ44887		13.25	18.6	2.55	10.65	<0.05	<0.02	0.03	0.060	0.10	14.0	27.3	0.55	775	8.18	0.01
ZZ44888		7.77	26.9	3.02	15.90	0.08	0.03	0.01	0.030	0.26	19.9	37.6	1.04	196	8.79	0.01
ZZ44889		6.72	24.4	3.56	13.20	0.10	0.13	0.06	0.035	0.45	22.8	46.0	1.64	760	0.95	0.08
ZZ44890		6.82	29.4	3.51	12.65	0.16	0.18	0.03	0.036	0.58	30.5	46.2	1.72	852	0.83	0.15
ZZ44891		5.80	26.8	3.26	9.75	0.11	0.24	0.03	0.029	0.36	31.3	41.3	1.33	555	0.57	0.06
ZZ44892		7.50	36.0	3.00	9.13	0.09	0.07	0.04	0.024	0.24	26.8	46.2	1.20	435	0.72	0.03
ZZ44893		4.95	10.7	1.62	5.95	0.06	<0.02	0.02	0.013	0.18	12.5	26.3	0.59	397	0.71	0.01

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	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ44823		1.39	25.3	1490	277	32.6	<0.001	0.10	1.42	2.9	1.2	1.3	32.0	0.01	0.04	2.0
ZZ44824		1.07	30.4	1140	37.3	26.4	0.002	0.09	3.76	3.3	1.4	1.4	42.3	<0.01	0.02	1.7
ZZ44825		0.59	16.4	700	15.8	23.1	<0.001	0.06	0.97	0.8	0.4	1.1	19.7	<0.01	0.04	0.2
ZZ44826		0.90	40.6	890	69.9	80.1	<0.001	0.07	12.05	1.4	0.8	1.5	18.4	<0.01	0.05	0.4
ZZ44827		1.82	21.1	590	43.4	16.3	0.001	0.03	7.73	2.8	0.6	1.6	17.6	<0.01	0.05	4.3
ZZ44828		0.51	33.5	940	15.4	18.7	<0.001	0.09	5.66	0.8	1.3	0.7	22.7	<0.01	0.05	0.4
ZZ44829		1.02	25.6	960	376	28.1	0.003	0.36	19.55	1.8	5.6	6.1	18.0	<0.01	0.27	0.9
ZZ44830		1.82	49.2	590	180.0	42.1	0.001	0.06	5.45	6.0	1.6	3.1	29.2	<0.01	0.05	2.6
ZZ44831		2.07	14.7	610	42.1	18.8	<0.001	0.02	1.10	3.6	0.6	0.9	11.1	0.01	0.04	5.1
ZZ44832		4.46	56.5	770	33.8	183.5	<0.001	0.03	0.61	13.8	0.6	3.1	150.5	<0.01	0.04	13.4
ZZ44833		1.51	17.5	550	58.2	25.1	<0.001	0.07	1.21	2.8	0.7	0.9	27.2	<0.01	0.03	1.4
ZZ44834		0.56	11.9	660	26.2	15.9	<0.001	0.05	1.08	1.5	0.4	0.8	24.4	<0.01	0.02	0.9
ZZ44866		1.12	12.4	600	22.7	15.0	<0.001	0.05	1.50	2.0	0.4	1.4	21.5	<0.01	0.03	0.9
ZZ44867		1.12	14.6	650	58.3	18.6	<0.001	0.05	0.85	2.8	0.5	1.0	31.0	<0.01	0.02	1.8
ZZ44868		1.09	14.7	580	23.9	21.9	0.001	0.04	0.99	2.1	0.5	1.2	24.2	<0.01	0.02	1.0
ZZ44869		1.46	11.1	340	32.5	11.0	<0.001	0.03	0.91	2.1	0.7	0.8	12.5	<0.01	<0.01	2.1
ZZ44870		1.47	13.7	520	19.3	12.9	<0.001	0.04	1.07	1.9	0.8	0.9	13.0	<0.01	<0.01	1.3
ZZ44871		1.37	9.1	820	13.3	11.9	<0.001	<0.01	0.81	3.6	0.6	1.0	21.9	<0.01	0.01	9.0
ZZ44872		1.02	8.9	600	11.2	14.1	<0.001	0.05	0.78	1.1	0.8	1.1	7.3	<0.01	0.02	0.4
ZZ44873		2.28	24.9	330	50.8	82.1	0.001	0.02	10.55	4.6	1.4	2.5	22.8	<0.01	0.01	3.2
ZZ44874		0.58	52.5	650	24.9	20.0	<0.001	0.02	13.05	1.6	1.3	2.8	58.3	<0.01	0.03	1.6
ZZ44875		0.99	19.2	490	20.7	11.9	0.001	0.04	4.32	1.3	1.0	0.7	26.8	<0.01	0.04	1.0
ZZ44876		1.85	21.6	790	51.8	24.8	<0.001	0.04	2.80	2.7	1.2	1.2	16.4	0.01	0.02	2.0
ZZ44877		4.22	12.6	520	53.3	91.1	<0.001	0.07	1.57	5.7	1.2	3.4	11.7	0.01	0.02	3.2
ZZ44878		4.09	25.4	650	29.6	63.7	0.001	0.05	0.97	5.6	0.6	1.4	18.9	<0.01	0.02	4.2
ZZ44879		1.69	17.3	490	50.9	22.4	<0.001	0.05	0.85	2.0	0.6	1.1	11.8	<0.01	0.02	0.8
ZZ44880		1.61	13.5	720	59.1	16.8	<0.001	0.03	1.05	2.4	1.0	0.9	26.6	0.01	0.04	1.5
ZZ44881		1.63	11.8	1290	33.1	27.7	<0.001	0.07	1.06	1.6	0.9	1.0	18.2	0.01	0.03	0.5
ZZ44882		1.57	19.5	940	36.5	33.5	0.001	0.08	1.33	4.1	0.9	1.4	38.1	<0.01	0.03	2.1
ZZ44883		1.49	17.1	600	47.3	20.5	0.001	0.03	1.89	3.9	1.0	1.2	26.0	<0.01	0.02	3.9
ZZ44884		0.92	7.4	550	9.4	10.7	0.001	0.02	0.51	2.0	0.6	0.7	13.7	<0.01	<0.01	1.3
ZZ44885		1.39	22.3	570	18.0	19.3	<0.001	0.04	1.40	2.5	0.6	1.3	11.9	<0.01	0.03	1.0
ZZ44886		0.56	7.6	740	9.3	18.2	<0.001	0.06	0.79	0.3	0.7	1.1	24.5	<0.01	0.02	<0.2
ZZ44887		0.99	23.2	610	66.9	27.3	0.002	0.06	2.10	1.5	1.2	3.3	24.4	<0.01	0.02	0.4
ZZ44888		3.36	25.7	310	24.3	29.9	0.002	0.02	1.14	4.7	1.3	1.9	19.7	<0.01	0.03	3.4
ZZ44889		2.49	35.7	710	33.7	48.0	<0.001	0.02	1.36	7.0	1.0	0.9	72.3	0.02	0.03	10.3
ZZ44890		1.28	35.5	670	26.3	58.4	<0.001	0.02	2.36	8.6	0.6	0.9	117.0	<0.01	0.03	12.9
ZZ44891		1.11	31.9	600	23.1	41.3	<0.001	0.01	2.13	6.8	0.8	1.2	55.2	<0.01	0.01	13.4
ZZ44892		2.12	32.7	620	110.5	36.3	<0.001	0.02	4.44	6.2	0.9	1.0	46.7	<0.01	0.03	9.2
ZZ44893		1.48	13.4	260	17.7	34.0	<0.001	0.01	0.77	2.3	0.2	0.5	28.3	<0.01	0.02	2.3

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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 16- JUL- 2013
Account: RANSIL

Project: KEG (Ku)

CERTIFICATE OF ANALYSIS WH13121811

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ44823		0.051	0.31	4.37	70	0.83	21.4	110	1.1
ZZ44824		0.048	0.28	4.03	55	0.44	20.4	178	0.9
ZZ44825		0.030	0.22	0.95	52	0.31	4.89	86	<0.5
ZZ44826		0.051	0.37	2.62	67	1.24	5.55	163	<0.5
ZZ44827		0.070	0.22	1.22	59	0.58	5.63	98	0.8
ZZ44828		0.036	0.34	3.12	92	0.40	6.66	93	<0.5
ZZ44829		0.053	0.49	4.08	69	59.6	8.45	123	<0.5
ZZ44830		0.108	0.33	2.49	60	0.81	14.45	376	0.6
ZZ44831		0.075	0.17	0.79	41	0.67	5.71	55	1.6
ZZ44832		0.299	0.94	1.41	129	0.35	7.83	431	8.0
ZZ44833		0.088	0.15	1.37	47	0.40	8.33	123	<0.5
ZZ44834		0.039	0.13	1.29	35	0.70	6.33	82	<0.5
ZZ44866		0.051	0.17	1.24	44	0.62	6.41	73	<0.5
ZZ44867		0.063	0.15	1.88	45	0.72	9.36	163	0.7
ZZ44868		0.057	0.20	1.12	46	0.73	4.94	109	<0.5
ZZ44869		0.055	0.12	1.06	30	0.73	4.67	62	0.6
ZZ44870		0.056	0.18	1.08	33	0.48	6.12	55	<0.5
ZZ44871		0.085	0.13	0.91	29	1.03	14.40	41	2.0
ZZ44872		0.044	0.15	0.92	35	0.40	5.57	48	<0.5
ZZ44873		0.122	0.44	2.22	43	0.87	8.81	771	0.6
ZZ44874		0.023	0.31	5.00	127	0.30	7.92	231	<0.5
ZZ44875		0.038	0.23	1.94	50	0.56	4.84	77	<0.5
ZZ44876		0.070	0.23	1.81	43	1.75	6.95	99	0.9
ZZ44877		0.201	0.54	0.93	58	0.60	2.88	199	1.1
ZZ44878		0.146	0.32	1.08	87	0.49	4.55	203	1.8
ZZ44879		0.072	0.23	1.30	70	0.50	2.92	73	0.8
ZZ44880		0.034	0.22	1.51	45	0.42	9.33	85	0.7
ZZ44881		0.055	0.19	1.19	42	0.38	6.05	88	<0.5
ZZ44882		0.062	0.30	2.71	57	0.74	12.20	117	1.5
ZZ44883		0.041	0.29	2.25	53	0.63	7.76	95	1.1
ZZ44884		0.054	0.12	1.11	27	0.35	6.26	38	<0.5
ZZ44885		0.054	0.24	0.92	64	0.44	4.41	99	<0.5
ZZ44886		0.019	0.11	0.81	35	0.32	2.96	56	<0.5
ZZ44887		0.056	0.25	1.42	52	0.44	4.52	248	<0.5
ZZ44888		0.169	0.29	1.04	80	1.84	4.00	118	1.0
ZZ44889		0.112	0.30	0.86	49	0.26	8.87	71	4.6
ZZ44890		0.104	0.37	0.92	44	0.29	19.75	86	7.0
ZZ44891		0.108	0.35	0.68	43	0.39	16.85	76	9.2
ZZ44892		0.097	0.30	1.39	48	0.42	15.20	143	2.2
ZZ44893		0.068	0.15	0.38	33	0.23	2.54	89	0.5

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VANCOUVER BC V6B 1L8

Finalized Date: 16-JUL-2013
Account: RANSIL

Project: KEG (Ku)

CERTIFICATE OF ANALYSIS WH13121811

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ44894		0.30	0.010	5.42	4.07	17.7	<0.2	<10	260	2.02	0.32	0.64	1.14	70.7	11.5	32
ZZ44895		0.33	0.004	0.30	2.67	13.9	<0.2	<10	320	1.54	0.32	0.54	0.80	38.7	12.8	33
ZZ44896		0.26	0.001	0.65	1.81	24.3	<0.2	<10	190	1.23	0.29	0.52	2.03	30.6	6.1	17
ZZ44897		0.30	0.001	0.12	1.68	12.9	<0.2	<10	220	0.64	0.25	0.25	0.26	39.5	6.2	20
ZZ44898		0.34	0.001	0.27	1.31	13.3	<0.2	<10	160	0.51	0.18	0.28	0.69	31.2	4.9	12
ZZ44899		0.32	0.002	0.58	1.87	13.9	<0.2	<10	170	0.79	0.20	0.22	0.57	35.9	7.9	18
ZZ44900		0.29	0.001	0.11	1.87	21.1	<0.2	<10	290	0.59	0.18	0.26	1.59	29.2	7.2	18
ZZ44901		0.33	0.001	0.38	2.46	15.9	<0.2	<10	170	1.08	0.26	0.21	1.65	34.5	9.8	29
ZZ44902		0.26	0.001	0.14	2.25	11.4	<0.2	<10	110	0.82	0.24	0.15	0.58	34.8	6.7	19
ZZ44903		0.41	0.001	0.18	1.95	23.9	<0.2	<10	230	0.78	0.31	0.46	0.91	40.1	10.4	31
ZZ44904		0.38	0.002	0.19	2.24	14.7	<0.2	<10	220	1.00	0.31	0.43	1.16	39.3	13.3	27
ZZ44905		0.34	<0.001	0.21	2.24	7.3	<0.2	<10	130	1.14	0.20	0.47	0.30	30.7	7.6	27
ZZ44906		0.19	<0.001	0.20	1.72	16.1	<0.2	<10	160	0.61	0.99	0.43	0.32	31.6	5.9	29
ZZ44907		0.36	0.002	0.43	2.06	20.8	<0.2	<10	190	2.08	2.70	0.94	0.51	37.6	10.3	29
ZZ44908		0.20	0.005	0.23	3.30	13.1	<0.2	<10	180	2.24	0.53	1.21	0.43	36.1	25.7	44
ZZ44909		0.29	0.002	0.23	2.34	17.0	<0.2	<10	230	0.83	0.60	0.25	0.19	35.0	6.2	31
ZZ44910		0.37	0.002	0.29	2.70	16.6	<0.2	<10	240	1.47	0.56	0.45	0.34	56.9	11.0	34
ZZ44911		0.36	0.001	0.11	2.21	11.2	<0.2	<10	210	0.97	0.41	0.24	0.16	39.1	9.1	25
ZZ44912		0.20	0.002	0.18	2.42	14.1	<0.2	<10	190	1.23	0.33	0.21	0.23	33.9	7.3	28
ZZ44913		0.25	0.001	0.36	2.42	18.2	<0.2	<10	240	1.46	0.35	0.55	0.25	50.1	12.7	28
ZZ44914		0.35	0.001	0.19	1.77	9.9	<0.2	<10	120	0.90	0.21	0.18	0.14	29.9	6.7	18
ZZ44915		0.22	0.001	0.15	1.27	5.2	<0.2	<10	60	0.71	0.08	0.32	0.15	11.95	5.0	12
ZZ44916		0.27	0.001	0.15	2.84	10.9	<0.2	<10	180	1.28	0.25	0.41	0.19	39.0	9.6	32
ZZ44917		0.25	0.001	0.10	1.62	7.0	<0.2	<10	150	0.77	0.14	0.24	0.13	29.0	4.9	15
ZZ44918		0.26	0.001	0.13	1.59	10.2	<0.2	<10	130	0.66	0.17	0.28	0.14	23.9	4.7	16
ZZ44919		0.46	0.002	0.10	2.20	12.3	<0.2	<10	170	0.92	0.23	0.24	0.19	37.6	6.8	26
ZZ44920		0.26	0.001	0.15	2.08	10.1	<0.2	<10	140	1.08	0.24	0.26	0.15	32.3	6.7	28
ZZ44921		0.22	0.002	0.10	1.12	11.8	<0.2	<10	150	0.44	0.31	0.17	0.32	26.6	12.1	17
ZZ44922		0.26	<0.001	0.13	0.44	1.1	<0.2	<10	20	0.26	0.03	0.12	0.02	6.10	2.2	3
ZZ44923		0.21	0.001	0.34	1.89	12.2	<0.2	<10	180	0.96	0.30	0.46	0.22	35.2	8.2	19
ZZ44924		0.29	0.002	0.14	2.40	11.1	<0.2	<10	250	0.90	0.46	0.25	0.38	43.1	7.8	23
ZZ44925		0.19	0.003	0.52	2.73	12.2	<0.2	<10	190	1.90	0.34	0.17	0.27	32.8	7.9	26
ZZ44926		0.31	0.002	0.19	2.11	14.6	<0.2	<10	150	0.90	0.55	0.15	0.28	34.2	8.0	24
ZZ44927		0.20	0.001	0.12	2.35	15.2	<0.2	<10	190	1.02	0.80	0.33	0.32	41.8	8.3	28
ZZ44928		0.51	0.002	0.61	2.32	13.8	<0.2	<10	190	1.51	0.76	0.73	0.29	47.7	7.3	29
ZZ44929		0.25	0.001	0.41	2.17	14.9	<0.2	<10	200	1.09	0.58	0.30	0.31	37.6	7.1	23
ZZ44930		0.46	0.001	0.19	1.94	10.4	<0.2	<10	170	0.81	0.36	0.20	0.38	38.5	6.2	19
ZZ44931		0.47	0.001	0.16	1.92	12.1	<0.2	<10	210	0.81	0.31	0.24	0.22	43.1	7.2	18
ZZ44932		0.32	0.001	0.16	1.25	6.9	<0.2	<10	170	0.57	0.17	0.22	0.16	34.9	4.3	10
ZZ44933		0.29	0.002	0.70	2.21	22.4	<0.2	<10	240	1.39	0.42	0.52	0.29	38.3	7.7	17

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	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ44894		4.06	19.6	2.52	9.66	0.10	0.06	0.09	0.036	0.14	31.7	34.3	0.82	419	0.59	0.06
ZZ44895		6.92	20.5	2.87	8.79	0.07	0.04	0.05	0.019	0.25	21.0	38.3	1.04	489	0.59	0.02
ZZ44896		6.45	44.5	1.68	5.39	0.06	0.02	0.08	0.015	0.08	18.0	25.0	0.40	126	0.60	0.02
ZZ44897		2.65	13.5	2.24	6.77	<0.05	<0.02	0.04	0.023	0.07	20.2	19.8	0.42	282	1.18	0.01
ZZ44898		1.66	10.6	1.44	4.70	<0.05	<0.02	0.04	0.015	0.06	15.6	13.5	0.29	193	0.62	0.01
ZZ44899		2.56	11.1	1.98	5.48	<0.05	0.04	0.05	0.022	0.10	18.2	20.1	0.40	212	1.17	0.01
ZZ44900		6.00	11.4	2.00	7.27	0.05	0.04	0.03	0.018	0.10	14.4	22.2	0.48	183	0.93	0.02
ZZ44901		4.85	15.4	2.73	7.24	0.05	0.03	0.05	0.027	0.15	17.3	31.3	0.77	331	1.70	0.01
ZZ44902		2.44	9.4	1.79	5.87	0.05	0.07	0.03	0.016	0.06	16.5	20.0	0.39	230	0.60	0.01
ZZ44903		4.90	18.9	2.44	7.29	0.06	0.03	0.03	0.019	0.15	19.6	30.3	0.76	281	0.90	0.01
ZZ44904		5.72	17.3	2.54	7.19	0.07	0.03	0.04	0.020	0.23	18.1	33.4	0.81	409	0.82	0.01
ZZ44905		4.63	16.4	2.09	6.33	0.06	0.02	0.02	0.020	0.28	13.8	21.4	0.88	441	0.35	0.05
ZZ44906		5.45	16.1	2.64	7.98	0.05	<0.02	0.03	0.038	0.10	15.2	32.1	0.84	379	1.91	0.01
ZZ44907		13.90	33.5	3.68	7.62	0.08	0.05	0.02	0.045	0.09	18.3	22.5	0.84	1620	2.46	0.01
ZZ44908		9.67	45.8	3.16	7.99	0.06	0.04	0.03	0.021	0.12	16.5	44.7	1.30	606	1.46	0.03
ZZ44909		4.40	16.8	2.74	7.62	0.06	<0.02	0.04	0.026	0.08	17.2	30.7	0.65	225	1.43	0.01
ZZ44910		6.17	26.6	2.76	7.46	0.09	0.04	0.03	0.029	0.14	29.1	36.3	1.07	402	1.03	0.02
ZZ44911		5.03	13.7	2.24	6.70	0.06	0.03	0.04	0.020	0.12	19.9	29.5	0.71	256	0.84	0.01
ZZ44912		5.40	15.6	2.49	7.90	<0.05	<0.02	0.05	0.024	0.11	16.9	18.6	0.48	265	1.29	0.01
ZZ44913		6.71	21.3	2.43	7.29	0.06	0.02	0.04	0.025	0.16	22.6	28.4	0.80	424	0.57	0.03
ZZ44914		4.56	19.7	2.01	6.29	<0.05	<0.02	0.03	0.019	0.06	15.9	15.6	0.44	261	0.76	0.02
ZZ44915		3.24	18.7	1.33	4.05	<0.05	0.02	0.02	0.008	0.05	6.5	9.9	0.25	244	0.29	0.04
ZZ44916		4.59	14.8	2.55	8.81	0.05	0.02	0.04	0.024	0.15	17.6	27.2	0.75	409	0.74	0.03
ZZ44917		2.62	11.4	1.55	5.13	<0.05	<0.02	0.03	0.017	0.06	13.4	13.0	0.31	206	0.56	0.03
ZZ44918		2.64	15.2	1.70	5.97	<0.05	<0.02	0.04	0.014	0.06	11.4	14.5	0.28	142	0.75	0.02
ZZ44919		3.56	11.8	2.20	7.79	0.05	0.02	0.05	0.022	0.12	18.5	26.6	0.60	228	0.77	0.02
ZZ44920		4.18	18.2	2.19	7.71	<0.05	<0.02	0.04	0.019	0.08	17.8	23.1	0.61	285	0.92	0.02
ZZ44921		6.78	12.5	1.83	6.79	<0.05	<0.02	0.03	0.015	0.08	11.2	8.1	0.25	2200	1.47	0.02
ZZ44922		0.56	7.3	0.71	1.77	<0.05	<0.02	0.01	<0.005	0.02	3.3	1.3	0.05	66	0.19	0.04
ZZ44923		6.49	12.5	1.99	6.63	0.05	<0.02	0.05	0.021	0.08	17.4	21.4	0.51	476	0.78	0.02
ZZ44924		4.36	13.0	2.62	7.49	0.06	0.02	0.04	0.032	0.12	18.5	24.0	0.62	345	0.93	0.02
ZZ44925		5.84	17.5	2.60	7.58	0.05	0.02	0.10	0.024	0.11	16.5	21.4	0.48	401	1.23	0.01
ZZ44926		4.44	16.8	2.45	6.98	<0.05	<0.02	0.06	0.024	0.09	16.3	25.7	0.50	238	1.10	0.01
ZZ44927		7.74	15.0	2.68	9.03	<0.05	<0.02	0.03	0.027	0.08	18.8	30.6	0.71	286	1.35	0.01
ZZ44928		4.17	22.1	2.38	7.15	0.06	0.05	0.04	0.037	0.07	24.3	30.9	0.93	283	0.64	0.02
ZZ44929		4.20	15.3	2.44	7.64	<0.05	<0.02	0.06	0.029	0.10	17.6	26.2	0.58	312	1.32	0.02
ZZ44930		3.03	11.8	2.08	6.33	0.05	0.02	0.05	0.021	0.07	17.8	24.8	0.49	204	1.01	0.01
ZZ44931		3.25	16.4	1.90	5.55	0.06	0.04	0.04	0.021	0.08	20.9	23.4	0.47	265	0.72	0.01
ZZ44932		2.44	13.9	1.18	4.12	0.05	0.03	0.04	0.014	0.06	18.0	11.8	0.24	211	0.54	0.03
ZZ44933		10.15	39.8	2.11	6.78	0.10	0.04	0.06	0.026	0.16	32.1	22.8	0.47	422	0.83	0.03

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Finalized Date: 16-JUL-2013
Account: RANSIL

Project: KEG (Ku)

CERTIFICATE OF ANALYSIS WH13121811

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ44894		2.60	23.0	940	82.4	23.4	<0.001	0.04	1.43	5.3	0.9	0.8	91.8	0.02	0.02	5.2
ZZ44895		2.24	25.9	700	85.1	38.1	<0.001	0.02	1.82	4.8	0.6	0.8	59.2	<0.01	0.03	5.4
ZZ44896		0.83	15.0	1000	49.5	18.1	<0.001	0.07	1.78	1.9	1.7	0.5	23.7	<0.01	0.01	0.8
ZZ44897		0.75	14.2	580	30.4	13.9	<0.001	0.03	0.85	1.2	0.7	0.7	19.3	<0.01	0.03	0.4
ZZ44898		1.35	9.9	580	27.6	12.1	<0.001	0.02	0.58	1.9	0.6	0.6	18.5	<0.01	0.01	1.8
ZZ44899		1.77	16.7	400	21.8	15.2	<0.001	0.02	1.07	2.9	0.5	0.7	17.6	0.01	0.02	3.4
ZZ44900		1.88	13.2	390	17.7	19.0	<0.001	0.02	0.78	2.6	0.4	0.7	67.7	<0.01	0.03	3.6
ZZ44901		1.72	20.8	710	41.6	27.5	<0.001	0.04	1.63	2.8	0.8	0.6	24.3	<0.01	0.02	1.9
ZZ44902		2.32	12.4	490	35.7	10.9	<0.001	0.02	1.20	3.0	0.5	0.6	17.4	0.03	0.01	4.7
ZZ44903		2.59	24.1	870	36.6	43.3	<0.001	0.02	1.77	3.3	0.8	0.8	34.5	<0.01	0.02	3.2
ZZ44904		2.40	23.7	910	46.1	45.1	<0.001	0.04	1.83	3.3	0.4	0.7	31.8	<0.01	0.02	2.9
ZZ44905		1.62	17.5	490	26.1	23.6	<0.001	0.02	0.83	3.1	0.4	0.5	40.8	<0.01	0.01	2.6
ZZ44906		1.70	18.2	800	44.7	20.3	<0.001	0.04	2.97	2.1	0.5	1.7	23.7	<0.01	0.02	1.1
ZZ44907		1.44	24.4	1410	69.9	29.0	<0.001	0.05	4.70	3.1	0.5	4.2	36.0	<0.01	0.06	2.7
ZZ44908		1.63	32.9	1630	34.9	13.9	<0.001	0.11	1.39	2.0	0.8	0.6	394	<0.01	0.03	2.5
ZZ44909		1.89	18.9	730	34.0	12.4	<0.001	0.05	2.41	2.0	0.6	1.1	25.9	<0.01	0.02	1.0
ZZ44910		2.36	28.6	770	43.8	20.1	<0.001	0.02	2.29	4.7	0.9	1.3	43.5	<0.01	0.02	7.3
ZZ44911		2.03	18.8	640	20.0	16.8	<0.001	0.03	1.19	3.1	0.6	0.9	24.0	<0.01	0.02	4.0
ZZ44912		1.56	15.7	810	19.1	17.0	<0.001	0.04	1.00	2.3	0.8	0.9	19.7	<0.01	0.03	1.2
ZZ44913		1.90	23.5	740	30.4	21.6	<0.001	0.02	0.95	3.8	0.5	0.9	66.2	<0.01	0.03	4.6
ZZ44914		0.69	11.6	890	12.1	11.0	0.001	0.06	0.74	1.2	0.3	0.6	16.0	<0.01	0.02	0.4
ZZ44915		0.69	6.6	600	4.0	6.1	0.001	0.07	0.23	1.0	0.4	0.2	21.6	<0.01	0.01	0.5
ZZ44916		2.05	18.7	650	16.3	21.9	<0.001	0.06	0.69	3.2	<0.2	0.8	33.9	0.01	0.02	2.3
ZZ44917		0.82	9.8	660	8.0	8.4	<0.001	0.04	0.54	1.2	<0.2	0.5	22.2	0.01	0.01	0.4
ZZ44918		0.96	9.6	700	8.8	8.1	<0.001	0.06	0.66	1.0	0.2	0.6	20.9	0.01	0.02	0.3
ZZ44919		1.76	16.4	650	13.1	15.2	<0.001	0.04	0.70	2.5	0.3	0.8	17.8	0.01	0.02	1.7
ZZ44920		1.30	15.5	760	11.1	11.9	<0.001	0.06	0.73	1.8	0.4	0.7	20.1	<0.01	0.02	0.8
ZZ44921		1.06	9.6	730	13.2	19.4	<0.001	0.06	0.76	1.1	<0.2	0.8	17.9	<0.01	0.04	0.5
ZZ44922		0.34	1.7	460	2.0	1.6	<0.001	0.02	0.08	0.4	0.3	<0.2	10.0	<0.01	<0.01	0.3
ZZ44923		1.28	12.9	890	18.3	12.3	<0.001	0.06	0.72	1.6	0.5	0.8	26.7	<0.01	0.02	1.0
ZZ44924		1.90	16.4	790	16.0	18.1	<0.001	0.04	0.70	3.0	0.4	1.0	21.6	0.01	0.01	1.8
ZZ44925		1.58	16.5	1530	22.6	15.1	<0.001	0.12	0.88	1.4	0.6	0.8	20.2	<0.01	0.03	0.5
ZZ44926		1.37	17.3	650	33.5	15.2	<0.001	0.05	2.47	1.9	0.3	1.1	19.2	<0.01	0.03	0.9
ZZ44927		2.15	18.5	480	72.3	14.3	<0.001	0.03	2.56	3.0	0.4	1.8	25.9	<0.01	0.04	2.8
ZZ44928		1.34	22.5	1380	64.2	12.5	<0.001	0.03	4.25	4.2	0.4	2.4	35.9	<0.01	0.01	5.2
ZZ44929		1.76	15.5	670	33.3	18.6	<0.001	0.04	1.64	2.3	0.5	1.3	24.4	<0.01	0.02	1.4
ZZ44930		1.90	14.0	510	30.3	12.5	<0.001	0.03	0.97	2.6	0.5	0.9	18.8	<0.01	0.02	3.0
ZZ44931		2.23	14.3	650	18.5	14.6	<0.001	0.02	1.12	3.3	0.8	0.9	23.1	<0.01	0.02	5.7
ZZ44932		1.20	8.1	490	8.3	8.2	<0.001	0.05	0.65	1.8	0.5	0.5	18.4	<0.01	0.02	1.7
ZZ44933		1.74	13.7	690	13.5	29.0	<0.001	0.06	1.10	4.1	1.5	1.0	26.3	<0.01	0.01	3.5

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 16-JUL-2013
Account: RANSIL

Project: KEG (Ku)

CERTIFICATE OF ANALYSIS WH13121811

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ44894		0.089	0.24	1.03	38	0.32	16.10	95	1.6
ZZ44895		0.092	0.41	0.65	48	0.38	10.40	120	1.4
ZZ44896		0.037	0.26	1.29	38	0.27	11.80	118	0.6
ZZ44897		0.037	0.21	0.88	41	0.31	6.18	65	<0.5
ZZ44898		0.047	0.11	0.58	27	0.27	5.53	60	<0.5
ZZ44899		0.048	0.21	0.66	38	0.32	4.89	70	1.0
ZZ44900		0.058	0.13	0.47	35	0.31	3.72	49	1.1
ZZ44901		0.072	0.20	0.81	45	0.33	4.68	87	1.1
ZZ44902		0.072	0.12	0.63	31	0.32	4.76	46	1.9
ZZ44903		0.088	0.28	0.61	47	0.42	6.16	108	0.8
ZZ44904		0.101	0.30	0.63	49	0.49	6.71	102	0.9
ZZ44905		0.072	0.17	0.48	34	0.05	6.26	50	0.7
ZZ44906		0.063	0.19	0.98	62	0.64	4.16	94	0.5
ZZ44907		0.041	0.21	1.37	97	1.76	9.86	198	1.3
ZZ44908		0.029	0.16	1.23	50	0.14	9.99	106	1.0
ZZ44909		0.040	0.26	0.93	61	0.37	4.77	69	<0.5
ZZ44910		0.097	0.27	1.42	54	0.31	14.20	81	1.4
ZZ44911		0.070	0.20	0.82	39	0.32	7.38	54	0.8
ZZ44912		0.053	0.24	0.96	50	0.35	4.96	58	<0.5
ZZ44913		0.079	0.22	0.97	40	0.30	8.85	77	0.7
ZZ44914		0.048	0.18	0.81	43	0.39	5.33	45	<0.5
ZZ44915		0.053	0.07	0.85	33	0.10	4.77	36	0.6
ZZ44916		0.076	0.26	0.95	44	0.27	6.34	52	0.8
ZZ44917		0.040	0.13	0.64	31	0.45	5.06	35	<0.5
ZZ44918		0.041	0.16	0.59	38	0.29	3.06	36	<0.5
ZZ44919		0.063	0.21	0.80	42	0.40	5.47	65	0.5
ZZ44920		0.050	0.22	0.81	44	0.36	5.06	52	<0.5
ZZ44921		0.059	0.30	0.58	43	0.59	2.48	47	<0.5
ZZ44922		0.036	0.04	0.28	23	0.05	1.61	9	<0.5
ZZ44923		0.052	0.18	0.80	36	0.88	6.77	45	<0.5
ZZ44924		0.070	0.23	0.79	46	0.32	7.43	60	0.5
ZZ44925		0.037	0.24	1.60	46	0.30	5.61	59	<0.5
ZZ44926		0.044	0.21	0.67	46	0.40	4.58	58	<0.5
ZZ44927		0.051	0.31	0.76	59	0.64	5.01	74	<0.5
ZZ44928		0.030	0.27	1.52	52	0.53	12.00	122	1.1
ZZ44929		0.061	0.21	0.78	53	0.74	5.35	66	<0.5
ZZ44930		0.060	0.17	0.76	40	0.56	6.13	55	0.5
ZZ44931		0.071	0.20	0.85	35	0.39	8.08	49	1.2
ZZ44932		0.042	0.14	0.89	22	0.29	9.30	30	0.8
ZZ44933		0.065	0.31	1.91	37	0.47	26.3	66	1.4

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CERTIFICATE OF ANALYSIS WH13121811

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ44934		0.26	0.002	0.23	1.96	12.4	<0.2	<10	150	0.74	0.35	0.15	0.61	27.7	8.4	27
ZZ44935		0.36	0.002	0.13	1.61	7.6	<0.2	<10	220	0.59	0.20	0.24	0.18	38.1	5.1	13
ZZ44936		0.35	0.002	0.08	1.80	10.9	<0.2	<10	180	0.56	0.24	0.35	0.22	28.5	4.6	14
ZZ44937		0.42	<0.001	0.04	0.54	2.6	<0.2	<10	40	0.19	0.05	0.22	0.07	11.45	2.2	5
ZZ44938		0.37	0.002	0.09	1.38	8.3	<0.2	<10	230	0.61	0.19	0.34	0.18	53.9	6.5	15
ZZ44939		0.29	0.002	0.14	1.10	6.8	<0.2	<10	280	0.50	0.15	0.43	0.23	52.8	8.3	14
ZZ44940		0.41	0.004	0.08	1.35	5.6	<0.2	<10	370	0.41	0.21	0.33	0.10	26.9	3.8	14
ZZ44941		0.40	0.001	0.10	1.31	8.1	<0.2	<10	320	0.43	0.26	0.64	0.24	28.7	3.9	14
ZZ44942		0.43	0.002	0.17	2.76	11.2	<0.2	<10	360	1.18	0.27	0.40	0.30	56.5	11.1	27
ZZ44943		0.29	0.003	0.78	1.95	93.0	<0.2	<10	220	1.14	0.50	0.79	2.25	38.5	12.8	32
ZZ44944		0.39	0.001	0.11	1.33	18.9	<0.2	<10	110	0.33	0.37	0.18	0.72	24.4	7.3	25
ZZ44945		0.47	0.001	0.45	0.81	31.9	<0.2	<10	60	0.68	0.13	0.37	0.21	14.70	3.0	9
ZZ44946		0.34	0.001	0.22	1.58	39.7	<0.2	<10	150	0.58	0.33	0.47	2.61	29.9	8.9	46
ZZ44947		0.40	0.001	0.41	1.81	22.5	<0.2	<10	210	0.92	0.24	0.39	0.46	30.8	12.1	35
ZZ44948		0.33	0.002	0.37	2.18	20.2	<0.2	<10	370	1.12	0.24	0.38	0.50	44.8	6.6	26
ZZ44949		0.31	0.002	0.33	1.64	16.2	<0.2	<10	210	0.56	0.25	0.36	0.48	32.3	5.2	21
ZZ44950		0.30	0.001	0.17	0.86	3.9	<0.2	<10	70	0.35	0.09	0.15	0.24	13.90	3.8	9
ZZ44951		0.26	0.001	0.16	2.04	22.8	<0.2	<10	210	0.77	0.28	0.55	1.70	44.4	11.0	27
ZZ44952		0.36	0.001	0.26	2.00	8.8	<0.2	<10	180	0.93	0.23	0.45	0.34	33.2	8.0	23
ZZ44953		0.33	0.002	0.41	3.95	13.9	<0.2	<10	240	1.76	0.45	0.40	0.76	55.2	15.6	45
ZZ44954		0.45	0.004	0.23	1.77	13.3	<0.2	<10	240	0.80	0.38	0.37	0.32	47.1	8.7	24
ZZ44955		0.35	0.002	0.87	4.18	14.6	<0.2	<10	380	2.26	0.34	0.46	1.52	84.9	17.3	61
ZZ44956		0.29	0.002	0.08	2.66	15.4	<0.2	<10	130	0.82	0.46	0.15	0.38	34.4	7.9	37
ZZ44974		0.17	<0.001	0.08	0.77	3.0	<0.2	<10	50	0.27	0.11	0.12	0.09	12.50	2.4	7
ZZ44975		0.47	0.005	0.23	1.69	10.7	<0.2	<10	140	0.83	0.33	0.28	0.18	49.2	6.7	17
ZZ44976		0.43	0.134	0.11	1.84	10.5	<0.2	<10	140	0.92	0.25	0.25	0.18	43.6	7.3	18
ZZ44977		0.21	<0.001	0.08	0.27	0.6	<0.2	<10	10	0.11	0.03	0.20	0.01	9.14	3.6	5
ZZ44978		0.19	0.002	0.18	1.23	9.7	<0.2	<10	130	0.56	0.27	0.42	0.11	19.30	4.2	21
ZZ44979		0.23	0.001	0.03	0.86	7.0	<0.2	<10	90	0.29	0.24	0.10	0.08	23.7	2.4	15
ZZ44980		0.24	0.002	0.07	1.68	11.7	<0.2	<10	170	0.56	0.18	0.20	0.23	39.0	7.3	15
ZZ44981		0.33	0.001	0.07	1.53	8.0	<0.2	<10	130	0.45	0.25	0.13	0.20	26.0	4.9	17
ZZ44982		0.23	0.002	0.15	1.84	11.1	<0.2	<10	110	0.65	0.53	0.17	0.96	25.1	6.3	27
ZZ44983		0.18	0.001	0.18	2.41	14.4	<0.2	<10	160	0.73	0.53	0.17	0.60	29.0	7.8	41
ZZ44984		0.32	0.001	0.21	2.19	11.5	<0.2	<10	150	0.69	0.42	0.19	0.68	29.4	6.8	29
ZZ44985		0.26	0.001	0.17	0.28	0.4	<0.2	<10	30	0.08	0.02	0.05	0.10	3.03	1.0	2
ZZ44986		0.30	<0.001	0.12	0.48	4.9	<0.2	<10	70	0.15	0.10	0.06	0.36	8.14	2.3	5
ZZ44987		0.27	0.001	0.04	0.73	7.4	<0.2	<10	70	0.17	0.24	0.05	0.20	24.7	1.9	9
ZZ44988		0.31	0.002	0.12	1.72	12.0	<0.2	<10	140	0.56	0.23	0.12	0.41	35.4	4.7	16
ZZ44989		0.26	0.002	0.06	1.30	10.9	<0.2	<10	130	0.38	0.24	0.12	0.30	28.3	3.6	16
ZZ44990		0.34	0.002	0.15	2.06	13.0	<0.2	<10	270	0.77	0.25	0.50	0.63	41.8	6.8	19

***** See Appendix Page for comments regarding this certificate *****

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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 16-JUL-2013
Account: RANSIL

Project: KEG (Ku)

CERTIFICATE OF ANALYSIS WH13121811

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ44934		4.35	14.1	2.28	6.36	<0.05	0.04	0.05	0.021	0.11	13.6	23.0	0.52	285	1.28	0.01
ZZ44935		1.85	11.8	1.59	5.50	0.05	<0.02	0.04	0.022	0.07	17.7	13.4	0.26	228	1.02	0.01
ZZ44936		2.19	11.0	2.26	7.46	0.05	<0.02	0.04	0.027	0.07	14.8	14.8	0.25	231	1.13	0.01
ZZ44937		0.66	10.7	0.59	1.69	<0.05	0.02	0.02	0.006	0.04	5.6	4.9	0.14	64	0.18	0.03
ZZ44938		1.61	10.9	1.79	4.74	0.08	0.02	0.03	0.020	0.08	26.3	20.3	0.42	325	0.64	0.02
ZZ44939		1.25	13.2	1.71	4.18	0.08	0.05	0.03	0.019	0.07	24.7	16.3	0.36	389	0.81	0.02
ZZ44940		2.11	10.7	1.56	5.76	0.05	0.03	0.04	0.023	0.05	13.5	11.4	0.27	179	0.94	0.02
ZZ44941		1.97	10.8	1.59	6.76	<0.05	0.02	0.03	0.019	0.06	15.5	12.4	0.24	220	1.22	0.01
ZZ44942		3.91	19.5	2.53	8.18	0.07	0.04	0.05	0.025	0.19	22.6	31.8	0.79	375	0.75	0.02
ZZ44943		15.65	182.0	2.46	5.77	0.09	0.04	0.09	0.024	0.13	25.5	30.4	0.73	435	0.75	0.02
ZZ44944		8.46	12.0	2.06	7.37	0.05	0.02	0.02	0.015	0.13	12.7	22.3	0.55	459	1.77	0.01
ZZ44945		2.86	26.9	1.00	2.50	<0.05	0.03	0.04	0.008	0.03	11.4	7.1	0.18	104	0.46	0.02
ZZ44946		6.35	33.9	2.45	5.97	0.05	<0.02	0.03	0.020	0.11	14.7	28.1	0.73	312	1.04	0.01
ZZ44947		7.77	17.7	2.41	6.42	0.05	<0.02	0.05	0.023	0.13	15.7	25.9	0.55	684	1.45	0.01
ZZ44948		6.81	22.7	2.21	6.34	0.07	0.02	0.06	0.024	0.09	23.5	26.4	0.54	362	0.91	0.01
ZZ44949		4.99	16.2	1.61	5.49	0.06	0.02	0.03	0.015	0.07	17.1	23.0	0.48	193	0.59	0.02
ZZ44950		2.09	7.9	0.97	3.31	<0.05	<0.02	0.02	0.009	0.07	7.1	8.5	0.22	150	0.41	0.03
ZZ44951		5.66	20.1	2.41	6.61	0.09	0.02	0.04	0.023	0.20	20.0	35.8	0.86	616	0.95	0.02
ZZ44952		3.49	17.1	1.95	6.31	0.08	0.03	0.04	0.019	0.14	17.6	25.8	0.68	302	0.56	0.03
ZZ44953		8.10	26.7	3.31	10.15	0.10	0.08	0.05	0.039	0.35	22.6	42.6	1.33	898	0.86	0.04
ZZ44954		2.64	23.0	2.10	5.08	0.06	0.06	0.21	0.024	0.09	21.2	20.4	0.55	377	0.81	0.01
ZZ44955		6.37	29.2	3.50	10.30	0.13	0.12	0.07	0.050	0.31	40.2	46.8	1.47	2630	0.70	0.04
ZZ44956		3.83	17.3	3.39	11.00	0.05	0.02	0.05	0.033	0.12	16.1	34.7	0.68	346	1.61	0.01
ZZ44974		1.63	8.3	0.85	3.04	<0.05	<0.02	0.03	0.007	0.04	6.0	5.4	0.11	66	0.43	0.02
ZZ44975		4.00	15.6	1.83	5.96	0.08	0.02	0.05	0.026	0.13	24.8	25.8	0.52	245	0.53	0.01
ZZ44976		4.46	13.8	2.16	6.51	0.07	0.02	0.03	0.023	0.09	21.9	25.0	0.50	343	0.71	0.01
ZZ44977		0.24	6.5	1.48	3.31	<0.05	0.02	0.02	<0.005	0.01	4.5	0.7	0.05	61	0.13	0.02
ZZ44978		4.77	13.0	1.93	6.44	<0.05	<0.02	0.04	0.018	0.04	11.3	9.0	0.28	195	1.16	0.01
ZZ44979		2.28	6.9	1.33	6.17	<0.05	<0.02	0.03	0.010	0.04	12.4	6.3	0.15	94	1.38	0.01
ZZ44980		1.59	13.2	1.96	4.63	0.05	0.04	0.04	0.018	0.07	18.5	17.5	0.37	322	1.08	0.01
ZZ44981		2.87	12.0	1.73	6.44	<0.05	<0.02	0.03	0.015	0.09	13.3	12.1	0.35	335	1.16	0.01
ZZ44982		4.34	12.5	2.20	7.89	0.05	0.03	0.04	0.015	0.15	12.6	27.8	0.65	164	1.03	0.02
ZZ44983		6.15	16.6	3.87	12.60	0.06	0.07	0.05	0.025	0.22	14.8	35.0	0.83	278	1.74	0.01
ZZ44984		4.79	11.3	2.67	9.12	<0.05	0.03	0.05	0.021	0.14	14.6	24.8	0.59	249	1.27	0.01
ZZ44985		0.20	2.1	0.20	0.83	<0.05	0.02	0.02	<0.005	0.02	1.4	0.5	0.02	180	0.28	0.03
ZZ44986		2.34	4.6	0.88	3.11	<0.05	<0.02	0.02	0.005	0.04	4.2	4.4	0.09	119	0.79	0.02
ZZ44987		1.67	4.2	1.20	6.05	<0.05	0.02	0.03	0.011	0.04	13.1	4.4	0.09	108	1.32	0.01
ZZ44988		2.07	9.4	2.10	6.65	0.05	<0.02	0.04	0.021	0.07	18.1	15.7	0.27	222	1.38	0.01
ZZ44989		2.04	9.2	1.99	7.06	<0.05	0.02	0.03	0.012	0.06	14.0	12.7	0.30	167	0.98	0.01
ZZ44990		2.13	15.0	2.19	6.00	0.05	0.04	0.05	0.021	0.12	19.6	21.4	0.44	323	0.72	0.02

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To: **SILVER RANGE RESOURCES LTD.**
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 16-JUL-2013
Account: RANSIL

Project: KEG (Ku)

CERTIFICATE OF ANALYSIS WH13121811

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ44934		1.99	17.6	340	22.0	22.0	<0.001	0.02	1.75	2.9	0.6	0.7	22.3	0.01	0.02	3.9
ZZ44935		0.37	10.3	600	12.8	10.9	<0.001	0.02	0.63	0.7	1.0	0.8	18.1	<0.01	0.02	0.2
ZZ44936		1.15	9.6	460	14.1	14.0	<0.001	0.03	0.90	1.4	1.1	1.0	19.7	<0.01	0.04	0.5
ZZ44937		0.46	3.8	560	2.6	5.0	0.001	0.01	0.19	0.7	0.2	0.2	13.7	<0.01	0.01	0.9
ZZ44938		1.75	12.4	690	15.5	11.5	<0.001	0.01	0.88	3.3	0.8	0.8	21.9	<0.01	0.01	7.1
ZZ44939		1.57	15.1	820	12.1	8.8	<0.001	0.01	0.71	3.2	0.7	0.7	28.2	<0.01	0.02	6.4
ZZ44940		1.52	7.2	860	10.5	8.9	<0.001	0.08	0.59	1.8	0.5	0.9	28.5	0.01	0.01	1.0
ZZ44941		1.33	8.6	700	13.3	12.4	<0.001	0.06	0.63	1.8	0.5	0.9	27.1	<0.01	0.02	1.1
ZZ44942		2.19	22.6	750	16.9	24.5	<0.001	0.04	1.08	4.2	0.8	0.9	30.4	<0.01	0.02	3.9
ZZ44943		1.41	19.5	1050	97.1	23.9	<0.001	0.07	2.29	3.5	1.8	0.6	43.6	<0.01	0.01	1.6
ZZ44944		2.43	14.4	290	17.3	50.0	<0.001	0.02	0.89	2.4	0.5	0.7	18.3	<0.01	0.03	1.7
ZZ44945		0.49	7.5	720	62.1	3.8	<0.001	0.05	1.06	0.9	1.3	0.2	19.0	<0.01	0.01	0.6
ZZ44946		2.08	25.8	750	40.3	32.9	<0.001	0.04	1.17	2.3	0.7	0.6	30.3	<0.01	0.03	1.1
ZZ44947		1.60	23.2	650	40.3	31.3	<0.001	0.02	1.13	2.2	0.7	0.6	25.3	<0.01	0.03	1.0
ZZ44948		0.94	18.7	1260	25.7	17.5	<0.001	0.07	1.05	1.5	1.0	0.6	32.1	<0.01	0.02	0.7
ZZ44949		0.78	15.5	730	18.2	11.4	<0.001	0.04	0.94	1.5	0.9	0.6	24.6	<0.01	0.01	0.7
ZZ44950		0.60	5.9	420	11.4	13.8	<0.001	0.02	0.47	0.7	0.2	0.3	14.2	<0.01	0.01	0.2
ZZ44951		1.70	18.7	850	31.1	37.1	<0.001	0.04	1.96	3.0	0.5	0.6	41.8	<0.01	0.01	2.4
ZZ44952		1.45	17.6	650	28.6	19.3	<0.001	0.04	1.05	3.0	1.0	0.6	34.8	<0.01	0.02	2.6
ZZ44953		2.70	31.2	950	61.9	36.6	<0.001	0.04	1.98	5.8	1.1	0.7	49.6	0.01	0.02	7.1
ZZ44954		1.46	21.0	720	36.5	12.7	<0.001	0.02	2.03	3.5	0.7	0.8	29.8	<0.01	0.02	6.9
ZZ44955		2.30	42.7	820	39.3	36.7	<0.001	0.03	1.79	9.2	1.5	0.9	60.2	0.01	0.02	11.1
ZZ44956		2.39	20.9	680	23.6	18.9	<0.001	0.05	1.08	3.0	0.9	1.0	16.8	0.01	0.03	1.6
ZZ44974		0.53	4.6	360	4.6	5.0	<0.001	0.04	0.26	0.5	0.5	0.3	13.1	<0.01	0.01	0.2
ZZ44975		2.13	13.0	550	13.0	22.7	<0.001	0.02	0.85	3.9	1.0	1.2	18.3	<0.01	0.01	7.1
ZZ44976		1.66	13.8	480	12.3	17.2	<0.001	0.03	0.69	2.9	0.7	0.9	18.7	<0.01	0.02	2.5
ZZ44977		0.32	2.3	760	1.8	0.6	<0.001	0.03	0.10	0.5	0.3	<0.2	15.2	<0.01	0.01	0.4
ZZ44978		0.66	9.9	1300	12.7	11.5	<0.001	0.10	0.56	0.7	0.6	0.5	29.7	<0.01	0.03	0.2
ZZ44979		1.26	7.1	290	10.2	6.6	<0.001	0.03	0.71	0.9	0.3	0.9	8.1	<0.01	0.01	0.6
ZZ44980		1.42	14.2	820	16.4	8.9	<0.001	0.02	1.09	2.4	0.8	0.6	18.9	0.01	0.02	3.0
ZZ44981		0.54	9.4	630	12.8	12.7	<0.001	0.04	0.73	0.5	0.4	0.8	12.5	<0.01	0.02	<0.2
ZZ44982		2.27	15.9	300	45.1	29.2	<0.001	0.02	1.39	2.5	0.4	0.8	22.7	<0.01	0.02	2.6
ZZ44983		3.94	19.7	450	33.2	34.6	<0.001	0.03	1.49	3.7	0.5	1.1	24.4	<0.01	0.03	4.0
ZZ44984		2.72	16.0	420	36.8	18.8	<0.001	0.03	1.32	2.9	0.4	0.9	22.6	0.01	0.02	3.3
ZZ44985		0.23	0.8	270	2.3	1.5	<0.001	0.02	0.07	0.2	<0.2	<0.2	7.5	<0.01	0.01	<0.2
ZZ44986		0.56	3.4	250	7.5	12.3	<0.001	0.02	0.37	0.6	0.3	0.3	7.4	<0.01	<0.01	<0.2
ZZ44987		1.73	5.1	180	10.1	12.4	<0.001	0.01	0.56	1.2	0.4	0.9	7.9	<0.01	0.02	2.8
ZZ44988		1.79	10.2	590	23.1	11.9	<0.001	0.03	0.85	2.0	0.6	0.7	12.1	0.01	0.02	1.9
ZZ44989		1.77	8.6	450	19.7	9.5	<0.001	0.03	0.82	1.5	0.7	0.7	13.6	<0.01	0.01	1.3
ZZ44990		1.99	15.7	710	35.1	14.2	<0.001	0.03	1.02	3.4	0.7	0.7	22.7	<0.01	0.02	4.1

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Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ44934		0.067	0.21	0.55	44	0.37	3.36	64	1.2
ZZ44935		0.024	0.15	0.89	35	0.23	6.31	47	<0.5
ZZ44936		0.037	0.18	1.00	44	0.36	5.11	53	<0.5
ZZ44937		0.029	0.04	0.32	13	0.07	2.40	15	0.6
ZZ44938		0.074	0.13	0.89	32	0.47	11.15	49	0.8
ZZ44939		0.064	0.13	1.21	32	0.24	11.55	54	1.6
ZZ44940		0.042	0.13	0.85	34	0.21	5.35	38	0.9
ZZ44941		0.042	0.17	0.88	40	0.30	5.52	43	0.7
ZZ44942		0.077	0.20	1.43	41	0.37	9.97	69	1.2
ZZ44943		0.052	0.35	2.31	49	0.66	21.7	165	1.1
ZZ44944		0.112	0.20	0.46	54	0.35	2.68	86	1.0
ZZ44945		0.032	0.11	0.77	26	0.15	7.28	22	1.1
ZZ44946		0.075	0.26	0.98	56	0.42	4.55	113	<0.5
ZZ44947		0.067	0.30	0.81	49	0.33	5.36	107	<0.5
ZZ44948		0.032	0.17	1.89	44	0.22	11.05	110	<0.5
ZZ44949		0.041	0.22	0.71	31	0.40	6.28	67	<0.5
ZZ44950		0.037	0.10	0.32	22	0.12	2.18	28	<0.5
ZZ44951		0.077	0.29	0.71	43	0.25	7.32	103	0.6
ZZ44952		0.062	0.18	0.98	34	0.43	9.38	62	1.2
ZZ44953		0.099	0.31	0.94	48	0.38	10.80	108	2.5
ZZ44954		0.056	0.16	0.76	34	0.41	9.25	72	2.0
ZZ44955		0.094	0.32	1.14	48	0.30	17.40	90	3.9
ZZ44956		0.091	0.19	0.84	58	0.44	4.69	97	0.8
ZZ44974		0.035	0.08	0.31	22	0.13	1.82	16	<0.5
ZZ44975		0.082	0.20	1.08	34	0.48	11.10	52	0.8
ZZ44976		0.064	0.16	1.02	37	0.35	8.22	65	0.6
ZZ44977		0.109	0.03	0.42	58	<0.05	2.26	19	0.8
ZZ44978		0.027	0.12	0.87	41	0.53	4.03	33	<0.5
ZZ44979		0.055	0.14	0.44	48	0.37	1.90	27	<0.5
ZZ44980		0.042	0.13	0.94	33	0.35	6.71	56	1.0
ZZ44981		0.027	0.15	0.75	37	0.22	3.67	46	<0.5
ZZ44982		0.088	0.15	0.42	43	0.71	2.85	67	1.0
ZZ44983		0.146	0.19	0.64	66	0.59	3.56	151	2.3
ZZ44984		0.091	0.16	0.51	56	0.35	3.16	73	1.0
ZZ44985		0.012	0.04	0.17	5	<0.05	0.55	2	0.5
ZZ44986		0.040	0.13	0.23	28	0.16	1.01	21	<0.5
ZZ44987		0.052	0.11	0.40	43	0.25	1.75	27	0.7
ZZ44988		0.056	0.14	0.71	45	0.30	4.72	62	<0.5
ZZ44989		0.071	0.12	0.53	43	0.30	3.56	44	0.6
ZZ44990		0.062	0.17	0.75	39	0.28	7.67	84	1.0

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 16-JUL-2013
Account: RANSIL

Project: KEG (Ku)

CERTIFICATE OF ANALYSIS WH13121811

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ44991		0.35	0.004	0.29	2.17	10.8	<0.2	<10	200	0.84	0.37	0.18	0.88	38.9	7.2	18
ZZ44992		0.34	0.001	0.59	1.85	11.4	<0.2	<10	270	0.93	0.25	0.68	0.43	21.1	6.0	22
ZZ44993		0.28	0.001	3.38	2.26	37.4	<0.2	<10	220	2.48	4.15	0.73	3.32	42.7	11.7	20
ZZ44994		0.23	<0.001	0.47	1.62	12.2	<0.2	<10	270	0.56	0.25	0.61	0.87	19.55	3.4	24
ZZ44995		0.23	0.001	0.35	1.49	21.7	<0.2	<10	190	0.85	0.24	0.45	0.86	15.55	5.9	19
ZZ44996		0.28	0.002	1.68	3.71	81.2	<0.2	<10	650	1.33	0.90	0.19	0.71	48.0	21.7	24
ZZ44997		0.24	0.001	1.22	1.03	22.1	<0.2	<10	160	0.59	0.44	0.21	0.48	15.65	4.5	9
ZZ44998		0.34	0.002	0.17	2.64	55.3	<0.2	<10	180	1.66	0.35	0.40	0.97	30.9	12.0	40
ZZ44999		0.24	0.001	0.14	1.12	7.7	<0.2	<10	100	0.28	0.28	0.07	1.30	23.3	4.5	19
ZZ45000		0.21	0.001	0.14	1.19	5.6	<0.2	<10	90	0.38	0.25	0.17	1.36	16.55	6.9	15

***** See Appendix Page for comments regarding this certificate *****

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 16-JUL-2013
Account: RANSIL

Project: KEG (Ku)

CERTIFICATE OF ANALYSIS WH13121811

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ44991		3.22	9.7	1.96	5.59	<0.05	0.03	0.06	0.015	0.09	17.6	19.8	0.43	325	0.85	0.02
ZZ44992		6.22	9.8	2.02	6.97	<0.05	<0.02	0.07	0.021	0.06	15.1	13.7	0.34	1330	1.06	0.01
ZZ44993		6.50	21.8	2.30	6.74	0.05	0.02	0.08	0.024	0.08	24.7	21.6	0.46	710	0.81	0.02
ZZ44994		5.24	17.7	1.45	6.24	<0.05	<0.02	0.04	0.014	0.06	11.7	13.9	0.35	182	0.78	0.02
ZZ44995		5.19	18.9	2.09	6.17	<0.05	<0.02	0.03	0.019	0.06	8.5	12.2	0.31	500	1.19	0.02
ZZ44996		3.61	36.5	3.36	8.81	<0.05	0.02	0.14	0.040	0.10	21.0	23.6	0.38	2840	2.62	0.02
ZZ44997		1.67	21.5	1.21	3.43	<0.05	<0.02	0.05	0.012	0.05	8.0	6.2	0.14	537	0.86	0.03
ZZ44998		8.51	17.9	3.23	7.52	0.05	0.02	0.04	0.022	0.11	13.9	38.8	0.81	743	1.25	0.02
ZZ44999		2.94	6.6	2.36	6.82	<0.05	0.06	0.02	0.014	0.08	12.4	10.5	0.25	213	1.68	0.01
ZZ45000		3.16	7.3	1.35	4.78	<0.05	<0.02	0.03	0.011	0.13	6.4	12.6	0.39	334	0.70	0.02

***** See Appendix Page for comments regarding this certificate *****

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 16-JUL-2013
Account: RANSIL

Project: KEG (Ku)

CERTIFICATE OF ANALYSIS WH13121811

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ44991		1.65	14.5	570	62.0	13.8	<0.001	0.04	1.05	2.6	0.7	0.6	25.7	0.01	0.02	2.8
ZZ44992		0.35	10.1	1460	44.0	15.5	<0.001	0.08	1.42	0.4	1.1	0.7	18.9	<0.01	0.02	<0.2
ZZ44993		1.26	16.0	820	416	12.8	<0.001	0.06	1.79	2.8	1.6	0.8	27.4	<0.01	0.03	1.3
ZZ44994		0.45	9.8	2120	11.8	12.5	<0.001	0.14	0.96	0.2	0.4	0.6	33.5	<0.01	0.01	<0.2
ZZ44995		0.29	10.0	1530	24.8	17.5	<0.001	0.11	0.87	0.3	0.4	0.5	22.3	<0.01	0.01	<0.2
ZZ44996		0.61	19.8	1610	59.1	14.3	<0.001	0.11	2.02	1.2	1.6	0.9	20.7	<0.01	0.03	0.4
ZZ44997		0.29	6.7	720	20.7	8.0	<0.001	0.04	0.76	0.6	0.7	0.3	15.5	<0.01	0.01	<0.2
ZZ44998		1.90	24.8	680	89.4	28.1	<0.001	0.04	2.32	2.9	0.7	0.6	66.3	0.01	0.03	1.6
ZZ44999		2.42	9.4	210	27.6	26.8	<0.001	0.02	0.79	1.5	0.3	0.8	11.2	<0.01	0.03	2.7
ZZ45000		1.18	9.4	360	22.8	32.7	<0.001	0.03	0.61	1.4	0.4	0.4	14.7	<0.01	0.02	1.0

***** See Appendix Page for comments regarding this certificate *****

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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 16- JUL- 2013
Account: RANSIL

Project: KEG (Ku)

CERTIFICATE OF ANALYSIS WH13121811

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ44991		0.053	0.15	0.67	34	0.33	5.14	77	0.8
ZZ44992		0.016	0.16	0.88	44	0.35	5.66	75	<0.5
ZZ44993		0.043	0.18	1.15	46	0.51	11.45	348	<0.5
ZZ44994		0.009	0.20	0.84	37	0.12	3.95	64	<0.5
ZZ44995		0.016	0.17	1.00	52	0.15	3.70	75	<0.5
ZZ44996		0.018	0.36	1.91	68	0.30	9.04	143	<0.5
ZZ44997		0.023	0.12	0.74	29	0.15	6.22	44	<0.5
ZZ44998		0.080	0.30	0.65	51	0.45	4.77	121	0.6
ZZ44999		0.088	0.13	0.38	54	0.35	1.78	79	2.3
ZZ45000		0.053	0.11	0.30	28	0.17	2.04	70	<0.5

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Finalized Date: 16-JUL-2013
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Project: KEG (Ku)

CERTIFICATE OF ANALYSIS WH13121811

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
ME-MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
LOG-22 SCR-41 WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-ICP21 ME-MS41

ALS Canada Ltd.
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To: **SILVER RANGE RESOURCES LTD.**
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 23-JUL-2013
Account: RANSIL

CERTIFICATE WH13121814

Project: KEG - VENT

P.O. No.: Batch 13-V01

This report is for 32 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 5-JUL-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70%<2mm
CRU-QC	Crushing QC Test
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test
PUL-31	Pulverize split to 85%<75 um
LOG-22d	Sample login - Rcd w/o BarCode dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate
LOG-23	Pulp Login - Rcvd with Barcode

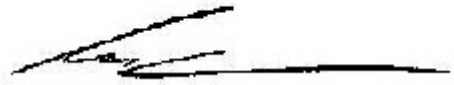
ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	VARIABLE
Sn-XRF05	Sn-Trace Level XRF Analysis	XRF

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature: 

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
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Finalized Date: 23-JUL-2013
Account: RANSIL

Project: KEG - VENT

CERTIFICATE OF ANALYSIS WH13121814

Sample Description	Method	WEI-21	Au-AA24	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
K285801		5.72	<0.005	0.46	7.33	41.3	910	2.07	0.21	1.44	5.50	69.0	12.0	73	12.10	36.2
K285802		3.08	<0.005	13.50	5.22	227	790	1.59	0.79	0.42	37.1	49.4	6.6	57	11.20	74.1
K285803		3.01	<0.005	8.39	1.17	2640	660	0.40	0.96	0.14	17.75	36.0	2.0	44	1.74	61.7
K285804		2.34	<0.005	11.45	1.18	448	490	0.52	3.81	0.16	43.0	18.15	3.3	46	1.33	52.1
K285805		2.87	<0.005	2.20	0.92	223	770	0.40	2.92	0.19	7.01	18.45	4.2	54	0.91	11.0
K285806		7.40	<0.005	1.19	2.00	97.8	370	0.72	2.36	0.18	316	31.8	10.1	57	2.08	38.9
K285807		1.69	<0.005	0.75	5.71	24.0	700	1.77	1.20	0.40	7.70	72.5	13.1	71	6.38	33.8
K285808		0.85	<0.005	0.82	6.09	18.0	530	1.98	1.28	0.40	6.43	54.4	16.6	78	6.72	45.7
K285809		3.52	<0.005	32.8	0.76	140.0	260	0.34	22.8	0.11	32.5	24.4	4.0	38	2.60	83.2
K285810		2.76	<0.005	0.02	0.07	<5	40	0.09	0.05	21.6	0.24	1.37	0.7	1	0.15	2.1
K285811		4.02	<0.005	1.04	0.46	47.9	240	0.19	0.16	0.17	18.70	11.35	3.8	40	0.73	19.5
K285812		3.83	<0.005	1.44	0.67	50.2	410	0.24	0.27	0.03	2.81	11.35	2.0	46	1.01	14.5
K285813		1.51	<0.005	3.17	1.84	225	1290	0.79	0.67	0.05	9.48	34.5	4.4	42	2.65	51.0
K285814		0.26	0.016	25.3	3.97	1160	170	1.11	99.6	8.20	318	42.0	14.4	53	4.39	1860
K285815		3.02	<0.005	0.64	6.03	65.0	2780	1.74	0.22	0.11	10.65	88.0	5.4	77	10.40	27.2
K285816		2.51	<0.005	0.88	5.41	34.8	5680	1.50	0.19	0.11	15.00	56.6	2.8	68	9.30	32.9
K285817		6.09	<0.005	0.64	4.98	41.9	2370	1.46	0.13	1.23	45.1	51.6	10.0	55	6.74	32.5
K285818		7.21	<0.005	0.47	4.97	40.0	2330	1.38	0.13	1.28	23.9	54.5	8.6	57	8.20	21.9
K285819		4.45	<0.005	0.58	3.97	48.6	850	1.13	0.12	2.16	26.5	50.8	7.8	48	5.89	15.8
K285820		3.75	0.005	2.42	3.60	31.9	110	0.93	0.19	0.98	243	59.4	12.5	45	4.16	36.2
K285821		1.43	<0.005	0.27	1.08	11.2	1290	0.29	0.19	1.89	4.97	20.3	3.1	28	1.16	10.0
K285822		0.26	<0.005	15.55	4.32	135.0	1320	1.33	52.0	8.39	60.8	44.4	7.1	69	5.06	801
K285823		1.33	0.008	1.14	1.33	23.2	990	0.43	0.17	3.58	78.0	26.7	8.4	21	0.96	17.6
K285824		2.28	<0.005	0.01	0.05	<5	30	0.06	0.03	21.1	0.13	1.19	0.8	<1	0.13	1.9
K285825		2.38	0.005	1.01	1.27	15.3	140	0.48	0.08	4.93	177.0	26.8	6.7	27	1.79	22.5
K285826		2.53	0.011	0.74	1.17	33.2	240	0.48	0.05	2.51	46.7	24.4	6.9	33	2.01	17.3
K285827		3.28	<0.005	0.38	1.12	16.1	1290	0.42	0.12	0.90	2.57	24.9	5.5	41	2.06	11.4
K285828		0.96	<0.005	0.23	0.68	6.5	1110	0.20	0.06	1.66	42.7	10.25	2.4	23	0.39	8.0
K285829		4.83	<0.005	0.52	1.17	19.7	730	0.35	0.16	1.85	7.86	29.8	6.3	43	1.75	14.2
K285830		<0.02	<0.005	0.54	1.25	21.0	110	0.47	0.16	1.81	8.02	26.8	6.9	31	1.74	13.9
K285831		0.56	<0.005	1.06	2.05	8.9	70	0.86	0.36	2.41	5.20	42.2	16.8	41	1.48	35.6
K285832		2.38	<0.005	0.61	3.36	35.8	530	1.20	0.16	7.01	0.08	53.9	17.8	42	10.80	11.6

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 23- JUL- 2013
Account: RANSIL

Project: KEG - VENT

CERTIFICATE OF ANALYSIS WH13121814

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
K285801		2.42	19.65	0.23	2.5	0.042	2.58	36.1	50.2	1.33	244	3.63	0.15	12.6	44.3	780
K285802		3.96	14.65	0.23	2.0	0.631	2.15	26.7	52.3	0.84	183	2.97	0.07	9.5	23.2	730
K285803		3.92	4.46	0.15	0.5	0.552	1.16	17.0	38.9	0.14	66	1.31	0.04	2.4	9.2	930
K285804		2.01	5.26	0.10	0.4	0.214	0.27	8.4	41.1	0.25	85	0.84	0.05	1.3	20.6	760
K285805		1.08	2.68	0.07	0.3	<0.005	0.31	7.8	11.8	0.10	58	0.84	0.02	1.0	20.3	910
K285806		1.63	6.62	0.12	0.8	0.102	0.77	16.8	12.4	0.14	57	2.18	0.03	3.6	68.0	920
K285807		1.11	16.35	0.23	2.4	0.008	2.27	38.6	20.4	0.39	57	2.54	0.06	11.3	92.0	1080
K285808		1.28	17.25	0.24	2.5	0.006	2.51	26.8	20.4	0.37	60	2.68	0.06	12.3	98.2	1220
K285809		2.55	3.82	0.15	0.5	0.241	0.24	12.1	14.4	0.23	107	0.92	0.01	2.1	10.0	1060
K285810		0.46	0.24	0.10	<0.1	<0.005	0.03	0.6	1.5	12.85	196	0.08	0.01	0.2	1.8	180
K285811		1.20	2.19	0.05	0.2	0.032	0.15	6.3	16.8	0.18	82	0.66	0.01	0.8	10.4	440
K285812		1.11	3.30	0.05	0.3	0.062	0.27	6.2	15.6	0.06	65	0.54	0.01	1.0	3.7	330
K285813		3.26	9.54	0.11	0.7	0.266	0.77	16.1	31.3	0.18	76	1.31	0.03	3.4	7.3	1820
K285814		5.82	12.25	0.23	1.3	27.3	1.39	21.9	29.8	2.07	2580	15.80	0.17	7.7	49.3	850
K285815		3.63	17.05	0.18	2.8	0.191	2.59	43.4	65.7	1.94	202	1.99	0.05	13.5	16.4	1390
K285816		2.09	14.30	0.10	2.4	0.089	2.28	32.3	53.7	1.00	122	1.81	0.02	12.5	11.0	1180
K285817		2.25	11.65	0.17	2.3	0.056	1.93	27.8	57.2	2.01	305	1.61	0.03	10.3	32.2	990
K285818		1.56	11.60	0.20	2.4	0.037	1.99	29.6	48.7	1.53	275	1.38	0.05	10.5	34.5	1000
K285819		1.43	8.98	0.23	1.9	0.055	1.61	27.6	31.2	1.62	505	1.22	0.02	8.3	37.6	860
K285820		2.01	18.20	0.19	1.4	0.200	1.41	27.6	15.7	0.52	134	1.51	0.04	6.7	72.3	1450
K285821		0.99	3.37	0.06	0.5	0.028	0.21	11.1	20.9	1.06	290	0.50	0.02	1.4	9.8	1740
K285822		3.47	11.90	0.19	1.5	2.26	1.91	23.0	37.0	2.18	1780	13.95	0.23	8.1	46.7	1140
K285823		1.59	5.50	0.09	0.4	0.103	0.18	11.4	27.5	1.71	465	0.44	0.02	1.7	24.4	1320
K285824		0.47	0.18	0.15	<0.1	<0.005	0.02	0.6	1.3	12.55	199	0.06	<0.01	0.2	1.7	170
K285825		1.88	9.15	0.09	0.4	0.072	0.47	11.4	16.1	2.71	335	0.55	0.06	1.7	26.0	1030
K285826		1.97	5.16	0.07	0.3	<0.005	0.48	10.4	21.1	1.25	187	0.60	0.04	1.3	30.3	1150
K285827		1.22	3.33	0.08	0.5	0.008	0.44	13.2	12.3	0.34	88	1.15	0.01	2.4	24.7	930
K285828		0.70	3.76	<0.05	0.2	0.082	0.12	4.9	18.6	0.53	185	0.38	0.01	0.6	5.7	1840
K285829		2.45	3.96	0.09	0.5	0.019	0.38	13.9	17.8	0.75	157	0.65	0.02	1.9	27.3	1230
K285830		2.70	3.96	0.10	0.4	<0.005	0.39	11.5	19.3	0.80	156	0.68	0.03	1.9	28.0	1250
K285831		5.08	5.11	0.16	0.8	0.027	0.39	20.9	18.3	1.36	272	1.40	0.05	3.8	96.6	930
K285832		2.67	8.55	0.19	1.4	0.036	1.56	29.2	34.7	3.94	376	0.96	0.04	6.7	41.6	2770

***** See Appendix Page for comments regarding this certificate *****

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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 23- JUL- 2013
Account: RANSIL

Project: KEG - VENT

CERTIFICATE OF ANALYSIS WH13121814

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
K285801		21.5	131.0	0.004	1.27	8.66	11.2	3	2.5	147.0	0.85	0.14	11.0	0.353	1.63	3.2
K285802		2380	180.0	<0.002	1.06	254	7.8	35	29.8	116.0	0.61	0.45	8.0	0.260	2.54	2.8
K285803		1190	92.0	<0.002	1.43	476	1.8	14	41.0	76.6	0.10	0.49	2.8	0.057	1.82	0.8
K285804		1425	18.9	<0.002	0.78	320	1.3	11	20.9	61.6	<0.05	0.46	2.2	0.036	0.40	0.9
K285805		73.6	15.8	<0.002	0.47	43.0	0.7	3	3.8	35.4	0.06	0.34	1.8	0.023	0.29	1.0
K285806		45.3	37.8	<0.002	0.98	18.70	1.4	3	3.7	39.4	0.23	0.19	3.3	0.082	0.62	1.8
K285807		46.4	121.5	0.002	0.95	7.55	4.6	3	11.2	67.3	0.70	<0.05	8.3	0.264	1.63	4.1
K285808		45.4	129.0	<0.002	1.15	7.29	5.1	2	10.7	59.5	0.77	<0.05	8.8	0.292	1.76	4.3
K285809		4490	24.6	<0.002	0.55	55.0	1.0	40	17.5	16.5	0.12	1.64	3.0	0.049	0.56	1.0
K285810		4.4	1.3	<0.002	0.01	0.37	0.2	1	0.2	50.8	<0.05	<0.05	<0.2	<0.005	0.03	0.7
K285811		124.0	11.8	<0.002	0.22	18.35	0.4	3	4.1	14.8	0.05	0.06	1.1	0.016	0.20	0.5
K285812		115.0	22.3	<0.002	0.12	17.90	0.5	2	5.5	24.3	0.06	0.05	1.2	0.021	0.30	0.4
K285813		213	56.7	0.002	0.47	55.8	1.8	7	13.4	90.8	0.23	0.16	4.0	0.080	0.79	1.2
K285814		1500	69.8	0.020	2.73	9.35	6.6	58	249	163.5	0.53	0.61	5.4	0.257	0.67	2.9
K285815		16.2	184.0	0.002	0.44	26.5	9.5	3	4.9	95.3	0.83	0.06	10.0	0.320	2.72	4.1
K285816		14.4	136.0	0.005	0.29	19.65	8.0	2	2.1	67.0	0.80	0.07	9.6	0.283	1.59	3.7
K285817		11.8	104.0	<0.002	0.41	13.90	7.3	2	2.0	79.9	0.63	0.07	7.5	0.244	1.32	3.5
K285818		10.1	114.5	<0.002	0.43	5.65	6.9	1	3.0	83.7	0.65	<0.05	7.9	0.262	1.61	3.6
K285819		14.7	90.0	<0.002	0.65	3.11	4.6	1	4.4	68.1	0.53	0.05	6.6	0.220	1.22	3.0
K285820		44.1	62.2	<0.002	2.13	9.82	3.4	3	1.3	80.5	0.43	0.06	5.8	0.172	0.66	2.8
K285821		41.3	10.4	0.003	0.22	6.23	2.2	2	3.1	45.0	0.09	<0.05	1.9	0.030	0.19	1.1
K285822		1030	91.9	0.016	0.99	8.45	7.7	28	163.0	208	0.59	0.34	6.1	0.298	0.93	3.2
K285823		165.5	7.7	<0.002	0.95	3.13	2.5	4	5.9	70.8	0.10	0.05	2.4	0.041	0.18	1.2
K285824		1.3	0.8	0.002	0.01	0.22	0.2	1	0.2	51.0	<0.05	<0.05	<0.2	<0.005	0.02	0.5
K285825		10.2	14.3	<0.002	1.87	4.18	2.7	1	1.7	73.1	0.11	<0.05	2.1	0.040	0.28	1.4
K285826		16.2	17.6	<0.002	1.23	3.39	1.4	1	1.8	69.8	0.08	<0.05	1.8	0.031	0.41	1.4
K285827		12.3	23.5	<0.002	0.70	4.06	1.5	1	0.9	41.8	0.15	<0.05	2.6	0.053	0.32	2.3
K285828		11.9	4.2	<0.002	0.36	3.49	1.1	2	1.2	46.9	<0.05	<0.05	2.1	0.018	0.13	1.4
K285829		20.2	18.7	0.002	1.62	4.57	2.2	1	1.2	60.3	0.14	0.05	2.0	0.044	0.34	1.7
K285830		20.4	17.4	<0.002	1.73	4.70	2.3	1	1.1	62.4	0.12	0.05	1.8	0.045	0.35	1.6
K285831		95.9	16.7	<0.002	2.98	4.33	4.7	2	3.5	135.5	0.25	<0.05	3.2	0.090	0.32	2.2
K285832		15.5	75.1	0.002	1.39	2.29	6.0	2	1.0	262	0.43	0.12	6.2	0.150	1.03	3.0

***** See Appendix Page for comments regarding this certificate *****

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VANCOUVER BC V6B 1L8

Finalized Date: 23-JUL-2013
Account: RANSIL

Project: KEG - VENT

CERTIFICATE OF ANALYSIS WH13121814

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Zn-OG62	Sn-XRF05
	Analyte	V	W	Y	Zn	Zr	Zn	Sn
	Units	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	1	0.1	0.1	2	0.5	0.001	5
K285801		248	1.4	20.6	317	89.0		<5
K285802		186	1.7	10.2	1350	68.7		30
K285803		87	1.0	3.8	654	16.9		44
K285804		71	0.9	4.2	867	13.3		21
K285805		40	0.4	7.3	273	9.8		<5
K285806		111	0.7	7.4	1320	27.2		<5
K285807		362	1.5	15.9	2420	89.1		11
K285808		397	1.6	16.0	2380	95.7		11
K285809		67	0.8	4.9	787	18.0		16
K285810		2	0.1	0.9	21	0.6		<5
K285811		30	0.3	3.9	493	7.3		<5
K285812		51	0.3	2.7	174	8.8		5
K285813		149	0.8	5.0	466	24.4		14
K285814		106	5.4	23.7	>10000	41.7	1.440	273
K285815		453	1.5	16.0	910	101.0		5
K285816		407	1.2	16.0	598	86.6		<5
K285817		333	0.9	21.8	1550	80.8		<5
K285818		330	1.1	18.5	813	84.5		<5
K285819		254	0.8	14.0	1970	70.8		<5
K285820		190	0.7	11.0	>10000	53.1	1.880	<5
K285821		79	0.2	17.3	680	11.6		<5
K285822		141	3.1	27.0	3250	54.1		170
K285823		82	0.3	12.0	8400	13.6		<5
K285824		1	0.1	0.8	21	<0.5		<5
K285825		95	0.2	7.8	>10000	16.2	1.780	<5
K285826		71	0.2	8.1	4470	10.2		<5
K285827		93	0.3	8.2	295	19.4		<5
K285828		63	0.1	8.7	4000	8.0		<5
K285829		95	0.2	9.0	750	15.3		<5
K285830		96	0.2	9.1	723	14.8		<5
K285831		141	0.4	10.3	544	32.1		<5
K285832		286	0.7	25.2	20	56.6		<5

***** See Appendix Page for comments regarding this certificate *****

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Project: KEG - VENT

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 23-JUL-2013
Account: RANSIL

CERTIFICATE OF ANALYSIS WH13121814

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

Applies to Method: Interference: Samples with Ca>10%on ICP-MS As. ICP-AES As results reported (5 ppm DL)
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

CRU-31	CRU-QC	LOG-22	LOG-22d
LOG-23	PUL-31	PUL-31d	PUL-QC
SPL-21	SPL-21d	WEI-21	

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-AA24	ME-MS61	ME-OG62	Sn-XRF05
Zn-OG62			

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To: **SILVER RANGE RESOURCES LTD.**
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 19-JUL-2013
Account: RANSIL

CERTIFICATE WH13124386

Project: KEG - SNAP

P.O. No.:

This report is for 17 Rock samples submitted to our lab in Whitehorse, YT, Canada on 8-JUL-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70%<2mm
CRU-QC	Crushing QC Test
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test
PUL-31	Pulverize split to 85%<75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	VARIABLE
Ag-OG62	Ore Grade Ag - Four Acid	VARIABLE
Pb-OG62	Ore Grade Pb - Four Acid	VARIABLE
W-XRF05	Trace Level W XRF Analysis	XRF

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Finalized Date: 19- JUL- 2013
Account: RANSIL

Project: KEG - SNAP

CERTIFICATE OF ANALYSIS WH13124386

Sample Description	Method	WEI-21	Au-AA24	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M355854		2.27	0.037	41.6	3.93	1420	150	3.04	0.61	0.09	64.6	37.9	2.7	11	7.44	147.0
M355855		1.36	0.463	43.9	0.55	>10000	50	1.68	0.24	0.18	70.0	6.88	1.9	19	3.20	153.0
M355856		1.80	0.882	5.74	0.90	>10000	40	1.65	3.44	0.05	5.53	7.84	2.2	17	3.66	17.4
M355857		2.06	0.145	6.65	2.68	1860	80	2.05	3.55	0.02	1.70	19.15	0.7	25	7.00	26.3
M355915		1.14	0.103	2.55	2.53	402	130	3.23	0.82	0.03	0.19	19.45	0.3	26	20.9	10.4
M355916		1.61	0.969	20.7	1.49	5400	80	2.23	0.42	0.02	13.35	10.05	0.4	35	16.65	279
M355917		1.47	0.005	1.62	2.22	541	70	1.79	0.44	0.03	1.86	15.15	0.5	20	5.81	15.4
M355918		1.49	0.162	51.3	3.25	886	160	3.37	112.0	0.03	0.69	26.4	0.5	19	14.30	63.1
M355919		1.60	0.064	47.9	0.04	2170	10	0.09	0.21	0.02	22.9	0.81	2.0	3	0.15	155.5
M355920		1.82	0.035	>100	1.97	2820	110	3.76	0.58	0.30	44.5	22.0	1.9	14	12.90	41.5
M355921		2.49	0.301	>100	1.53	>10000	70	1.35	5.23	0.02	12.60	12.65	0.5	15	3.70	225
M355922		1.29	0.006	2.54	5.45	370	320	3.57	1.56	0.06	0.65	54.7	1.7	14	15.15	10.9
M355923		1.96	0.914	79.0	0.75	>10000	40	2.68	0.55	0.46	549	2.36	2.0	8	6.70	1350
M355951		2.67	0.010	4.53	3.19	322	60	1.65	4.51	0.04	3.46	35.5	0.9	21	6.08	38.4
M355952		1.61	0.220	18.55	1.23	>10000	100	2.06	0.36	0.07	84.3	11.05	2.6	22	8.29	373
M355953		1.76	0.027	0.50	7.09	62	410	20.2	248	16.00	87.4	42.7	8.0	42	1.80	178.0
M355954		0.91	<0.005	0.15	7.12	45	780	9.26	3.60	20.0	1.98	51.6	11.5	46	3.01	5.3

***** See Appendix Page for comments regarding this certificate *****

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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 19-JUL-2013
Account: RANSIL

Project: KEG - SNAP

CERTIFICATE OF ANALYSIS WH13124386

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
M355854		14.05	15.90	0.19	0.8	3.11	1.92	19.2	42.8	0.23	1240	0.96	0.04	3.9	4.2	220
M355855		12.45	2.23	0.11	0.1	18.70	0.19	3.5	72.2	0.05	6310	0.41	0.04	0.5	2.4	130
M355856		5.72	3.51	0.10	0.1	1.080	0.39	4.2	77.2	0.04	2640	1.51	0.01	0.4	1.9	40
M355857		1.18	9.21	0.08	0.8	0.386	1.17	9.4	30.3	0.09	275	3.34	0.02	2.6	1.7	80
M355915		0.83	12.15	0.18	0.9	0.101	0.93	10.3	121.5	0.10	139	3.19	0.03	8.4	1.8	50
M355916		1.49	5.28	0.14	0.3	0.209	0.50	5.4	175.5	0.06	98	0.31	0.02	1.8	1.7	70
M355917		2.85	8.00	0.11	0.5	0.449	0.92	7.4	32.8	0.08	139	0.33	0.02	2.3	1.8	190
M355918		1.42	11.15	0.13	0.9	1.465	1.58	13.9	109.5	0.10	142	1.19	0.04	6.1	1.9	230
M355919		39.7	0.37	0.12	<0.1	1.620	0.01	<0.5	3.7	0.02	3240	0.20	<0.01	0.1	1.6	10
M355920		5.64	6.85	<0.05	0.4	12.35	0.78	10.9	99.0	0.20	23600	0.21	0.02	2.1	2.0	140
M355921		4.14	4.83	<0.05	0.3	4.07	0.65	6.7	54.8	0.05	452	0.26	0.02	1.8	1.5	130
M355922		1.71	17.30	0.15	1.3	0.068	2.94	27.4	31.7	0.21	783	0.76	0.05	6.1	2.4	360
M355923		14.40	3.92	0.05	0.2	63.0	0.29	1.2	62.1	0.43	4850	0.21	0.02	1.0	1.9	30
M355951		0.89	16.15	0.08	1.0	0.357	1.48	17.7	23.9	0.13	126	1.50	0.03	2.4	1.9	100
M355952		5.73	4.32	0.06	0.2	1.055	0.60	6.1	103.5	0.04	837	0.30	0.03	1.2	2.8	130
M355953		6.38	21.6	0.07	1.7	22.8	0.27	24.2	36.1	2.42	4010	0.83	1.07	40.0	20.9	880
M355954		3.76	19.70	0.08	1.4	0.253	0.31	28.5	31.2	2.16	1330	0.18	0.40	13.1	37.0	550

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VANCOUVER BC V6B 1L8

Finalized Date: 19- JUL- 2013
Account: RANSIL

Project: KEG - SNAP

CERTIFICATE OF ANALYSIS WH13124386

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
M355854		9300	201	<0.002	>10.0	55.5	2.7	1	75.7	9.3	0.45	<0.05	7.1	0.077	8.11	3.2
M355855		7560	21.7	<0.002	>10.0	328	0.6	1	114.0	8.6	<0.05	<0.05	0.8	0.013	7.93	1.6
M355856		664	46.5	<0.002	3.28	286	0.6	<1	22.0	4.9	0.05	0.05	0.8	0.012	1.43	0.4
M355857		1130	128.5	<0.002	0.45	20.8	1.5	<1	36.1	11.0	0.37	0.05	3.1	0.053	2.48	1.1
M355915		242	186.5	<0.002	0.05	31.3	1.8	<1	28.4	21.2	1.73	0.12	5.2	0.051	1.76	2.3
M355916		4390	82.3	<0.002	0.85	186.5	0.7	<1	268	30.1	0.20	<0.05	2.5	0.028	0.93	4.6
M355917		912	105.0	<0.002	0.12	6.48	1.2	<1	17.9	11.2	0.42	<0.05	3.5	0.035	1.14	2.1
M355918		1700	197.5	<0.002	0.28	22.1	1.7	1	40.7	21.8	0.86	0.64	7.1	0.068	3.16	4.8
M355919		8860	1.2	<0.002	>10.0	70.0	0.1	1	11.0	1.4	<0.05	<0.05	<0.2	<0.005	0.63	0.2
M355920		>10000	98.5	<0.002	2.31	154.5	1.7	1	85.7	19.4	0.20	<0.05	3.9	0.046	2.05	1.6
M355921		>10000	74.1	<0.002	3.11	367	1.0	2	214	12.3	0.20	0.05	2.7	0.036	4.67	1.8
M355922		585	279	<0.002	0.18	4.82	4.0	<1	21.3	25.4	0.67	<0.05	11.4	0.128	3.82	3.5
M355923		>10000	42.3	<0.002	>10.0	295	0.6	3	>500	10.2	0.10	<0.05	1.5	0.019	2.06	0.8
M355951		366	167.0	<0.002	0.36	5.63	1.8	<1	18.2	6.1	0.33	0.07	7.8	0.039	1.44	1.8
M355952		1470	64.2	<0.002	5.55	114.0	0.8	1	51.4	26.4	0.13	<0.05	2.5	0.020	5.14	2.1
M355953		21.2	24.2	0.034	0.17	0.96	11.6	3	120.5	554	7.13	0.38	7.0	0.226	0.52	3.7
M355954		30.3	24.1	<0.002	0.02	1.38	8.7	1	65.9	460	1.72	<0.05	8.1	0.263	0.14	3.0

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VANCOUVER BC V6B 1L8

Finalized Date: 19-JUL-2013
Account: RANSIL

Project: KEG - SNAP

CERTIFICATE OF ANALYSIS WH13124386

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Zn-OG62	Ag-OG62	Pb-OG62	W-XRF05
	Analyte	V	W	Y	Zn	Zr	Zn	Ag	Pb	W
	Units	ppm	ppm	ppm	ppm	ppm	%	ppm	%	ppm
	LOR	1	0.1	0.1	2	0.5	0.001	1	0.001	10
M355854		22	9.5	3.6	>10000	30.3	2.16			
M355855		4	3.7	2.6	>10000	2.3	1.840			
M355856		6	0.9	0.9	1680	2.9				
M355857		14	1.9	1.4	338	19.1				
M355915		9	161.5	4.2	61	20.4				
M355916		4	42.2	1.2	5020	10.9				
M355917		7	2.4	1.5	190	14.2				
M355918		12	148.0	2.8	249	26.9				
M355919		1	6.7	0.8	6360	<0.5				
M355920		8	11.5	5.9	9840	12.6		131	4.50	
M355921		5	2.3	1.0	3140	9.6		244	10.60	
M355922		23	3.5	4.2	327	46.0				
M355923		4	4.0	2.0	>10000	5.4	12.75		2.66	
M355951		12	3.8	2.0	859	30.5				
M355952		4	1.5	1.0	>10000	4.7	2.17			
M355953		106	6850	14.6	4800	50.7				7190
M355954		93	142.5	16.8	307	43.3				

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CERTIFICATE OF ANALYSIS WH13124386

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

Applies to Method: Interference: Samples with Ca>10%on ICP-MS As. ICP-AES As results reported (5 ppm DL)
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

CRU-31	CRU-QC	LOG-22	PUL-31
PUL-QC	SPL-21	WEI-21	

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Ag-OG62	Au-AA24	ME-MS61	ME-OG62
Pb-OG62	W-XRF05	Zn-OG62	

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1016-510 W HASTINGS ST
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Finalized Date: 24-JUL-2013
Account: RANSIL

CERTIFICATE WH13124387

Project: KEG - RISBY

P.O. No.:

This report is for 33 Rock samples submitted to our lab in Whitehorse, YT, Canada on 8-JUL-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70%<2mm
CRU-QC	Crushing QC Test
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test
PUL-31	Pulverize split to 85%<75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	VARIABLE
Ag-OG62	Ore Grade Ag - Four Acid	VARIABLE
Ag-GRA21	Ag 30g FA-GRAV finish	WST-SIM

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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CERTIFICATE OF ANALYSIS WH13124387

Sample Description	Method	WEI-21	Au-AA24	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M355851		2.05	<0.005	0.02	2.72	4.3	240	1.02	0.18	0.46	0.32	14.10	8.4	27	2.22	5.2
M355852		1.54	<0.005	0.20	7.67	14	920	3.17	2.09	19.35	1.24	62.6	16.8	63	4.95	4.2
M355853		1.91	<0.005	0.12	8.31	4.8	750	5.82	0.32	8.60	0.13	66.0	30.9	117	8.98	271
M355858		1.95	<0.005	0.15	7.95	7.5	810	6.19	0.69	8.93	0.32	52.9	20.1	93	20.5	25.1
M355859		1.91	0.467	13.55	1.25	4280	50	9.04	0.34	2.21	4.33	36.5	8.8	1	11.70	31.1
M355860		1.66	0.144	>100	2.35	3900	90	2.88	0.45	0.99	11.50	22.8	2.2	5	8.65	202
M355861		1.99	0.012	1.76	6.01	350	400	3.73	0.73	0.11	0.04	71.7	1.0	12	18.85	5.0
M355901		0.95	<0.005	0.82	4.59	11.2	120	3.37	0.30	0.25	0.08	14.45	3.3	22	2.50	8.1
M355902		0.95	<0.005	0.21	2.66	4.1	80	1.80	0.44	0.04	<0.02	6.30	23.4	23	1.79	36.0
M355903		1.43	<0.005	0.21	8.97	2.5	710	2.48	0.56	5.68	0.13	51.3	12.8	74	15.25	98.9
M355904		1.84	<0.005	0.26	5.92	3.3	270	2.62	1.14	5.18	0.40	69.4	39.1	4	4.31	155.5
M355905		1.90	<0.005	<0.01	7.76	1.8	290	2.37	0.57	5.33	0.25	96.2	25.3	4	6.65	67.5
M355906		2.68	<0.005	0.05	6.99	<5	430	4.12	2.43	18.85	4.19	74.5	13.4	58	14.80	14.0
M355907		1.41	<0.005	1.74	6.59	263	1240	1.78	0.62	0.07	3.79	33.8	1.3	46	9.78	64.7
M355908		2.78	<0.005	0.26	7.93	<5	1050	3.51	0.95	11.25	1.01	75.1	21.0	84	10.50	65.7
M355909		1.11	<0.005	0.08	8.50	1.2	700	2.37	0.39	5.55	0.11	43.1	19.3	79	20.7	122.5
M355910		1.48	<0.005	0.14	10.10	681	1530	3.37	0.73	3.50	0.30	75.8	22.8	112	23.5	121.0
M355911		1.60	<0.005	0.02	6.25	6	460	4.87	0.96	21.4	0.61	56.7	12.9	57	7.98	2.5
M355912		1.76	<0.005	0.13	7.82	7.4	910	4.06	0.92	5.98	12.35	69.4	22.7	93	12.45	66.1
M355913		1.91	<0.005	0.08	7.72	<5	280	7.47	0.92	19.50	0.66	65.3	15.2	60	10.40	3.9
M355914		1.98	<0.005	0.27	7.18	5.0	570	2.30	2.13	6.95	0.26	79.4	24.9	39	6.47	174.5
M355924		0.99	<0.005	0.27	4.23	2.4	920	1.68	0.25	0.32	0.10	35.4	2.4	72	3.82	82.1
M355925		1.02	<0.005	1.56	5.40	0.9	270	1.27	0.30	4.25	0.94	58.6	17.4	80	8.54	214
M355926		1.43	<0.005	0.07	8.39	<0.2	700	2.21	0.71	6.16	0.23	113.0	27.1	4	14.85	154.5
M355927		1.92	<0.005	0.03	8.03	9	1230	3.26	1.45	17.50	0.34	63.4	14.9	75	5.77	10.7
M355928		2.21	<0.005	<0.01	7.74	<5	1000	4.23	0.51	18.95	0.53	59.0	15.0	67	5.06	11.1
M355929		2.77	<0.005	0.03	6.83	<5	740	2.79	2.31	17.95	0.60	57.1	14.0	73	4.63	5.6
M355930		1.31	<0.005	<0.01	7.89	<5	1620	4.00	0.62	16.60	0.45	79.3	16.5	71	9.55	5.2
M355931		1.25	2.29	>100	1.56	>10000	90	2.91	0.89	0.41	18.40	14.90	1.0	11	13.40	403
M355932		1.33	0.590	18.90	1.70	5470	80	3.62	0.35	0.14	2.81	19.10	1.5	8	10.85	45.7
M355933		2.53	0.722	29.3	0.17	>10000	10	0.59	0.13	0.59	150.5	5.66	2.2	6	0.89	110.0
M355955		1.55	<0.005	0.33	8.04	56	110	3.30	0.17	10.55	1.38	43.0	35.8	181	4.89	11.7
M355956		1.03	<0.005	0.94	8.81	122.0	180	10.65	0.23	2.22	15.40	20.6	6.6	5	2.39	98.9

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CERTIFICATE OF ANALYSIS WH13124387

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
M355851		1.19	5.50	0.11	0.2	0.014	0.50	7.1	23.2	0.18	423	0.25	0.98	2.6	18.1	490
M355852		3.66	23.4	0.20	0.7	0.082	0.91	35.6	72.2	2.37	581	0.50	0.31	9.9	26.4	290
M355853		5.26	27.8	0.28	0.4	0.058	1.74	32.6	79.4	1.47	445	9.80	1.15	15.8	63.5	80
M355858		4.77	32.0	0.24	0.5	0.100	1.63	25.3	233	1.30	617	0.65	1.37	13.3	45.9	430
M355859		8.48	17.25	0.30	0.3	0.043	0.43	14.1	39.4	0.23	>100000	0.14	0.02	1.2	11.2	330
M355860		4.89	20.7	0.24	0.5	0.008	1.29	10.7	48.3	0.20	>100000	0.22	0.03	3.0	3.8	240
M355861		1.59	20.9	0.22	2.0	0.028	4.24	34.1	48.7	0.21	1280	3.20	0.11	6.1	2.6	650
M355901		1.65	9.23	0.05	0.2	0.012	0.47	6.1	38.2	0.21	708	0.31	2.09	6.2	7.0	520
M355902		2.67	8.27	0.05	0.1	0.015	0.84	3.2	39.1	0.28	259	0.54	0.12	1.9	94.2	140
M355903		4.66	25.5	0.11	0.4	0.056	1.02	28.7	111.0	1.62	547	1.87	0.62	12.9	30.6	1100
M355904		6.85	18.20	0.15	0.8	0.077	0.73	33.2	41.6	1.80	974	1.48	1.42	38.5	7.1	1680
M355905		8.03	27.5	0.33	1.1	0.106	0.62	46.2	42.6	1.93	1190	2.10	2.30	53.2	0.9	1930
M355906		3.21	23.1	0.19	0.8	0.075	0.41	43.4	41.1	2.25	514	2.28	0.23	8.8	27.2	260
M355907		1.70	15.10	0.25	0.3	0.032	2.25	17.5	27.5	0.26	67	10.65	0.09	3.8	5.2	420
M355908		4.97	24.7	0.24	0.7	0.086	1.03	43.8	46.1	1.43	791	7.20	0.80	11.7	46.1	530
M355909		4.33	29.2	0.24	0.4	0.063	1.19	20.3	73.6	1.00	586	3.42	0.87	12.7	42.2	350
M355910		5.96	35.0	0.36	0.4	0.079	2.86	36.7	204	1.32	682	1.25	1.23	20.2	33.7	740
M355911		3.48	19.70	0.18	0.8	0.092	0.61	32.0	34.7	2.15	854	0.69	0.47	8.8	20.3	190
M355912		4.31	26.6	0.28	0.5	0.078	1.99	37.2	137.0	1.25	642	8.44	1.52	11.7	48.1	520
M355913		3.70	24.9	0.18	0.9	0.072	0.31	36.8	31.1	1.99	694	0.41	0.76	10.3	29.1	330
M355914		5.49	22.8	0.29	0.8	0.095	1.14	39.7	76.0	1.80	791	1.90	1.13	28.2	17.1	1250
M355924		3.62	13.15	0.18	0.5	0.024	1.05	21.4	107.0	0.35	86	19.90	0.07	3.7	27.7	1840
M355925		5.04	17.40	0.27	0.5	0.043	0.69	33.9	88.2	1.07	1340	12.35	0.15	7.8	55.8	1290
M355926		7.30	24.2	0.40	0.9	0.087	1.10	52.3	104.5	1.56	934	2.35	1.79	54.7	1.4	3260
M355927		3.91	22.7	0.24	0.8	0.077	1.10	37.8	34.3	1.88	1210	0.94	0.75	10.2	31.0	470
M355928		3.80	23.3	0.19	0.8	0.070	0.54	35.3	26.9	1.66	1590	0.67	0.76	9.3	31.1	540
M355929		3.58	20.6	0.19	0.7	0.074	0.73	35.1	27.0	1.80	1380	1.05	0.49	10.1	29.8	470
M355930		4.00	23.0	0.22	1.1	0.071	1.33	43.6	39.5	2.03	801	0.80	0.55	10.8	33.5	540
M355931		3.85	7.44	0.16	0.4	0.123	0.51	7.7	87.5	0.07	33200	0.22	0.03	2.1	1.9	110
M355932		7.69	10.60	0.24	0.3	0.107	0.63	9.0	82.7	0.07	80900	0.14	0.02	1.8	1.5	180
M355933		15.80	8.16	0.44	<0.1	8.81	0.05	2.9	33.2	0.11	98600	0.16	<0.01	0.5	1.9	20
M355955		6.53	17.85	0.13	0.8	0.074	0.43	21.0	77.8	4.01	1560	0.52	0.92	22.2	89.1	830
M355956		2.45	24.1	0.08	0.9	0.854	0.22	8.8	14.6	0.21	1040	0.20	6.59	10.3	5.9	890

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 24-JUL-2013
Account: RANSIL

Project: KEG - RISBY

CERTIFICATE OF ANALYSIS WH13124387

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
M355851		18.5	22.9	<0.002	0.01	0.15	2.8	1	0.7	86.2	0.36	<0.05	2.0	0.072	0.27	1.0
M355852		20.5	72.1	<0.002	<0.01	2.46	11.8	2	56.7	516	0.62	<0.05	8.1	0.254	0.48	1.7
M355853		20.1	38.0	0.012	2.56	0.19	18.1	7	12.0	857	1.17	<0.05	9.3	0.424	0.81	2.6
M355858		30.6	44.1	0.002	0.14	0.82	12.8	2	22.2	637	0.94	<0.05	6.8	0.369	1.23	1.4
M355859		63.4	36.1	0.002	0.87	95.6	2.8	2	6.7	15.2	0.13	<0.05	4.4	0.018	1.79	40.5
M355860		8380	156.5	<0.002	0.44	215	1.7	1	212	22.9	0.29	<0.05	4.5	0.038	3.52	9.4
M355861		93.1	335	<0.002	0.11	13.55	2.5	1	24.7	67.6	1.17	<0.05	20.0	0.072	6.31	12.8
M355901		36.2	31.9	<0.002	0.04	0.89	2.7	<1	3.0	95.4	4.54	<0.05	1.9	0.121	0.19	1.2
M355902		10.7	88.0	<0.002	0.02	0.19	2.7	<1	1.2	9.8	0.15	<0.05	1.6	0.063	0.49	0.4
M355903		16.2	55.4	0.003	0.78	0.11	13.0	2	5.6	609	0.80	0.06	7.2	0.332	0.70	1.8
M355904		13.5	62.8	<0.002	0.32	0.41	21.5	2	22.1	324	2.34	<0.05	4.5	1.525	0.64	1.4
M355905		8.2	41.6	0.002	0.40	0.15	25.2	5	11.8	369	3.56	0.06	7.5	1.640	0.45	1.2
M355906		4.4	45.4	<0.002	0.01	1.65	11.2	3	51.1	442	0.58	<0.05	8.8	0.261	0.57	2.8
M355907		46.4	172.5	0.006	0.10	3.18	6.4	4	2.9	23.9	0.34	0.06	5.2	0.140	2.77	5.3
M355908		18.3	83.2	<0.002	0.26	5.56	13.8	3	58.4	545	0.78	<0.05	10.4	0.315	0.93	4.2
M355909		17.2	38.2	0.007	0.90	0.45	12.6	4	6.8	678	0.92	<0.05	7.0	0.274	0.90	1.7
M355910		23.5	95.6	0.003	0.52	0.61	20.3	5	11.7	495	1.40	0.08	11.4	0.598	1.63	2.7
M355911		7.5	52.6	<0.002	0.01	1.37	12.3	2	67.8	479	0.56	<0.05	7.9	0.230	0.39	1.4
M355912		16.5	97.8	0.011	0.32	0.61	14.4	5	14.4	337	0.80	<0.05	9.6	0.410	1.08	10.1
M355913		5.1	31.5	0.002	0.01	1.02	12.3	2	48.1	473	1.08	<0.05	9.1	0.256	0.22	3.6
M355914		18.2	92.2	0.003	0.85	0.25	18.3	4	18.5	456	2.05	0.05	7.9	0.905	0.64	1.6
M355924		8.1	91.2	0.004	0.07	0.11	6.3	2	3.1	21.5	0.25	<0.05	6.7	0.149	1.12	5.1
M355925		24.1	50.7	0.018	2.21	0.07	9.9	11	1.1	169.5	0.57	0.20	8.8	0.246	0.62	6.0
M355926		15.0	68.9	0.003	1.48	0.07	18.7	8	6.9	582	3.80	0.13	8.5	1.715	0.65	1.5
M355927		7.2	76.7	0.002	0.04	0.50	12.4	2	51.5	753	0.67	<0.05	8.7	0.301	0.42	2.3
M355928		6.1	45.7	0.002	0.04	0.22	12.2	2	33.2	615	0.61	<0.05	8.1	0.275	0.30	2.1
M355929		9.1	53.0	0.002	0.01	0.87	11.6	2	37.3	511	0.67	<0.05	8.0	0.275	0.30	2.0
M355930		7.1	86.2	<0.002	0.02	0.51	12.9	2	39.2	798	0.74	<0.05	11.0	0.306	0.51	2.6
M355931		9320	55.2	<0.002	1.07	5250	1.3	2	59.5	49.2	0.20	<0.05	3.5	0.036	2.49	9.0
M355932		273	63.5	<0.002	0.34	143.0	1.4	1	17.1	37.1	0.14	<0.05	4.5	0.029	2.26	8.5
M355933		677	6.2	<0.002	>10.0	285	0.3	7	33.2	7.5	<0.05	0.07	0.2	<0.005	1.08	0.4
M355955		11.5	40.9	<0.002	0.04	1.49	40.5	1	10.4	403	1.30	<0.05	2.7	1.070	0.33	0.7
M355956		19.2	15.1	<0.002	0.41	3.35	4.7	2	47.9	601	1.61	<0.05	4.7	0.088	0.19	61.8

***** See Appendix Page for comments regarding this certificate *****

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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 24-JUL-2013
Account: RANSIL

Project: KEG - RISBY

CERTIFICATE OF ANALYSIS WH13124387

Sample Description	Method / Analyte / Units / LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Zn-OG62 Zn % 0.001	Ag-OG62 Ag ppm 1	Ag-GRA21 Ag ppm 5
M355851		13	0.5	4.0	38	4.6			
M355852		76	10.1	11.8	229	21.5			
M355853		147	1.3	17.1	50	8.8			
M355858		90	31.3	11.1	139	12.9			
M355859		3	2.3	28.0	1540	10.0			
M355860		5	2.3	11.5	3140	18.2		245	
M355861		7	2.3	4.4	81	60.2			
M355901		20	0.2	3.5	38	3.3			
M355902		22	0.7	4.0	80	1.5			
M355903		120	0.7	15.2	80	9.8			
M355904		208	6.4	25.9	124	21.7			
M355905		243	1.7	33.7	96	28.5			
M355906		107	17.1	12.9	190	23.3			
M355907		415	1.7	4.3	42	8.4			
M355908		175	17.8	17.7	238	21.0			
M355909		81	1.0	13.5	58	11.2			
M355910		124	16.2	13.7	109	11.6			
M355911		73	31.4	13.9	147	21.9			
M355912		288	26.3	13.8	232	16.0			
M355913		78	60.3	14.4	137	23.2			
M355914		145	3.8	24.0	97	21.4			
M355924		385	2.1	7.2	84	16.5			
M355925		304	1.0	24.4	128	14.7			
M355926		152	3.6	39.0	85	28.1			
M355927		110	7.9	14.9	136	24.6			
M355928		96	15.0	15.3	121	22.5			
M355929		102	52.6	13.9	138	19.1			
M355930		93	22.0	19.0	124	28.3			
M355931		7	3.2	5.4	2770	13.2		>1500	1880
M355932		5	5.7	6.7	1120	13.2			
M355933		<1	1.6	3.2	>10000	2.2	4.76		
M355955		210	2.8	20.1	180	16.4			
M355956		24	1.6	23.9	1960	24.3			

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
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Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 24-JUL-2013
Account: RANSIL

Project: KEG - RISBY

CERTIFICATE OF ANALYSIS WH13124387

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

Applies to Method: Interference: Samples with Ca>10%on ICP-MS As. ICP-AES As results reported (5 ppm DL)
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

CRU-31	CRU-QC	LOG-22	PUL-31
PUL-QC	SPL-21	WEI-21	

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Ag-GRA21	Ag-OG62	Au-AA24	ME-MS61
ME-OG62	Zn-OG62		

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To: **SILVER RANGE RESOURCES LTD.**
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 18-JUL-2013
Account: RANSIL

CERTIFICATE WH13124389

Project: KEG - VAT

P.O. No.:

This report is for 28 Soil samples submitted to our lab in Whitehorse, YT, Canada on 8-JUL-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS41	51 anal. aqua regia ICPMS	

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 18-JUL-2013
Account: RANSIL

Project: KEG - VAT

CERTIFICATE OF ANALYSIS WH13124389

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ74501		0.19	0.001	0.05	0.38	0.5	<0.2	<10	20	0.28	0.06	0.07	0.05	7.46	2.5	5
ZZ74502		0.44	0.001	0.12	3.82	1.8	<0.2	<10	360	3.12	0.90	0.29	0.05	24.5	32.0	74
ZZ74503		0.15	0.062	0.20	2.17	2.5	<0.2	<10	180	2.36	0.58	0.15	0.07	23.0	14.5	40
ZZ74504		0.26	0.001	0.16	4.10	2.8	<0.2	<10	440	2.40	0.68	0.14	0.02	20.7	23.7	82
ZZ74505		0.23	0.001	0.22	3.92	1.7	<0.2	<10	390	2.94	0.70	0.22	0.02	23.9	31.6	78
ZZ74506		0.34	0.001	0.19	3.95	4.9	<0.2	<10	300	2.95	0.74	0.24	0.08	56.0	42.1	80
ZZ74507		0.29	0.001	0.26	3.14	9.6	<0.2	<10	100	4.01	0.70	0.19	0.19	158.0	36.6	65
ZZ74508		0.25	<0.001	0.12	3.14	3.2	<0.2	<10	200	3.18	0.54	0.28	0.07	72.2	24.5	45
ZZ74509		0.25	0.002	0.05	3.53	3.4	<0.2	<10	220	2.44	1.12	0.16	0.14	32.9	25.8	56
ZZ74510		0.15	0.001	0.06	1.00	1.4	<0.2	<10	50	0.59	0.17	0.08	0.06	14.70	4.3	10
ZZ74511		0.40	0.001	0.12	3.13	2.2	<0.2	<10	240	2.84	0.88	0.36	0.17	34.1	24.9	51
ZZ74512		0.27	0.001	0.30	2.98	1.9	<0.2	<10	230	2.98	0.69	0.45	0.86	93.7	18.6	40
ZZ74513		0.30	<0.001	0.10	1.65	0.9	<0.2	<10	40	3.35	0.97	0.61	0.08	88.0	4.8	7
ZZ74514		0.35	0.001	0.21	4.06	3.1	<0.2	<10	480	2.07	1.02	0.11	0.15	18.65	20.3	75
ZZ74515		0.33	0.001	0.18	3.10	1.9	<0.2	<10	270	3.13	0.56	0.07	0.11	27.0	23.4	57
ZZ74516		0.38	0.001	0.05	2.76	5.0	<0.2	<10	230	1.61	0.53	0.06	0.15	27.0	19.0	52
ZZ74517		0.31	0.001	0.08	3.56	2.2	<0.2	<10	330	2.53	0.58	0.06	0.18	36.8	31.4	65
ZZ74518		0.29	0.002	0.13	2.55	4.7	<0.2	<10	250	1.55	0.45	0.06	0.27	30.1	15.3	46
ZZ74519		0.23	0.003	0.06	2.85	4.0	<0.2	<10	270	1.41	0.43	0.06	0.11	26.8	20.1	56
ZZ74520		0.44	0.004	0.11	3.03	4.4	<0.2	<10	240	1.96	0.44	0.05	0.17	29.6	17.8	55
ZZ74521		0.31	0.001	0.10	2.79	3.1	<0.2	<10	280	1.86	0.47	0.07	0.14	28.8	20.5	55
ZZ74522		0.29	0.001	0.10	2.85	4.6	<0.2	<10	350	1.58	0.39	0.16	0.14	29.1	21.0	58
ZZ74523		0.20	0.002	0.12	2.69	5.2	<0.2	<10	290	1.86	0.33	0.41	0.16	37.3	17.1	57
ZZ74524		0.22	0.001	0.08	2.81	6.7	<0.2	<10	230	3.39	0.34	0.27	0.14	47.0	27.4	48
ZZ74525		0.29	0.004	0.06	2.39	7.5	<0.2	<10	210	1.58	0.34	0.11	0.39	31.5	14.3	44
ZZ74526		0.23	0.001	0.08	1.44	5.1	<0.2	<10	150	0.85	0.33	0.09	0.23	25.4	7.1	25
ZZ74527		0.20	<0.001	0.07	1.98	1.6	<0.2	<10	100	2.88	0.48	0.38	0.14	72.4	7.6	16
ZZ74528		0.28	<0.001	0.09	2.52	1.4	<0.2	<10	90	4.68	0.61	0.88	0.07	100.5	8.8	19

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
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Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 18-JUL-2013
Account: RANSIL

Project: KEG - VAT

CERTIFICATE OF ANALYSIS WH13124389

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ74501		0.53	6.8	0.78	1.93	<0.05	<0.02	0.01	0.005	0.03	4.8	5.0	0.07	71	0.19	0.02
ZZ74502		14.90	60.7	6.69	15.80	0.18	0.11	<0.01	0.084	1.79	12.9	142.0	1.16	768	0.88	0.04
ZZ74503		8.22	50.3	3.83	10.25	0.08	0.03	0.04	0.044	0.78	11.2	59.9	0.49	337	0.86	0.02
ZZ74504		13.70	64.6	7.26	16.70	0.19	0.03	0.01	0.085	2.06	10.6	135.0	1.19	652	0.89	0.06
ZZ74505		14.80	65.9	6.96	16.15	0.20	0.04	0.01	0.090	1.92	12.1	138.5	1.15	727	0.81	0.05
ZZ74506		12.10	65.1	7.63	17.00	0.19	0.07	0.01	0.074	1.61	27.0	140.5	1.23	859	0.86	0.04
ZZ74507		4.21	21.5	7.08	16.10	0.14	0.03	0.02	0.062	0.18	67.1	109.5	1.12	1130	1.72	0.01
ZZ74508		9.49	33.2	5.50	12.40	0.12	0.11	0.01	0.055	0.65	37.9	111.0	1.21	678	0.88	0.01
ZZ74509		8.94	44.2	5.47	12.45	0.08	0.03	0.01	0.060	0.91	16.6	122.0	0.92	710	0.69	0.02
ZZ74510		1.53	10.3	1.46	3.62	<0.05	<0.02	0.01	0.014	0.06	6.4	14.9	0.15	134	0.42	0.02
ZZ74511		9.31	53.6	5.18	11.90	0.12	0.05	0.01	0.052	1.05	16.3	119.5	0.97	581	2.11	0.03
ZZ74512		8.16	45.5	4.73	12.70	0.15	0.06	0.01	0.059	0.70	46.7	95.6	1.02	498	4.63	0.01
ZZ74513		5.38	6.0	2.17	9.02	0.09	0.08	<0.01	0.027	0.33	41.0	71.9	0.54	367	0.16	0.01
ZZ74514		9.72	78.1	7.94	16.35	0.19	0.08	<0.01	0.087	2.05	9.6	119.0	1.21	577	2.49	0.05
ZZ74515		13.40	47.3	4.98	11.80	0.09	<0.02	<0.01	0.062	0.81	14.7	68.1	0.75	649	2.28	0.02
ZZ74516		9.47	30.7	4.72	10.75	0.06	<0.02	0.01	0.052	0.60	13.8	55.7	0.69	706	2.08	0.01
ZZ74517		14.55	47.0	5.78	13.05	0.11	<0.02	<0.01	0.063	0.82	18.5	96.2	1.01	681	2.92	0.02
ZZ74518		7.39	33.6	4.30	9.21	0.07	<0.02	<0.01	0.047	0.44	15.5	56.2	0.65	460	3.91	0.01
ZZ74519		7.53	38.0	4.93	11.45	0.07	<0.02	<0.01	0.057	0.70	13.7	57.5	0.69	432	2.11	0.02
ZZ74520		8.51	32.8	4.83	11.50	0.06	<0.02	0.03	0.063	0.59	15.4	58.8	0.74	474	1.74	0.01
ZZ74521		9.08	34.1	4.94	11.35	0.10	<0.02	0.02	0.061	0.89	14.6	64.3	0.77	439	1.50	0.02
ZZ74522		5.63	40.8	5.00	11.15	0.12	0.02	0.02	0.056	1.09	14.8	73.7	0.86	516	0.82	0.02
ZZ74523		5.53	33.5	4.56	10.85	0.11	0.05	0.02	0.058	0.99	18.5	68.4	0.85	394	0.86	0.02
ZZ74524		4.66	34.1	4.49	10.35	0.06	<0.02	0.02	0.048	0.50	19.0	80.9	0.81	942	0.63	0.01
ZZ74525		4.26	23.9	3.95	8.15	0.06	<0.02	0.02	0.049	0.37	15.6	45.0	0.67	382	1.47	0.01
ZZ74526		2.74	16.8	2.46	6.51	0.05	0.02	0.04	0.025	0.23	13.0	20.8	0.29	232	1.23	0.01
ZZ74527		3.73	8.5	2.34	7.35	0.07	0.02	0.02	0.030	0.23	28.2	41.0	0.69	444	0.32	0.01
ZZ74528		4.67	12.1	2.61	9.99	0.10	0.06	0.02	0.039	0.39	46.0	55.0	0.68	372	0.33	0.02

***** See Appendix Page for comments regarding this certificate *****

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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 18-JUL-2013
Account: RANSIL

Project: KEG - VAT

CERTIFICATE OF ANALYSIS WH13124389

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ74501		0.26	3.7	290	2.2	3.9	<0.001	0.03	0.14	0.3	<0.2	0.2	10.0	<0.01	0.01	<0.2
ZZ74502		1.20	55.9	800	22.5	150.5	<0.001	0.13	0.11	17.0	0.3	3.9	89.2	<0.01	0.02	4.1
ZZ74503		4.26	25.8	970	15.0	66.6	<0.001	0.19	0.29	5.8	0.5	2.2	58.3	0.01	0.02	0.8
ZZ74504		3.87	37.3	690	18.1	151.0	<0.001	0.24	0.14	18.5	0.3	4.0	97.3	<0.01	0.02	2.7
ZZ74505		3.25	50.1	670	18.3	144.5	0.001	0.20	0.12	17.9	0.3	4.1	100.0	<0.01	0.02	3.3
ZZ74506		2.87	66.6	710	21.5	131.0	<0.001	0.16	0.12	15.7	0.6	3.1	75.4	<0.01	0.02	8.2
ZZ74507		1.10	62.8	750	53.3	25.9	0.001	0.07	0.20	5.8	1.0	1.0	20.0	<0.01	0.02	16.8
ZZ74508		1.82	51.5	450	31.3	67.9	<0.001	0.04	0.17	8.6	0.5	1.6	32.8	<0.01	0.01	14.8
ZZ74509		3.16	50.2	370	28.5	76.8	<0.001	0.04	0.20	8.3	0.2	2.1	25.8	<0.01	0.02	4.0
ZZ74510		0.73	7.8	440	8.5	7.6	<0.001	0.05	0.24	0.9	<0.2	0.5	11.0	<0.01	0.01	0.2
ZZ74511		3.28	54.5	650	21.6	96.3	<0.001	0.08	0.12	9.8	0.8	2.1	50.8	<0.01	0.02	5.0
ZZ74512		2.41	43.9	650	31.9	96.7	0.001	0.10	0.19	8.3	2.0	2.1	46.5	0.01	0.03	13.2
ZZ74513		0.46	4.0	980	28.4	57.2	<0.001	0.01	0.14	2.8	0.3	2.6	36.8	<0.01	<0.01	20.5
ZZ74514		1.01	35.1	880	22.6	144.0	<0.001	0.29	0.12	17.5	0.8	2.9	183.0	<0.01	0.03	3.1
ZZ74515		3.78	38.5	590	24.6	74.6	<0.001	0.07	0.17	9.6	0.6	1.9	40.7	0.01	0.03	1.9
ZZ74516		3.40	29.9	540	20.0	66.2	<0.001	0.08	0.39	6.3	0.5	1.8	23.2	<0.01	0.03	1.1
ZZ74517		3.29	44.4	470	20.1	79.2	0.001	0.07	0.16	12.2	0.7	2.5	27.1	<0.01	0.02	3.9
ZZ74518		2.68	28.0	590	17.8	47.3	<0.001	0.08	0.37	5.7	0.9	1.6	17.4	<0.01	0.03	1.4
ZZ74519		4.13	34.8	540	17.2	64.9	<0.001	0.09	0.32	8.3	0.4	1.8	33.0	<0.01	0.03	1.5
ZZ74520		3.29	31.7	570	18.0	63.1	<0.001	0.06	0.33	7.8	0.6	2.0	21.2	<0.01	0.02	1.1
ZZ74521		4.01	33.6	560	16.7	75.3	<0.001	0.07	0.25	10.0	0.4	2.1	23.5	<0.01	0.02	2.2
ZZ74522		2.67	35.7	630	16.3	73.7	<0.001	0.07	0.26	10.7	0.3	1.6	36.3	<0.01	0.02	3.0
ZZ74523		2.79	29.8	880	18.8	73.9	<0.001	0.08	0.23	12.4	0.5	1.8	54.9	<0.01	0.01	6.6
ZZ74524		1.63	43.9	380	32.1	46.7	<0.001	0.02	0.24	7.3	0.2	1.3	23.4	<0.01	0.01	3.8
ZZ74525		2.85	28.3	460	17.1	38.1	0.001	0.04	0.67	5.8	0.6	1.3	17.4	<0.01	0.02	1.5
ZZ74526		2.12	13.9	520	11.9	34.5	<0.001	0.06	0.49	2.5	0.2	1.2	16.4	0.01	0.03	0.7
ZZ74527		1.35	8.2	710	27.5	39.6	<0.001	0.03	0.14	3.7	0.3	1.4	36.9	<0.01	<0.01	7.8
ZZ74528		1.43	10.8	610	33.6	55.7	<0.001	0.02	0.08	5.3	0.3	2.3	88.9	<0.01	<0.01	14.2

***** See Appendix Page for comments regarding this certificate *****

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 18-JUL-2013
Account: RANSIL

Project: KEG - VAT

CERTIFICATE OF ANALYSIS WH13124389

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ74501		0.025	0.03	0.64	19	<0.05	1.85	18	<0.5
ZZ74502		0.383	1.00	2.53	105	0.25	9.31	155	5.3
ZZ74503		0.161	0.43	4.07	60	0.24	8.53	82	1.3
ZZ74504		0.458	0.93	1.96	122	0.30	6.73	148	1.6
ZZ74505		0.416	0.89	1.75	120	0.24	7.87	146	2.0
ZZ74506		0.353	0.83	3.60	109	0.23	14.70	177	3.4
ZZ74507		0.047	0.24	7.52	70	5.07	25.4	198	1.0
ZZ74508		0.139	0.47	3.95	53	1.29	11.10	129	5.7
ZZ74509		0.190	0.49	2.96	60	0.17	3.87	128	1.3
ZZ74510		0.044	0.09	1.10	23	0.10	2.11	29	<0.5
ZZ74511		0.230	0.64	6.64	73	0.58	7.63	147	2.8
ZZ74512		0.160	0.76	12.90	101	0.19	11.95	188	2.7
ZZ74513		0.042	0.49	7.01	25	0.05	11.95	97	4.1
ZZ74514		0.411	0.91	1.66	114	0.19	7.24	158	4.4
ZZ74515		0.181	0.46	1.73	70	0.18	6.82	125	<0.5
ZZ74516		0.163	0.48	1.18	74	0.22	3.81	108	<0.5
ZZ74517		0.262	0.69	1.89	94	0.24	5.95	132	<0.5
ZZ74518		0.141	0.46	2.25	81	0.28	5.15	114	<0.5
ZZ74519		0.195	0.43	1.26	89	0.22	4.76	105	0.5
ZZ74520		0.169	0.49	1.89	85	0.25	5.16	111	0.5
ZZ74521		0.237	0.48	1.85	85	0.24	4.64	111	0.5
ZZ74522		0.250	0.45	1.53	83	0.15	5.46	117	0.9
ZZ74523		0.229	0.46	5.86	88	0.21	9.24	118	2.6
ZZ74524		0.108	0.35	2.75	59	0.12	7.18	119	0.6
ZZ74525		0.133	0.32	1.27	66	0.27	4.35	103	0.7
ZZ74526		0.108	0.19	1.87	54	0.30	2.90	57	0.8
ZZ74527		0.049	0.26	2.46	35	0.12	7.55	85	0.8
ZZ74528		0.050	0.40	4.68	36	0.09	11.85	95	3.1

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To: **SILVER RANGE RESOURCES LTD.**
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 18-JUL-2013
Account: RANSIL

Project: KEG - VAT

CERTIFICATE OF ANALYSIS WH13124389

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
ME-MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
LOG-22 SCR-41 WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-ICP21 ME-MS41

ALS Canada Ltd.
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To: **SILVER RANGE RESOURCES LTD.**
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 22-JUL-2013
Account: RANSIL

CERTIFICATE WH13124406

Project: KEG - WELD

P.O. No.: WELD

This report is for 118 Soil samples submitted to our lab in Whitehorse, YT, Canada on 9-JUL-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS41	51 anal. aqua regia ICPMS	

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
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Finalized Date: 22-JUL-2013
Account: RANSIL

Project: KEG - WELD

CERTIFICATE OF ANALYSIS WH13124406

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ44501		0.32	0.003	0.35	1.02	15.9	<0.2	<10	130	0.59	0.12	0.33	2.44	23.2	6.7	20
ZZ44502		0.29	0.001	0.19	1.10	11.0	<0.2	<10	190	0.53	0.24	0.18	1.48	17.90	4.2	29
ZZ44503		0.40	0.001	0.36	1.03	9.7	<0.2	<10	130	0.47	0.24	0.08	0.43	21.0	2.9	17
ZZ44504		0.37	0.001	0.65	1.19	11.9	<0.2	<10	110	0.37	0.26	0.20	1.90	21.7	4.9	18
ZZ44505		0.30	0.001	0.40	0.93	12.9	<0.2	<10	150	0.34	0.22	0.18	1.24	27.8	4.8	19
ZZ44506		0.25	0.001	0.84	0.84	8.8	<0.2	<10	140	0.35	0.11	0.16	0.48	9.86	4.5	12
ZZ44507		0.31	0.002	0.67	1.69	38.8	<0.2	<10	290	0.55	0.19	0.40	4.83	25.2	6.3	28
ZZ44508		0.40	0.003	0.33	0.86	9.6	<0.2	<10	100	0.25	0.15	0.09	1.52	16.15	6.2	16
ZZ44509		0.41	0.010	0.10	1.25	10.5	<0.2	<10	80	0.26	0.26	0.08	0.35	22.4	4.1	23
ZZ44510		0.44	0.002	0.43	1.69	10.8	<0.2	<10	100	0.71	0.24	0.11	0.66	29.2	3.9	27
ZZ44511		0.35	0.002	0.95	1.67	17.5	<0.2	<10	150	0.90	0.21	0.15	0.93	25.0	5.4	32
ZZ44512		0.41	0.001	0.29	1.04	9.5	<0.2	<10	80	0.30	0.15	0.30	3.07	14.65	3.1	16
ZZ44513		0.38	0.002	1.63	1.26	11.1	<0.2	<10	140	2.04	0.17	0.60	2.99	23.0	10.2	15
ZZ44514		0.28	<0.001	0.04	0.49	8.4	<0.2	<10	40	0.13	0.28	0.04	0.36	14.20	2.1	10
ZZ44515		0.36	0.002	0.47	1.51	19.6	<0.2	<10	100	0.49	0.33	0.13	0.41	20.9	6.4	27
ZZ44516		0.30	0.002	0.46	1.40	12.8	<0.2	<10	210	0.65	0.21	0.16	1.30	25.0	5.3	24
ZZ44517		0.37	<0.001	0.30	0.91	7.3	<0.2	<10	210	0.38	0.13	0.22	0.66	17.80	4.6	13
ZZ44518		0.32	0.001	0.12	1.00	7.4	<0.2	<10	140	0.31	0.13	0.18	0.39	17.50	4.0	16
ZZ44519		0.31	0.002	0.19	1.30	21.9	<0.2	<10	180	0.42	0.23	0.21	0.86	23.7	9.0	24
ZZ44520		0.31	0.002	0.65	1.35	16.7	<0.2	<10	120	0.53	0.22	0.11	1.94	20.1	5.2	24
ZZ44521		0.32	0.002	0.80	1.69	17.0	<0.2	<10	190	0.84	0.22	0.20	0.99	24.9	7.2	32
ZZ44522		0.31	0.002	1.75	1.71	10.6	<0.2	<10	100	1.21	0.23	0.14	0.49	30.4	4.7	25
ZZ44523		0.29	0.001	0.25	1.23	11.5	<0.2	<10	140	0.37	0.29	0.16	0.75	19.60	3.3	30
ZZ44524		0.27	0.002	0.52	1.24	14.3	<0.2	<10	90	0.37	0.26	0.11	0.94	21.4	4.0	27
ZZ44525		0.37	0.001	0.39	0.78	6.8	<0.2	<10	120	0.40	0.15	0.18	0.49	11.85	3.6	13
ZZ44526		0.24	<0.001	0.22	0.73	5.6	<0.2	<10	50	0.26	0.14	0.06	0.31	11.45	2.5	11
ZZ44527		0.31	0.001	0.68	1.43	9.1	<0.2	<10	140	0.88	0.19	0.20	1.88	23.0	4.2	23
ZZ44528		0.31	0.002	0.54	1.53	8.5	<0.2	<10	140	0.81	0.19	0.22	1.52	21.8	4.2	30
ZZ44529		0.26	0.002	0.54	1.01	12.7	<0.2	<10	80	0.29	0.25	0.11	0.44	14.40	2.6	23
ZZ44530		0.29	0.001	0.35	0.60	6.0	<0.2	<10	80	0.24	0.17	0.07	0.33	14.45	1.5	14
ZZ44531		0.27	<0.001	1.00	0.76	13.5	<0.2	<10	60	0.17	0.44	0.06	1.64	9.35	2.7	11
ZZ44532		0.28	<0.001	0.37	0.32	3.3	<0.2	<10	30	0.06	0.11	0.03	0.19	8.31	1.1	4
ZZ44533		0.37	0.002	0.83	2.10	26.7	<0.2	<10	170	0.74	0.18	0.11	1.21	15.05	4.9	29
ZZ44534		0.22	<0.001	0.11	0.31	3.3	<0.2	<10	30	0.06	0.06	0.04	0.13	2.66	1.0	6
ZZ44535		0.45	0.001	0.28	1.54	14.6	<0.2	<10	190	0.62	0.16	0.17	1.04	20.7	6.5	23
ZZ44536		0.22	0.001	0.25	0.81	7.8	<0.2	<10	70	0.27	0.12	0.08	0.87	11.80	2.1	13
ZZ44537		0.36	0.004	0.47	1.07	21.6	<0.2	<10	190	0.62	0.28	0.32	3.21	28.4	6.3	23
ZZ44538		0.24	<0.001	0.22	0.41	1.6	<0.2	<10	20	0.13	0.07	0.10	1.04	4.93	0.8	2
ZZ44539		0.21	0.001	0.24	0.45	6.3	<0.2	<10	40	0.10	0.14	0.04	0.29	8.41	1.3	7
ZZ44540		0.38	0.003	0.47	1.58	22.2	<0.2	<10	160	0.65	0.57	0.16	1.14	25.5	7.7	26

***** See Appendix Page for comments regarding this certificate *****

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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 22-JUL-2013
Account: RANSIL

Project: KEG - WELD

CERTIFICATE OF ANALYSIS WH13124406

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ44501		1.12	26.9	1.88	3.68	0.07	0.05	0.03	0.016	0.07	12.3	10.6	0.35	209	14.25	0.01
ZZ44502		1.83	20.0	1.47	5.06	0.05	<0.02	0.01	0.016	0.09	8.8	8.8	0.32	505	10.10	0.01
ZZ44503		1.55	16.0	1.59	5.40	<0.05	<0.02	0.03	0.019	0.06	10.3	5.7	0.18	168	6.97	<0.01
ZZ44504		2.68	13.7	1.83	6.41	<0.05	<0.02	0.03	0.017	0.04	11.8	12.4	0.31	188	7.98	<0.01
ZZ44505		1.30	17.3	1.78	4.93	<0.05	<0.02	0.02	0.018	0.05	14.4	8.2	0.23	147	7.15	<0.01
ZZ44506		1.08	21.2	1.41	3.60	<0.05	<0.02	0.05	0.011	0.03	5.3	5.9	0.16	163	4.62	0.02
ZZ44507		2.65	32.6	2.92	6.57	0.05	0.04	0.03	0.035	0.07	13.7	15.6	0.37	179	34.6	0.02
ZZ44508		1.47	14.8	1.41	4.35	<0.05	<0.02	0.02	0.014	0.05	7.7	6.2	0.16	351	6.98	0.01
ZZ44509		1.79	13.4	2.06	6.24	<0.05	<0.02	0.03	0.021	0.06	11.7	9.2	0.30	144	6.22	<0.01
ZZ44510		1.97	24.0	1.88	6.28	<0.05	<0.02	0.03	0.021	0.06	15.0	14.0	0.40	116	10.90	<0.01
ZZ44511		2.30	32.7	1.92	5.94	0.06	0.02	0.04	0.025	0.09	13.6	17.9	0.51	141	12.35	<0.01
ZZ44512		1.78	20.9	1.40	4.76	0.05	<0.02	0.02	0.012	0.07	7.2	7.9	0.25	97	12.10	0.01
ZZ44513		2.31	36.5	8.34	4.01	0.07	0.03	0.06	0.013	0.06	13.7	8.9	0.21	401	29.9	0.02
ZZ44514		2.25	9.0	1.01	5.17	<0.05	0.02	0.01	0.010	0.04	6.8	2.4	0.07	140	10.60	0.01
ZZ44515		2.80	17.8	2.05	7.87	0.05	0.04	0.03	0.023	0.08	9.9	14.8	0.34	639	11.80	<0.01
ZZ44516		1.58	28.7	1.81	5.31	<0.05	<0.02	0.03	0.017	0.08	13.2	12.1	0.34	168	7.90	<0.01
ZZ44517		1.00	15.4	1.42	3.78	<0.05	<0.02	0.03	0.015	0.04	8.8	6.6	0.18	168	4.66	0.01
ZZ44518		0.86	14.4	1.47	3.66	<0.05	<0.02	0.01	0.013	0.04	8.1	9.2	0.27	124	4.18	0.02
ZZ44519		1.57	20.7	2.69	6.00	<0.05	<0.02	0.02	0.022	0.06	12.4	11.7	0.34	400	12.45	<0.01
ZZ44520		2.31	31.0	2.62	5.29	0.05	0.02	0.04	0.023	0.07	9.6	12.8	0.33	231	12.45	0.01
ZZ44521		2.20	25.8	2.07	5.96	0.07	0.03	0.02	0.024	0.10	11.5	18.9	0.56	209	10.35	0.01
ZZ44522		1.89	41.2	1.88	6.12	0.05	<0.02	0.03	0.025	0.06	16.1	13.5	0.40	123	12.65	<0.01
ZZ44523		3.17	22.6	1.62	7.26	0.09	0.07	0.02	0.016	0.17	10.1	11.9	0.48	263	17.20	<0.01
ZZ44524		2.60	21.1	2.03	7.42	0.06	0.05	0.02	0.020	0.13	11.1	10.7	0.40	157	13.80	<0.01
ZZ44525		1.00	17.5	1.00	2.80	<0.05	<0.02	0.02	0.011	0.05	5.9	6.1	0.20	116	4.49	0.02
ZZ44526		1.07	10.2	0.93	3.39	<0.05	<0.02	0.02	0.009	0.04	5.4	5.0	0.12	91	4.00	0.01
ZZ44527		2.26	26.8	1.50	5.62	0.05	0.02	0.03	0.019	0.08	12.1	14.2	0.38	131	7.55	0.01
ZZ44528		2.20	38.0	2.30	6.05	0.05	0.04	0.04	0.014	0.09	12.5	16.4	0.51	165	20.2	0.01
ZZ44529		2.42	17.7	1.43	6.05	0.06	0.03	0.03	0.014	0.09	7.1	8.9	0.32	141	11.05	0.01
ZZ44530		1.83	11.6	0.87	4.63	0.05	0.07	0.02	0.010	0.05	7.3	4.1	0.13	31	9.33	<0.01
ZZ44531		1.14	15.6	1.14	3.49	<0.05	<0.02	0.03	0.011	0.04	4.9	7.7	0.15	77	5.94	0.01
ZZ44532		0.73	5.1	0.62	2.71	<0.05	<0.02	0.01	0.006	0.02	4.3	0.7	0.02	22	3.47	0.01
ZZ44533		2.99	38.3	3.26	6.86	0.05	0.15	0.04	0.023	0.09	9.2	18.7	0.39	154	23.0	0.01
ZZ44534		0.51	5.1	0.50	1.65	<0.05	<0.02	0.01	<0.005	0.03	1.3	2.4	0.09	71	2.24	0.02
ZZ44535		1.43	21.4	2.06	4.78	<0.05	<0.02	0.02	0.021	0.06	11.5	15.3	0.38	150	8.29	0.01
ZZ44536		1.15	14.9	1.03	3.33	<0.05	<0.02	0.02	0.011	0.04	6.5	3.5	0.11	81	5.05	0.01
ZZ44537		0.96	40.3	1.84	3.40	0.05	0.06	0.01	0.018	0.06	15.8	12.4	0.45	262	6.57	<0.01
ZZ44538		0.29	11.6	0.38	1.51	<0.05	<0.02	0.01	<0.005	0.02	2.4	0.6	0.03	22	0.56	0.03
ZZ44539		0.74	6.1	0.79	2.72	<0.05	<0.02	0.02	0.007	0.03	4.8	2.1	0.08	45	3.90	0.01
ZZ44540		1.72	43.2	2.17	4.93	<0.05	<0.02	0.02	0.026	0.07	14.1	15.3	0.41	213	11.60	0.01

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To: **SILVER RANGE RESOURCES LTD.**
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 22-JUL-2013
Account: RANSIL

Project: KEG - WELD

CERTIFICATE OF ANALYSIS WH13124406

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ44501		1.42	33.4	920	12.0	8.3	0.002	0.02	4.27	1.9	1.4	0.4	35.6	<0.01	0.08	2.3
ZZ44502		0.87	28.7	1000	15.6	14.0	0.002	0.06	2.34	0.2	1.3	0.6	20.9	<0.01	0.03	<0.2
ZZ44503		0.63	14.1	650	17.4	14.9	0.001	0.05	1.19	0.3	0.6	0.7	11.4	<0.01	0.02	<0.2
ZZ44504		1.32	13.4	310	17.9	8.2	0.001	0.02	1.18	1.4	0.6	0.7	18.3	<0.01	0.02	0.5
ZZ44505		1.23	19.1	630	12.8	9.5	0.001	0.03	2.31	1.5	0.6	0.6	21.0	<0.01	0.03	0.7
ZZ44506		0.43	13.7	350	8.3	6.1	0.002	0.03	1.54	0.8	1.2	0.3	15.1	<0.01	0.01	<0.2
ZZ44507		2.41	44.7	450	33.4	12.5	0.002	0.05	13.10	1.8	2.6	0.7	37.9	<0.01	0.15	1.5
ZZ44508		0.96	15.8	450	66.8	12.6	0.002	0.04	1.89	0.5	0.6	0.5	12.1	<0.01	0.02	<0.2
ZZ44509		1.00	17.5	520	20.8	11.4	0.002	0.02	1.49	0.9	1.1	0.7	10.3	<0.01	0.03	0.2
ZZ44510		1.70	23.2	560	16.7	12.6	0.001	0.03	1.48	1.4	1.6	0.7	15.5	0.01	0.03	0.3
ZZ44511		2.86	38.3	550	34.2	17.2	0.002	0.03	3.19	2.0	1.8	1.1	22.0	<0.01	0.04	1.3
ZZ44512		1.28	25.3	530	21.4	15.2	0.003	0.06	2.51	0.7	1.5	0.5	26.6	<0.01	0.04	<0.2
ZZ44513		1.04	71.3	980	12.3	10.8	0.006	0.09	1.96	2.0	2.9	0.3	28.6	<0.01	0.01	0.7
ZZ44514		2.26	9.7	280	15.3	11.7	0.001	0.02	1.66	0.5	0.5	0.8	8.6	<0.01	0.04	0.4
ZZ44515		3.18	29.5	850	31.2	12.7	0.002	0.03	2.27	1.4	0.8	0.8	19.3	<0.01	0.05	1.1
ZZ44516		1.10	27.5	750	16.1	14.5	0.001	0.03	2.78	1.3	1.1	0.6	19.0	<0.01	0.05	0.5
ZZ44517		0.59	14.6	640	9.9	8.0	0.001	0.04	1.53	0.9	1.0	0.4	20.4	<0.01	0.03	<0.2
ZZ44518		0.83	16.5	560	7.7	6.8	0.001	0.03	1.45	1.1	0.6	0.3	18.3	<0.01	0.02	0.4
ZZ44519		1.39	30.7	420	17.3	11.0	0.002	0.02	4.83	1.7	0.9	0.6	32.3	<0.01	0.05	1.0
ZZ44520		2.01	32.8	500	21.1	17.5	0.002	0.05	4.70	1.2	1.4	0.7	15.8	<0.01	0.04	0.4
ZZ44521		2.73	40.0	700	24.7	16.4	0.002	0.03	2.80	2.1	1.3	0.6	23.9	<0.01	0.06	1.5
ZZ44522		1.11	20.7	650	16.4	13.1	0.002	0.02	1.49	1.1	1.1	0.7	13.4	<0.01	0.04	0.2
ZZ44523		4.29	31.9	900	24.1	24.7	0.002	0.04	3.26	1.3	1.7	0.9	20.4	<0.01	0.04	1.2
ZZ44524		3.40	32.3	830	22.6	35.5	0.001	0.04	2.60	1.5	1.2	0.7	19.0	<0.01	0.05	1.2
ZZ44525		0.60	20.6	610	11.5	6.2	0.001	0.04	1.41	0.6	0.9	0.2	16.6	<0.01	0.02	0.2
ZZ44526		0.42	10.6	430	8.9	6.9	0.001	0.02	0.94	0.2	0.3	0.3	9.1	<0.01	0.01	<0.2
ZZ44527		1.24	25.7	970	14.1	15.2	0.002	0.06	1.23	0.8	1.6	0.5	20.1	<0.01	0.03	0.2
ZZ44528		2.33	37.1	870	14.3	14.9	0.003	0.05	1.51	1.3	1.4	0.6	22.0	<0.01	0.05	0.6
ZZ44529		2.42	26.6	740	21.0	11.8	0.001	0.04	2.34	0.8	1.2	0.6	13.5	<0.01	0.04	0.3
ZZ44530		3.26	14.1	440	13.1	8.6	0.001	0.02	1.76	0.8	1.0	0.8	9.2	<0.01	0.03	0.9
ZZ44531		1.61	12.2	250	62.1	11.3	0.001	0.02	1.78	0.8	0.8	0.4	9.8	<0.01	0.02	0.6
ZZ44532		0.33	3.9	190	6.9	3.0	0.002	0.01	0.93	0.2	0.2	0.4	6.3	<0.01	0.01	<0.2
ZZ44533		3.03	48.7	470	38.2	12.7	0.001	0.05	6.42	1.8	1.7	0.6	37.9	<0.01	0.05	3.4
ZZ44534		0.17	6.5	300	9.2	3.1	<0.001	0.01	0.50	0.1	0.4	<0.2	6.0	<0.01	<0.01	<0.2
ZZ44535		1.21	31.9	570	19.5	8.2	<0.001	0.02	2.84	1.7	1.3	0.4	20.5	<0.01	0.03	0.7
ZZ44536		0.38	10.4	670	19.1	6.2	0.001	0.05	1.20	0.2	0.7	0.4	10.3	<0.01	0.03	<0.2
ZZ44537		1.04	30.8	880	169.5	7.2	0.001	0.01	2.54	2.8	1.3	0.5	24.8	<0.01	0.03	3.4
ZZ44538		0.21	2.7	580	99.6	1.4	<0.001	0.02	0.12	0.1	0.3	<0.2	8.6	<0.01	<0.01	<0.2
ZZ44539		0.20	5.5	260	33.9	4.5	<0.001	0.01	0.76	0.2	0.5	0.3	6.2	<0.01	0.01	<0.2
ZZ44540		1.30	37.9	600	130.0	10.9	0.001	0.02	3.15	2.0	1.8	0.6	19.2	<0.01	0.05	0.9

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Finalized Date: 22- JUL- 2013
Account: RANSIL

Project: KEG - WELD

CERTIFICATE OF ANALYSIS WH13124406

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ44501		0.072	0.20	3.55	176	0.28	8.59	244	2.7
ZZ44502		0.025	0.28	2.29	197	0.22	5.79	120	<0.5
ZZ44503		0.027	0.35	2.17	125	0.28	3.89	58	<0.5
ZZ44504		0.043	0.23	1.24	128	0.40	3.01	177	<0.5
ZZ44505		0.050	0.17	1.94	110	0.50	4.98	128	0.5
ZZ44506		0.041	0.15	3.13	92	0.19	4.81	104	<0.5
ZZ44507		0.079	0.43	4.60	348	0.54	6.08	412	2.2
ZZ44508		0.037	0.20	1.12	121	0.37	2.35	114	<0.5
ZZ44509		0.045	0.27	1.02	109	0.32	3.00	66	<0.5
ZZ44510		0.054	0.41	2.72	179	0.38	6.35	72	<0.5
ZZ44511		0.072	0.46	3.00	262	0.39	6.94	128	1.4
ZZ44512		0.031	0.27	1.44	120	0.25	2.85	150	0.6
ZZ44513		0.033	0.20	5.79	91	0.21	40.3	1670	1.3
ZZ44514		0.067	0.22	1.07	130	0.27	1.88	64	1.3
ZZ44515		0.079	0.36	1.71	265	0.39	4.24	109	1.7
ZZ44516		0.049	0.27	2.86	140	0.34	6.13	167	0.5
ZZ44517		0.037	0.13	1.88	102	0.21	5.82	71	<0.5
ZZ44518		0.040	0.10	1.11	67	0.25	3.57	68	<0.5
ZZ44519		0.062	0.20	1.57	134	0.57	3.95	168	0.6
ZZ44520		0.062	0.29	1.42	176	0.43	4.18	137	1.0
ZZ44521		0.064	0.38	2.35	246	0.36	6.48	171	1.2
ZZ44522		0.040	0.43	6.40	125	0.41	9.26	77	<0.5
ZZ44523		0.102	0.39	2.37	277	0.31	6.72	153	3.8
ZZ44524		0.094	0.40	1.59	244	0.42	4.10	141	2.3
ZZ44525		0.029	0.16	1.57	79	0.17	3.94	98	<0.5
ZZ44526		0.024	0.13	0.76	78	0.15	2.11	48	<0.5
ZZ44527		0.032	0.26	3.21	141	0.27	8.03	109	0.6
ZZ44528		0.056	0.33	4.03	216	0.40	10.10	186	1.5
ZZ44529		0.068	0.34	1.69	212	0.27	4.24	112	1.6
ZZ44530		0.075	0.27	1.72	160	0.17	3.35	51	3.0
ZZ44531		0.045	0.17	0.66	107	0.20	1.81	91	0.7
ZZ44532		0.030	0.09	0.34	36	0.14	0.71	35	<0.5
ZZ44533		0.110	0.29	2.50	207	0.38	3.39	429	8.0
ZZ44534		0.018	0.06	0.38	50	0.06	0.78	34	<0.5
ZZ44535		0.045	0.20	1.79	132	0.26	5.54	281	0.6
ZZ44536		0.021	0.14	1.36	91	0.14	1.93	80	<0.5
ZZ44537		0.068	0.14	2.35	110	0.22	10.30	359	3.2
ZZ44538		0.020	0.03	0.61	19	<0.05	1.65	23	<0.5
ZZ44539		0.021	0.09	0.56	59	0.14	1.00	41	<0.5
ZZ44540		0.047	0.27	2.52	170	0.29	6.67	192	0.5

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
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Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 22-JUL-2013
Account: RANSIL

Project: KEG - WELD

CERTIFICATE OF ANALYSIS WH13124406

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ44541		0.20	<0.001	0.32	0.17	0.3	<0.2	<10	20	<0.05	0.02	0.06	0.60	0.92	1.0	2
ZZ44542		0.22	0.002	0.21	1.23	30.4	<0.2	<10	210	0.47	0.25	0.24	6.68	21.7	12.8	19
ZZ44543		0.15	0.001	0.07	0.21	3.7	<0.2	<10	30	0.05	0.05	0.06	2.37	3.21	1.2	4
ZZ44544		0.40	0.004	0.89	1.48	14.1	<0.2	<10	240	0.72	0.25	0.30	0.73	20.8	5.5	24
ZZ44545		0.25	0.003	2.18	1.75	24.9	<0.2	<10	300	1.24	0.54	0.27	2.18	22.4	11.3	32
ZZ44546		0.29	0.001	0.14	0.68	10.8	<0.2	<10	80	0.23	0.07	0.29	1.19	8.67	3.7	10
ZZ44547		0.18	0.001	0.40	0.22	2.5	<0.2	<10	60	0.07	0.04	0.13	2.82	2.44	1.7	3
ZZ44548		0.23	<0.001	0.15	0.77	13.8	<0.2	<10	90	0.19	0.19	0.10	0.59	18.55	3.2	16
ZZ44549		0.21	0.002	0.34	1.65	31.4	<0.2	<10	140	0.72	0.19	0.10	1.24	17.05	6.5	21
ZZ44550		0.18	0.002	0.27	0.58	8.7	<0.2	<10	80	0.20	0.23	0.06	0.96	16.15	1.8	12
ZZ44551		0.20	0.002	0.53	1.24	20.8	<0.2	<10	160	0.57	0.35	0.21	1.75	26.9	6.6	23
ZZ44552		0.31	0.002	0.59	1.39	30.1	<0.2	<10	100	0.49	0.35	0.09	4.33	17.00	5.3	20
ZZ44553		0.19	<0.001	9.63	1.14	90.6	<0.2	<10	150	0.75	0.77	0.15	3.20	14.30	2.3	19
ZZ44554		0.39	0.004	0.27	1.02	16.0	<0.2	<10	260	0.54	0.19	0.25	1.40	29.7	6.1	23
ZZ44555		0.30	0.001	0.20	0.28	6.4	<0.2	<10	40	0.07	0.16	0.05	1.11	12.70	1.3	5
ZZ44556		0.42	0.003	0.24	1.30	15.8	<0.2	<10	200	0.63	0.12	0.18	1.54	21.0	5.7	22
ZZ44557		0.31	0.002	0.63	1.80	15.8	<0.2	<10	270	0.75	0.19	0.18	1.02	30.2	6.6	27
ZZ44558		0.36	0.001	0.48	0.70	12.6	<0.2	<10	70	0.30	0.16	0.11	0.67	11.90	2.5	15
ZZ44559		0.24	<0.001	0.08	0.31	0.4	<0.2	<10	10	0.06	0.02	0.17	0.36	5.91	2.2	3
ZZ44560		0.23	<0.001	0.24	0.27	0.9	<0.2	<10	30	<0.05	0.05	0.04	0.16	5.69	0.6	3
ZZ44561		0.33	0.003	0.99	1.49	95.7	<0.2	<10	120	0.59	1.20	0.20	1.23	22.9	8.8	30
ZZ44562		0.33	0.001	0.51	1.04	30.5	<0.2	<10	100	0.35	0.61	0.11	1.57	19.85	3.4	19
ZZ44563		0.35	0.001	0.24	0.90	10.3	<0.2	<10	90	0.17	0.26	0.10	1.92	19.40	2.8	15
ZZ44564		0.35	0.003	0.46	1.57	20.3	<0.2	<10	150	0.62	0.28	0.16	0.96	26.1	6.7	27
ZZ44565		0.32	<0.001	0.28	0.59	2.9	<0.2	<10	50	0.12	0.07	0.10	0.18	9.55	1.9	7
ZZ44566		0.44	<0.001	0.77	1.00	11.8	<0.2	<10	140	0.31	0.34	0.10	1.75	24.1	3.6	17
ZZ44567		0.27	0.001	0.16	0.79	10.2	<0.2	<10	100	0.18	0.19	0.07	0.46	14.50	2.9	14
ZZ44568		0.30	0.003	0.32	1.60	19.4	<0.2	<10	160	0.49	0.29	0.21	0.62	26.8	6.2	40
ZZ44569		0.23	0.001	0.12	1.01	12.9	<0.2	<10	140	0.28	0.17	0.09	0.65	18.40	3.2	20
ZZ44570		0.40	0.002	0.20	1.34	16.7	<0.2	<10	140	0.37	0.24	0.10	0.54	22.0	4.5	23
ZZ44571		0.31	0.001	0.18	1.40	25.2	<0.2	<10	190	0.29	0.12	0.24	0.33	10.20	4.6	20
ZZ44572		0.43	0.002	0.18	1.07	13.7	<0.2	<10	150	0.38	0.17	0.13	0.51	23.0	5.9	19
ZZ44573		0.34	0.002	0.14	1.01	12.1	<0.2	<10	110	0.21	0.22	0.06	0.35	21.8	3.7	18
ZZ44574		0.37	0.002	0.24	1.01	16.2	<0.2	<10	110	0.25	0.19	0.08	0.30	19.85	3.7	21
ZZ44575		0.22	0.001	0.11	0.89	8.4	<0.2	<10	70	0.17	0.16	0.07	0.43	15.65	3.0	14
ZZ44576		0.45	0.002	0.48	1.93	16.7	<0.2	<10	140	0.71	0.16	0.17	1.78	23.7	9.5	27
ZZ44577		0.27	0.002	0.12	0.47	3.1	<0.2	<10	40	0.07	0.10	0.05	0.11	11.80	1.1	6
ZZ44578		0.25	0.001	0.16	1.42	21.6	<0.2	<10	120	0.39	0.19	0.11	0.63	19.10	5.7	26
ZZ44579		0.34	0.001	0.93	1.14	12.3	<0.2	<10	120	0.24	0.24	0.09	1.46	23.8	2.5	17
ZZ44580		0.27	<0.001	0.50	0.54	5.1	<0.2	<10	50	0.16	0.08	0.06	0.29	4.65	1.5	5

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Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ44541		0.14	2.7	0.42	1.05	<0.05	<0.02	0.02	<0.005	0.02	0.5	0.3	0.03	35	0.73	0.03
ZZ44542		2.78	32.1	2.64	6.52	<0.05	0.03	0.02	0.021	0.12	11.0	9.5	0.25	547	24.9	0.01
ZZ44543		0.81	5.2	0.61	1.29	<0.05	<0.02	0.01	<0.005	0.03	1.9	1.3	0.04	61	4.82	0.02
ZZ44544		1.69	30.3	1.71	4.51	<0.05	0.03	0.03	0.018	0.07	11.9	14.3	0.40	213	11.30	0.01
ZZ44545		3.42	39.8	2.31	5.92	<0.05	0.02	0.05	0.029	0.11	11.9	19.4	0.47	325	13.25	0.01
ZZ44546		1.27	12.4	1.17	2.58	<0.05	<0.02	0.01	0.009	0.04	4.5	6.8	0.19	92	7.79	0.02
ZZ44547		0.92	4.8	0.55	1.39	<0.05	<0.02	0.02	<0.005	0.04	1.4	1.1	0.05	149	2.71	0.02
ZZ44548		1.27	12.1	1.46	4.59	<0.05	<0.02	0.01	0.014	0.05	10.5	7.4	0.21	226	7.28	0.01
ZZ44549		1.89	35.5	2.55	4.67	<0.05	0.07	0.02	0.023	0.05	10.0	12.5	0.23	142	23.0	0.01
ZZ44550		1.25	12.4	0.93	4.07	<0.05	<0.02	0.02	0.010	0.04	9.2	2.2	0.07	76	9.45	0.01
ZZ44551		1.17	29.7	1.69	4.14	0.05	0.02	0.02	0.020	0.06	15.1	13.1	0.39	205	10.65	<0.01
ZZ44552		1.43	27.8	2.01	5.14	<0.05	0.06	0.04	0.024	0.04	10.2	13.6	0.27	98	13.70	0.01
ZZ44553		1.89	54.0	1.37	4.08	<0.05	<0.02	0.10	0.024	0.04	7.9	3.9	0.12	73	5.30	0.02
ZZ44554		0.90	32.7	1.85	3.99	0.05	0.05	0.02	0.017	0.06	17.9	11.0	0.39	248	7.47	0.01
ZZ44555		1.29	4.9	0.61	2.76	<0.05	<0.02	0.01	0.005	0.03	7.1	0.9	0.03	74	3.83	0.01
ZZ44556		1.09	26.1	2.02	3.89	<0.05	0.02	0.01	0.018	0.06	11.7	11.1	0.33	162	11.95	0.01
ZZ44557		1.45	25.8	2.35	5.10	<0.05	0.02	0.03	0.027	0.07	16.0	15.2	0.40	193	7.48	0.01
ZZ44558		1.48	17.7	1.21	3.70	<0.05	<0.02	0.01	0.012	0.06	7.0	6.1	0.17	102	9.59	0.01
ZZ44559		0.08	8.6	1.01	1.79	<0.05	<0.02	<0.01	<0.005	0.02	2.6	0.3	0.04	48	0.22	0.02
ZZ44560		0.54	2.9	0.36	1.82	<0.05	<0.02	0.01	<0.005	0.02	2.8	0.5	0.02	16	1.10	0.02
ZZ44561		2.05	50.3	2.64	5.57	<0.05	<0.02	0.01	0.040	0.10	12.8	16.4	0.49	483	19.20	0.01
ZZ44562		1.86	23.3	2.08	6.28	<0.05	0.05	0.01	0.022	0.07	11.5	8.6	0.25	119	14.50	0.01
ZZ44563		1.39	15.3	1.84	5.80	<0.05	<0.02	0.01	0.017	0.04	11.0	6.6	0.17	123	6.77	0.01
ZZ44564		1.44	21.0	2.45	5.34	<0.05	0.02	0.03	0.024	0.06	14.5	15.3	0.37	251	8.66	<0.01
ZZ44565		0.46	12.9	0.97	2.96	<0.05	<0.02	0.02	0.005	0.02	5.1	2.8	0.08	45	1.89	0.02
ZZ44566		1.59	17.1	1.84	6.15	<0.05	0.02	0.01	0.012	0.05	13.7	6.8	0.20	173	6.96	0.01
ZZ44567		1.92	12.3	1.18	4.63	<0.05	0.02	0.01	0.009	0.07	8.3	5.3	0.20	148	8.60	0.01
ZZ44568		2.10	21.0	2.95	5.88	<0.05	0.02	0.02	0.025	0.06	14.3	20.1	0.52	215	6.10	0.01
ZZ44569		1.36	11.1	1.57	5.25	<0.05	<0.02	0.02	0.013	0.05	9.7	7.1	0.21	107	7.56	0.01
ZZ44570		1.50	13.5	2.41	5.58	<0.05	<0.02	0.03	0.019	0.05	11.5	13.5	0.29	170	6.04	<0.01
ZZ44571		2.50	25.6	2.44	5.51	<0.05	0.02	0.02	0.017	0.05	5.4	8.4	0.25	139	13.25	0.02
ZZ44572		1.14	15.3	1.92	3.94	<0.05	<0.02	0.04	0.017	0.04	11.8	10.4	0.27	157	3.10	<0.01
ZZ44573		1.04	9.5	2.36	6.57	<0.05	0.02	0.02	0.013	0.05	11.5	7.4	0.19	149	6.33	<0.01
ZZ44574		1.82	12.8	1.90	5.38	<0.05	0.02	0.03	0.015	0.05	10.5	10.0	0.22	157	8.04	<0.01
ZZ44575		1.42	8.4	1.65	4.84	<0.05	<0.02	0.01	0.012	0.05	8.2	6.7	0.18	102	5.12	0.01
ZZ44576		1.55	21.7	2.99	4.38	0.05	0.03	0.04	0.024	0.07	12.3	16.7	0.54	357	9.06	<0.01
ZZ44577		0.95	5.8	0.65	3.70	<0.05	<0.02	0.01	0.005	0.03	6.2	1.6	0.06	56	2.06	0.01
ZZ44578		1.57	15.6	3.37	5.67	<0.05	0.02	0.04	0.021	0.06	10.3	11.0	0.30	350	10.30	<0.01
ZZ44579		1.55	12.5	1.73	7.71	<0.05	0.03	0.03	0.015	0.04	12.8	6.6	0.17	78	7.00	<0.01
ZZ44580		0.63	7.6	0.54	1.97	<0.05	<0.02	0.02	0.006	0.03	2.1	1.9	0.06	49	1.88	0.03

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	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ44541		0.17	1.5	210	1.0	1.6	<0.001	0.01	<0.05	0.1	0.2	<0.2	9.4	<0.01	<0.01	<0.2
ZZ44542		2.31	34.2	510	33.5	25.2	0.001	0.03	5.84	1.4	1.0	0.6	33.8	<0.01	0.07	0.9
ZZ44543		0.41	6.5	150	6.0	6.4	<0.001	0.01	1.18	0.3	0.3	<0.2	10.1	<0.01	<0.01	<0.2
ZZ44544		1.35	37.0	640	29.1	11.1	0.002	0.05	2.75	1.3	1.7	0.4	29.8	<0.01	0.04	0.4
ZZ44545		1.92	48.6	890	56.8	16.5	0.001	0.04	3.85	1.4	1.6	0.6	50.2	<0.01	0.06	0.3
ZZ44546		0.78	22.4	360	8.3	5.0	0.001	0.02	2.39	0.6	0.7	0.2	33.9	<0.01	0.02	0.2
ZZ44547		0.38	3.8	210	2.5	7.2	<0.001	0.02	0.52	0.3	0.2	<0.2	16.8	<0.01	0.01	<0.2
ZZ44548		1.02	17.8	500	18.2	13.0	<0.001	0.01	1.71	0.7	0.7	0.5	11.7	<0.01	0.03	0.2
ZZ44549		2.11	41.6	460	36.9	7.2	0.001	0.03	4.82	1.7	2.0	0.4	25.1	0.01	0.10	2.1
ZZ44550		0.30	10.5	500	29.4	6.9	0.001	0.03	1.33	0.1	0.7	0.6	10.0	<0.01	0.05	<0.2
ZZ44551		1.73	30.7	600	113.0	9.3	0.001	0.01	3.24	2.0	1.3	0.5	20.1	<0.01	0.03	1.4
ZZ44552		2.19	32.1	280	99.9	7.2	<0.001	0.02	4.06	1.7	1.3	0.7	15.3	<0.01	0.06	2.3
ZZ44553		0.26	14.3	1890	200	8.8	<0.001	0.14	1.71	0.1	2.1	0.5	17.1	<0.01	0.04	<0.2
ZZ44554		1.43	30.5	500	37.2	6.8	0.001	0.01	2.85	3.3	1.2	0.5	24.1	<0.01	0.04	3.1
ZZ44555		0.39	3.9	180	12.9	13.8	<0.001	0.01	0.61	0.3	0.4	0.5	8.2	<0.01	<0.01	<0.2
ZZ44556		1.18	34.8	540	15.3	7.4	0.001	0.02	4.18	1.9	1.2	0.4	26.1	<0.01	0.04	1.7
ZZ44557		1.50	34.1	640	19.5	10.5	0.001	0.02	2.60	2.8	1.2	0.5	19.8	<0.01	0.05	2.0
ZZ44558		0.97	17.7	450	47.0	11.3	<0.001	0.02	2.69	0.5	1.3	0.5	18.3	<0.01	0.04	<0.2
ZZ44559		0.14	2.1	770	2.3	0.8	<0.001	0.02	<0.05	0.2	0.3	<0.2	10.7	<0.01	<0.01	<0.2
ZZ44560		0.08	1.3	330	3.8	2.5	<0.001	0.01	0.16	0.1	0.2	0.2	6.7	<0.01	<0.01	<0.2
ZZ44561		1.54	39.7	960	229	14.4	0.001	0.04	6.18	1.7	3.1	1.4	29.2	<0.01	0.09	0.8
ZZ44562		2.62	23.8	360	78.6	14.6	<0.001	0.02	4.15	1.5	1.3	0.8	20.8	<0.01	0.06	1.8
ZZ44563		1.39	11.7	340	25.9	8.6	<0.001	0.02	1.29	1.0	0.9	0.6	14.5	<0.01	0.04	0.4
ZZ44564		1.56	30.4	820	53.6	11.0	<0.001	0.02	2.55	2.0	1.2	0.5	14.8	<0.01	0.04	0.9
ZZ44565		0.21	5.9	580	7.9	2.3	<0.001	0.04	0.51	0.3	0.5	0.2	9.2	<0.01	0.01	<0.2
ZZ44566		1.85	13.2	330	52.3	11.7	<0.001	0.03	1.17	1.5	0.6	0.7	14.0	<0.01	0.04	0.9
ZZ44567		1.21	17.3	340	19.3	10.0	<0.001	0.03	2.01	0.7	0.7	0.5	13.5	<0.01	0.03	0.2
ZZ44568		2.52	23.8	900	23.6	11.2	0.001	0.02	1.38	2.5	1.1	0.4	17.7	0.01	0.04	1.5
ZZ44569		0.80	12.4	410	19.9	9.2	<0.001	<0.01	1.12	0.6	0.5	0.5	11.0	<0.01	0.04	<0.2
ZZ44570		1.78	14.9	400	18.7	9.7	<0.001	0.01	1.08	1.7	0.8	0.6	11.6	<0.01	0.04	1.3
ZZ44571		1.23	32.6	360	28.2	6.1	0.001	<0.01	4.69	0.8	1.5	0.5	34.1	<0.01	0.09	0.2
ZZ44572		1.26	18.0	660	14.2	8.5	0.001	<0.01	1.09	1.4	0.8	0.4	13.1	<0.01	0.03	1.1
ZZ44573		2.37	10.2	270	12.7	9.1	<0.001	<0.01	1.10	1.6	0.6	0.8	8.6	<0.01	0.03	2.4
ZZ44574		1.99	14.0	480	15.9	9.2	<0.001	0.01	1.87	1.4	0.9	0.6	15.1	<0.01	0.04	1.2
ZZ44575		0.99	8.6	350	10.8	11.3	<0.001	<0.01	0.80	0.8	0.4	0.5	11.0	<0.01	0.03	0.2
ZZ44576		1.70	31.9	920	26.1	9.8	0.001	0.01	3.11	2.4	2.1	0.4	17.7	0.01	0.05	1.9
ZZ44577		0.47	2.9	290	6.1	4.7	<0.001	<0.01	0.31	0.3	0.3	0.4	7.6	<0.01	0.01	<0.2
ZZ44578		2.09	18.2	690	24.6	11.4	<0.001	0.01	2.34	1.8	1.3	0.5	14.3	<0.01	0.05	1.4
ZZ44579		2.01	10.1	240	23.9	11.0	<0.001	<0.01	1.62	1.5	1.4	0.8	12.4	<0.01	0.05	2.2
ZZ44580		0.52	4.6	410	18.0	3.0	<0.001	0.01	0.59	0.3	0.3	<0.2	9.4	<0.01	0.02	<0.2

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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 22-JUL-2013
Account: RANSIL

Project: KEG - WELD

CERTIFICATE OF ANALYSIS WH13124406

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ44541		0.021	0.02	0.19	16	<0.05	0.25	11	<0.5
ZZ44542		0.064	0.16	1.89	177	0.40	3.84	224	1.7
ZZ44543		0.023	0.05	0.36	40	0.08	0.58	38	<0.5
ZZ44544		0.038	0.26	4.06	164	0.38	7.71	131	1.0
ZZ44545		0.049	0.37	2.60	204	0.32	8.97	254	0.9
ZZ44546		0.035	0.15	1.25	65	0.23	2.45	248	<0.5
ZZ44547		0.025	0.05	0.21	28	0.08	0.42	57	<0.5
ZZ44548		0.045	0.15	0.82	111	0.30	2.55	97	<0.5
ZZ44549		0.059	0.19	3.22	203	0.38	4.76	344	3.6
ZZ44550		0.013	0.17	1.29	92	0.24	2.00	67	<0.5
ZZ44551		0.060	0.18	2.99	168	0.30	7.55	227	1.1
ZZ44552		0.058	0.20	1.41	184	0.25	3.08	396	3.1
ZZ44553		<0.005	0.20	5.82	88	0.15	5.62	129	<0.5
ZZ44554		0.069	0.15	3.09	124	0.27	12.95	219	2.7
ZZ44555		0.033	0.08	0.39	37	0.12	0.95	45	<0.5
ZZ44556		0.054	0.16	2.75	151	0.32	6.31	298	1.1
ZZ44557		0.053	0.22	2.68	134	0.42	8.98	222	0.9
ZZ44558		0.039	0.17	1.51	137	0.23	2.79	122	<0.5
ZZ44559		0.052	0.02	0.47	42	<0.05	1.49	20	<0.5
ZZ44560		0.016	0.05	0.25	19	<0.05	0.43	11	<0.5
ZZ44561		0.055	0.30	2.73	302	0.37	6.28	546	0.9
ZZ44562		0.083	0.19	1.48	225	0.30	3.16	266	2.6
ZZ44563		0.051	0.17	0.87	114	0.27	2.11	77	0.6
ZZ44564		0.048	0.19	1.86	157	0.31	5.81	183	0.6
ZZ44565		0.034	0.10	0.67	56	0.10	1.58	42	<0.5
ZZ44566		0.070	0.17	1.05	111	0.27	3.39	122	0.7
ZZ44567		0.056	0.16	0.93	125	0.20	2.18	165	0.9
ZZ44568		0.067	0.19	1.03	105	0.28	4.62	101	0.9
ZZ44569		0.036	0.19	1.01	112	0.29	2.49	82	<0.5
ZZ44570		0.051	0.18	0.89	100	0.29	2.93	98	0.5
ZZ44571		0.062	0.23	0.91	241	0.29	2.15	130	0.9
ZZ44572		0.030	0.15	0.67	62	0.22	3.04	72	<0.5
ZZ44573		0.067	0.14	0.51	100	0.31	1.73	72	1.2
ZZ44574		0.055	0.21	0.87	130	0.32	2.29	105	0.7
ZZ44575		0.050	0.11	0.55	79	0.29	1.64	73	<0.5
ZZ44576		0.046	0.23	1.71	138	0.40	5.90	666	1.2
ZZ44577		0.033	0.11	0.31	49	0.12	0.90	24	<0.5
ZZ44578		0.050	0.22	0.99	175	0.32	2.87	141	0.9
ZZ44579		0.064	0.21	0.86	217	0.26	2.33	140	1.2
ZZ44580		0.023	0.06	0.42	37	0.08	0.93	59	<0.5

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VANCOUVER BC V6B 1L8

Finalized Date: 22-JUL-2013
Account: RANSIL

Project: KEG - WELD

CERTIFICATE OF ANALYSIS WH13124406

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ44581		0.35	0.001	0.74	2.10	28.0	<0.2	<10	220	1.02	0.13	0.21	1.50	18.15	6.0	27
ZZ44582		0.28	0.001	0.20	1.07	7.4	<0.2	<10	120	0.34	0.10	0.16	0.45	10.95	2.4	29
ZZ44583		0.32	0.003	2.80	1.61	9.4	<0.2	<10	120	1.37	0.11	0.34	2.81	14.60	5.1	17
ZZ44584		0.38	0.001	0.42	1.44	10.1	<0.2	<10	250	0.59	0.21	0.23	2.68	18.95	5.1	29
ZZ44585		0.28	0.002	0.47	1.20	9.4	<0.2	<10	140	0.59	0.14	0.15	0.76	14.70	6.1	22
ZZ44586		0.28	0.002	0.35	1.41	19.5	<0.2	<10	120	0.44	0.26	0.09	0.70	18.60	4.0	30
ZZ44587		0.34	0.003	0.70	1.75	17.8	<0.2	<10	200	1.04	0.16	0.22	0.96	25.6	7.8	33
ZZ44588		0.40	0.003	0.65	1.83	18.3	<0.2	<10	130	0.82	0.16	0.13	0.99	19.40	6.1	36
ZZ44589		0.34	0.001	0.21	1.23	9.6	<0.2	<10	160	0.41	0.19	0.10	2.13	19.00	7.6	19
ZZ44590		0.23	0.001	0.43	1.08	8.3	<0.2	<10	130	0.42	0.17	0.09	1.65	14.85	3.1	17
ZZ44591		0.24	0.001	0.30	1.36	13.1	<0.2	<10	150	0.40	0.18	0.12	2.30	21.0	4.5	23
ZZ44592		0.49	0.002	0.25	1.54	13.0	<0.2	<10	220	0.64	0.15	0.22	1.19	29.5	6.3	26
ZZ44593		0.27	0.003	1.06	1.75	29.9	<0.2	<10	190	1.01	0.11	0.21	5.02	23.8	6.0	26
ZZ44622		0.29	0.001	0.42	1.69	16.7	<0.2	<10	120	0.45	0.12	0.10	0.82	16.05	5.7	22
ZZ44623		0.37	0.003	0.81	2.12	24.3	<0.2	<10	250	0.99	0.14	0.17	1.14	22.7	10.0	31
ZZ44624		0.39	0.002	0.35	1.95	19.8	<0.2	<10	180	0.74	0.15	0.19	1.02	19.85	8.8	28
ZZ44625		0.27	0.001	0.49	1.08	14.0	<0.2	<10	110	0.49	0.16	0.16	2.32	14.30	3.7	14
ZZ44626		0.36	0.006	0.20	1.19	16.7	<0.2	<10	210	0.64	0.12	0.31	2.46	22.3	6.6	21
ZZ44745		0.31	0.002	0.26	1.35	17.8	<0.2	<10	240	0.62	0.13	0.20	1.59	17.10	7.2	22
ZZ44746		0.29	0.003	0.62	1.53	20.4	<0.2	<10	130	0.53	0.25	0.13	1.50	18.45	7.3	24
ZZ44747		0.29	0.001	0.23	0.89	13.4	<0.2	<10	90	0.29	0.18	0.08	0.84	15.25	2.6	17
ZZ44748		0.26	0.004	0.51	1.46	17.0	<0.2	<10	120	0.40	0.24	0.11	0.43	19.65	3.7	30
ZZ44749		0.30	0.001	0.57	1.74	19.4	<0.2	<10	110	0.88	0.19	0.16	1.46	23.2	5.3	24
ZZ44750		0.32	0.004	0.44	1.71	27.9	<0.2	<10	200	0.58	0.35	0.15	1.66	19.10	5.3	33
ZZ44751		0.30	0.004	6.49	2.41	66.9	<0.2	<10	180	0.96	1.44	0.20	2.12	26.3	6.4	42
ZZ44752		0.40	0.004	0.75	1.90	29.7	<0.2	<10	170	0.83	0.21	0.11	1.12	27.2	7.4	33
ZZ44753		0.36	0.003	0.81	1.43	33.9	<0.2	<10	120	0.61	0.21	0.13	1.01	28.9	4.1	25
ZZ44754		0.30	0.001	0.37	1.31	23.7	<0.2	<10	120	0.44	0.30	0.14	2.05	19.95	4.8	24
ZZ44755		0.33	0.007	0.25	1.41	21.0	<0.2	<10	180	0.67	0.46	0.35	1.53	24.0	14.1	26
ZZ44756		0.24	<0.001	0.13	0.64	4.8	<0.2	<10	50	0.18	0.11	0.09	0.31	9.01	2.2	8
ZZ44757		0.24	0.001	0.25	0.54	2.4	<0.2	<10	50	0.35	0.04	0.24	0.18	7.86	2.1	3
ZZ44758		0.34	0.002	0.55	1.34	20.7	<0.2	<10	150	0.81	0.17	0.28	1.71	23.0	5.2	26
ZZ44759		0.33	0.003	0.82	1.80	23.4	<0.2	<10	150	0.76	0.19	0.11	1.17	20.8	7.8	30
ZZ44760		0.35	0.010	0.80	1.54	19.4	<0.2	<10	200	0.55	0.31	0.12	1.21	23.1	8.2	28
ZZ44761		0.28	0.001	0.22	0.75	9.3	<0.2	<10	130	0.19	0.22	0.11	0.84	18.55	2.9	15
ZZ44762		0.36	0.001	0.52	1.30	14.4	<0.2	<10	170	0.49	0.18	0.13	1.63	19.10	5.6	24
ZZ44763		0.43	0.001	0.22	0.81	13.3	<0.2	<10	90	0.23	0.18	0.13	3.51	15.15	3.4	14
ZZ44764		0.25	0.002	0.53	0.92	6.0	<0.2	<10	120	0.64	0.13	0.19	4.25	14.35	2.0	16

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CERTIFICATE OF ANALYSIS WH13124406

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ44581		3.15	46.3	2.77	5.86	<0.05	0.02	0.04	0.024	0.07	10.6	15.1	0.42	159	17.05	0.02
ZZ44582		2.06	14.9	1.07	4.72	0.05	0.02	0.02	0.011	0.11	6.3	9.7	0.33	114	8.13	0.01
ZZ44583		2.37	58.3	1.38	3.96	0.07	0.03	0.05	0.019	0.06	10.5	9.3	0.23	158	10.05	0.02
ZZ44584		2.15	24.3	1.86	5.34	0.05	<0.02	0.01	0.019	0.12	10.1	12.6	0.44	219	8.16	0.01
ZZ44585		1.63	21.9	1.48	4.30	<0.05	<0.02	0.03	0.016	0.08	7.8	8.5	0.30	366	7.60	0.01
ZZ44586		2.14	24.1	2.60	7.11	<0.05	0.03	0.03	0.021	0.10	10.3	10.2	0.37	159	13.90	<0.01
ZZ44587		1.76	38.4	2.37	5.18	0.07	0.03	0.03	0.025	0.11	13.6	16.2	0.54	250	11.65	0.01
ZZ44588		2.47	29.3	2.14	6.65	<0.05	0.03	0.03	0.027	0.13	10.2	17.8	0.58	200	15.75	<0.01
ZZ44589		2.51	16.9	1.98	5.75	<0.05	<0.02	0.02	0.015	0.08	9.9	7.0	0.25	517	8.13	<0.01
ZZ44590		1.60	19.3	1.57	4.33	<0.05	<0.02	0.04	0.016	0.04	7.8	3.4	0.12	200	7.99	<0.01
ZZ44591		1.31	11.8	2.44	5.58	<0.05	0.02	0.02	0.018	0.06	11.1	12.3	0.28	159	6.29	<0.01
ZZ44592		1.42	31.9	2.17	5.22	0.05	<0.02	0.03	0.022	0.07	15.2	13.3	0.43	170	6.15	<0.01
ZZ44593		1.79	49.1	2.74	4.89	0.06	0.05	0.04	0.031	0.09	12.4	14.3	0.41	136	21.1	<0.01
ZZ44622		1.44	19.5	2.00	4.55	<0.05	0.03	0.02	0.020	0.05	9.1	13.2	0.32	139	10.95	0.01
ZZ44623		2.21	38.3	2.61	5.22	<0.05	0.18	0.03	0.026	0.08	12.0	17.4	0.49	185	14.55	0.01
ZZ44624		1.98	27.1	2.61	5.03	<0.05	0.05	0.02	0.025	0.08	10.6	17.4	0.46	215	12.25	0.01
ZZ44625		1.44	27.9	1.29	3.30	<0.05	<0.02	0.02	0.013	0.04	7.7	8.1	0.22	154	6.98	0.01
ZZ44626		1.20	34.5	1.92	3.39	0.05	0.06	0.01	0.015	0.06	12.1	10.8	0.41	226	13.00	0.01
ZZ44745		2.14	22.1	2.24	4.32	<0.05	0.02	0.01	0.017	0.08	9.5	12.9	0.38	302	15.20	0.01
ZZ44746		2.18	22.3	2.67	6.26	<0.05	0.04	0.03	0.022	0.07	9.9	15.2	0.34	200	14.75	<0.01
ZZ44747		1.94	19.1	1.52	5.71	<0.05	0.02	0.02	0.016	0.07	8.3	6.2	0.20	76	15.10	<0.01
ZZ44748		2.57	21.0	1.97	7.98	<0.05	0.07	0.03	0.018	0.11	10.3	12.4	0.48	119	13.10	<0.01
ZZ44749		2.22	48.1	2.44	5.25	<0.05	<0.02	0.03	0.021	0.06	12.5	16.3	0.33	184	11.20	0.01
ZZ44750		2.29	39.9	2.77	6.52	0.05	0.04	0.03	0.023	0.10	10.5	12.9	0.52	199	24.2	<0.01
ZZ44751		3.06	68.1	2.57	7.21	0.07	0.13	0.08	0.048	0.12	13.2	33.5	0.69	144	19.00	<0.01
ZZ44752		1.98	32.3	2.34	5.53	0.05	0.07	0.04	0.028	0.08	13.6	22.6	0.44	162	10.90	<0.01
ZZ44753		2.52	28.2	2.60	5.96	0.05	0.05	0.04	0.025	0.08	16.6	13.8	0.35	121	21.2	<0.01
ZZ44754		2.54	23.5	2.66	7.24	<0.05	0.03	0.02	0.019	0.09	10.9	14.0	0.28	195	13.50	<0.01
ZZ44755		2.13	28.1	2.57	5.12	0.05	0.02	0.03	0.032	0.08	11.7	15.4	0.45	577	12.30	<0.01
ZZ44756		0.85	8.1	0.89	2.90	<0.05	<0.02	0.02	0.009	0.03	4.7	3.5	0.10	65	2.70	0.02
ZZ44757		0.44	19.1	0.48	2.00	<0.05	<0.02	0.02	<0.005	0.02	4.0	1.7	0.06	142	2.76	0.03
ZZ44758		1.75	35.5	1.96	5.41	0.06	0.02	0.02	0.025	0.15	12.6	13.4	0.41	159	20.0	<0.01
ZZ44759		1.98	27.7	2.56	5.58	0.05	0.05	0.04	0.031	0.09	10.7	21.0	0.44	206	14.30	<0.01
ZZ44760		1.34	16.5	2.52	5.19	<0.05	0.04	0.05	0.024	0.07	11.6	19.0	0.38	356	6.67	<0.01
ZZ44761		1.26	12.7	1.13	5.78	<0.05	<0.02	0.02	0.011	0.06	9.8	5.3	0.20	107	8.64	0.01
ZZ44762		1.56	18.0	1.82	5.19	<0.05	<0.02	0.03	0.020	0.07	9.6	14.1	0.31	297	7.16	0.01
ZZ44763		1.66	11.8	1.48	5.27	<0.05	<0.02	0.02	0.013	0.05	8.0	6.5	0.20	210	5.08	0.01
ZZ44764		1.88	37.9	0.80	4.17	<0.05	<0.02	0.03	0.016	0.06	8.7	6.5	0.18	68	4.49	0.01

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
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Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 22-JUL-2013
Account: RANSIL

Project: KEG - WELD

CERTIFICATE OF ANALYSIS WH13124406

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ44581		1.58	44.7	600	33.8	10.4	0.001	0.03	5.32	1.7	1.6	0.7	29.6	<0.01	0.07	0.5
ZZ44582		1.72	26.0	1090	10.9	12.8	0.001	0.07	1.48	0.5	1.0	0.5	16.0	<0.01	0.03	<0.2
ZZ44583		0.75	33.3	1440	18.6	10.2	0.008	0.10	1.60	0.9	2.4	0.3	24.2	<0.01	0.02	0.2
ZZ44584		1.04	33.3	960	19.1	23.7	0.001	0.05	1.80	0.4	1.0	0.5	25.5	<0.01	0.04	<0.2
ZZ44585		1.10	22.2	650	17.5	14.4	<0.001	0.04	1.64	0.5	1.1	0.4	17.0	<0.01	0.04	<0.2
ZZ44586		2.52	31.3	650	28.2	19.3	0.001	0.04	3.01	0.9	1.3	0.7	15.9	<0.01	0.06	0.3
ZZ44587		1.93	39.3	890	21.4	14.6	0.001	0.04	3.80	1.7	1.7	0.5	29.1	<0.01	0.06	0.9
ZZ44588		2.68	47.3	530	24.3	18.5	0.001	0.05	3.61	1.0	1.5	0.6	26.1	<0.01	0.05	0.2
ZZ44589		1.14	12.0	490	16.0	30.3	<0.001	0.03	0.77	0.8	0.4	0.6	11.7	<0.01	0.03	<0.2
ZZ44590		0.41	12.9	1110	36.7	9.8	<0.001	0.07	1.27	0.2	0.6	0.5	11.8	<0.01	0.03	<0.2
ZZ44591		1.84	16.6	440	21.3	10.1	<0.001	0.01	1.36	1.9	0.6	0.5	11.8	<0.01	0.03	1.4
ZZ44592		1.45	30.1	700	16.7	9.0	0.001	0.01	2.59	2.6	0.9	0.6	23.2	<0.01	0.04	1.8
ZZ44593		2.02	35.4	750	23.3	10.9	0.001	0.07	8.74	2.0	2.0	0.5	51.7	<0.01	0.08	1.9
ZZ44622		1.86	29.5	350	32.6	8.1	<0.001	0.01	3.33	1.5	1.0	0.5	14.7	<0.01	0.05	1.2
ZZ44623		2.02	47.0	480	34.0	10.9	0.001	0.01	4.75	2.7	1.6	0.6	24.2	<0.01	0.07	4.3
ZZ44624		1.96	41.4	560	27.1	11.0	0.001	0.01	3.99	2.2	1.3	0.5	21.9	<0.01	0.07	2.3
ZZ44625		0.56	18.3	940	61.8	7.7	0.001	0.03	2.11	0.5	1.0	0.3	20.0	<0.01	0.04	<0.2
ZZ44626		1.66	30.3	580	39.2	6.9	0.001	0.01	4.20	1.7	1.4	0.4	37.0	<0.01	0.05	2.4
ZZ44745		1.54	32.1	450	18.7	14.4	0.001	0.02	4.29	1.3	1.2	0.5	42.4	<0.01	0.05	0.8
ZZ44746		3.07	28.8	490	33.8	11.7	<0.001	0.02	3.40	1.6	1.7	0.6	19.6	<0.01	0.07	1.4
ZZ44747		2.22	20.8	460	20.2	11.0	<0.001	0.02	3.09	0.6	1.1	0.7	15.3	<0.01	0.06	0.2
ZZ44748		4.06	31.0	730	47.1	15.2	<0.001	0.02	2.62	1.5	1.2	0.9	13.7	<0.01	0.05	1.3
ZZ44749		0.69	26.5	910	39.8	11.0	0.001	0.03	2.93	0.7	1.3	0.5	26.4	<0.01	0.06	<0.2
ZZ44750		2.49	38.7	720	98.0	11.1	0.002	0.06	5.28	1.2	2.2	0.7	34.9	<0.01	0.07	0.5
ZZ44751		4.26	58.2	770	509	17.3	0.001	0.04	5.98	3.2	3.9	1.1	23.8	0.01	0.09	4.0
ZZ44752		3.10	36.5	450	60.7	11.8	<0.001	0.01	3.52	3.0	1.5	0.8	14.1	0.01	0.06	3.5
ZZ44753		2.71	21.9	510	22.2	12.0	0.001	0.03	5.33	2.1	1.3	0.6	34.7	<0.01	0.06	2.2
ZZ44754		2.19	30.0	520	38.6	25.1	<0.001	0.04	4.13	1.4	1.3	0.7	28.3	<0.01	0.07	0.4
ZZ44755		1.36	35.7	960	45.2	11.3	0.001	0.01	3.46	1.8	1.3	0.5	42.9	<0.01	0.06	0.7
ZZ44756		0.51	7.0	390	10.1	4.0	<0.001	<0.01	0.64	0.5	0.4	0.2	9.8	<0.01	0.02	<0.2
ZZ44757		0.28	6.5	610	3.8	2.9	0.001	0.02	0.75	0.4	0.8	<0.2	17.9	<0.01	0.01	<0.2
ZZ44758		1.82	35.1	700	31.1	23.6	0.001	0.06	4.11	1.4	1.6	0.6	34.0	<0.01	0.06	0.4
ZZ44759		3.00	37.4	480	39.5	15.7	0.001	0.02	3.33	2.6	1.6	0.6	19.4	0.01	0.05	2.4
ZZ44760		2.21	23.6	590	23.5	13.2	<0.001	0.01	1.76	2.6	1.1	0.6	13.6	0.01	0.05	2.5
ZZ44761		1.00	12.7	360	15.5	10.2	<0.001	0.01	1.22	0.9	0.6	0.6	13.2	<0.01	0.03	<0.2
ZZ44762		0.87	23.2	750	21.1	13.3	0.001	0.02	1.58	0.9	1.0	0.5	13.2	<0.01	0.05	<0.2
ZZ44763		1.10	10.7	390	11.5	14.6	<0.001	0.01	1.16	1.1	0.5	0.5	14.6	<0.01	0.05	0.3
ZZ44764		0.32	15.9	810	12.1	12.9	<0.001	0.02	1.80	0.5	0.8	0.5	16.1	<0.01	0.04	<0.2

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 22- JUL- 2013
Account: RANSIL

Project: KEG - WELD

CERTIFICATE OF ANALYSIS WH13124406

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ44581		0.062	0.28	3.32	256	0.32	10.35	469	1.4
ZZ44582		0.044	0.22	2.38	214	0.20	3.92	121	1.1
ZZ44583		0.024	0.24	7.02	120	0.17	19.45	333	0.9
ZZ44584		0.032	0.28	1.97	186	0.25	6.40	170	<0.5
ZZ44585		0.039	0.24	1.93	160	0.20	5.14	117	<0.5
ZZ44586		0.075	0.30	1.76	291	0.51	4.08	207	1.6
ZZ44587		0.058	0.30	2.66	231	0.38	7.44	179	1.0
ZZ44588		0.063	0.40	3.00	361	0.35	5.25	201	1.3
ZZ44589		0.054	0.23	1.04	111	0.30	2.15	136	<0.5
ZZ44590		0.010	0.19	1.94	109	0.23	2.59	171	<0.5
ZZ44591		0.050	0.17	0.98	119	0.39	2.96	199	0.5
ZZ44592		0.060	0.21	2.20	105	0.28	9.51	241	0.6
ZZ44593		0.073	0.25	4.15	173	0.31	6.41	420	2.8
ZZ44622		0.062	0.21	1.44	203	0.28	3.18	340	1.4
ZZ44623		0.068	0.32	2.94	224	0.34	5.93	398	9.2
ZZ44624		0.059	0.27	2.06	209	0.33	5.57	359	2.3
ZZ44625		0.029	0.16	2.58	114	0.22	5.27	231	<0.5
ZZ44626		0.074	0.19	3.56	199	0.31	8.42	362	3.1
ZZ44745		0.062	0.23	2.55	240	0.50	5.01	467	0.8
ZZ44746		0.076	0.31	1.79	249	0.39	4.08	318	2.1
ZZ44747		0.065	0.27	1.76	229	0.26	2.90	154	1.3
ZZ44748		0.099	0.38	2.34	283	0.36	5.33	139	3.5
ZZ44749		0.034	0.26	10.15	210	0.29	9.68	350	<0.5
ZZ44750		0.078	0.32	3.29	325	0.33	5.51	412	2.3
ZZ44751		0.092	0.46	3.03	340	0.43	9.45	493	6.9
ZZ44752		0.064	0.30	2.42	233	0.33	5.98	147	3.6
ZZ44753		0.060	0.34	2.15	217	0.41	4.39	163	2.8
ZZ44754		0.065	0.29	1.40	265	0.35	3.30	182	1.8
ZZ44755		0.045	0.24	1.94	140	0.52	6.54	238	0.6
ZZ44756		0.032	0.10	0.59	53	0.15	1.50	38	<0.5
ZZ44757		0.019	0.08	2.07	27	0.07	5.12	14	<0.5
ZZ44758		0.044	0.35	2.92	224	0.51	5.12	164	0.9
ZZ44759		0.064	0.33	1.96	212	0.35	4.73	194	2.5
ZZ44760		0.047	0.21	1.19	143	0.35	4.29	108	1.4
ZZ44761		0.047	0.17	0.87	100	0.29	2.91	71	<0.5
ZZ44762		0.033	0.24	1.56	169	0.33	4.52	152	<0.5
ZZ44763		0.052	0.25	0.99	133	0.31	2.24	129	0.6
ZZ44764		0.014	0.29	5.29	123	0.20	7.20	145	<0.5

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: KEG - WELD

Finalized Date: 22-JUL-2013
Account: RANSIL

CERTIFICATE OF ANALYSIS WH13124406

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
ME-MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
LOG-22 SCR-41 WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-ICP21 ME-MS41

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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To: **SILVER RANGE RESOURCES LTD.**
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 19-JUL-2013
Account: RANSIL

CERTIFICATE WH13124475

Project: KEG - HAMMER

P.O. No.: Batch 13-H01

This report is for 20 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 9-JUL-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70%<2mm
CRU-QC	Crushing QC Test
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test
PUL-31	Pulverize split to 85%<75 um
LOG-23	Pulp Login - Rcvd with Barcode

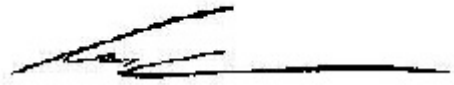
ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	VARIABLE
Ag-OG62	Ore Grade Ag - Four Acid	VARIABLE
Sn-XRF05	Sn-Trace Level XRF Analysis	XRF

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature: 

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
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To: **SILVER RANGE RESOURCES LTD.**
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VANCOUVER BC V6B 1L8

Finalized Date: 19-JUL-2013
Account: RANSIL

Project: KEG - HAMMER

CERTIFICATE OF ANALYSIS WH13124475

Sample Description	Method	WEI-21	Au-AA24	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
K285833		1.55	<0.005	0.08	6.88	2.5	540	5.71	0.75	1.05	0.05	68.7	2.1	17	15.00	2.0
K285834		1.57	<0.005	0.71	7.10	9.9	480	5.46	0.59	0.94	0.20	72.2	2.6	11	23.5	4.2
K285835		1.80	<0.005	0.10	6.85	2.2	520	6.12	0.53	1.17	0.07	66.1	2.4	12	10.40	2.1
K285836		0.26	0.016	23.8	3.81	1140	310	1.16	92.7	8.30	300	44.0	13.2	58	4.81	1880
K285837		3.07	<0.005	0.18	7.24	18.9	450	4.98	0.47	0.47	0.15	73.5	2.5	16	25.6	3.1
K285838		1.72	<0.005	0.11	7.23	3.8	510	5.19	0.51	1.22	0.04	79.5	3.0	17	26.4	6.6
K285839		5.19	<0.005	0.08	7.34	1.2	540	5.16	0.50	1.19	0.03	77.5	3.0	20	13.75	6.7
K285840		1.76	<0.005	0.14	7.03	10.2	480	5.20	0.52	1.47	<0.02	66.9	3.1	16	28.1	8.0
K285841		6.97	<0.005	0.07	7.37	1.5	540	5.02	0.52	1.06	0.02	76.4	3.0	20	13.65	6.8
K285842		3.31	<0.005	0.05	7.37	1.2	540	5.09	0.52	1.07	<0.02	77.6	4.1	20	13.50	7.6
K285843		4.65	0.013	11.20	6.96	382	330	4.77	0.73	0.30	1.07	68.5	3.8	11	28.3	17.7
K285844		4.92	<0.005	0.36	7.05	1.5	490	5.28	0.78	1.14	0.10	58.9	1.7	11	19.70	2.3
K285845		0.26	0.016	23.0	3.63	1120	330	1.03	89.2	7.95	288	41.2	12.3	54	4.56	1780
K285846		3.63	<0.005	0.21	6.80	2.8	480	5.28	0.41	1.43	0.15	64.6	3.0	15	18.25	3.8
K285847		2.24	<0.005	0.23	6.97	2.7	560	5.13	0.41	1.22	0.04	77.4	4.0	21	18.15	2.9
K285848		1.29	0.047	>100	4.14	387	210	3.24	0.89	0.82	93.9	47.5	6.9	9	16.05	204
K285849		2.26	<0.005	0.35	0.12	<5	30	0.10	0.05	21.3	0.14	1.80	0.8	1	0.59	2.8
K285850		2.27	<0.005	0.76	7.40	2.6	500	4.92	0.46	1.11	0.19	79.8	3.8	17	22.2	3.5
K285851		2.43	<0.005	0.67	7.17	1.1	500	8.56	0.66	1.22	0.22	69.0	3.1	18	15.10	9.2
K285852		3.93	<0.005	9.59	6.57	85.0	360	4.86	0.38	1.92	0.84	65.6	2.2	14	20.1	6.3

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: **SILVER RANGE RESOURCES LTD.**
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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 19- JUL- 2013
Account: RANSIL

Project: KEG - HAMMER

CERTIFICATE OF ANALYSIS WH13124475

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
K285833		1.25	23.3	0.17	2.0	0.012	3.81	33.2	79.9	0.28	286	0.29	1.77	10.1	3.2	520
K285834		1.44	25.3	0.17	2.1	0.019	4.18	35.0	135.5	0.35	994	0.31	0.36	10.6	2.9	540
K285835		1.26	23.7	0.14	2.1	0.021	3.73	31.3	51.5	0.30	286	0.28	2.00	10.7	2.4	550
K285836		5.75	11.85	0.16	1.3	26.1	1.39	23.4	31.3	2.08	2680	15.10	0.16	7.8	50.7	830
K285837		1.33	26.9	0.12	2.0	0.035	3.75	34.9	520	0.26	569	0.38	0.17	11.6	2.9	460
K285838		1.41	26.5	0.15	1.9	0.023	3.86	38.0	153.0	0.36	364	0.32	1.13	11.5	3.6	390
K285839		1.50	26.2	0.14	1.8	0.025	3.67	37.2	72.8	0.39	277	0.32	2.09	10.8	3.6	450
K285840		1.69	26.4	0.13	1.8	0.025	3.94	30.3	320	0.39	975	0.33	0.20	11.4	3.7	440
K285841		1.64	26.6	0.15	1.9	0.023	3.87	36.1	57.6	0.39	318	0.28	1.82	10.8	3.6	460
K285842		1.55	25.9	0.17	1.8	0.028	3.81	37.8	58.6	0.39	306	0.31	1.82	10.6	3.7	460
K285843		1.51	24.4	0.12	1.8	0.022	3.59	33.4	291	0.26	3190	0.29	0.09	9.7	2.9	470
K285844		1.36	24.1	0.13	1.8	0.018	4.56	28.4	77.4	0.25	1620	0.31	0.76	9.9	2.2	580
K285845		5.51	11.10	0.16	1.2	24.8	1.31	22.2	28.3	1.98	2550	14.25	0.15	7.3	47.9	790
K285846		1.61	25.3	0.10	1.8	0.034	4.11	29.8	58.9	0.40	1140	0.32	1.07	10.8	4.0	480
K285847		1.66	25.7	0.11	1.5	0.027	4.13	36.2	62.9	0.33	1040	0.34	1.09	10.6	5.6	510
K285848		3.92	20.3	0.06	0.9	0.071	2.26	23.7	83.8	0.27	65200	0.18	0.05	5.4	3.8	270
K285849		0.47	0.40	0.07	<0.1	<0.005	0.06	0.8	2.4	12.80	240	0.10	0.01	0.4	1.7	250
K285850		1.72	26.0	0.18	1.7	0.024	4.55	37.9	202	0.43	2820	0.30	0.51	10.3	5.4	520
K285851		1.54	25.0	0.15	1.5	0.017	3.65	32.4	44.0	0.35	693	0.32	2.16	12.3	4.4	630
K285852		1.76	22.3	0.14	1.8	0.013	3.81	30.5	116.5	0.55	3400	0.33	0.27	9.7	2.8	440

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VANCOUVER BC V6B 1L8

Finalized Date: 19- JUL- 2013
Account: RANSIL

Project: KEG - HAMMER

CERTIFICATE OF ANALYSIS WH13124475

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
K285833		45.9	237	<0.002	0.01	0.47	3.9	1	6.2	164.0	0.91	<0.05	17.7	0.158	1.74	6.5
K285834		97.5	316	0.002	0.27	3.79	4.6	1	9.0	86.8	0.93	<0.05	18.3	0.162	3.10	6.7
K285835		45.2	239	<0.002	0.01	0.35	4.0	1	6.5	159.5	1.00	<0.05	17.3	0.161	1.69	6.0
K285836		1500	67.8	0.020	2.73	7.64	6.6	57	229	159.0	0.56	0.58	5.5	0.257	0.65	3.2
K285837		48.9	262	<0.002	0.19	4.07	4.8	1	7.3	69.1	1.03	<0.05	18.2	0.191	1.93	8.5
K285838		44.3	261	<0.002	0.03	1.33	4.9	1	6.8	135.0	0.92	<0.05	18.8	0.194	1.84	8.0
K285839		44.7	244	0.002	0.01	0.23	5.0	1	6.3	183.5	0.92	<0.05	19.0	0.198	1.60	7.6
K285840		46.2	258	0.002	0.06	2.28	4.6	1	6.9	98.2	0.95	<0.05	16.3	0.201	2.27	7.5
K285841		45.0	259	0.002	0.01	0.44	5.1	1	6.5	170.5	0.89	<0.05	18.1	0.193	1.76	9.8
K285842		44.2	260	<0.002	0.01	0.39	4.9	1	6.5	173.0	0.88	<0.05	18.5	0.191	1.68	7.3
K285843		167.0	299	0.003	0.23	14.65	4.2	1	13.1	46.9	0.92	<0.05	16.7	0.163	2.85	8.8
K285844		50.5	316	<0.002	0.07	1.49	3.8	1	8.3	112.5	1.12	<0.05	15.7	0.144	2.98	12.6
K285845		1430	63.8	0.021	2.61	7.20	6.2	54	218	152.0	0.52	0.54	5.4	0.244	0.62	2.9
K285846		40.9	288	<0.002	0.03	0.90	5.1	1	7.1	125.0	1.01	<0.05	15.8	0.195	2.91	5.6
K285847		37.3	280	0.002	0.05	2.49	5.7	1	6.7	128.5	0.99	<0.05	18.1	0.210	2.63	7.2
K285848		4870	186.5	0.002	3.04	274	3.2	3	63.1	33.2	0.52	<0.05	10.3	0.109	2.61	5.7
K285849		5.2	2.9	<0.002	0.01	0.33	0.3	1	0.3	55.4	<0.05	<0.05	0.2	0.007	0.03	0.5
K285850		73.5	343	<0.002	0.39	4.60	5.8	1	9.7	112.5	0.92	<0.05	19.0	0.211	3.45	7.3
K285851		42.9	280	0.002	0.01	0.77	4.7	1	10.8	156.5	2.41	<0.05	16.8	0.181	2.06	7.7
K285852		491	315	<0.002	0.26	8.06	4.0	1	14.8	83.4	0.86	<0.05	16.1	0.174	3.16	6.3

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 19-JUL-2013
Account: RANSIL

Project: KEG - HAMMER

CERTIFICATE OF ANALYSIS WH13124475

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Zn-OG62	Ag-OG62	Sn-XRF05
	Analyte	V	W	Y	Zn	Zr	Zn	Ag	Sn
	Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	1	0.1	0.1	2	0.5	0.001	1	5
K285833		17	1.2	7.4	40	66.3			5
K285834		18	1.7	8.8	172	68.8			15
K285835		17	1.1	7.6	43	69.2			9
K285836		107	4.9	22.7	>10000	39.0	1.440		268
K285837		23	3.1	7.7	69	71.0			7
K285838		23	3.2	7.9	53	69.1			8
K285839		25	0.9	7.4	52	62.1			11
K285840		25	4.5	7.9	55	65.8			7
K285841		23	1.1	8.2	60	65.3			10
K285842		22	1.0	7.9	59	63.1			10
K285843		19	3.6	7.9	435	56.8			17
K285844		14	1.2	8.1	169	57.0			9
K285845		103	4.7	21.4	>10000	42.6	1.455		275
K285846		28	1.2	8.6	56	61.2			9
K285847		32	1.3	9.4	64	54.2			6
K285848		18	1.3	8.5	>10000	32.8	4.59	337	58
K285849		2	0.1	1.0	47	0.6			<5
K285850		33	3.1	9.8	127	58.3			11
K285851		28	0.9	7.6	114	43.8			16
K285852		20	1.4	8.5	381	66.0			17

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CERTIFICATE OF ANALYSIS WH13124475

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

Interference: Samples with Ca>10%on ICP-MS As. ICP-AES As results reported (5 ppm DL)
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-22	LOG-23
	PUL-31	PUL-QC	SPL-21	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Sn-XRF05	Zn-OG62		

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 22-JUL-2013
Account: RANSIL

CERTIFICATE WH13124476

Project: KEG - WELD

P.O. No.: WELD

This report is for 27 Rock samples submitted to our lab in Whitehorse, YT, Canada on 9-JUL-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70%<2mm
CRU-QC	Crushing QC Test
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test
PUL-31	Pulverize split to 85%<75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Ag-OG62	Ore Grade Ag - Four Acid	VARIABLE
Pb-OG62	Ore Grade Pb - Four Acid	VARIABLE
Ag-GRA21	Ag 30g FA-GRAV finish	WST-SIM

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

Comments: Gold assay(s) on sample L840418 is (are) reported by fire assay gravimetric method due to high silver content in sample(s) that may cause incomplete gold dissolution in aqua-regia solution

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Project: KEG - WELD

CERTIFICATE OF ANALYSIS WH13124476

Sample Description	Method	WEI-21	Au-AA24	Au-GRA22	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
L840415		1.14	0.027		>100	4.12	6600	2670	0.88	65.8	0.66	149.0	59.5	9.4	47	4.88
L840417		0.97	<0.005		3.66	4.76	160.5	900	1.51	0.40	3.13	26.0	58.6	8.7	52	6.70
L840418		0.88		1.26	>100	2.93	>10000	1010	1.35	15.00	1.13	204	36.7	7.0	31	12.50
L840419		1.48	0.013		10.55	5.36	520	1250	1.98	0.67	3.72	26.7	61.9	8.8	69	7.24
L840461		1.00	0.015		>100	0.16	790	40	0.15	293	0.10	2.93	1.42	0.6	29	0.27
L840462		1.05	<0.005		1.02	2.46	36.4	550	0.86	0.65	2.86	0.27	23.6	6.0	67	2.80
L840463		0.73	<0.005		1.74	1.91	58.8	590	0.83	1.20	5.87	0.25	18.20	7.3	87	7.13
L840464		0.40	<0.005		66.4	1.88	89.4	130	1.10	26.0	5.14	33.7	11.80	12.0	22	1.11
L840465		0.99	<0.005		1.53	2.21	6.7	170	0.40	2.28	5.21	1.97	13.85	4.0	27	0.26
L840466		0.87	<0.005		2.09	3.78	37.9	1060	1.29	0.54	3.83	0.54	51.9	4.6	75	4.37
L840467		1.13	<0.005		0.78	2.65	18.9	130	0.81	0.23	7.45	0.21	27.1	5.3	54	0.58
L840468		0.88	<0.005		1.12	4.17	4.7	510	0.95	0.42	5.27	1.35	44.1	4.4	56	3.55
L840469		0.86	<0.005		0.51	3.94	7.4	460	1.09	0.18	5.25	0.72	39.9	4.6	61	3.66
L840470		0.79	<0.005		0.87	3.22	28.9	250	0.75	0.21	0.03	0.26	17.20	0.5	34	4.13
L840471		1.27	<0.005		0.54	2.60	13.4	490	0.75	0.13	1.16	0.84	27.4	2.9	37	3.61
L840472		0.82	<0.005		0.15	0.48	9.2	90	0.10	0.16	0.09	0.13	2.29	0.6	28	0.48
L840473		0.89	0.005		1.05	3.19	1390	1500	1.61	0.12	11.85	15.00	28.8	15.1	35	1.33
L840474		0.87	<0.005		0.76	1.89	19.8	450	0.63	0.07	0.88	2.16	19.30	2.2	33	1.94
L840475		0.53	0.005		0.67	2.02	21.9	580	0.90	0.17	8.51	24.6	26.5	2.1	32	1.45
L840476		0.83	<0.005		10.50	1.42	11.1	120	1.89	0.09	4.62	17.80	19.50	15.2	18	0.56
L840477		0.97	<0.005		73.9	4.94	75.6	2430	1.49	12.65	0.85	2.67	55.4	5.4	79	2.94
L840478		1.08	0.073		86.0	3.96	>10000	3020	0.71	2.89	0.22	103.0	47.9	5.7	38	3.90
L840479		0.71	0.013		10.05	4.90	1605	3890	0.85	0.66	1.32	18.80	58.8	4.9	50	5.96
L840480		0.79	<0.005		11.40	3.48	808	1940	0.69	0.51	1.07	23.2	44.9	4.1	30	3.04
L840481		0.94	<0.005		0.70	3.06	28.6	660	0.99	0.23	2.76	6.58	33.0	7.0	49	3.23
L840482		0.88	<0.005		51.1	0.87	287	310	0.23	0.10	0.08	1.51	5.00	0.8	31	1.62
L840483		1.10	0.049		>100	4.30	250	2550	0.44	15.25	0.06	5.11	32.4	1.5	65	4.57

Comments: Gold assay(s) on sample L840418 is (are) reported by fire assay gravimetric method due to high silver content in sample(s) that may cause incomplete gold dissolution in aqua-regia solution

***** See Appendix Page for comments regarding this certificate *****

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Project: KEG - WELD

CERTIFICATE OF ANALYSIS WH13124476

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
L840415		461	4.04	11.10	0.24	3.3	0.128	2.38	28.3	94.8	3.29	1720	2.77	0.07	11.7	25.8
L840417		140.5	2.66	12.75	0.15	3.0	0.034	2.81	28.5	30.7	2.74	444	0.64	0.15	12.4	53.7
L840418		1440	14.50	6.84	0.43	1.4	<0.005	1.48	21.7	40.7	0.80	665	12.75	0.20	5.3	42.6
L840419		80.5	1.97	13.70	0.13	3.2	0.034	3.47	29.1	35.6	3.16	604	0.81	0.27	13.0	50.4
L840461		33.2	0.84	0.79	0.20	0.1	0.006	0.03	0.8	28.2	0.03	63	8.44	<0.01	0.3	3.1
L840462		35.0	1.39	8.01	0.06	1.8	0.012	1.13	14.6	12.1	1.81	228	28.4	0.06	9.4	47.6
L840463		91.4	1.96	5.73	<0.05	1.3	0.012	0.92	11.4	9.3	3.42	364	27.4	0.08	6.3	59.5
L840464		1890	9.94	10.20	0.26	1.1	0.199	0.18	7.0	26.9	5.14	1000	66.0	0.02	4.4	60.2
L840465		11.1	2.78	8.23	<0.05	0.6	0.092	0.10	6.9	21.0	1.82	657	1.03	0.01	4.3	11.4
L840466		61.7	2.92	12.50	0.13	3.0	0.018	1.82	27.5	17.3	2.60	313	22.4	0.13	9.4	39.6
L840467		63.6	2.80	8.62	0.06	2.2	0.032	0.17	17.1	19.3	4.40	441	39.6	0.04	7.6	47.8
L840468		47.3	3.78	10.05	0.13	2.8	0.016	1.96	22.3	10.9	3.08	357	31.5	0.08	7.6	25.2
L840469		11.8	1.80	9.50	0.05	2.6	0.019	2.08	18.4	9.1	3.10	351	1.77	0.08	8.1	20.6
L840470		6.6	0.92	7.93	0.07	2.3	0.010	1.63	8.4	17.3	0.26	37	2.56	0.02	6.3	2.5
L840471		27.4	1.37	8.09	0.10	2.0	0.021	1.21	17.0	13.9	2.02	250	30.4	0.02	8.0	47.5
L840472		12.9	0.78	1.94	<0.05	0.3	0.007	0.30	1.3	30.1	0.25	91	1.59	0.01	0.7	4.8
L840473		55.1	3.78	8.14	0.11	1.7	0.022	1.91	16.3	18.5	7.69	1050	17.55	0.04	6.6	42.3
L840474		41.6	1.02	5.57	0.10	1.4	0.022	0.74	11.1	11.7	0.87	160	19.75	0.02	3.8	50.3
L840475		70.6	2.01	6.78	0.13	1.6	0.028	0.91	15.8	15.4	5.34	579	22.5	0.04	4.9	61.5
L840476		326	4.41	6.63	0.14	0.9	0.120	0.14	9.7	24.5	6.53	1760	30.5	0.03	3.7	45.5
L840477		1485	5.56	11.50	0.17	3.0	0.729	3.56	36.1	42.5	1.66	389	179.5	0.08	26.8	135.0
L840478		681	4.55	8.64	0.15	2.6	0.025	2.52	23.2	79.1	2.61	1560	2.37	0.06	9.0	28.0
L840479		197.0	2.36	8.91	0.17	3.0	0.020	3.82	27.7	58.2	2.90	1250	2.28	0.13	10.9	34.1
L840480		117.0	2.18	7.28	0.14	2.3	0.018	2.19	21.3	57.7	2.79	1260	0.76	0.09	8.4	22.5
L840481		30.9	2.00	8.05	0.13	2.2	0.014	1.35	19.0	15.9	1.74	193	23.8	0.10	9.6	63.2
L840482		239	2.62	4.00	0.11	1.0	0.039	0.50	3.4	10.6	0.17	130	19.65	0.01	6.6	6.2
L840483		2780	18.75	11.35	0.45	2.8	0.514	4.16	18.8	12.7	0.33	135	45.8	0.04	16.8	19.5

Comments: Gold assay(s) on sample L840418 is (are) reported by fire assay gravimetric method due to high silver content in sample(s) that may cause incomplete gold dissolution in aqua-regia solution

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 22-JUL-2013
Account: RANSIL

Project: KEG - WELD

CERTIFICATE OF ANALYSIS WH13124476

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
L840415		380	>10000	106.5	0.002	0.04	163.5	8.4	35	71.8	100.5	0.77	1.77	8.2	0.323	1.52
L840417		290	193.5	128.0	0.003	0.69	153.0	8.1	4	7.3	185.0	0.83	0.06	8.3	0.278	1.73
L840418		690	>10000	95.6	0.002	0.20	619	7.2	16	>500	930	0.34	0.93	5.0	0.133	1.05
L840419		320	573	177.5	<0.002	0.16	52.0	10.4	3	18.3	210	0.86	0.06	9.0	0.315	2.43
L840461		520	5230	1.7	<0.002	0.03	38.8	0.2	75	19.4	8.0	<0.05	4.07	0.2	0.007	0.06
L840462		490	23.1	40.9	0.018	0.52	10.80	5.3	3	0.9	95.9	0.59	0.07	4.4	0.165	1.01
L840463		350	39.2	34.1	0.018	0.18	4.45	4.2	2	1.3	108.5	0.39	0.05	3.2	0.117	0.33
L840464		630	3090	6.6	0.008	0.14	67.6	3.6	22	22.6	97.4	0.27	0.40	2.8	0.090	0.17
L840465		260	260	3.5	<0.002	0.01	17.35	2.3	2	5.8	130.0	0.25	0.05	3.0	0.076	0.05
L840466		1830	56.1	76.7	0.019	0.65	21.7	6.4	11	1.3	201	0.66	0.16	10.2	0.231	1.78
L840467		520	21.7	6.7	0.039	0.66	10.30	5.4	9	2.4	277	0.48	0.08	5.6	0.156	0.17
L840468		760	22.6	66.6	0.043	1.72	9.50	6.0	12	1.4	199.5	0.50	0.12	7.8	0.221	0.81
L840469		210	13.7	74.2	0.004	0.64	6.44	5.4	2	1.6	184.5	0.55	0.05	6.6	0.230	0.89
L840470		80	12.4	74.9	<0.002	0.08	7.72	1.8	4	1.0	11.8	0.44	0.08	3.7	0.201	0.70
L840471		610	19.3	42.6	0.010	0.02	10.15	5.2	5	0.9	65.3	0.52	0.09	4.6	0.155	1.34
L840472		370	10.1	12.2	<0.002	<0.01	3.80	0.5	1	1.5	13.6	0.05	<0.05	0.7	0.022	0.21
L840473		240	28.0	56.2	0.008	0.03	14.60	8.0	3	0.9	390	0.42	0.19	5.1	0.157	0.77
L840474		340	13.0	31.1	0.010	0.02	6.13	2.7	2	0.6	54.1	0.25	<0.05	3.3	0.108	0.51
L840475		1090	17.7	35.3	0.031	0.05	9.23	5.1	6	1.2	181.5	0.31	0.15	4.1	0.114	0.59
L840476		770	4040	5.5	0.007	0.13	16.10	5.0	18	10.7	38.1	0.25	0.13	2.9	0.077	0.10
L840477		730	3410	115.5	0.005	0.10	30.7	6.8	13	20.0	147.5	1.58	0.07	9.0	0.256	1.53
L840478		290	7330	110.5	<0.002	0.12	257	7.0	5	103.0	122.0	0.60	0.18	7.2	0.264	1.63
L840479		380	1730	165.0	<0.002	0.04	78.4	7.9	1	34.1	142.5	0.73	0.06	8.4	0.332	2.50
L840480		270	1120	95.8	<0.002	0.02	52.6	5.9	1	23.2	99.4	0.59	<0.05	6.1	0.249	1.49
L840481		450	40.3	48.6	0.016	0.82	11.45	4.6	2	1.0	156.5	0.58	<0.05	6.1	0.167	1.11
L840482		260	5160	33.4	0.005	0.28	144.5	1.6	15	41.4	13.2	0.35	0.05	2.1	0.081	0.47
L840483		800	>10000	180.5	0.006	1.12	826	9.1	146	13.2	95.3	0.95	1.16	8.4	0.237	3.71

Comments: Gold assay(s) on sample L840418 is (are) reported by fire assay gravimetric method due to high silver content in sample(s) that may cause incomplete gold dissolution in aqua-regia solution

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 22-JUL-2013
Account: RANSIL

Project: KEG - WELD

CERTIFICATE OF ANALYSIS WH13124476

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	Pb-OG62	Ag-GRA21
	Analyte	U	V	W	Y	Zn	Zr	Ag	Pb	Ag
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	0.1	1	0.1	0.1	2	0.5	1	0.001	5
L840415		3.5	160	1.0	20.2	2070	111.5	104	1.960	
L840417		2.4	83	1.1	15.4	727	103.5			
L840418		15.0	66	1.1	30.1	4090	43.1	>1500	3.39	1540
L840419		2.5	78	1.1	18.3	1300	107.5			
L840461		1.7	54	0.3	1.3	107	3.5	222		
L840462		7.1	550	0.7	11.6	13	64.4			
L840463		5.8	471	0.9	12.5	29	46.4			
L840464		9.3	416	0.7	18.2	2090	37.6			
L840465		0.7	68	0.4	7.6	147	14.6			
L840466		11.6	516	0.9	27.9	37	105.0			
L840467		9.1	669	0.6	17.4	20	78.5			
L840468		3.5	111	0.8	18.1	174	93.6			
L840469		2.2	53	0.8	14.0	68	87.5			
L840470		1.7	47	0.9	5.6	14	71.5			
L840471		8.2	541	0.7	12.8	176	71.5			
L840472		0.8	98	0.1	1.3	42	8.6			
L840473		7.9	263	0.6	18.6	532	62.5			
L840474		6.3	451	0.4	9.2	316	52.3			
L840475		10.6	669	0.6	24.0	1650	61.4			
L840476		7.3	493	0.4	15.1	1460	38.7			
L840477		20.9	1470	1.1	24.8	1400	118.0			
L840478		4.6	153	1.1	16.3	1520	84.9			
L840479		3.3	119	0.9	16.5	990	101.0			
L840480		2.3	77	0.9	12.8	1180	75.8			
L840481		7.4	217	0.5	13.0	281	75.6			
L840482		3.9	219	0.6	3.4	244	35.7			
L840483		8.5	692	7.3	9.9	1720	106.5	165	3.49	

Comments: Gold assay(s) on sample L840418 is (are) reported by fire assay gravimetric method due to high silver content in sample(s) that may cause incomplete gold dissolution in aqua-regia solution

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
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1016-510 W HASTINGS ST
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Project: KEG - WELD

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 22-JUL-2013
Account: RANSIL

CERTIFICATE OF ANALYSIS WH13124476

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method:	REE's may not be totally soluble in this method. ME-MS61
Applies to Method:	Interference: Samples with Ca>10%on ICP-MS As. ICP-AES As results reported (5 ppm DL) ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:	CRU-31	CRU-QC	LOG-22	PUL-31
	PUL-QC	SPL-21	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:	Ag-GRA21	Ag-OG62	Au-AA24	Au-GRA22
	ME-MS61	ME-OG62	Pb-OG62	

ALS Canada Ltd.

2103 Dollarton Hwy
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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 24-JUL-2013
Account: RANSIL

CERTIFICATE WH13128440

Project: SNG PE

P.O. No.:

This report is for 8 Rock samples submitted to our lab in Whitehorse, YT, Canada on 15-JUL-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70%<2mm
SPL-21	Split sample - riffle splitter
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
PUL-31	Pulverize split to 85%<75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
ME-XRF26	Whole Rock By Fusion/XRF	XRF
OA-GRA05x	LOI for XRF	WST-SEQ

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 24-JUL-2013
Account: RANSIL

Project: SNG PE

CERTIFICATE OF ANALYSIS WH13128440

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.01	0.01	5	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
H805426		1.15	0.01	0.11	<5	60	0.06	0.03	34.8	1.05	2.47	1.2	4	0.05	4.7	0.28
H805427		0.29	0.01	0.04	<5	90	0.08	0.02	37.8	0.38	1.20	0.7	9	<0.05	2.4	0.19
H805428		0.64	0.07	0.05	<5	40	<0.05	0.16	34.9	0.39	1.67	0.5	9	<0.05	1.5	0.07
H805429		0.62	0.05	0.08	<5	60	0.08	0.08	37.5	1.17	2.39	0.7	14	0.15	1.9	0.10
H805430		0.53	0.02	0.10	<5	70	0.06	0.02	28.8	0.28	2.36	0.5	5	0.11	2.6	0.18
H805431		1.15	0.01	0.06	<5	60	0.05	0.02	38.1	0.77	0.98	0.3	5	0.08	1.1	0.07
H805432		1.21	0.11	0.78	<5	180	0.27	0.02	14.80	0.02	5.87	0.9	9	0.37	2.3	0.58
H805433		0.73	0.01	0.18	<5	80	0.13	0.02	28.5	0.05	7.14	1.1	3	0.10	3.8	0.48

***** See Appendix Page for comments regarding this certificate *****

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Finalized Date: 24-JUL-2013
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Project: SNG PE

CERTIFICATE OF ANALYSIS WH13128440

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
H805426		0.32	0.10	0.1	0.006	0.02	4.3	0.9	0.31	301	0.13	0.01	0.1	7.5	840	2.0
H805427		0.16	0.10	<0.1	<0.005	0.01	2.1	0.4	0.18	165	0.09	<0.01	0.1	2.7	160	1.0
H805428		0.17	0.17	<0.1	<0.005	0.01	3.9	0.4	0.17	125	0.07	<0.01	0.1	1.6	120	2.2
H805429		0.27	0.16	<0.1	0.005	0.03	4.5	0.7	0.10	178	0.06	<0.01	0.1	2.6	250	1.8
H805430		0.30	0.13	<0.1	<0.005	0.04	3.2	2.1	0.09	197	0.07	0.01	0.2	2.0	170	<0.5
H805431		0.19	0.13	<0.1	<0.005	0.02	1.1	0.4	0.19	56	0.08	<0.01	0.1	1.2	110	0.5
H805432		1.58	0.16	0.5	0.012	0.33	3.3	3.1	8.63	274	0.58	0.01	1.3	5.4	50	4.2
H805433		0.52	0.15	<0.1	0.016	0.08	3.9	2.0	4.72	389	0.19	0.01	0.2	2.2	50	8.3

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
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Project: SNG PE

CERTIFICATE OF ANALYSIS WH13128440

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1
H805426		1.0	<0.002	<0.01	0.37	0.7	<1	<0.2	200	<0.05	<0.05	0.2	0.005	0.02	0.9	7
H805427		0.6	0.002	<0.01	0.15	0.3	<1	<0.2	244	<0.05	<0.05	<0.2	<0.005	<0.02	0.3	3
H805428		0.6	0.002	<0.01	0.17	0.3	<1	<0.2	237	<0.05	<0.05	<0.2	<0.005	<0.02	0.3	2
H805429		1.5	0.002	<0.01	0.19	0.9	<1	<0.2	138.5	<0.05	<0.05	<0.2	<0.005	<0.02	0.3	4
H805430		1.5	<0.002	<0.01	0.30	0.5	<1	<0.2	172.0	<0.05	<0.05	<0.2	0.005	0.02	0.5	4
H805431		0.9	<0.002	<0.01	0.09	0.2	<1	<0.2	272	<0.05	<0.05	<0.2	<0.005	<0.02	0.4	2
H805432		8.9	0.002	0.04	0.60	1.1	<1	0.2	93.3	0.08	<0.05	1.1	0.032	0.06	0.7	12
H805433		2.9	<0.002	0.01	0.39	0.4	<1	<0.2	400	<0.05	<0.05	0.3	0.005	0.02	0.6	10

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
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Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 24-JUL-2013
Account: RANSIL

Project: SNG PE

CERTIFICATE OF ANALYSIS WH13128440

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-XRF26	ME-XRF26	ME-XRF26	ME-XRF26	ME-XRF26	ME-XRF26	ME-XRF26	ME-XRF26	ME-XRF26	ME-XRF26	ME-XRF26
	Analyte	W	Y	Zn	Zr	Al2O3	BaO	CaO	Cr2O3	Fe2O3	K2O	MgO	MnO	Na2O	P2O5	SiO2
	Units	ppm	ppm	ppm	ppm	%	%	%	%	%	%	%	%	%	%	%
	LOR	0.1	0.1	2	0.5	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05
H805426		0.1	10.2	14	4.2	0.17	0.01	52.4	<0.01	0.43	<0.01	0.68	0.05	0.01	0.19	4.32
H805427		<0.1	10.4	7	0.9	0.05	0.01	54.9	<0.01	0.28	<0.01	0.40	0.03	<0.01	0.03	0.96
H805428		<0.1	16.6	6	0.8	0.07	<0.01	53.0	<0.01	0.10	<0.01	0.39	0.02	<0.01	0.03	4.35
H805429		<0.1	18.1	9	2.0	0.12	<0.01	55.1	<0.01	0.16	0.01	0.25	0.03	<0.01	0.05	1.09
H805430		0.1	10.5	5	1.6	0.17	0.02	42.8	<0.01	0.26	0.03	0.23	0.03	0.01	0.04	21.8
H805431		<0.1	6.1	3	0.9	0.08	0.03	55.6	<0.01	0.11	<0.01	0.43	0.01	0.03	0.02	0.93
H805432		0.2	7.9	4	15.2	1.47	0.02	21.1	<0.01	0.87	0.40	14.15	0.04	0.04	0.01	29.2
H805433		0.1	3.7	9	1.4	0.30	0.01	40.7	<0.01	0.68	0.08	7.87	0.05	0.02	0.01	8.65

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Finalized Date: 24-JUL-2013
Account: RANSIL

Project: SNG PE

CERTIFICATE OF ANALYSIS WH13128440

Sample Description	Method	ME-XRF26	ME-XRF26	ME-XRF26	OA-GRA05x
	Analyte	SrO	TiO2	Total	LOI 1000
	Units	%	%	%	%
	LOR	0.01	0.01	0.01	0.01
H805426		0.02	0.02	99.81	41.40
H805427		0.03	0.02	99.40	42.59
H805428		0.03	0.01	99.56	41.47
H805429		0.02	0.01	99.49	42.54
H805430		0.02	0.01	99.85	34.34
H805431		0.03	0.01	99.68	42.28
H805432		0.01	0.06	99.63	32.08
H805433		0.05	0.02	99.39	40.80

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Project: SNG PE

Finalized Date: 24-JUL-2013
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CERTIFICATE OF ANALYSIS WH13128440

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

Applies to Method: Interference: Samples with Ca>10%on ICP-MS As. ICP-AES As results reported (5 ppm DL)
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

CRU-31	CRU-QC	LOG-22	PUL-31
PUL-QC	SPL-21	WEI-21	

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

ME-MS61	ME-XRF26	OA-GRA05x

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VANCOUVER BC V6B 1L8

Finalized Date: 25-JUL-2013
Account: RANSIL

CERTIFICATE WH13128441

Project: KEG - Orange

P.O. No.:

This report is for 28 Rock samples submitted to our lab in Whitehorse, YT, Canada on 15-JUL-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70%<2mm
CRU-QC	Crushing QC Test
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test
PUL-31	Pulverize split to 85%<75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Ag-OG62	Ore Grade Ag - Four Acid	VARIABLE
Pb-OG62	Ore Grade Pb - Four Acid	VARIABLE

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
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North Vancouver BC V7H 0A7
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Finalized Date: 25-JUL-2013
Account: RANSIL

Project: KEG - Orange

CERTIFICATE OF ANALYSIS WH13128441

Sample Description	Method	WEI-21	Au-AA24	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M355862		2.07	<0.005	>100	0.32	0.9	30	0.22	313	0.12	0.30	1.98	0.4	23	0.42	1775
M355863		2.50	<0.005	55.5	1.15	3.7	80	0.56	129.5	0.11	0.18	6.26	0.5	27	1.35	1015
M355864		1.66	<0.005	5.75	1.11	<0.2	70	0.51	34.5	0.02	0.09	4.81	0.3	25	1.40	20.1
M355865		1.71	<0.005	0.68	1.87	0.2	80	1.30	2.77	0.05	11.25	18.55	0.6	20	1.74	272
M355866		2.07	0.021	>100	0.16	4.7	60	0.14	2570	<0.01	0.93	0.95	0.3	32	0.19	237
M355867		1.74	0.033	>100	0.72	6.7	90	0.37	2790	<0.01	0.82	5.56	0.3	25	0.72	89.0
M355868		1.73	<0.005	24.1	0.04	<0.2	10	<0.05	68.7	<0.01	0.30	0.13	0.2	34	0.05	173.0
M355869		1.60	<0.005	59.4	0.32	5.6	40	0.32	136.0	0.01	24.9	1.39	1.1	57	0.47	892
M355934		0.96	<0.005	56.9	0.36	6.4	10	0.33	187.0	<0.01	1.79	1.35	0.5	23	0.31	1510
M355935		1.17	<0.005	0.85	1.66	0.4	10	0.94	2.55	0.03	0.07	1.02	0.7	51	0.85	14.1
M355936		1.06	<0.005	0.33	8.84	0.2	580	2.99	1.13	0.23	0.06	78.3	17.0	81	11.00	29.2
M355937		1.44	<0.005	4.84	3.36	10.0	540	2.03	11.90	0.11	2.18	47.4	3.4	65	4.31	134.0
M355938		2.02	<0.005	0.56	6.63	1.1	770	4.86	2.97	0.12	1.51	65.5	11.6	65	10.90	65.5
M355939		1.66	<0.005	0.60	5.94	<0.2	1100	3.46	0.96	8.15	0.99	64.5	11.2	81	4.95	160.0
M355940		1.76	<0.005	0.08	7.33	<5	620	5.52	1.16	17.10	0.38	60.6	10.8	59	4.10	7.5
M355941		3.70	<0.005	0.13	8.10	<0.2	300	13.05	1.43	9.81	1.62	38.9	31.5	47	8.60	8.5
M355942		2.15	<0.005	0.05	5.75	<5	330	3.66	2.99	17.30	0.44	47.1	7.7	47	5.35	2.9
M355943		1.83	<0.005	0.55	8.46	<0.2	410	11.85	1.36	7.94	2.07	92.9	16.4	73	9.50	117.0
M355944		1.54	<0.005	0.28	8.30	1.2	2330	1.63	0.45	2.18	17.35	76.5	9.7	74	26.1	236
M650163		1.98	<0.005	0.08	8.47	<5	1640	7.82	2.85	12.10	0.43	73.0	12.5	69	7.92	39.3
M650164		1.62	<0.005	0.32	8.65	0.3	1230	2.73	0.47	6.93	0.23	49.9	8.6	108	8.32	174.5
M650165		1.49	<0.005	0.25	6.98	0.2	510	2.10	0.97	9.55	0.22	62.0	35.2	74	8.75	287
M650166		1.95	<0.005	0.46	9.50	<0.2	360	13.10	4.35	7.29	0.29	32.6	28.1	57	21.4	328
M650167		2.27	<0.005	0.32	9.35	4.3	1630	7.84	2.04	7.62	0.14	41.3	15.6	75	14.95	155.0
M650168		2.00	<0.005	0.22	7.59	1.3	790	2.47	0.37	3.72	0.07	36.3	10.3	59	6.13	73.6
M650169		1.49	<0.005	0.07	8.44	<5	770	4.19	1.28	12.05	0.23	63.9	17.0	71	5.46	24.5
M355957		1.26	<0.005	0.19	7.95	0.8	800	1.55	0.62	2.77	0.16	55.5	7.1	5	4.42	4.2
M355958		1.25	<0.005	0.11	6.53	1.3	120	6.79	12.05	0.35	0.05	4.76	0.6	11	7.34	7.2

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VANCOUVER BC V6B 1L8

Finalized Date: 25- JUL- 2013
Account: RANSIL

Project: KEG - Orange

CERTIFICATE OF ANALYSIS WH13128441

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
M355862		1.29	1.55	0.06	0.1	0.665	0.15	1.1	14.5	0.02	47	0.92	0.01	0.3	1.5	40
M355863		1.19	5.78	<0.05	0.2	0.555	0.61	3.2	15.5	0.05	49	1.28	0.02	0.7	1.4	60
M355864		0.56	5.43	0.07	0.2	0.112	0.62	2.4	16.9	0.03	67	1.93	0.01	0.5	1.6	40
M355865		0.59	5.64	0.12	0.4	0.027	0.72	8.2	37.2	0.03	80	0.33	0.02	1.2	1.4	130
M355866		1.60	1.09	0.22	<0.1	7.18	0.07	0.5	9.5	0.01	54	1.28	<0.01	0.2	1.7	30
M355867		1.37	4.11	0.26	0.1	9.29	0.36	2.9	8.8	0.03	64	5.95	0.01	0.6	1.6	30
M355868		0.47	0.20	<0.05	<0.1	0.203	0.01	<0.5	11.1	<0.01	42	0.36	<0.01	0.1	1.5	10
M355869		0.80	1.52	<0.05	0.1	0.483	0.16	0.7	15.5	0.01	57	0.68	0.01	0.2	2.1	50
M355934		1.59	1.66	0.05	<0.1	0.740	0.13	0.7	22.6	0.01	54	1.57	0.01	0.1	1.7	300
M355935		0.99	10.10	<0.05	0.1	0.027	0.32	0.5	15.0	0.21	150	0.41	0.15	0.1	1.9	110
M355936		4.78	23.7	0.11	0.1	0.078	2.39	37.2	145.0	1.09	527	0.37	0.55	16.7	37.8	500
M355937		1.26	13.05	0.09	0.3	0.112	1.62	27.0	23.9	0.15	167	11.95	0.02	4.8	22.3	260
M355938		2.66	18.85	0.12	0.7	0.047	2.94	37.3	47.2	0.27	159	14.85	0.10	8.4	76.5	540
M355939		5.59	15.85	<0.05	0.5	0.077	0.54	39.7	27.5	1.33	2320	6.93	0.16	8.7	43.3	1260
M355940		3.42	19.90	0.05	0.9	0.072	0.40	35.5	24.3	1.82	699	1.09	0.63	8.4	33.0	410
M355941		2.90	29.0	0.09	0.5	0.124	0.54	20.5	56.7	0.92	850	2.71	1.59	11.6	86.7	590
M355942		2.56	16.35	0.11	0.7	0.050	0.15	28.5	33.9	2.14	407	0.37	0.43	8.0	23.5	300
M355943		4.89	21.8	0.12	0.9	0.078	1.11	49.7	61.9	1.81	641	2.44	0.68	28.4	37.1	930
M355944		3.00	16.55	0.20	0.7	0.042	6.45	39.4	97.2	0.81	281	46.3	1.60	16.2	22.5	310
M650163		3.98	20.9	0.12	0.6	0.064	1.17	43.8	52.2	1.95	709	0.95	0.94	11.6	37.1	600
M650164		4.70	25.1	0.10	0.6	0.034	1.75	27.1	79.8	1.50	353	8.02	1.66	12.4	24.3	1520
M650165		7.45	18.40	0.06	0.8	0.083	0.96	31.5	61.7	2.82	817	2.30	1.32	25.9	60.4	1270
M650166		5.84	31.5	<0.05	0.3	0.051	1.33	15.6	87.2	1.07	622	5.06	1.24	17.8	45.5	700
M650167		5.39	41.7	0.15	0.8	0.093	3.14	19.4	97.9	0.95	671	1.02	0.68	20.1	28.3	440
M650168		3.58	17.20	0.14	0.2	0.029	1.38	19.5	42.5	0.70	171	4.45	1.47	6.4	26.6	580
M650169		4.27	24.3	0.16	0.5	0.084	1.03	36.2	50.0	1.70	679	0.52	0.85	11.2	40.0	430
M355957		3.56	18.55	0.17	2.7	0.045	2.31	26.3	53.4	0.81	732	0.55	2.14	9.9	1.7	630
M355958		0.89	23.0	0.10	0.9	0.037	3.48	2.5	44.1	0.10	659	0.19	1.70	10.4	1.1	740

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VANCOUVER BC V6B 1L8

Finalized Date: 25- JUL- 2013
Account: RANSIL

Project: KEG - Orange

CERTIFICATE OF ANALYSIS WH13128441

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
M355862		7170	11.9	0.002	0.38	3.52	0.1	25	19.8	2.9	<0.05	2.00	0.4	0.005	0.47	0.3
M355863		2920	49.2	<0.002	0.23	5.40	0.4	11	22.7	4.2	0.08	0.70	1.2	0.011	0.64	0.3
M355864		151.0	50.8	<0.002	0.01	4.87	0.3	<1	2.4	3.3	<0.05	0.21	1.0	0.010	0.26	1.0
M355865		47.5	45.5	<0.002	<0.01	0.84	0.7	<1	3.6	8.9	0.09	<0.05	3.1	0.028	0.42	1.2
M355866		>10000	6.3	<0.002	0.43	49.1	0.1	54	5.7	6.5	<0.05	9.39	0.2	<0.005	1.33	0.3
M355867		>10000	31.8	0.002	0.59	40.0	0.4	98	3.3	9.9	0.05	11.90	1.0	0.011	0.91	0.5
M355868		991	1.0	<0.002	0.03	1.04	<0.1	3	1.3	0.6	<0.05	0.41	<0.2	<0.005	0.04	0.1
M355869		>10000	11.3	<0.002	0.43	14.45	0.1	23	1.7	2.0	<0.05	0.82	0.3	<0.005	0.77	5.0
M355934		3470	8.5	<0.002	0.07	8.44	0.1	18	18.0	2.3	<0.05	1.19	0.3	<0.005	0.10	49.1
M355935		64.4	29.7	0.002	0.02	0.23	2.5	<1	1.9	12.6	0.05	<0.05	<0.2	0.042	0.19	1.6
M355936		32.1	129.5	<0.002	0.09	0.09	16.3	1	3.1	82.5	1.09	<0.05	12.3	0.404	0.69	2.9
M355937		210	138.5	0.006	0.02	12.65	5.3	1	12.2	9.1	0.29	0.14	7.0	0.142	0.87	2.7
M355938		27.4	255	0.003	0.01	0.59	8.9	1	10.3	22.2	0.98	<0.05	10.4	0.206	1.56	8.4
M355939		17.2	41.3	0.014	1.87	0.15	9.9	5	11.3	277	0.59	0.08	9.9	0.260	0.34	5.7
M355940		6.8	37.0	0.002	0.03	0.41	10.3	1	27.0	542	0.55	<0.05	8.2	0.257	0.18	2.3
M355941		11.2	31.7	0.005	0.01	0.54	7.7	1	35.6	599	2.16	<0.05	5.1	0.214	0.42	3.5
M355942		4.4	13.3	0.003	<0.01	1.07	7.3	<1	22.0	511	0.54	<0.05	7.1	0.210	0.08	1.8
M355943		11.7	60.5	0.009	1.90	0.06	18.4	9	14.9	341	2.04	0.08	12.8	0.784	0.71	4.9
M355944		44.9	399	0.062	0.69	0.07	12.6	4	9.0	536	1.18	<0.05	9.4	0.481	2.30	9.5
M650163		9.8	71.3	0.002	0.21	0.96	11.9	1	26.9	800	1.58	<0.05	9.9	0.335	0.56	3.2
M650164		25.2	64.8	0.011	0.83	0.15	12.6	3	6.5	856	0.86	<0.05	7.9	0.382	0.97	3.8
M650165		11.6	102.0	0.005	1.73	0.11	26.5	3	22.5	521	1.44	<0.05	4.5	1.260	0.67	1.1
M650166		25.1	55.5	0.007	2.24	0.05	13.1	4	6.1	561	1.49	0.11	3.9	0.482	0.84	1.5
M650167		26.7	123.5	<0.002	0.97	0.14	17.2	3	11.0	1895	1.81	0.06	7.9	0.508	1.14	2.9
M650168		19.3	78.1	0.004	0.51	0.09	8.2	2	1.5	479	0.47	<0.05	6.3	0.208	0.68	2.2
M650169		10.4	54.0	<0.002	0.05	0.43	13.9	1	19.9	611	0.82	<0.05	8.9	0.310	0.50	2.7
M355957		33.6	116.0	<0.002	0.04	0.28	13.0	1	2.2	314	0.75	<0.05	8.9	0.310	0.72	1.8
M355958		23.2	249	<0.002	<0.01	0.27	1.4	<1	13.1	67.6	2.27	<0.05	1.0	0.026	1.45	2.6

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 25-JUL-2013
Account: RANSIL

Project: KEG - Orange

CERTIFICATE OF ANALYSIS WH13128441

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	Pb-OG62
	Analyte	V	W	Y	Zn	Zr	Ag	Pb
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	1	0.1	0.1	2	0.5	1	0.001
M355862		2	3.0	0.2	61	2.1	132	
M355863		5	50.2	0.5	52	4.8		
M355864		4	0.6	0.5	35	5.8		
M355865		4	1.7	1.5	391	11.0		
M355866		2	0.1	0.1	185	0.7	478	1.950
M355867		5	0.7	0.3	236	3.1	1150	3.34
M355868		<1	0.1	<0.1	40	<0.5		
M355869		1	0.2	0.2	2610	1.6		1.130
M355934		2	0.3	0.2	268	1.4		
M355935		9	0.3	0.5	59	1.6		
M355936		82	0.7	8.9	107	3.3		
M355937		196	2.6	6.4	187	13.1		
M355938		297	2.3	12.2	306	18.2		
M355939		225	1.8	26.2	203	12.5		
M355940		83	15.4	13.8	119	21.3		
M355941		61	11.4	13.8	207	10.0		
M355942		67	67.8	9.5	108	15.6		
M355943		222	6.9	29.8	171	18.5		
M355944		229	1.5	23.6	76	19.5		
M650163		104	5.1	15.5	133	13.4		
M650164		223	2.4	17.5	82	15.4		
M650165		238	5.2	26.2	131	15.5		
M650166		102	0.8	10.4	76	6.6		
M650167		123	1.6	15.5	64	18.7		
M650168		98	0.8	9.6	45	6.1		
M650169		80	78.2	15.0	124	13.3		
M355957		75	0.8	23.4	74	82.9		
M355958		2	2.6	3.5	37	14.1		

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To: **SILVER RANGE RESOURCES LTD.**
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: KEG - Orange

Finalized Date: 25-JUL-2013
Account: RANSIL

CERTIFICATE OF ANALYSIS WH13128441

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method:	REE's may not be totally soluble in this method. ME-MS61
Applies to Method:	Interference: Samples with Ca>10%on ICP-MS As. ICP-AES As results reported (5 ppm DL) ME-MS61

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.			
	CRU-31	CRU-QC	LOG-22	PUL-31
	PUL-QC	SPL-21	WEI-21	
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.			
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62			

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 24-JUL-2013
Account: RANSIL

CERTIFICATE WH13128442

Project: KEG - Vat

P.O. No.:

This report is for 19 Rock samples submitted to our lab in Whitehorse, YT, Canada on 15-JUL-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70%<2mm
CRU-QC	Crushing QC Test
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test
PUL-31	Pulverize split to 85%<75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
W-XRF05	Trace Level W XRF Analysis	XRF

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
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Finalized Date: 24-JUL-2013
Account: RANSIL

Project: KEG - Vat

CERTIFICATE OF ANALYSIS WH13128442

Sample Description	Method	WEI-21	Au-AA24	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M355945		1.33	0.078	0.18	0.19	20.9	10	0.21	358	0.06	<0.02	0.33	0.9	56	0.12	33.9
M355946		0.99	0.022	0.55	1.02	11.7	30	1.87	176.5	0.04	<0.02	3.33	0.3	34	1.87	4.1
M355947		1.67	<0.005	0.18	7.59	6.4	240	14.90	14.85	8.47	0.14	99.7	18.6	82	7.09	57.9
M355948		1.37	<0.005	<0.01	6.79	<5	430	4.95	2.93	16.40	0.13	72.9	15.4	53	4.33	3.2
M355949		1.23	<0.005	0.02	6.03	9	240	2.37	1.92	20.8	0.20	78.4	13.3	51	3.68	3.8
M355950		0.97	<0.005	0.14	8.89	23	280	14.80	1.14	13.45	0.02	129.0	20.2	69	9.12	24.5
M650151		1.29	<0.005	0.04	4.93	8.8	170	10.65	0.21	1.62	<0.02	3.81	1.9	15	16.70	11.7
M650152		1.34	<0.005	0.01	7.28	7.8	300	11.50	0.94	1.23	0.03	7.68	1.1	13	22.5	3.9
M650153		1.18	<0.005	1.31	4.98	13.5	150	3.27	19.30	0.09	0.14	38.7	2.4	17	6.50	342
M650154		1.55	0.007	2.58	3.56	29.1	150	2.08	85.2	0.14	0.07	27.8	1.7	26	3.77	19.3
M650155		1.54	<0.005	0.03	4.60	6	170	6.56	0.78	23.0	0.06	26.6	3.5	18	5.77	9.7
M650156		1.43	0.034	0.23	8.80	<5	80	67.3	82.9	13.95	<0.5	88.0	11.6	47	10.95	37.9
M650157		1.25	<0.005	0.02	6.65	2.4	130	4.12	2.35	0.61	0.03	10.45	0.5	12	4.53	2.8
M650158		2.53	<0.005	0.07	8.69	8.3	390	7.82	1.04	9.06	0.11	111.0	21.1	107	7.73	44.8
M650159		1.80	<0.005	0.03	8.14	14.1	430	10.95	4.85	9.45	0.06	137.0	17.5	66	7.38	25.5
M650160		1.65	<0.005	0.02	8.25	10.8	340	8.12	3.62	9.85	0.04	115.5	16.1	61	7.52	36.5
M650161		1.37	<0.005	0.03	1.27	14	40	1.02	0.63	29.6	0.06	21.9	4.3	13	2.48	6.3
M650162		1.27	<0.005	0.05	6.17	5.6	470	9.88	5.46	1.95	0.03	23.5	3.3	24	5.96	23.6
M355959		1.53	0.008	0.34	9.44	86.9	290	9.70	16.60	6.14	<0.02	105.5	16.9	98	23.8	123.5

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 24- JUL- 2013
Account: RANSIL

Project: KEG - Vat

CERTIFICATE OF ANALYSIS WH13128442

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
M355945		1.14	1.21	<0.05	<0.1	0.014	0.02	<0.5	4.6	0.07	54	1.57	0.02	0.1	1.8	20
M355946		0.53	4.14	<0.05	0.2	<0.005	0.75	1.7	18.0	0.02	48	0.56	0.13	0.5	1.6	70
M355947		4.92	25.1	0.25	1.1	0.168	1.17	53.2	38.5	1.48	1000	0.28	0.61	23.4	36.9	620
M355948		3.76	19.50	0.18	0.8	0.098	0.98	37.8	35.2	2.31	499	0.10	0.77	15.1	27.1	380
M355949		3.07	18.95	0.17	1.1	0.067	0.53	41.8	16.6	1.29	415	0.10	0.40	15.1	23.5	380
M355950		4.65	28.5	0.27	0.5	0.108	0.91	68.1	59.7	1.16	991	0.30	0.37	20.8	41.9	450
M650151		0.56	15.75	<0.05	0.3	<0.005	2.95	2.1	26.6	0.04	100	0.18	1.17	1.7	3.6	870
M650152		0.58	20.2	0.05	0.8	0.007	4.12	3.9	19.7	0.06	554	0.15	2.28	4.9	1.6	430
M650153		2.81	23.3	0.13	1.5	0.230	2.35	19.7	31.9	0.20	91	2.36	0.05	5.3	2.5	370
M650154		1.49	13.00	0.09	1.1	0.025	1.71	14.2	27.8	0.07	84	0.73	0.97	2.1	2.7	370
M650155		0.93	13.40	0.06	0.6	0.032	0.94	14.1	14.1	0.62	172	0.11	0.73	6.9	4.1	300
M650156		5.11	40.0	0.24	1.0	0.424	0.45	46.1	64.1	1.06	2310	0.65	0.83	29.8	19.0	1010
M650157		0.43	18.70	0.05	1.0	0.006	4.56	5.3	36.8	0.04	416	0.15	2.33	4.0	1.0	200
M650158		5.35	26.5	0.26	0.5	0.089	2.38	57.4	69.4	1.68	829	0.34	1.21	27.2	60.5	510
M650159		4.40	23.7	0.27	0.5	0.135	1.90	71.4	70.1	1.26	879	0.20	0.94	21.1	36.0	390
M650160		4.80	24.7	0.25	0.6	0.184	1.65	57.9	52.2	1.03	1140	0.21	1.10	20.1	30.7	410
M650161		0.83	3.76	0.06	0.2	0.028	0.27	11.7	18.0	2.65	262	0.08	0.20	4.5	4.2	260
M650162		1.15	18.75	0.09	0.5	0.007	1.85	11.3	26.9	0.23	143	0.19	1.94	6.7	6.8	1170
M355959		5.95	30.9	0.26	0.5	0.105	0.87	50.1	116.5	1.35	684	0.22	0.92	24.8	34.4	600

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Finalized Date: 24- JUL- 2013
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CERTIFICATE OF ANALYSIS WH13128442

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
M355945		1.8	1.4	<0.002	0.44	6.98	0.3	<1	0.4	3.1	<0.05	1.17	<0.2	0.008	0.09	0.1
M355946		7.0	56.3	<0.002	0.02	0.62	0.3	2	2.2	10.6	0.19	0.47	0.7	0.005	0.40	0.4
M355947		8.6	83.7	<0.002	0.98	0.21	17.0	4	32.1	810	1.46	0.26	14.3	0.411	0.52	2.8
M355948		4.3	75.7	<0.002	<0.01	1.00	13.3	3	62.5	2260	1.08	0.20	11.8	0.273	0.38	2.4
M355949		6.2	32.1	<0.002	0.03	0.90	11.7	5	72.7	1970	0.94	0.30	13.0	0.313	0.23	2.8
M355950		11.8	82.5	<0.002	0.08	0.36	15.7	6	22.9	1310	1.31	0.32	15.8	0.379	0.48	3.5
M650151		6.2	223	<0.002	0.01	0.39	0.4	1	3.5	261	0.55	0.08	0.6	0.009	1.10	3.0
M650152		51.7	189.0	<0.002	<0.01	0.17	1.7	3	6.1	287	2.03	0.17	1.6	0.021	1.02	4.3
M650153		40.7	237	<0.002	2.20	6.29	2.5	2	98.3	16.4	0.57	0.05	10.4	0.081	1.64	4.2
M650154		37.3	128.5	<0.002	0.66	2.18	0.9	1	3.8	46.2	0.26	0.79	6.0	0.028	1.04	2.4
M650155		11.5	67.0	<0.002	0.02	0.42	3.7	4	8.5	2430	1.00	0.28	7.7	0.123	0.39	4.0
M650156		7.6	65.0	0.030	0.40	4.71	10.5	5	118.5	855	5.99	0.85	15.8	0.330	0.79	8.6
M650157		84.4	201	<0.002	0.01	0.06	0.8	2	3.1	125.5	0.50	0.10	2.2	0.013	1.25	12.7
M650158		18.8	127.0	<0.002	0.52	0.15	15.7	4	16.6	1215	2.17	0.25	16.6	0.446	0.74	4.2
M650159		13.9	122.5	<0.002	0.22	1.58	14.3	6	47.9	1200	1.55	0.26	18.7	0.390	0.67	4.3
M650160		13.9	100.5	<0.002	0.42	1.97	13.1	4	70.9	1225	1.58	0.19	17.2	0.362	0.58	4.4
M650161		4.6	21.9	<0.002	0.04	0.32	2.7	3	5.2	1970	0.27	0.27	2.9	0.087	0.15	1.6
M650162		27.8	103.0	<0.002	0.08	0.09	3.3	4	3.2	427	1.12	0.21	6.0	0.085	0.66	11.7
M355959		14.0	80.7	<0.002	1.88	0.27	16.8	5	50.8	1225	2.31	0.28	15.4	0.451	1.14	4.7

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 24-JUL-2013
Account: RANSIL

Project: KEG - Vat

CERTIFICATE OF ANALYSIS WH13128442

Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	W-XRF05 W ppm 10
M355945		2	0.4	0.1	5	0.5	
M355946		2	0.4	0.8	2	4.3	
M355947		70	10.7	32.0	105	36.1	
M355948		57	1.4	19.8	113	26.8	
M355949		53	2.5	20.4	69	35.5	
M355950		67	7.6	31.4	81	11.9	
M650151		2	0.8	2.9	4	4.3	
M650152		1	0.2	13.0	4	14.4	
M650153		16	1.5	3.6	22	54.8	
M650154		4	1.3	3.5	14	37.8	
M650155		17	0.8	8.8	27	20.6	
M650156		59	2900	20.5	159	33.8	2890
M650157		1	2.4	9.5	6	21.9	
M650158		76	7.9	33.8	84	13.9	
M650159		58	2.1	33.7	83	12.9	
M650160		57	2.3	34.1	78	15.9	
M650161		11	0.8	7.1	14	7.5	
M650162		9	0.9	20.3	15	12.1	
M355959		78	1.3	32.6	70	10.9	

***** See Appendix Page for comments regarding this certificate *****

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VANCOUVER BC V6B 1L8

Finalized Date: 24-JUL-2013
Account: RANSIL

Project: KEG - Vat

CERTIFICATE OF ANALYSIS WH13128442

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

Applies to Method: Interference: Samples with Ca>10%on ICP-MS As. ICP-AES As results reported (5 ppm DL)
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

CRU-31	CRU-QC	LOG-22	PUL-31
PUL-QC	SPL-21	WEI-21	

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-AA24	ME-MS61	W-XRF05

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 23-JUL-2013
Account: RANSIL

CERTIFICATE WH13128443

Project: KEG - XXV

P.O. No.:

This report is for 6 Rock samples submitted to our lab in Whitehorse, YT, Canada on 15-JUL-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70%<2mm
CRU-QC	Crushing QC Test
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test
PUL-31	Pulverize split to 85%<75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
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Finalized Date: 23-JUL-2013
Account: RANSIL

Project: KEG - XXV

CERTIFICATE OF ANALYSIS WH13128443

Sample Description	Method	WEI-21	Au-AA24	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M676901		1.08	0.008	2.68	0.92	6.4	8390	0.24	0.11	0.05	0.03	6.26	0.4	37	1.33	60.6
M676902		1.19	<0.005	1.06	0.94	158.5	5270	0.48	0.20	0.03	0.08	56.9	0.7	69	0.77	179.0
M676903		0.98	0.006	0.92	3.63	97.8	8000	1.08	0.21	0.03	0.04	35.2	0.8	73	2.95	269
M676904		1.20	<0.005	0.37	2.03	51.5	1960	0.64	0.11	0.02	0.02	3.52	0.6	58	4.28	63.3
M676905		0.86	0.015	1.15	0.96	21.1	4990	0.21	0.17	0.02	0.06	14.20	0.7	42	1.35	169.0
M676906		1.15	<0.005	0.22	1.89	8.3	400	0.24	0.02	0.04	<0.02	5.58	0.4	79	0.42	8.6

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 23-JUL-2013
Account: RANSIL

Project: KEG - XXV

CERTIFICATE OF ANALYSIS WH13128443

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
M676901		2.14	3.07	0.10	0.6	0.037	0.21	3.9	21.4	0.03	41	0.86	0.02	2.1	7.4	170
M676902		6.28	7.00	0.13	0.6	0.190	0.14	31.8	42.1	0.03	45	1.27	0.02	2.4	6.5	1210
M676903		6.01	10.25	0.11	1.6	0.128	0.98	19.7	29.1	0.12	33	1.48	0.05	6.0	10.1	460
M676904		4.83	7.10	<0.05	0.9	0.029	0.72	1.9	23.3	0.11	42	0.89	0.03	3.2	5.2	120
M676905		5.10	4.74	0.06	0.9	0.028	0.21	8.8	25.1	0.03	43	1.17	0.02	3.3	5.6	180
M676906		0.72	5.34	0.05	0.8	0.008	0.13	2.7	59.5	0.23	66	0.63	0.07	2.6	9.8	20

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 23-JUL-2013
Account: RANSIL

Project: KEG - XXV

CERTIFICATE OF ANALYSIS WH13128443

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
M676901		38.5	11.8	<0.002	0.19	2.50	2.4	6	0.9	23.8	0.13	0.07	1.6	0.072	0.41	2.0
M676902		1790	7.8	<0.002	0.15	28.3	7.1	11	11.5	77.6	0.16	0.06	2.4	0.083	0.19	6.8
M676903		110.5	51.7	<0.002	0.10	50.9	11.9	8	19.7	62.9	0.40	0.08	5.5	0.202	1.04	2.9
M676904		7.5	40.9	<0.002	0.03	10.00	7.8	3	1.2	14.0	0.21	0.06	2.9	0.123	0.51	1.2
M676905		43.8	11.3	<0.002	0.13	11.20	4.8	12	1.6	21.6	0.22	0.09	3.3	0.105	0.74	1.4
M676906		14.4	8.2	<0.002	0.01	5.44	5.0	<1	6.2	30.4	0.17	<0.05	2.2	0.083	0.19	0.9

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: **SILVER RANGE RESOURCES LTD.**
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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 23- JUL- 2013
Account: RANSIL

Project: KEG - XXV

CERTIFICATE OF ANALYSIS WH13128443

Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
M676901		41	0.5	3.1	59	22.5
M676902		95	0.4	6.7	162	24.7
M676903		160	1.5	11.6	64	64.4
M676904		117	0.7	4.3	20	37.9
M676905		57	0.7	4.2	33	35.1
M676906		77	1.3	2.7	16	33.1

***** See Appendix Page for comments regarding this certificate *****

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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: KEG - XXV

Finalized Date: 23-JUL-2013
Account: RANSIL

CERTIFICATE OF ANALYSIS WH13128443

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

CRU-31	CRU-QC	LOG-22	PUL-31
PUL-QC	SPL-21	WEI-21	

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-AA24	ME-MS61

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 23-JUL-2013
Account: RANSIL

CERTIFICATE WH13128444

Project: KEG - Vent

P.O. No.:

This report is for 4 Rock samples submitted to our lab in Whitehorse, YT, Canada on 15-JUL-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70%<2mm
CRU-QC	Crushing QC Test
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test
PUL-31	Pulverize split to 85%<75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 23-JUL-2013
Account: RANSIL

Project: KEG - Vent

CERTIFICATE OF ANALYSIS WH13128444

Sample Description	Method	WEI-21	Au-AA24	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L840484		0.95	<0.005	0.33	1.50	44.7	390	0.47	0.11	0.08	0.04	18.35	0.6	34	1.17	9.0
L840485		1.04	0.011	2.11	0.83	73.3	30	0.47	0.28	0.14	0.72	11.00	1.5	31	0.16	15.7
L840486		0.80	0.005	5.39	2.20	154.5	60	1.81	0.64	0.27	2.31	48.3	5.8	49	0.27	35.2
M676907		0.89	<0.005	0.48	7.32	14.4	1030	2.10	0.54	2.93	2.13	67.9	8.3	23	5.26	11.6

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016- 510 W HASTINGS ST
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Finalized Date: 23- JUL- 2013
Account: RANSIL

Project: KEG - Vent

CERTIFICATE OF ANALYSIS WH13128444

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
L840484		1.48	3.50	0.07	0.6	<0.005	0.58	9.4	46.9	0.74	123	0.99	0.03	2.2	6.8	1010
L840485		1.58	2.10	<0.05	0.2	0.017	0.02	4.9	10.0	0.27	61	0.78	0.06	0.7	10.6	780
L840486		5.37	5.48	0.09	0.6	0.039	0.04	25.6	13.3	0.68	87	3.33	0.15	2.5	46.6	2480
M676907		3.62	19.35	0.15	3.0	0.020	3.00	31.1	47.1	0.99	327	0.72	1.14	12.2	2.6	510

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 23- JUL- 2013
Account: RANSIL

Project: KEG - Vent

CERTIFICATE OF ANALYSIS WH13128444

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
L840484		11.0	29.6	<0.002	0.12	2.64	2.4	3	3.2	45.1	0.14	<0.05	2.8	0.051	0.47	1.7
L840485		271	0.8	<0.002	0.01	15.05	1.0	1	3.1	51.3	0.05	0.67	1.2	0.018	0.02	0.9
L840486		790	1.7	<0.002	0.03	85.5	1.9	5	11.0	114.5	0.16	1.35	2.9	0.060	0.04	3.2
M676907		24.9	97.1	<0.002	1.54	1.53	18.4	5	3.2	267	0.93	<0.05	12.7	0.346	1.27	3.2

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 23-JUL-2013
Account: RANSIL

Project: KEG - Vent

CERTIFICATE OF ANALYSIS WH13128444

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm
	LOR	1	0.1	0.1	2	0.5
L840484		100	0.2	4.9	23	23.3
L840485		55	0.1	4.5	119	8.2
L840486		161	0.6	13.0	380	24.9
M676907		75	1.0	23.4	247	98.6

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
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Project: KEG - Vent

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 23-JUL-2013
Account: RANSIL

CERTIFICATE OF ANALYSIS WH13128444

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

CRU-31	CRU-QC	LOG-22	PUL-31
PUL-QC	SPL-21	WEI-21	

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-AA24	ME-MS61

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 26-JUL-2013
Account: RANSIL

CERTIFICATE WH13128445

Project: KEG - Marks

P.O. No.:

This report is for 24 Rock samples submitted to our lab in Whitehorse, YT, Canada on 15-JUL-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70%<2mm
CRU-QC	Crushing QC Test
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test
PUL-31	Pulverize split to 85%<75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Ag-OG62	Ore Grade Ag - Four Acid	VARIABLE
Pb-OG62	Ore Grade Pb - Four Acid	VARIABLE

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 26- JUL- 2013
Account: RANSIL

Project: KEG - Marks

CERTIFICATE OF ANALYSIS WH13128445

Sample Description	Method	WEI-21	Au-AA24	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L840421		1.55	0.059	>100	1.41	>10000	810	0.55	97.8	0.05	56.3	31.5	0.6	57	2.31	539
L840422		2.31	<0.005	2.26	3.18	43.8	1000	1.53	0.69	6.85	0.42	30.5	5.6	104	3.19	181.5
L840423		1.47	<0.005	0.34	8.23	99.6	550	1.92	0.58	7.94	0.44	67.7	43.1	375	11.00	29.9
L840424		1.37	<0.005	0.96	6.10	251	970	1.42	0.83	8.02	0.24	62.6	31.5	211	7.28	36.0
L840425		1.68	<0.005	7.13	5.05	130.0	1380	1.39	0.28	2.74	36.5	57.6	3.4	77	6.04	121.0
L840426		2.38	<0.005	0.38	5.85	27.5	1730	1.42	0.30	6.75	2.77	66.2	4.2	91	6.53	17.6
L840365		1.04	<0.005	0.26	7.20	47.5	400	1.65	0.31	9.17	0.79	58.7	30.5	350	11.55	36.5
L840366		0.85	<0.005	0.37	8.21	158.5	920	1.80	0.40	6.76	0.32	75.9	35.7	457	14.15	67.9
L840367		0.88	<0.005	0.24	3.30	6.9	560	0.93	0.27	1.69	0.22	33.1	4.3	56	4.52	13.2
L840368		1.30	<0.005	13.35	2.99	123.5	620	0.97	3.59	0.28	2.17	34.6	1.4	64	5.90	49.1
L840369		0.91	0.026	48.1	0.25	1510	20	0.54	352	0.10	3.21	1.83	2.4	7	0.46	930
L840487		0.96	<0.005	0.35	0.16	7.4	120	0.17	0.97	0.64	7.64	4.84	3.2	19	0.20	8.9
L840488		1.29	<0.005	1.19	0.46	13.1	1420	0.19	0.86	2.06	10.55	7.85	2.9	20	0.72	133.0
L840489		1.40	<0.005	1.81	4.51	119	140	1.74	6.95	20.0	27.6	60.0	6.7	47	0.82	54.0
L840490		1.35	<0.005	0.64	6.65	61.1	720	1.48	0.65	8.29	0.23	56.1	38.4	301	6.75	46.6
L840491		1.45	<0.005	1.12	2.77	15.8	290	0.74	0.35	4.07	175.0	21.8	2.1	51	1.73	60.1
L840492		0.93	<0.005	0.06	2.85	63	1070	1.36	0.27	10.15	1.18	36.0	7.0	61	2.78	27.6
L840493		1.44	0.006	0.93	0.77	24	410	1.51	7.86	10.45	3.37	5.83	6.3	8	3.43	40.0
L840494		1.41	0.005	0.09	2.73	<5	80	2.21	0.08	15.70	0.53	22.7	7.3	25	2.00	23.9
L840495		1.12	<0.005	0.37	2.34	3.9	630	1.15	0.33	7.45	0.68	27.4	5.3	38	2.17	41.7
L840496		1.28	<0.005	0.26	4.21	7.9	1800	1.27	0.10	3.61	14.20	40.6	3.6	41	6.63	19.0
L840497		0.82	<0.005	0.49	4.38	67.4	3600	1.27	6.69	4.17	2.76	53.3	4.1	93	5.60	139.0
L840498		1.06	<0.005	0.62	6.69	29.9	7640	0.92	0.08	1.54	14.55	56.7	3.5	62	8.00	59.3
L840499		1.24	0.009	80.3	3.29	6750	1780	1.10	0.49	0.80	87.8	35.4	1.3	42	3.14	3750

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VANCOUVER BC V6B 1L8

Finalized Date: 26-JUL-2013
Account: RANSIL

Project: KEG - Marks

CERTIFICATE OF ANALYSIS WH13128445

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
L840421		6.03	6.33	0.35	0.5	3.55	1.38	23.1	16.1	0.09	42	48.2	0.03	10.2	4.6	6350
L840422		1.70	9.50	0.11	1.7	0.013	1.21	19.6	26.1	1.67	204	8.23	0.04	5.5	56.8	>10000
L840423		8.64	22.0	0.32	3.7	0.076	3.39	34.3	115.5	3.92	995	0.39	0.12	50.3	195.0	2260
L840424		5.29	16.65	0.22	2.0	0.070	2.39	34.3	32.5	3.13	1040	3.76	0.19	37.3	105.5	1750
L840425		3.45	12.25	0.18	2.1	0.043	2.81	35.6	42.9	1.27	512	2.77	0.12	15.3	27.4	450
L840426		2.12	14.60	0.14	2.4	0.041	2.79	39.4	25.6	1.07	197	1.73	0.15	18.9	30.3	510
L840365		5.19	17.90	0.23	1.9	0.077	2.88	27.7	70.8	3.54	1080	0.48	0.14	40.8	137.5	2240
L840366		7.25	22.5	0.31	2.0	0.087	3.18	38.2	71.7	3.15	1260	0.41	0.22	48.6	183.5	2660
L840367		1.39	8.41	0.09	1.5	0.018	1.27	18.1	16.7	0.97	199	2.22	0.10	7.5	22.8	350
L840368		0.91	12.05	0.08	2.2	0.207	1.39	20.4	32.1	0.31	105	14.90	0.61	15.2	11.9	610
L840369		25.1	1.86	0.89	0.1	5.09	0.03	1.0	24.6	0.07	261	17.00	0.01	0.5	2.4	200
L840487		1.10	1.03	<0.05	0.1	0.026	0.01	2.0	11.5	0.72	993	0.85	0.01	0.3	17.6	70
L840488		3.96	1.41	0.11	0.5	0.039	0.17	4.3	15.5	1.78	563	0.95	0.02	1.6	47.3	130
L840489		5.77	11.45	0.21	1.5	0.250	0.07	40.8	30.9	3.78	2370	0.59	0.03	13.3	25.9	300
L840490		6.96	18.95	0.17	3.0	0.067	2.69	28.9	73.7	3.91	1100	0.47	0.13	45.9	168.0	1820
L840491		1.36	11.10	0.08	1.9	0.380	1.09	12.4	14.0	2.21	215	1.81	0.06	5.0	14.4	230
L840492		2.38	8.99	0.13	1.7	0.103	1.06	19.8	49.5	3.99	874	10.05	0.13	9.5	62.0	7310
L840493		4.10	6.43	0.12	0.7	0.337	0.21	2.8	31.3	12.45	1610	2.27	0.10	2.3	40.6	200
L840494		4.12	8.33	0.14	1.2	0.159	0.12	11.6	41.4	7.24	1920	38.0	0.26	5.4	53.4	310
L840495		2.05	7.56	0.11	1.7	0.010	1.09	16.2	19.5	3.71	536	23.3	0.07	5.7	59.1	260
L840496		1.67	10.20	0.10	2.5	0.045	3.07	21.5	42.5	3.05	767	0.39	0.22	10.0	16.3	180
L840497		4.00	9.73	0.20	2.2	0.187	4.54	32.3	40.9	2.64	1870	2.52	0.12	6.8	21.9	8780
L840498		2.63	15.85	0.15	2.2	0.012	6.48	29.9	48.8	1.00	870	0.50	0.15	15.0	40.5	500
L840499		6.69	10.65	0.28	1.0	0.161	2.10	22.4	42.6	1.71	447	3.04	0.04	8.5	14.6	290

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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 26- JUL- 2013
Account: RANSIL

Project: KEG - Marks

CERTIFICATE OF ANALYSIS WH13128445

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
L840421		>10000	79.6	0.012	1.28	4380	3.5	100	>500	57.5	0.39	0.85	5.0	0.113	5.10	10.1
L840422		32.8	47.9	0.032	0.75	8.86	5.5	10	3.4	367	0.35	0.19	5.7	0.157	0.74	9.2
L840423		27.0	123.5	<0.002	3.08	4.89	26.4	6	2.4	352	2.80	0.30	4.7	1.320	1.02	1.1
L840424		54.4	91.4	<0.002	1.77	14.45	18.4	6	7.1	291	2.07	0.26	3.6	0.881	1.16	0.9
L840425		4230	132.5	0.003	0.51	15.65	7.5	5	25.0	272	0.78	0.13	9.7	0.278	1.58	3.7
L840426		83.3	123.0	<0.002	0.74	5.45	9.0	3	3.1	378	0.90	0.21	10.6	0.318	1.46	3.2
L840365		15.8	131.0	<0.002	1.17	9.77	20.5	4	6.4	240	2.14	0.29	3.4	1.090	1.38	0.9
L840366		28.4	130.0	<0.002	2.51	10.35	24.5	7	4.0	349	2.58	0.29	4.4	1.270	1.72	0.9
L840367		19.3	56.8	0.002	0.47	1.99	5.4	4	1.4	105.0	0.48	0.14	6.1	0.185	0.62	2.4
L840368		380	96.0	0.002	0.05	14.90	4.0	4	29.0	100.0	0.92	0.16	6.3	0.169	1.64	6.9
L840369		121.0	1.8	0.005	0.25	41.9	0.3	104	14.8	4.3	<0.05	2.32	0.2	0.008	0.06	1.1
L840487		13.4	0.9	<0.002	0.01	1.30	0.5	1	3.0	4.8	<0.05	<0.05	0.5	0.006	0.05	0.2
L840488		93.2	8.0	<0.002	0.31	3.69	1.6	4	6.5	19.1	0.08	<0.05	1.5	0.027	0.21	0.5
L840489		601	4.8	<0.002	0.03	116.5	7.6	2	30.0	207	0.74	0.07	8.4	0.244	0.07	3.2
L840490		12.6	120.0	<0.002	2.99	2.83	24.6	3	3.3	314	2.52	0.08	4.1	1.075	1.31	0.9
L840491		15.2	40.8	<0.002	0.43	4.22	4.2	3	3.3	160.0	0.36	<0.05	5.8	0.152	0.42	2.3
L840492		6.5	58.7	0.016	0.11	0.91	6.7	3	9.2	259	0.61	<0.05	5.7	0.163	0.39	6.6
L840493		20.1	24.4	0.010	0.02	12.25	2.2	4	39.1	26.9	0.15	0.40	1.3	0.047	0.17	2.8
L840494		2.9	6.9	0.024	0.18	1.52	5.8	3	10.4	270	0.34	<0.05	4.2	0.131	0.05	7.3
L840495		7.0	46.1	0.028	0.54	3.10	4.9	7	2.6	161.0	0.39	<0.05	4.8	0.119	0.59	8.5
L840496		57.2	206	<0.002	0.11	2.54	6.8	2	16.4	193.0	0.75	<0.05	7.4	0.264	2.08	2.6
L840497		273	267	0.002	<0.01	3.39	8.5	2	54.4	164.5	0.49	0.09	9.2	0.199	2.54	4.7
L840498		530	177.0	<0.002	<0.01	7.57	6.0	2	30.5	235	0.93	<0.05	8.5	0.306	4.76	2.2
L840499		>10000	108.5	<0.002	0.61	81.3	4.8	19	155.5	123.5	0.48	0.18	7.7	0.158	1.55	9.3

***** See Appendix Page for comments regarding this certificate *****

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VANCOUVER BC V6B 1L8

Finalized Date: 26-JUL-2013
Account: RANSIL

Project: KEG - Marks

CERTIFICATE OF ANALYSIS WH13128445

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	Pb-OG62
	Analyte	V	W	Y	Zn	Zr	Ag	Pb
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	1	0.1	0.1	2	0.5	1	0.001
L840421		449	5.2	5.8	374	23.4	340	2.19
L840422		441	0.8	43.0	38	72.8		
L840423		236	0.9	23.2	63	176.0		
L840424		167	1.5	19.2	30	91.3		
L840425		344	1.1	17.7	3580	90.1		
L840426		359	1.5	18.4	147	94.0		
L840365		199	0.9	19.3	60	81.7		
L840366		223	1.4	20.1	51	87.8		
L840367		117	0.8	9.9	22	58.4		
L840368		824	3.3	8.2	153	87.2		
L840369		30	324	50.0	2040	2.6		
L840487		10	0.3	2.3	1340	4.6		
L840488		33	0.2	5.6	1300	13.3		
L840489		288	1.3	26.8	1600	46.2		
L840490		182	0.9	21.9	44	139.5		
L840491		76	0.6	10.6	6160	63.5		
L840492		358	0.8	41.6	99	69.2		
L840493		308	146.0	17.6	271	28.4		
L840494		447	0.7	23.5	117	46.0		
L840495		362	0.6	15.2	60	58.9		
L840496		66	1.0	14.6	769	76.2		
L840497		242	1.0	40.7	323	74.8		
L840498		227	1.6	15.8	515	63.7		
L840499		265	0.9	16.2	6810	33.8		3.78

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CERTIFICATE OF ANALYSIS WH13128445

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

Applies to Method: Interference: Samples with Ca>10%on ICP-MS As. ICP-AES As results reported (5 ppm DL)
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

CRU-31	CRU-QC	LOG-22	PUL-31
PUL-QC	SPL-21	WEI-21	

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Ag-OG62	Au-AA24	ME-MS61	ME-OG62
Pb-OG62			

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Finalized Date: 24-JUL-2013
Account: RANSIL

CERTIFICATE WH13128491

Project: KEG - Vat

P.O. No.:

This report is for 72 Soil samples submitted to our lab in Whitehorse, YT, Canada on 15-JUL-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS41	51 anal. aqua regia ICPMS	

To: **SILVER RANGE RESOURCES LTD.**
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Finalized Date: 24-JUL-2013
Account: RANSIL

Project: KEG - Vat

CERTIFICATE OF ANALYSIS WH13128491

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ74529		0.31	0.002	0.27	4.12	3.0	<0.2	<10	300	3.99	1.18	0.19	0.05	38.0	35.4	84
ZZ74530		0.38	0.002	0.22	4.10	2.1	<0.2	<10	350	2.73	0.97	0.27	0.05	28.2	49.0	79
ZZ74531		0.34	0.001	0.22	3.56	3.0	<0.2	<10	270	3.20	1.00	0.32	0.11	39.1	42.5	65
ZZ74532		0.34	0.002	0.25	4.05	2.0	<0.2	<10	450	3.61	0.93	0.22	0.04	28.1	43.4	79
ZZ74533		0.46	0.001	0.23	3.74	3.5	<0.2	<10	290	2.81	0.77	0.31	0.31	34.8	51.2	74
ZZ74534		0.28	0.001	0.23	3.78	2.8	<0.2	<10	390	2.61	0.67	0.28	0.17	24.9	33.2	76
ZZ74535		0.27	0.001	0.16	3.26	5.5	<0.2	<10	270	2.45	0.95	0.32	0.06	26.4	37.7	63
ZZ74536		0.26	0.001	0.21	3.26	2.8	<0.2	<10	320	2.49	0.80	0.25	0.04	25.5	41.1	63
ZZ74537		0.34	0.001	0.18	3.99	1.6	<0.2	<10	360	2.32	1.04	0.15	0.02	19.80	40.2	80
ZZ74538		0.44	0.001	0.11	4.30	2.3	<0.2	<10	440	1.99	0.73	0.19	0.02	19.15	41.5	87
ZZ74539		0.25	0.002	0.21	4.02	2.8	<0.2	<10	320	2.68	0.65	0.05	0.02	19.95	144.0	76
ZZ74540		0.30	0.002	0.16	3.78	4.1	<0.2	<10	380	2.19	0.68	0.19	0.03	18.00	39.4	81
ZZ74541		0.27	0.001	0.23	3.20	5.0	<0.2	<10	250	3.38	1.29	0.20	0.06	19.55	23.9	63
ZZ74542		0.22	0.001	0.27	3.75	8.0	<0.2	<10	360	2.55	0.93	0.14	0.05	20.0	25.8	73
ZZ74543		0.32	0.001	0.15	4.05	3.2	<0.2	<10	390	1.92	0.60	0.15	0.03	21.0	28.2	83
ZZ74544		0.31	0.001	0.19	3.85	6.0	<0.2	<10	360	2.40	0.70	0.20	0.04	20.8	26.3	78
ZZ74545		0.33	0.003	0.16	3.85	3.1	<0.2	<10	360	2.47	0.57	0.28	0.05	21.6	24.7	77
ZZ74546		0.32	0.001	0.14	3.92	2.8	<0.2	<10	410	2.31	0.57	0.14	0.03	18.55	25.1	78
ZZ74547		0.36	0.001	0.15	3.84	2.8	<0.2	<10	380	2.36	0.69	0.13	0.03	20.0	22.7	77
ZZ74548		0.25	0.001	0.20	3.57	3.9	<0.2	<10	300	2.64	0.78	0.17	0.06	21.1	26.5	72
ZZ74549		0.49	0.001	0.14	4.14	7.3	<0.2	<10	360	2.08	0.59	0.16	0.06	24.9	23.4	85
ZZ74550		0.37	0.001	0.16	3.85	12.5	<0.2	<10	320	2.09	0.62	0.22	0.06	26.8	22.5	81
ZZ74551		0.23	0.001	0.12	1.48	2.8	<0.2	<10	60	2.65	0.84	0.55	0.23	49.7	6.4	14
ZZ74552		0.17	0.001	0.16	1.57	2.3	<0.2	<10	60	2.80	1.02	0.60	0.29	40.6	5.8	12
ZZ74553		0.22	<0.001	0.06	1.06	11.5	<0.2	<10	50	0.89	0.36	0.19	0.04	19.95	5.5	15
ZZ74554		0.23	0.002	0.14	2.96	9.9	<0.2	<10	180	2.07	1.54	0.84	0.14	44.4	20.6	69
ZZ74555		0.19	0.002	0.12	2.60	7.4	<0.2	<10	160	2.22	0.82	0.28	0.10	42.5	12.8	41
ZZ74556		0.26	0.002	0.07	1.94	6.5	<0.2	<10	100	2.78	0.83	0.49	0.14	53.6	8.2	19
ZZ74557		0.21	0.001	0.11	2.03	7.9	<0.2	<10	80	3.52	1.50	0.56	0.16	46.7	7.6	20
ZZ74558		0.26	0.002	0.09	1.47	7.0	<0.2	<10	70	1.24	0.77	0.14	0.11	29.0	4.3	13
ZZ74559		0.24	0.001	0.09	1.97	2.7	<0.2	<10	70	3.91	1.85	0.65	0.07	57.9	7.0	16
ZZ74560		0.32	0.001	0.11	4.97	1.0	<0.2	<10	260	2.67	0.66	0.99	0.05	38.3	29.5	98
ZZ74561		0.25	0.003	0.08	1.39	5.9	<0.2	<10	130	0.82	0.52	0.20	0.26	30.7	7.7	30
ZZ74562		0.31	0.003	0.14	1.35	13.4	<0.2	<10	120	1.32	1.08	0.16	0.23	32.1	6.4	23
ZZ74563		0.33	0.002	0.10	1.16	7.5	<0.2	<10	60	0.56	0.47	0.07	0.29	25.0	4.1	18
ZZ74564		0.19	0.002	0.15	1.56	7.4	<0.2	<10	130	1.73	1.20	0.11	0.25	39.4	5.8	21
ZZ74565		0.21	0.003	0.24	1.35	8.3	<0.2	<10	120	1.65	1.20	0.16	0.18	35.0	5.5	16
ZZ74566		0.26	0.003	0.17	1.16	11.3	<0.2	<10	80	1.11	1.42	0.16	0.30	32.1	4.9	17
ZZ74567		0.23	0.003	0.11	1.47	13.4	<0.2	<10	100	1.27	1.10	0.08	0.15	27.8	5.6	19
ZZ74568		0.23	0.002	0.09	1.63	13.6	<0.2	<10	130	1.60	1.23	0.13	0.41	41.7	7.5	20

***** See Appendix Page for comments regarding this certificate *****

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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
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Finalized Date: 24-JUL-2013
Account: RANSIL

Project: KEG - Vat

CERTIFICATE OF ANALYSIS WH13128491

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ74529		18.20	101.5	8.05	16.95	0.25	0.07	0.03	0.084	1.73	18.1	154.0	1.18	777	1.19	0.05
ZZ74530		16.55	82.0	7.69	16.25	0.29	0.06	0.02	0.089	1.94	13.5	184.5	1.18	908	1.02	0.05
ZZ74531		14.55	65.2	7.17	13.75	0.25	0.06	0.02	0.086	1.23	18.6	144.5	1.00	1040	0.73	0.03
ZZ74532		18.65	94.6	7.43	16.40	0.26	0.05	0.02	0.092	1.70	13.8	164.0	1.14	989	0.79	0.04
ZZ74533		12.25	73.2	7.18	14.60	0.24	0.04	0.01	0.083	1.21	16.9	138.5	1.20	1270	1.01	0.02
ZZ74534		14.20	68.9	7.07	14.95	0.25	0.05	0.01	0.088	1.69	12.4	157.0	1.13	876	2.35	0.04
ZZ74535		14.10	63.4	6.84	12.95	0.26	0.06	0.01	0.079	1.32	13.1	131.0	0.97	1060	0.57	0.03
ZZ74536		11.50	55.7	6.54	13.45	0.24	0.04	0.02	0.078	1.37	12.6	106.5	0.90	1020	0.70	0.03
ZZ74537		14.80	71.7	7.20	15.75	0.26	0.04	0.01	0.086	1.83	9.5	158.5	1.12	842	0.77	0.05
ZZ74538		15.65	66.1	7.62	16.70	0.31	0.05	0.01	0.098	2.27	9.2	180.5	1.27	868	0.57	0.06
ZZ74539		18.00	69.6	7.05	15.60	0.25	0.04	0.01	0.087	1.94	9.8	145.5	1.05	1680	0.71	0.02
ZZ74540		14.85	54.8	6.74	14.80	0.27	0.04	0.01	0.086	1.91	8.8	156.0	1.11	1000	0.53	0.04
ZZ74541		14.25	50.3	5.47	12.90	0.17	0.03	0.03	0.067	1.21	10.2	120.0	0.85	788	0.56	0.02
ZZ74542		13.40	72.2	6.78	14.50	0.22	0.03	0.03	0.086	1.60	10.0	145.5	1.01	803	0.75	0.03
ZZ74543		13.95	54.8	6.82	15.55	0.28	0.04	0.02	0.090	2.01	10.4	172.5	1.16	720	0.60	0.03
ZZ74544		14.75	51.2	6.75	14.85	0.25	0.04	0.01	0.085	1.79	10.5	169.5	1.11	745	0.55	0.02
ZZ74545		14.50	42.9	6.25	14.15	0.15	0.03	0.02	0.067	1.79	10.9	176.5	1.16	702	0.55	0.03
ZZ74546		13.75	55.4	6.67	15.30	0.15	0.02	0.02	0.075	1.73	9.4	175.5	1.08	580	0.76	0.04
ZZ74547		13.95	48.9	6.36	14.15	0.15	0.02	0.01	0.071	1.73	9.9	164.0	1.07	579	0.66	0.04
ZZ74548		13.50	54.5	6.21	13.80	0.11	0.02	0.02	0.068	1.44	10.5	146.5	0.98	631	0.76	0.03
ZZ74549		11.90	45.4	6.59	16.10	0.18	0.05	0.01	0.077	1.95	12.3	153.5	1.19	576	0.63	0.04
ZZ74550		10.35	39.7	6.30	14.40	0.13	0.08	0.01	0.069	1.73	13.1	134.5	1.16	600	0.53	0.03
ZZ74551		7.88	19.0	2.04	6.97	0.06	0.04	0.01	0.023	0.41	23.3	71.9	0.52	307	1.22	0.01
ZZ74552		6.09	14.9	2.14	6.99	0.05	0.03	0.01	0.025	0.38	18.3	67.3	0.47	343	1.99	0.01
ZZ74553		3.43	20.6	1.46	3.83	<0.05	<0.02	0.01	0.013	0.08	9.4	18.0	0.26	172	0.31	0.03
ZZ74554		12.35	28.7	4.17	10.55	0.08	0.02	0.03	0.042	0.61	19.9	90.6	0.98	604	0.31	0.03
ZZ74555		9.74	18.3	3.64	10.80	0.06	<0.02	0.02	0.035	0.63	19.5	89.1	0.78	454	0.53	0.02
ZZ74556		9.22	13.2	2.91	9.03	0.07	0.02	<0.01	0.029	0.47	25.8	88.1	0.62	463	0.41	0.02
ZZ74557		6.22	15.9	2.63	7.68	0.06	0.02	0.01	0.026	0.40	22.5	66.4	0.54	438	0.53	0.01
ZZ74558		4.45	11.7	2.06	7.20	<0.05	<0.02	0.04	0.018	0.18	13.6	33.9	0.30	258	0.86	0.02
ZZ74559		8.04	11.1	2.30	8.96	0.07	0.04	0.01	0.022	0.47	26.6	94.9	0.56	434	0.21	0.02
ZZ74560		17.65	54.6	7.12	20.2	0.21	0.07	0.01	0.079	2.27	19.6	191.0	1.56	679	0.49	0.09
ZZ74561		3.80	18.6	2.70	4.85	0.07	0.02	0.01	0.023	0.36	15.3	44.0	0.47	327	1.29	0.01
ZZ74562		4.82	16.9	2.54	5.27	<0.05	<0.02	0.03	0.026	0.17	15.9	31.8	0.35	314	1.32	0.01
ZZ74563		1.84	11.7	1.94	4.59	<0.05	<0.02	0.03	0.015	0.08	11.6	15.7	0.22	154	1.04	0.01
ZZ74564		4.25	16.2	2.55	5.88	<0.05	<0.02	0.03	0.024	0.17	18.4	30.2	0.32	408	0.94	0.01
ZZ74565		3.78	17.2	2.17	4.92	<0.05	<0.02	0.04	0.026	0.10	16.9	20.7	0.27	372	1.01	0.01
ZZ74566		3.58	15.5	2.19	4.85	<0.05	<0.02	0.04	0.021	0.14	15.6	26.7	0.29	233	1.05	0.01
ZZ74567		4.10	13.0	2.22	5.25	<0.05	<0.02	0.03	0.022	0.09	14.0	25.0	0.30	349	0.96	0.01
ZZ74568		4.69	16.3	2.68	5.51	<0.05	<0.02	0.03	0.028	0.15	19.4	34.4	0.35	469	1.13	0.01

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Finalized Date: 24-JUL-2013
Account: RANSIL

Project: KEG - Vat

CERTIFICATE OF ANALYSIS WH13128491

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ74529		3.55	62.7	690	23.1	140.5	0.001	0.32	0.15	16.4	0.8	3.5	84.1	0.01	0.11	6.5
ZZ74530		2.08	53.1	930	18.5	146.5	<0.001	0.29	0.10	17.8	0.5	3.8	116.5	<0.01	0.06	4.1
ZZ74531		1.70	62.3	880	29.7	92.8	<0.001	0.13	0.11	13.6	0.8	2.5	65.4	<0.01	0.08	6.8
ZZ74532		2.88	60.1	680	24.9	126.0	<0.001	0.17	0.13	17.7	0.9	3.1	76.2	<0.01	0.09	4.2
ZZ74533		1.02	80.4	720	29.2	85.3	<0.001	0.09	0.13	13.9	0.9	2.0	54.9	<0.01	0.06	6.4
ZZ74534		1.75	54.1	790	20.0	117.5	<0.001	0.17	0.16	17.2	1.0	2.9	65.9	<0.01	0.06	4.2
ZZ74535		1.12	60.5	880	25.4	102.0	<0.001	0.12	0.59	14.6	0.5	2.6	61.5	0.01	0.07	6.0
ZZ74536		3.24	53.9	750	25.5	95.6	<0.001	0.10	0.30	14.2	0.5	2.3	46.9	<0.01	0.05	4.5
ZZ74537		2.95	38.9	740	16.9	126.5	<0.001	0.25	0.08	17.4	0.4	3.4	90.3	<0.01	0.07	3.0
ZZ74538		1.94	39.8	860	16.4	150.5	<0.001	0.25	0.05	20.9	0.7	3.9	104.0	<0.01	0.09	2.9
ZZ74539		0.90	54.6	540	31.0	139.5	<0.001	0.08	0.12	17.4	0.4	5.1	49.9	<0.01	0.06	3.4
ZZ74540		1.76	51.0	770	20.7	131.0	<0.001	0.12	0.42	17.8	0.3	3.5	56.6	<0.01	0.06	3.0
ZZ74541		3.56	50.7	570	25.9	101.0	<0.001	0.07	0.55	12.4	<0.2	3.2	45.6	<0.01	0.07	2.8
ZZ74542		4.54	45.2	750	24.6	117.5	<0.001	0.12	0.47	15.7	0.2	3.3	42.9	<0.01	0.08	3.3
ZZ74543		3.09	41.2	710	16.7	141.0	<0.001	0.13	0.18	18.3	0.7	3.5	55.5	<0.01	0.08	3.1
ZZ74544		2.39	42.0	670	20.6	127.0	<0.001	0.09	0.52	17.1	0.6	3.4	45.9	<0.01	0.08	4.2
ZZ74545		2.24	43.4	810	19.4	129.5	<0.001	0.08	0.23	16.2	0.4	3.7	31.4	<0.01	0.02	2.9
ZZ74546		3.90	40.6	730	17.8	125.5	<0.001	0.14	0.16	18.5	0.7	3.5	52.0	<0.01	0.02	2.3
ZZ74547		3.88	36.3	660	15.9	125.5	<0.001	0.14	0.14	16.0	0.5	3.8	54.1	<0.01	0.03	2.4
ZZ74548		4.55	44.8	630	20.0	120.5	<0.001	0.15	0.17	14.4	0.7	3.5	58.0	<0.01	0.03	2.6
ZZ74549		3.05	39.4	640	18.0	155.0	<0.001	0.16	0.11	19.4	0.6	3.5	67.4	<0.01	0.03	3.4
ZZ74550		3.25	39.3	660	23.4	139.5	<0.001	0.11	0.13	16.0	0.5	2.8	51.1	<0.01	0.02	4.8
ZZ74551		0.88	14.0	840	28.0	58.8	<0.001	0.07	0.30	2.7	0.7	1.9	105.5	<0.01	0.01	9.8
ZZ74552		1.13	11.0	650	34.9	54.3	<0.001	0.10	0.31	2.5	0.8	1.7	89.3	<0.01	0.02	6.9
ZZ74553		0.73	16.1	670	9.2	13.0	<0.001	0.06	0.36	1.1	0.2	0.6	16.6	<0.01	0.01	0.5
ZZ74554		4.04	40.3	580	23.2	88.0	<0.001	0.06	0.50	7.1	0.6	2.4	81.6	<0.01	0.02	3.1
ZZ74555		2.85	27.7	660	20.1	90.5	<0.001	0.06	0.51	5.3	0.4	2.7	45.1	<0.01	0.03	3.7
ZZ74556		1.19	14.2	880	25.7	78.9	<0.001	0.03	0.92	4.7	0.5	2.8	35.8	<0.01	0.02	10.2
ZZ74557		1.03	14.4	780	36.7	58.5	<0.001	0.04	0.32	3.2	0.4	2.0	51.2	<0.01	0.01	6.6
ZZ74558		1.27	8.3	690	18.5	38.0	<0.001	0.07	0.42	1.3	0.3	1.8	19.4	<0.01	0.02	0.6
ZZ74559		1.25	10.6	770	34.5	73.2	<0.001	0.04	0.20	3.0	0.4	2.8	95.5	<0.01	0.01	10.0
ZZ74560		2.26	58.7	860	12.2	265	<0.001	0.14	0.05	20.6	0.7	4.8	178.0	0.01	0.02	5.4
ZZ74561		1.84	22.2	780	10.8	38.4	<0.001	0.05	0.65	4.0	0.5	1.1	16.2	<0.01	0.02	3.4
ZZ74562		1.13	18.3	650	32.7	30.2	<0.001	0.06	1.12	2.1	0.6	1.1	17.5	<0.01	0.03	1.2
ZZ74563		1.26	10.6	330	13.0	14.7	<0.001	0.04	0.57	1.5	0.3	0.7	7.2	<0.01	0.02	1.2
ZZ74564		0.74	13.0	650	30.1	31.8	<0.001	0.06	0.68	1.5	0.5	1.4	13.6	<0.01	0.02	0.8
ZZ74565		0.55	12.4	640	28.6	20.2	<0.001	0.07	1.17	1.2	0.4	1.0	18.9	<0.01	0.02	0.5
ZZ74566		0.94	14.1	630	21.9	23.6	<0.001	0.06	0.83	1.5	0.6	1.2	18.1	<0.01	0.03	1.1
ZZ74567		0.56	12.4	680	25.6	20.3	<0.001	0.07	0.66	0.9	0.4	1.1	18.4	<0.01	0.02	0.2
ZZ74568		1.18	16.4	600	34.2	29.3	<0.001	0.05	1.09	2.1	0.6	1.3	19.6	<0.01	0.03	2.3

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 24-JUL-2013
Account: RANSIL

Project: KEG - Vat

CERTIFICATE OF ANALYSIS WH13128491

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ74529		0.358	0.93	7.30	113	0.25	11.70	178	3.5
ZZ74530		0.387	0.94	4.90	112	0.29	11.15	167	3.1
ZZ74531		0.264	0.58	6.20	83	0.24	14.50	180	3.0
ZZ74532		0.367	0.75	10.80	99	0.28	11.95	167	2.0
ZZ74533		0.245	0.54	3.26	77	0.19	11.75	191	1.4
ZZ74534		0.350	0.72	3.41	109	0.31	9.73	167	2.0
ZZ74535		0.284	0.62	3.93	81	0.27	11.75	154	2.8
ZZ74536		0.288	0.55	3.20	78	0.27	11.65	144	1.4
ZZ74537		0.388	0.78	2.57	108	0.33	7.04	141	2.0
ZZ74538		0.478	0.85	1.86	112	0.35	8.38	149	2.5
ZZ74539		0.362	0.91	2.25	82	0.38	6.21	148	1.2
ZZ74540		0.409	0.77	2.36	98	0.31	6.97	145	2.0
ZZ74541		0.264	0.60	6.78	73	0.32	7.08	128	1.1
ZZ74542		0.351	0.69	3.97	92	0.35	7.99	144	1.0
ZZ74543		0.435	0.83	2.12	104	0.36	6.67	145	1.6
ZZ74544		0.384	0.73	2.46	92	0.37	7.35	143	1.5
ZZ74545		0.379	0.72	1.74	96	0.42	6.78	135	1.1
ZZ74546		0.405	0.66	2.22	99	0.38	5.86	128	0.9
ZZ74547		0.413	0.69	2.87	101	0.47	5.22	131	0.8
ZZ74548		0.337	0.69	3.58	92	0.45	5.83	128	0.9
ZZ74549		0.441	0.88	3.41	109	0.38	6.04	144	2.5
ZZ74550		0.406	0.82	3.79	102	0.41	6.84	144	3.8
ZZ74551		0.060	0.47	5.87	29	0.10	8.74	91	1.8
ZZ74552		0.050	0.45	5.46	36	0.10	6.22	115	1.5
ZZ74553		0.050	0.13	3.99	28	0.12	2.69	41	<0.5
ZZ74554		0.182	0.59	4.74	56	5.38	8.34	101	0.6
ZZ74555		0.160	0.60	2.99	58	0.36	5.39	106	0.5
ZZ74556		0.115	0.56	6.40	39	0.23	9.48	106	1.4
ZZ74557		0.074	0.48	16.40	33	0.13	7.70	116	0.9
ZZ74558		0.062	0.30	3.35	37	0.45	3.26	66	<0.5
ZZ74559		0.075	0.59	15.55	25	0.08	9.00	107	2.0
ZZ74560		0.512	1.65	3.96	127	0.47	10.70	164	3.5
ZZ74561		0.123	0.27	2.91	48	1.19	5.22	91	0.6
ZZ74562		0.052	0.27	4.75	43	0.44	4.56	94	<0.5
ZZ74563		0.062	0.15	1.28	41	0.30	2.37	44	0.5
ZZ74564		0.042	0.29	7.77	37	0.24	4.14	98	<0.5
ZZ74565		0.025	0.28	10.05	34	0.25	5.06	82	<0.5
ZZ74566		0.044	0.21	4.66	33	0.26	4.77	96	<0.5
ZZ74567		0.029	0.25	5.82	37	0.24	3.65	74	<0.5
ZZ74568		0.047	0.27	4.95	38	0.31	4.79	106	<0.5

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Finalized Date: 24-JUL-2013
Account: RANSIL

Project: KEG - Vat

CERTIFICATE OF ANALYSIS WH13128491

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ74569		0.22	0.001	0.14	1.32	8.6	<0.2	<10	110	1.02	0.81	0.10	0.20	23.6	5.9	18
ZZ74570		0.22	0.001	0.13	0.96	10.4	<0.2	<10	70	0.83	1.09	0.07	0.21	24.3	3.5	12
ZZ74571		0.14	0.004	0.17	1.21	8.8	<0.2	<10	80	0.71	1.66	0.05	0.24	27.0	3.9	17
ZZ74572		0.36	0.002	0.17	1.34	9.2	<0.2	<10	90	1.42	5.58	0.15	0.21	40.2	7.2	18
ZZ74573		0.24	0.003	0.22	1.38	6.6	<0.2	<10	110	1.20	1.15	0.10	0.32	33.0	7.5	24
ZZ74574		0.18	0.001	0.13	1.01	6.9	<0.2	<10	70	0.93	1.13	0.11	0.25	28.6	5.1	15
ZZ74575		0.21	0.002	0.25	1.57	5.8	<0.2	<10	150	2.12	2.09	0.14	0.40	38.0	7.9	24
ZZ74576		0.24	0.001	0.22	1.84	5.3	<0.2	<10	80	3.36	1.07	0.46	0.12	70.9	11.8	10
ZZ74577		0.30	0.002	0.19	1.50	6.8	<0.2	<10	120	2.14	1.80	0.23	0.20	39.2	6.6	16
ZZ74578		0.40	0.002	0.08	1.30	6.2	<0.2	<10	90	1.62	1.17	0.14	0.13	40.4	7.8	22
ZZ74579		0.24	0.002	0.28	1.39	9.1	<0.2	<10	90	1.51	1.96	0.09	0.19	31.4	5.7	20
ZZ74580		0.30	0.002	0.18	1.53	35.4	<0.2	<10	110	1.78	3.03	0.10	0.16	34.0	6.6	22
ZZ74581		0.29	0.002	0.21	2.08	7.8	<0.2	<10	210	2.08	3.48	0.15	0.25	30.2	11.8	36
ZZ74582		0.20	0.002	0.18	1.45	5.7	<0.2	<10	110	1.23	1.99	0.12	0.29	31.2	8.4	27
ZZ74583		0.24	0.009	0.19	1.53	7.7	<0.2	<10	100	0.82	3.59	0.08	0.19	21.3	7.6	26
ZZ74584		0.17	0.001	0.09	0.92	2.6	<0.2	<10	50	0.59	0.68	0.10	0.13	13.80	5.8	11
ZZ74585		0.23	0.003	0.07	1.40	5.4	<0.2	<10	110	1.23	1.27	0.17	0.35	31.6	12.2	23
ZZ74586		0.22	0.005	0.13	1.34	6.1	<0.2	<10	110	1.22	2.20	0.15	0.33	29.1	12.8	23
ZZ74587		0.27	0.001	0.10	1.89	7.5	<0.2	<10	140	0.91	0.93	0.10	0.23	18.35	11.5	33
ZZ74588		0.26	0.001	0.13	3.12	5.4	<0.2	<10	250	1.14	0.98	0.08	0.20	26.0	18.6	64
ZZ74589		0.32	0.002	0.13	2.52	6.5	<0.2	<10	200	1.06	0.96	0.13	0.39	25.0	17.5	51
ZZ74590		0.34	0.001	0.16	3.17	3.6	<0.2	<10	290	1.19	0.64	0.11	0.40	24.5	20.1	66
ZZ74591		0.20	0.002	0.07	2.17	12.7	<0.2	<10	180	0.97	1.48	0.10	0.30	21.8	12.5	47
ZZ74592		0.27	0.001	0.10	3.92	2.7	<0.2	<10	380	1.24	0.91	0.11	0.23	21.9	26.0	77
ZZ74593		0.26	0.001	0.12	3.49	3.6	<0.2	<10	340	1.48	0.80	0.13	0.42	21.3	24.3	72
ZZ74594		0.23	0.002	0.24	3.11	8.7	<0.2	<10	290	1.45	0.89	0.10	0.48	23.6	21.8	65
ZZ74595		0.31	0.001	0.19	3.07	8.5	<0.2	<10	270	1.30	0.75	0.08	0.42	21.7	21.0	62
ZZ74596		0.44	0.002	0.12	3.37	2.9	<0.2	<10	310	1.38	0.76	0.15	0.39	25.6	24.3	71
ZZ74597		0.23	0.001	0.22	2.88	4.0	<0.2	<10	230	1.60	1.12	0.13	0.32	27.9	19.2	58
ZZ74598		0.38	0.001	0.14	3.55	4.8	<0.2	<10	260	1.85	1.06	0.10	0.31	25.7	27.0	72
ZZ74599		0.23	0.002	0.17	2.88	7.2	<0.2	<10	220	1.44	1.17	0.07	0.46	25.7	19.8	59
ZZ74600		0.19	0.003	0.14	2.31	4.3	<0.2	<10	160	0.99	0.88	0.08	0.24	25.0	14.2	47

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CERTIFICATE OF ANALYSIS WH13128491

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ74569		3.24	14.7	2.12	5.53	<0.05	<0.02	0.03	0.023	0.12	11.6	24.2	0.27	395	1.06	0.01
ZZ74570		3.26	11.2	1.75	4.06	<0.05	<0.02	0.14	0.015	0.10	12.0	17.4	0.19	240	0.71	0.01
ZZ74571		5.21	16.7	2.17	6.11	<0.05	<0.02	0.03	0.018	0.18	13.3	20.0	0.20	194	1.28	0.01
ZZ74572		6.22	14.7	2.37	5.57	0.05	0.02	0.02	0.024	0.27	19.3	47.5	0.35	362	0.83	0.01
ZZ74573		4.72	18.4	2.76	6.34	<0.05	0.02	0.04	0.027	0.32	16.1	39.5	0.35	327	1.00	0.01
ZZ74574		4.82	15.0	2.18	4.46	<0.05	<0.02	0.02	0.024	0.13	13.3	20.4	0.21	324	0.71	0.01
ZZ74575		9.85	16.4	2.98	6.64	<0.05	<0.02	0.04	0.038	0.23	19.3	43.2	0.33	467	1.01	0.01
ZZ74576		9.45	12.1	4.11	6.67	0.06	<0.02	0.03	0.044	0.11	28.9	46.6	0.56	1180	1.00	0.01
ZZ74577		9.24	13.9	3.06	6.29	<0.05	<0.02	0.04	0.035	0.15	15.7	40.5	0.31	521	1.27	0.01
ZZ74578		8.57	12.3	2.48	5.66	0.05	<0.02	0.01	0.024	0.23	18.4	49.1	0.40	439	0.58	0.01
ZZ74579		9.04	14.1	2.56	7.10	<0.05	<0.02	0.03	0.027	0.15	14.8	32.3	0.28	402	1.30	0.01
ZZ74580		8.94	26.9	2.77	5.79	<0.05	<0.02	0.02	0.033	0.19	15.6	43.5	0.39	392	0.98	0.01
ZZ74581		9.47	28.1	3.52	8.25	0.07	0.02	0.04	0.048	0.49	15.1	67.5	0.54	494	1.27	0.02
ZZ74582		6.14	16.5	2.63	5.68	0.08	0.02	0.03	0.036	0.25	14.7	41.2	0.36	392	1.14	0.01
ZZ74583		5.44	16.4	2.71	6.67	0.07	0.02	0.04	0.043	0.27	10.6	37.8	0.33	352	1.28	0.01
ZZ74584		2.79	16.5	1.56	3.73	<0.05	<0.02	0.05	0.016	0.08	6.8	14.5	0.15	211	0.53	0.02
ZZ74585		5.48	23.9	2.43	5.21	0.08	0.02	0.02	0.028	0.22	15.3	36.6	0.37	495	0.92	0.01
ZZ74586		4.77	26.6	2.33	4.80	0.07	0.02	0.02	0.029	0.19	13.9	32.3	0.35	519	0.84	0.01
ZZ74587		8.48	26.4	3.08	7.21	0.08	0.02	0.02	0.033	0.33	9.6	39.4	0.41	557	1.28	0.01
ZZ74588		12.30	43.4	5.46	11.25	0.16	0.03	0.02	0.064	0.98	13.3	89.7	0.82	527	2.04	0.02
ZZ74589		9.00	34.6	4.22	9.08	0.14	0.03	0.02	0.051	0.82	12.8	77.0	0.74	521	1.23	0.02
ZZ74590		12.20	43.6	5.44	11.35	0.21	0.03	0.01	0.068	1.31	12.6	108.5	0.97	564	3.45	0.02
ZZ74591		8.74	36.0	4.15	9.76	0.11	0.02	0.02	0.046	0.60	11.4	44.2	0.51	453	2.43	0.01
ZZ74592		13.20	54.9	6.90	13.60	0.24	0.03	0.01	0.093	1.70	11.8	125.0	1.15	590	0.99	0.03
ZZ74593		12.90	52.3	6.00	12.95	0.22	0.03	0.02	0.080	1.45	11.8	118.0	1.03	611	1.49	0.03
ZZ74594		11.50	66.6	5.62	10.90	0.17	0.03	0.03	0.068	1.05	12.5	93.9	0.85	610	4.26	0.03
ZZ74595		10.60	44.1	5.28	10.85	0.16	0.03	0.02	0.067	1.16	11.7	92.3	0.86	540	1.09	0.03
ZZ74596		13.35	41.2	5.96	12.30	0.26	0.05	0.02	0.074	1.57	14.1	125.5	1.03	600	1.01	0.03
ZZ74597		12.60	39.1	5.10	10.90	0.19	0.03	0.03	0.063	1.13	14.2	97.3	0.84	530	1.38	0.02
ZZ74598		16.85	48.5	6.14	13.35	0.22	0.03	0.02	0.084	1.52	13.6	128.0	1.05	652	1.49	0.02
ZZ74599		13.95	41.5	5.32	11.35	0.15	0.02	0.03	0.066	1.00	13.7	84.3	0.78	558	1.84	0.02
ZZ74600		11.40	31.0	4.14	10.35	0.11	0.02	0.02	0.050	0.82	13.2	60.2	0.57	423	1.47	0.01

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	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ74569		0.85	12.6	610	17.9	26.3	<0.001	0.08	0.54	1.2	0.4	1.1	15.0	<0.01	0.02	0.3
ZZ74570		0.61	8.8	530	18.3	18.7	<0.001	0.07	0.80	0.7	0.3	0.9	9.3	<0.01	0.02	0.3
ZZ74571		0.97	10.2	590	19.5	42.4	<0.001	0.09	0.65	0.8	0.4	1.5	9.0	<0.01	0.03	0.2
ZZ74572		1.58	15.8	610	27.8	38.7	<0.001	0.05	0.79	2.5	0.5	1.5	12.6	<0.01	0.04	3.2
ZZ74573		1.95	18.1	590	19.2	45.4	<0.001	0.07	0.67	3.0	0.4	1.6	12.8	<0.01	0.03	1.6
ZZ74574		0.66	12.4	590	22.4	24.0	<0.001	0.06	0.58	1.0	0.3	1.0	12.1	<0.01	0.02	0.5
ZZ74575		1.43	15.7	720	48.2	47.5	<0.001	0.09	0.54	2.3	0.5	1.6	17.1	<0.01	0.04	0.8
ZZ74576		0.38	8.7	1090	37.0	21.6	<0.001	0.04	1.38	5.0	0.5	1.0	27.8	<0.01	0.02	2.1
ZZ74577		0.82	11.9	720	32.6	34.0	<0.001	0.09	0.80	1.6	0.4	1.4	19.2	<0.01	0.02	0.6
ZZ74578		1.80	18.1	340	35.1	34.2	<0.001	0.04	0.60	2.9	0.3	1.4	12.7	<0.01	0.02	4.3
ZZ74579		1.36	11.6	590	34.0	40.0	<0.001	0.08	0.87	1.5	0.5	1.9	11.3	<0.01	0.03	0.6
ZZ74580		1.38	14.4	460	66.3	36.1	<0.001	0.06	0.71	2.1	0.4	1.6	12.6	<0.01	0.03	1.5
ZZ74581		2.85	24.9	680	29.9	61.3	<0.001	0.08	0.83	5.5	0.8	2.4	23.0	<0.01	0.04	2.0
ZZ74582		2.26	18.9	550	29.2	35.6	<0.001	0.05	0.59	3.2	0.5	1.4	13.5	<0.01	0.02	1.9
ZZ74583		2.57	16.5	560	24.8	41.8	<0.001	0.07	0.53	3.0	0.6	1.5	12.0	<0.01	0.04	0.9
ZZ74584		0.68	10.2	550	16.6	14.1	<0.001	0.04	0.23	1.0	0.4	0.6	10.3	<0.01	0.02	0.2
ZZ74585		1.81	23.8	670	26.9	31.0	<0.001	0.03	0.47	3.0	0.5	1.2	14.1	<0.01	0.02	1.9
ZZ74586		1.81	23.1	630	28.6	26.7	<0.001	0.03	0.44	3.1	0.5	1.1	13.1	<0.01	0.02	2.2
ZZ74587		2.29	19.7	800	17.3	48.7	<0.001	0.10	0.38	2.8	0.6	1.5	19.2	<0.01	0.03	0.3
ZZ74588		6.49	37.3	700	20.3	88.1	<0.001	0.09	0.24	10.3	0.9	2.6	20.9	0.01	0.04	1.7
ZZ74589		5.12	38.0	600	15.9	74.4	<0.001	0.05	0.33	8.1	0.7	2.0	16.2	<0.01	0.03	2.6
ZZ74590		4.47	41.2	550	16.6	110.5	0.001	0.11	0.18	12.5	1.1	2.6	20.1	<0.01	0.03	2.8
ZZ74591		3.75	28.7	750	22.4	70.5	<0.001	0.10	0.54	4.5	0.8	2.0	17.5	<0.01	0.04	0.4
ZZ74592		4.12	49.3	800	17.5	132.0	<0.001	0.10	0.17	18.6	0.8	3.2	20.9	0.01	0.03	2.9
ZZ74593		4.47	50.6	670	19.6	115.0	<0.001	0.06	0.17	15.2	0.9	2.8	24.0	0.01	0.02	2.5
ZZ74594		4.58	44.5	820	26.9	90.8	0.001	0.13	0.26	10.9	1.5	2.4	23.0	0.01	0.04	1.9
ZZ74595		6.54	44.9	570	20.7	95.2	0.001	0.07	0.28	11.5	0.7	2.3	18.8	<0.01	0.03	2.1
ZZ74596		3.09	51.0	750	16.9	123.5	<0.001	0.04	0.28	15.6	0.8	3.0	19.5	0.01	0.02	4.0
ZZ74597		6.02	42.9	670	25.3	103.0	<0.001	0.05	0.39	10.8	0.8	2.7	16.4	0.01	0.03	2.5
ZZ74598		5.24	53.1	580	24.5	134.0	0.001	0.04	0.19	15.0	0.7	3.5	16.1	<0.01	0.03	3.2
ZZ74599		5.63	42.3	700	26.1	92.6	<0.001	0.08	0.27	9.6	0.7	2.5	20.4	<0.01	0.03	1.7
ZZ74600		4.77	31.0	560	18.4	80.8	<0.001	0.07	0.31	6.7	0.6	2.5	15.8	<0.01	0.03	0.9

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 24- JUL- 2013
Account: RANSIL

Project: KEG - Vat

CERTIFICATE OF ANALYSIS WH13128491

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ74569		0.049	0.22	5.00	41	0.23	3.15	65	<0.5
ZZ74570		0.034	0.19	4.03	29	0.20	2.70	61	<0.5
ZZ74571		0.048	0.27	3.48	40	0.23	2.48	68	<0.5
ZZ74572		0.070	0.35	5.27	32	0.22	5.75	107	0.7
ZZ74573		0.102	0.33	4.19	43	0.34	4.46	96	0.7
ZZ74574		0.048	0.22	3.46	35	0.27	3.59	98	<0.5
ZZ74575		0.065	0.34	12.10	40	1.27	5.52	107	0.7
ZZ74576		0.012	0.29	10.05	46	0.32	15.90	114	<0.5
ZZ74577		0.026	0.33	12.65	35	0.30	5.96	108	<0.5
ZZ74578		0.072	0.30	4.81	32	0.52	4.70	94	0.6
ZZ74579		0.062	0.35	13.05	43	0.58	3.65	90	<0.5
ZZ74580		0.067	0.34	8.82	38	0.45	4.37	109	0.5
ZZ74581		0.142	0.51	11.10	58	0.39	5.87	112	0.9
ZZ74582		0.086	0.38	6.99	42	0.35	5.12	88	0.7
ZZ74583		0.102	0.32	3.39	48	0.46	3.49	81	0.7
ZZ74584		0.048	0.17	2.83	33	0.17	2.83	52	<0.5
ZZ74585		0.079	0.35	10.20	38	0.30	7.08	108	0.5
ZZ74586		0.072	0.31	11.30	36	0.34	6.85	103	0.6
ZZ74587		0.102	0.33	4.21	55	0.29	4.70	81	0.6
ZZ74588		0.272	0.73	3.11	92	0.46	5.62	142	0.6
ZZ74589		0.221	0.53	3.53	69	4.47	6.09	126	1.0
ZZ74590		0.311	0.83	3.11	101	2.08	6.10	151	0.6
ZZ74591		0.162	0.48	5.59	80	0.43	5.77	111	0.5
ZZ74592		0.418	0.83	5.06	107	0.45	7.72	172	0.8
ZZ74593		0.355	0.74	5.52	103	0.45	7.89	181	0.8
ZZ74594		0.270	0.74	8.62	104	0.42	7.71	178	<0.5
ZZ74595		0.299	0.63	4.41	90	0.42	5.04	165	1.0
ZZ74596		0.376	0.80	4.19	98	0.41	7.37	180	1.8
ZZ74597		0.262	0.69	5.32	78	0.46	6.52	147	0.7
ZZ74598		0.328	0.91	4.15	86	0.48	5.91	180	0.6
ZZ74599		0.235	0.66	4.62	80	0.37	4.95	158	0.5
ZZ74600		0.210	0.52	4.51	73	0.37	3.82	117	<0.5

***** See Appendix Page for comments regarding this certificate *****

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To: **SILVER RANGE RESOURCES LTD.**
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 24-JUL-2013
Account: RANSIL

Project: KEG - Vat

CERTIFICATE OF ANALYSIS WH13128491

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
ME-MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
LOG-22 SCR-41 WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-ICP21 ME-MS41

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Finalized Date: 25-JUL-2013
Account: RANSIL

CERTIFICATE WH13128492

Project: KEG - XXV

P.O. No.:

This report is for 116 Soil samples submitted to our lab in Whitehorse, YT, Canada on 15-JUL-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

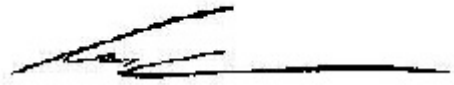
ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS41	51 anal. aqua regia ICPMS	

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature: 

Colin Ramshaw, Vancouver Laboratory Manager

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Finalized Date: 25-JUL-2013
Account: RANSIL

Project: KEG - XXV

CERTIFICATE OF ANALYSIS WH13128492

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ44594		0.29	0.007	0.38	1.29	53.8	<0.2	<10	1050	0.43	0.27	0.07	0.30	28.1	9.7	22
ZZ44595		0.28	0.004	1.89	1.07	46.1	<0.2	<10	1280	0.36	0.25	0.05	0.20	33.2	5.2	23
ZZ44596		0.24	0.003	1.40	1.45	39.8	<0.2	<10	1110	0.42	0.25	0.16	0.26	27.1	6.4	26
ZZ44597		0.25	0.002	0.56	0.96	55.3	<0.2	<10	1530	0.29	0.24	0.07	0.19	23.7	4.0	18
ZZ44598		0.20	0.003	0.32	1.10	115.0	<0.2	<10	670	0.35	0.32	0.05	0.32	30.3	5.1	19
ZZ44599		0.27	0.002	0.21	1.29	21.7	<0.2	<10	370	0.32	0.24	0.07	0.29	22.5	6.3	19
ZZ44600		0.29	0.002	0.24	0.72	27.5	<0.2	<10	320	0.20	0.16	0.04	0.15	19.20	2.9	11
ZZ44601		0.27	0.002	0.23	0.93	48.9	<0.2	<10	470	0.38	0.21	0.08	0.23	39.1	8.3	19
ZZ44602		0.22	0.002	0.29	0.98	38.5	<0.2	<10	390	0.45	0.29	0.06	0.53	40.3	11.4	17
ZZ44603		0.28	0.003	0.64	1.02	29.2	<0.2	<10	310	0.47	0.22	0.12	0.81	32.3	6.9	16
ZZ44604		0.32	0.003	0.25	0.73	25.0	<0.2	<10	230	0.22	0.19	0.07	0.19	26.4	3.9	12
ZZ44605		0.30	0.002	0.24	1.03	15.6	<0.2	<10	230	0.25	0.23	0.09	0.27	26.5	6.2	18
ZZ44606		0.30	0.005	0.45	0.34	28.5	<0.2	<10	360	0.32	0.20	0.03	0.20	40.0	2.2	5
ZZ44607		0.28	0.008	1.02	1.45	16.8	<0.2	<10	220	0.81	0.24	0.50	0.95	42.8	11.1	26
ZZ44608		0.23	0.008	1.22	1.46	17.9	<0.2	<10	290	1.01	0.21	0.29	1.52	47.2	10.3	22
ZZ44609		0.24	0.004	0.35	0.80	13.6	<0.2	<10	400	0.26	0.16	0.11	0.31	21.2	4.4	11
ZZ44610		0.24	0.002	0.23	0.78	9.5	<0.2	<10	250	0.25	0.11	0.13	0.23	15.40	3.9	11
ZZ44611		0.27	0.005	0.52	1.43	22.8	<0.2	<10	360	0.74	0.21	0.25	0.73	39.2	11.6	23
ZZ44612		0.21	0.005	0.58	1.53	33.1	<0.2	<10	560	0.59	0.23	0.13	0.63	31.5	7.1	24
ZZ44613		0.27	0.004	0.81	1.40	50.0	<0.2	<10	580	0.70	0.21	0.16	0.45	39.7	7.1	20
ZZ44614		0.27	0.004	0.31	1.17	28.5	<0.2	<10	480	0.44	0.22	0.10	0.39	31.4	5.1	17
ZZ44615		0.24	0.003	0.44	1.03	36.6	<0.2	<10	510	0.65	0.21	0.13	0.52	35.4	8.4	18
ZZ44616		0.29	0.002	0.19	1.47	28.2	<0.2	<10	610	0.65	0.18	0.10	0.57	33.1	7.9	22
ZZ44617		0.23	0.002	0.12	1.21	25.5	<0.2	<10	340	0.37	0.23	0.06	0.21	24.3	4.1	19
ZZ44618		0.26	0.002	0.20	0.99	36.3	<0.2	<10	420	0.32	0.19	0.08	0.27	25.8	4.4	18
ZZ44619		0.28	0.003	0.25	1.25	20.5	<0.2	<10	600	0.42	0.23	0.08	0.63	25.9	6.2	21
ZZ44620		0.23	0.002	0.29	0.78	19.7	<0.2	<10	550	0.20	0.22	0.06	0.32	23.6	3.6	16
ZZ44621		0.22	0.002	0.29	0.64	33.5	<0.2	<10	690	0.16	0.15	0.07	0.13	19.75	2.5	11
ZZ44627		0.26	0.005	0.50	1.11	23.5	<0.2	<10	550	0.57	0.25	0.55	0.86	39.1	8.4	21
ZZ44628		0.43	0.003	0.55	1.27	26.3	<0.2	<10	480	0.43	0.30	0.15	0.66	31.9	8.5	21
ZZ44629		0.38	0.002	0.36	0.61	17.6	<0.2	<10	530	0.29	0.20	0.11	0.91	26.4	4.3	12
ZZ44630		0.26	0.002	0.74	0.61	17.2	<0.2	<10	360	0.21	0.25	0.05	0.81	25.0	4.4	11
ZZ44631		0.31	0.004	0.92	0.24	7.3	<0.2	<10	150	0.07	0.19	0.05	0.07	23.7	0.7	4
ZZ44632		0.32	0.023	1.33	0.26	11.4	<0.2	<10	1060	0.10	0.32	0.08	0.07	17.45	0.7	9
ZZ44633		0.20	0.003	1.26	0.46	21.5	<0.2	<10	1370	0.13	0.12	0.11	0.09	17.25	1.5	17
ZZ44634		0.27	0.003	2.90	1.29	23.9	<0.2	<10	1710	0.31	0.23	0.09	0.26	24.4	4.6	24
ZZ44635		0.26	0.004	0.82	1.07	25.5	<0.2	<10	1330	0.33	0.20	0.12	0.32	21.7	4.8	19
ZZ44636		0.33	0.002	0.19	0.67	21.4	<0.2	<10	480	0.19	0.26	0.07	0.26	27.7	2.7	15
ZZ44637		0.32	0.004	0.35	0.87	66.9	<0.2	<10	1960	0.44	0.20	0.06	0.26	28.6	5.3	22
ZZ44638		0.29	0.002	0.54	0.80	27.2	<0.2	<10	1080	0.17	0.22	0.05	0.24	20.0	3.0	20

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Finalized Date: 25-JUL-2013
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Project: KEG - XXV

CERTIFICATE OF ANALYSIS WH13128492

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ44594		3.29	50.1	2.89	4.94	0.07	0.03	0.02	0.034	0.14	14.1	17.7	0.36	287	3.26	0.01
ZZ44595		3.95	60.7	3.34	4.39	0.10	0.03	0.03	0.049	0.18	18.5	8.9	0.22	118	2.12	0.01
ZZ44596		4.81	43.6	3.37	5.21	0.08	<0.02	0.03	0.039	0.21	15.0	14.5	0.31	248	2.21	0.02
ZZ44597		5.00	43.2	2.46	4.38	0.07	<0.02	0.04	0.031	0.17	12.2	5.3	0.11	103	2.37	0.01
ZZ44598		3.11	45.2	3.24	5.10	0.08	0.02	0.02	0.188	0.11	15.0	10.0	0.18	156	3.97	0.01
ZZ44599		1.91	22.3	2.30	4.40	0.06	0.04	0.02	0.027	0.07	10.9	15.0	0.26	176	2.97	0.01
ZZ44600		3.60	21.4	1.59	3.27	<0.05	<0.02	0.02	0.017	0.07	10.4	5.2	0.13	109	2.53	0.01
ZZ44601		5.11	58.8	3.03	3.71	0.09	0.03	0.03	0.032	0.10	17.8	8.5	0.26	320	3.46	0.01
ZZ44602		4.41	46.9	2.66	4.04	0.07	0.02	0.03	0.036	0.11	18.5	8.2	0.17	865	4.22	0.01
ZZ44603		2.87	28.1	2.23	3.56	0.08	0.02	0.03	0.032	0.09	16.7	10.9	0.26	219	5.36	0.01
ZZ44604		1.65	21.8	1.71	3.78	0.06	<0.02	0.01	0.018	0.06	12.9	5.0	0.15	135	3.86	0.01
ZZ44605		2.60	28.4	1.84	4.96	0.06	<0.02	0.02	0.023	0.07	13.6	8.1	0.22	278	3.39	0.01
ZZ44606		2.24	33.5	2.29	1.50	0.09	0.03	0.03	0.022	0.19	21.2	2.5	0.03	37	33.4	0.01
ZZ44607		2.36	70.9	2.77	3.83	0.11	0.05	0.04	0.038	0.14	23.2	18.0	0.52	319	15.95	0.01
ZZ44608		1.66	38.4	2.60	3.63	0.10	0.06	0.11	0.036	0.10	25.8	13.9	0.36	473	7.93	<0.01
ZZ44609		3.17	22.6	1.56	3.40	<0.05	<0.02	0.03	0.020	0.08	10.0	5.3	0.16	239	5.89	0.02
ZZ44610		1.61	18.6	1.54	3.22	<0.05	<0.02	0.03	0.016	0.05	7.3	4.6	0.15	116	1.81	0.02
ZZ44611		2.13	39.5	2.74	4.02	0.07	0.02	0.03	0.036	0.11	20.6	14.1	0.41	367	8.87	<0.01
ZZ44612		1.88	23.9	2.55	5.24	<0.05	<0.02	0.05	0.037	0.09	16.2	14.6	0.30	191	5.38	0.01
ZZ44613		1.78	34.3	2.74	3.80	0.07	0.03	0.05	0.044	0.09	19.0	11.9	0.32	212	6.87	<0.01
ZZ44614		1.99	23.1	2.28	5.04	0.05	<0.02	0.03	0.029	0.07	16.7	8.9	0.23	201	3.89	0.01
ZZ44615		1.83	36.4	2.43	3.17	0.06	0.03	0.03	0.034	0.08	17.3	8.5	0.25	407	5.06	0.01
ZZ44616		1.89	33.4	2.36	4.28	0.05	0.02	0.03	0.032	0.08	16.7	11.6	0.33	220	4.05	0.01
ZZ44617		1.73	16.0	2.29	5.36	<0.05	0.02	0.03	0.022	0.06	12.2	10.7	0.21	128	2.69	0.01
ZZ44618		2.15	28.8	2.36	4.58	<0.05	<0.02	0.02	0.024	0.13	12.8	10.8	0.25	166	2.71	0.01
ZZ44619		1.53	16.4	2.55	4.80	<0.05	<0.02	0.04	0.027	0.07	13.8	12.4	0.25	329	3.52	0.01
ZZ44620		3.24	14.9	2.13	5.27	<0.05	<0.02	0.03	0.019	0.08	12.0	4.6	0.16	190	2.58	0.01
ZZ44621		0.84	26.2	1.70	3.82	<0.05	<0.02	0.03	0.023	0.09	9.4	3.8	0.08	198	1.93	0.01
ZZ44627		1.45	29.4	2.25	3.71	0.06	0.05	0.11	0.027	0.08	20.8	12.0	0.35	208	3.51	0.01
ZZ44628		1.54	22.0	2.39	4.49	0.07	<0.02	0.05	0.033	0.12	17.4	12.6	0.34	417	3.91	0.01
ZZ44629		0.79	15.0	1.58	2.83	<0.05	<0.02	0.03	0.020	0.07	14.7	5.4	0.14	234	2.56	0.01
ZZ44630		0.69	11.8	1.61	3.60	<0.05	0.02	0.02	0.019	0.07	12.8	4.5	0.10	217	2.30	0.01
ZZ44631		0.52	6.0	0.64	1.82	<0.05	<0.02	0.04	0.007	0.06	11.7	0.6	0.02	45	1.10	0.01
ZZ44632		1.36	15.1	2.01	3.15	<0.05	0.02	0.09	0.045	0.13	8.1	0.9	0.01	66	1.84	0.01
ZZ44633		0.76	39.4	1.81	4.60	<0.05	<0.02	0.08	0.037	0.04	8.7	1.8	0.04	57	1.25	0.02
ZZ44634		1.45	31.7	2.66	5.47	<0.05	<0.02	0.06	0.035	0.06	13.5	13.0	0.28	138	2.26	<0.01
ZZ44635		2.80	25.0	1.97	4.63	<0.05	<0.02	0.08	0.030	0.09	10.5	7.0	0.17	293	2.43	0.02
ZZ44636		1.98	13.0	1.53	5.40	<0.05	<0.02	0.02	0.018	0.07	15.3	2.8	0.10	138	2.55	<0.01
ZZ44637		2.61	40.0	2.72	3.86	<0.05	<0.02	0.04	0.035	0.08	15.3	9.3	0.21	224	3.49	<0.01
ZZ44638		1.21	33.6	2.88	5.24	<0.05	<0.02	0.04	0.029	0.05	10.2	6.5	0.16	126	2.47	0.01

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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 25-JUL-2013
Account: RANSIL

Project: KEG - XXV

CERTIFICATE OF ANALYSIS WH13128492

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ44594		1.26	33.4	430	18.0	16.9	<0.001	0.09	3.49	3.2	1.1	0.8	30.2	<0.01	0.05	3.4
ZZ44595		0.63	32.6	670	21.8	15.0	0.001	0.22	5.46	3.3	3.7	0.6	37.7	<0.01	0.07	3.1
ZZ44596		1.07	22.7	660	16.0	21.9	<0.001	0.18	4.85	2.7	1.8	0.6	32.8	<0.01	0.06	1.1
ZZ44597		0.83	11.9	440	10.0	20.4	<0.001	0.20	2.35	2.7	1.2	0.5	16.8	<0.01	0.07	1.2
ZZ44598		1.10	18.8	500	36.0	15.2	<0.001	0.10	4.69	2.9	1.5	0.7	13.4	<0.01	0.06	2.8
ZZ44599		1.14	17.6	320	16.5	11.8	<0.001	0.04	1.50	2.6	0.8	0.6	13.9	<0.01	0.04	3.3
ZZ44600		0.33	10.2	470	9.7	13.2	<0.001	0.05	1.76	0.8	0.8	0.3	12.2	<0.01	0.03	<0.2
ZZ44601		0.83	30.3	810	12.7	12.0	<0.001	0.06	3.13	3.3	1.3	0.4	25.0	<0.01	0.05	3.1
ZZ44602		0.92	23.3	720	21.0	14.2	<0.001	0.07	3.24	2.8	1.4	0.5	42.0	<0.01	0.08	1.7
ZZ44603		0.46	25.7	1030	19.0	13.3	0.001	0.05	3.05	1.5	2.3	0.4	28.7	<0.01	0.07	0.4
ZZ44604		0.77	13.4	580	12.1	10.2	<0.001	0.04	1.83	1.7	1.3	0.4	24.0	<0.01	0.04	0.9
ZZ44605		0.66	12.0	580	19.1	14.4	<0.001	0.03	1.18	1.5	0.8	0.6	17.7	<0.01	0.03	0.2
ZZ44606		0.15	7.5	510	19.0	11.4	0.009	0.41	4.56	1.7	3.1	0.2	74.8	<0.01	0.09	2.7
ZZ44607		0.39	61.2	1160	14.3	15.1	0.003	0.03	3.18	3.4	5.9	0.4	23.5	0.01	0.09	2.6
ZZ44608		0.44	47.6	970	13.0	10.6	0.002	0.01	3.97	4.1	4.4	0.4	15.3	<0.01	0.08	3.7
ZZ44609		0.28	10.3	800	12.4	9.7	0.001	0.06	2.54	0.8	1.4	0.4	45.5	<0.01	0.04	<0.2
ZZ44610		0.17	10.8	690	7.0	6.0	<0.001	0.02	1.22	0.6	0.8	0.3	12.1	<0.01	0.02	<0.2
ZZ44611		0.63	38.1	1110	14.8	11.6	0.001	0.03	3.11	3.2	4.2	0.5	29.1	<0.01	0.09	2.5
ZZ44612		0.87	24.6	1020	19.7	11.4	0.001	0.05	2.65	2.7	2.7	0.6	24.6	<0.01	0.08	1.8
ZZ44613		0.62	27.1	880	14.4	9.9	0.002	0.06	4.54	2.9	3.5	0.5	38.9	<0.01	0.09	2.8
ZZ44614		0.84	17.2	600	15.3	9.3	<0.001	0.03	2.75	2.3	2.0	0.6	24.9	<0.01	0.07	1.6
ZZ44615		0.70	24.6	610	14.8	8.1	0.001	0.06	4.12	2.9	2.2	0.4	35.3	<0.01	0.07	3.7
ZZ44616		0.78	26.6	380	10.9	10.5	0.001	0.03	2.30	2.9	1.8	0.5	18.1	<0.01	0.07	3.2
ZZ44617		1.33	12.8	330	17.1	9.5	<0.001	0.03	1.73	2.1	0.7	0.7	12.2	<0.01	0.05	2.5
ZZ44618		0.92	16.9	390	13.7	11.5	<0.001	0.06	2.09	2.1	1.0	0.5	16.5	<0.01	0.06	1.8
ZZ44619		0.80	16.2	550	15.6	11.2	0.001	0.02	1.80	1.9	1.4	0.6	14.1	<0.01	0.04	1.4
ZZ44620		1.30	11.7	380	15.7	15.2	<0.001	0.02	1.76	1.9	0.5	0.8	11.3	<0.01	0.05	1.9
ZZ44621		0.34	7.9	450	22.8	7.4	<0.001	0.05	2.79	0.7	1.4	0.5	15.5	<0.01	0.06	<0.2
ZZ44627		1.02	21.0	1080	31.3	9.6	0.004	0.01	3.43	3.5	2.2	0.8	39.6	<0.01	0.07	4.3
ZZ44628		0.99	23.9	1070	43.7	11.1	<0.001	0.03	3.68	2.4	1.8	1.0	22.1	<0.01	0.06	1.9
ZZ44629		0.67	12.5	370	27.9	6.7	0.001	0.02	2.69	1.5	0.5	0.7	14.1	<0.01	0.06	1.8
ZZ44630		0.85	10.2	520	26.6	8.3	<0.001	0.03	2.64	1.3	1.3	0.7	11.6	<0.01	0.04	2.1
ZZ44631		0.24	2.6	140	16.2	4.3	<0.001	0.04	4.95	0.3	1.7	0.6	7.9	<0.01	0.08	0.8
ZZ44632		0.13	2.3	230	53.7	6.9	0.003	0.22	3.67	0.9	6.6	0.7	22.4	<0.01	0.15	1.9
ZZ44633		0.30	5.8	360	40.6	4.5	<0.001	0.05	5.20	1.3	3.2	0.5	16.3	<0.01	0.05	0.8
ZZ44634		1.34	15.3	390	31.2	7.9	0.001	0.04	2.91	2.2	1.9	0.8	17.5	<0.01	0.05	2.3
ZZ44635		0.42	12.9	660	26.8	9.8	<0.001	0.03	3.01	1.0	1.8	0.6	17.8	<0.01	0.06	<0.2
ZZ44636		1.21	7.9	340	14.9	13.0	<0.001	0.01	1.59	1.8	1.0	0.9	10.8	<0.01	0.03	1.2
ZZ44637		0.48	15.6	470	17.9	7.0	0.001	0.05	4.79	2.8	2.5	0.5	19.9	<0.01	0.07	2.5
ZZ44638		1.01	8.9	400	29.2	6.6	<0.001	0.03	4.05	2.1	2.2	1.0	13.7	<0.01	0.06	1.8

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VANCOUVER BC V6B 1L8

Finalized Date: 25-JUL-2013
Account: RANSIL

Project: KEG - XXV

CERTIFICATE OF ANALYSIS WH13128492

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ44594		0.031	0.29	0.64	49	0.25	3.38	97	1.5
ZZ44595		0.013	0.47	0.59	48	0.10	3.70	74	1.3
ZZ44596		0.029	0.32	0.80	56	0.21	3.32	92	<0.5
ZZ44597		0.020	0.31	0.49	41	0.15	2.73	53	<0.5
ZZ44598		0.022	0.31	0.64	52	0.20	3.16	81	0.6
ZZ44599		0.025	0.22	0.58	52	0.22	2.69	77	1.8
ZZ44600		0.019	0.24	0.45	32	0.23	1.85	43	<0.5
ZZ44601		0.034	0.25	0.69	38	0.14	4.56	87	0.7
ZZ44602		0.029	0.29	0.81	44	0.26	4.40	83	<0.5
ZZ44603		0.018	0.33	1.00	44	0.19	6.53	136	<0.5
ZZ44604		0.028	0.21	0.74	42	0.19	3.00	58	<0.5
ZZ44605		0.034	0.28	0.81	48	0.23	3.42	58	<0.5
ZZ44606		<0.005	1.49	2.61	24	<0.05	6.88	39	1.0
ZZ44607		0.006	0.42	1.26	64	0.11	13.00	213	1.0
ZZ44608		0.007	0.33	0.96	42	0.09	16.65	146	2.5
ZZ44609		0.016	0.56	0.92	38	0.19	4.45	51	<0.5
ZZ44610		0.026	0.16	0.63	39	0.12	3.76	47	<0.5
ZZ44611		0.016	0.40	1.10	50	0.23	9.06	124	0.6
ZZ44612		0.017	0.33	0.95	55	0.24	5.29	90	<0.5
ZZ44613		0.014	0.32	1.01	44	0.30	6.58	94	1.1
ZZ44614		0.026	0.26	0.77	46	0.20	5.24	68	<0.5
ZZ44615		0.025	0.23	0.80	36	0.15	5.13	75	1.7
ZZ44616		0.019	0.24	0.64	48	0.20	4.28	83	1.0
ZZ44617		0.038	0.19	0.50	54	0.30	2.44	52	0.6
ZZ44618		0.029	0.21	0.48	42	0.20	2.60	65	0.5
ZZ44619		0.016	0.25	0.65	64	0.19	3.14	91	<0.5
ZZ44620		0.044	0.21	0.46	55	0.28	2.38	55	<0.5
ZZ44621		0.022	0.12	0.40	38	0.13	1.92	40	<0.5
ZZ44627		0.024	0.23	1.08	55	0.20	11.20	136	2.5
ZZ44628		0.024	0.28	0.69	56	0.30	5.59	132	<0.5
ZZ44629		0.020	0.17	0.42	39	0.14	3.47	73	0.5
ZZ44630		0.026	0.22	0.37	41	0.20	2.06	61	0.7
ZZ44631		0.011	0.39	0.17	20	0.10	1.14	15	<0.5
ZZ44632		0.005	2.11	0.44	23	<0.05	1.92	12	1.1
ZZ44633		0.018	0.17	1.00	45	0.07	1.26	26	<0.5
ZZ44634		0.034	0.21	0.77	58	0.29	2.84	63	<0.5
ZZ44635		0.016	0.25	0.75	47	0.15	3.81	59	<0.5
ZZ44636		0.048	0.23	0.64	52	0.30	3.17	39	<0.5
ZZ44637		0.017	0.25	0.94	45	0.16	4.76	66	<0.5
ZZ44638		0.030	0.14	0.52	60	0.23	2.43	55	<0.5

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CERTIFICATE OF ANALYSIS WH13128492

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ44639		0.27	0.002	1.09	0.69	25.5	<0.2	<10	720	0.21	0.21	0.04	0.37	23.9	3.3	16
ZZ44640		0.26	0.002	1.42	0.86	40.3	<0.2	<10	1000	0.31	0.23	0.12	0.35	22.5	4.4	18
ZZ44641		0.25	0.003	0.38	1.26	50.0	<0.2	<10	1320	0.43	0.22	0.08	0.48	25.0	8.7	23
ZZ44642		0.26	0.003	0.29	1.15	31.7	<0.2	<10	1020	0.51	0.23	0.10	0.44	30.9	8.1	20
ZZ44643		0.24	0.003	0.66	0.77	43.8	<0.2	<10	530	0.26	0.19	0.06	0.29	28.9	3.4	19
ZZ44644		0.27	0.002	0.51	0.97	61.2	<0.2	<10	1030	0.37	0.22	0.07	0.27	28.9	4.2	20
ZZ44645		0.27	0.002	0.52	0.79	75.4	<0.2	<10	1090	0.28	0.22	0.08	0.35	27.5	3.1	18
ZZ44646		0.23	0.002	0.65	1.11	39.8	<0.2	<10	760	0.36	0.23	0.11	0.21	25.2	5.0	21
ZZ44647		0.25	0.002	0.96	1.06	36.0	<0.2	<10	740	0.38	0.18	0.08	0.27	26.9	4.8	22
ZZ44648		0.28	0.001	0.27	1.07	52.8	<0.2	<10	580	0.32	0.24	0.08	0.19	25.6	4.9	21
ZZ44649		0.27	0.002	0.51	1.26	34.7	<0.2	<10	390	0.42	0.22	0.05	0.39	32.4	6.2	21
ZZ44650		0.26	0.001	0.22	0.93	14.0	<0.2	<10	260	0.20	0.25	0.06	0.36	25.4	6.3	18
ZZ44651		0.31	0.003	0.64	1.66	34.0	<0.2	<10	550	0.75	0.23	0.08	0.53	39.9	8.3	24
ZZ44652		0.28	0.004	0.51	1.08	62.9	<0.2	<10	600	0.45	0.26	0.06	0.44	45.5	6.2	16
ZZ44653		0.23	0.004	0.35	1.42	31.5	<0.2	<10	600	0.66	0.20	0.12	0.54	37.1	7.3	22
ZZ44654		0.26	0.004	1.11	1.75	15.5	<0.2	<10	480	0.74	0.20	0.19	1.04	41.1	9.6	26
ZZ44655		0.32	0.007	0.70	1.38	17.1	<0.2	<10	550	0.84	0.20	0.28	0.75	45.8	10.3	22
ZZ44656		0.29	0.007	0.58	1.29	16.8	<0.2	<10	400	0.75	0.20	0.25	0.58	41.8	10.3	23
ZZ44657		0.30	0.002	0.31	1.08	11.8	<0.2	<10	260	0.40	0.19	0.09	0.35	29.6	4.6	16
ZZ44658		0.22	0.002	0.78	1.50	32.1	<0.2	<10	500	0.48	0.21	0.06	0.30	30.0	6.2	22
ZZ44659		0.42	0.008	0.69	1.95	27.6	<0.2	<10	1410	0.82	0.26	0.19	0.88	41.3	8.4	32
ZZ44660		0.30	0.003	0.25	1.45	17.8	<0.2	<10	340	0.54	0.27	0.09	0.47	32.8	8.3	22
ZZ44661		0.23	0.003	0.42	1.53	29.7	<0.2	<10	430	0.52	0.24	0.08	0.41	28.5	6.7	24
ZZ44662		0.25	0.003	0.27	1.03	74.9	<0.2	<10	1050	0.47	0.20	0.06	0.28	36.5	5.8	19
ZZ44663		0.27	0.004	0.98	1.55	41.0	<0.2	<10	1240	0.83	0.23	0.07	0.54	36.9	8.8	23
ZZ44664		0.32	0.002	0.51	1.94	13.2	<0.2	<10	470	0.65	0.23	0.10	0.45	31.9	8.8	28
ZZ44665		0.34	0.004	0.38	1.46	26.6	<0.2	<10	640	0.55	0.24	0.06	0.33	36.8	6.7	21
ZZ44666		0.32	0.001	0.35	1.21	18.5	<0.2	<10	440	0.35	0.25	0.09	0.53	26.0	4.9	21
ZZ44667		0.24	0.002	0.33	0.67	33.8	<0.2	<10	730	0.32	0.21	0.07	0.30	30.5	3.5	16
ZZ44668		0.26	0.001	0.13	0.99	74.2	<0.2	<10	1320	0.47	0.18	0.07	0.15	32.6	4.1	20
ZZ44669		0.25	0.002	0.61	0.75	36.9	<0.2	<10	1050	0.27	0.17	0.06	0.15	26.3	3.0	15
ZZ44670		0.23	0.001	0.47	0.83	21.2	<0.2	<10	280	0.40	0.16	0.23	0.43	45.6	4.2	16
ZZ44671		0.24	0.001	0.34	0.43	17.2	<0.2	<10	270	0.19	0.12	0.29	0.56	22.9	2.5	10
ZZ44672		0.39	0.003	2.58	0.75	12.7	<0.2	<10	1380	0.20	0.15	0.11	0.07	19.15	2.0	13
ZZ44673		0.30	0.001	1.81	0.99	17.8	<0.2	<10	480	0.22	0.22	0.07	0.21	24.0	4.5	17
ZZ44674		0.30	0.003	2.44	0.27	15.6	<0.2	<10	670	0.07	0.25	0.03	0.09	30.5	1.0	8
ZZ44675		0.22	0.001	1.01	0.47	2.4	<0.2	<10	70	0.05	0.05	0.03	0.03	5.49	0.9	2
ZZ44676		0.31	0.002	0.33	1.02	20.4	<0.2	<10	630	0.57	0.25	0.70	0.60	35.4	6.2	18
ZZ44677		0.31	0.003	0.75	0.72	26.4	<0.2	<10	610	0.43	0.26	1.31	0.23	23.4	2.8	14
ZZ44678		0.39	0.002	0.54	0.80	15.8	<0.2	<10	500	0.29	0.15	0.36	0.30	24.0	4.5	15

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 25-JUL-2013
Account: RANSIL

Project: KEG - XXV

CERTIFICATE OF ANALYSIS WH13128492

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ44639		0.83	22.1	2.46	4.68	<0.05	<0.02	0.06	0.025	0.07	12.1	5.0	0.11	145	3.11	0.01
ZZ44640		2.84	26.2	2.64	4.61	<0.05	<0.02	0.05	0.027	0.15	11.7	6.4	0.14	221	2.43	0.01
ZZ44641		2.36	30.9	2.81	4.99	<0.05	0.02	0.02	0.025	0.13	12.8	12.1	0.27	448	2.51	0.01
ZZ44642		1.65	36.3	2.50	4.20	0.05	0.06	0.04	0.032	0.11	16.8	11.5	0.28	324	4.66	0.02
ZZ44643		1.59	22.7	2.27	3.99	0.05	<0.02	0.02	0.030	0.12	16.1	7.3	0.20	108	2.44	0.01
ZZ44644		2.62	40.2	2.84	4.47	0.05	0.02	0.02	0.035	0.16	15.5	10.5	0.23	120	3.38	0.01
ZZ44645		2.85	41.9	2.56	4.52	0.05	<0.02	0.04	0.036	0.21	14.1	3.1	0.08	246	3.77	0.02
ZZ44646		2.97	28.7	2.58	4.75	0.05	<0.02	0.03	0.029	0.13	13.7	13.8	0.28	127	2.94	0.01
ZZ44647		2.81	23.2	2.34	4.18	<0.05	0.02	0.02	0.022	0.09	14.1	12.3	0.27	136	2.33	0.01
ZZ44648		2.76	24.4	2.82	5.34	0.05	<0.02	0.03	0.024	0.12	12.6	8.9	0.23	516	2.42	0.01
ZZ44649		2.41	37.1	2.86	4.88	<0.05	0.03	0.04	0.032	0.09	16.3	14.4	0.27	142	4.31	<0.01
ZZ44650		2.23	13.4	2.11	5.52	<0.05	<0.02	0.03	0.025	0.08	11.8	6.3	0.20	862	2.62	<0.01
ZZ44651		2.29	27.2	2.83	4.75	0.06	0.02	0.04	0.042	0.08	20.6	15.7	0.32	225	4.04	<0.01
ZZ44652		1.22	40.0	2.82	4.50	0.06	0.02	0.04	0.045	0.14	21.8	13.7	0.22	132	9.26	<0.01
ZZ44653		1.87	27.3	2.42	4.13	0.05	0.02	0.04	0.041	0.09	18.8	14.0	0.27	165	5.83	0.01
ZZ44654		1.97	28.2	2.49	4.41	0.05	0.03	0.09	0.035	0.10	18.2	13.1	0.36	353	5.49	0.01
ZZ44655		1.69	47.9	2.52	3.62	0.06	0.04	0.06	0.032	0.11	24.1	12.0	0.39	320	8.61	<0.01
ZZ44656		1.71	35.6	2.45	3.61	0.06	0.03	0.05	0.033	0.10	21.7	12.2	0.36	372	7.06	<0.01
ZZ44657		1.69	17.2	1.69	5.07	<0.05	<0.02	0.05	0.023	0.05	15.2	7.4	0.16	179	3.43	<0.01
ZZ44658		2.01	26.9	2.54	4.93	<0.05	0.02	0.06	0.029	0.07	14.8	14.4	0.26	150	3.33	<0.01
ZZ44659		7.46	47.2	2.76	5.91	0.07	<0.02	0.10	0.037	0.12	21.3	16.4	0.40	298	3.03	0.01
ZZ44660		1.50	21.6	2.74	5.09	<0.05	0.02	0.03	0.028	0.08	17.2	15.3	0.30	225	3.26	<0.01
ZZ44661		2.15	27.2	2.65	4.84	<0.05	<0.02	0.06	0.031	0.08	14.4	16.0	0.28	139	3.73	<0.01
ZZ44662		1.87	37.4	2.57	3.58	<0.05	<0.02	0.03	0.037	0.09	17.9	9.8	0.21	175	4.67	0.01
ZZ44663		1.56	31.3	2.86	4.71	0.05	0.02	0.07	0.034	0.08	18.8	17.6	0.28	217	4.93	0.01
ZZ44664		1.68	17.1	2.50	5.71	<0.05	0.04	0.04	0.029	0.07	15.7	16.5	0.37	302	2.58	<0.01
ZZ44665		1.40	23.1	2.59	5.20	0.06	0.03	0.04	0.035	0.07	18.6	15.7	0.26	170	3.72	<0.01
ZZ44666		1.66	14.4	2.57	6.12	<0.05	<0.02	0.05	0.025	0.07	12.6	10.7	0.26	236	2.11	<0.01
ZZ44667		2.66	31.3	2.12	4.01	<0.05	<0.02	0.04	0.026	0.10	15.7	4.9	0.12	100	3.21	0.01
ZZ44668		2.47	42.4	2.73	3.95	0.05	<0.02	0.02	0.034	0.09	16.0	12.6	0.23	141	1.77	<0.01
ZZ44669		1.40	32.4	2.13	3.91	<0.05	<0.02	0.04	0.024	0.08	13.3	6.0	0.13	140	1.83	0.01
ZZ44670		2.11	13.4	1.95	2.77	0.05	0.02	0.05	0.031	0.09	23.8	10.7	0.28	128	1.42	0.01
ZZ44671		1.00	11.9	1.39	2.06	<0.05	<0.02	0.03	0.018	0.08	11.7	4.3	0.10	187	1.31	0.01
ZZ44672		1.36	32.5	1.91	3.12	<0.05	<0.02	0.05	0.021	0.05	8.8	3.2	0.07	130	1.30	0.02
ZZ44673		1.54	17.8	2.20	5.07	<0.05	<0.02	0.05	0.026	0.07	11.3	11.8	0.19	190	2.14	0.01
ZZ44674		0.47	11.8	1.71	2.63	0.06	<0.02	0.05	0.014	0.17	16.4	0.9	0.02	38	1.85	0.01
ZZ44675		0.31	5.1	0.50	2.12	<0.05	0.02	0.01	0.005	0.03	2.9	0.6	0.02	23	0.45	0.02
ZZ44676		1.09	28.4	2.08	3.60	0.05	0.02	0.08	0.026	0.08	21.4	11.4	0.26	190	2.56	0.01
ZZ44677		2.10	15.1	1.31	2.05	0.05	0.06	0.09	0.025	0.07	11.2	8.7	0.32	118	1.11	0.02
ZZ44678		2.04	16.0	1.67	3.39	<0.05	0.02	0.14	0.029	0.07	12.0	9.6	0.18	246	1.26	0.02

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Finalized Date: 25-JUL-2013
Account: RANSIL

Project: KEG - XXV

CERTIFICATE OF ANALYSIS WH13128492

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ44639		0.84	12.3	450	27.5	8.6	<0.001	0.02	2.94	1.6	1.3	0.8	11.3	<0.01	0.05	1.3
ZZ44640		0.84	14.1	510	21.9	14.9	<0.001	0.14	3.35	2.1	1.6	0.6	29.9	<0.01	0.05	1.3
ZZ44641		1.09	23.9	430	14.4	12.7	<0.001	0.08	2.46	2.4	0.8	0.7	22.9	<0.01	0.05	2.5
ZZ44642		0.71	24.2	460	19.4	9.8	<0.001	0.06	3.35	3.1	1.7	0.6	27.8	<0.01	0.08	3.9
ZZ44643		0.83	15.5	410	28.5	11.1	<0.001	0.10	3.55	1.8	1.6	0.6	25.8	<0.01	0.06	2.2
ZZ44644		0.71	16.4	440	25.0	13.4	<0.001	0.18	5.45	2.9	1.8	0.6	35.3	<0.01	0.07	2.6
ZZ44645		0.60	8.9	670	20.2	17.8	<0.001	0.26	6.12	2.3	1.5	0.5	66.6	<0.01	0.10	1.1
ZZ44646		1.13	16.7	310	40.2	16.8	<0.001	0.08	3.70	2.7	1.4	0.7	25.1	<0.01	0.04	2.5
ZZ44647		0.95	15.4	290	19.7	14.0	<0.001	0.04	2.36	2.4	1.1	0.6	24.0	<0.01	0.04	2.6
ZZ44648		0.99	13.3	860	19.8	14.9	<0.001	0.04	2.28	1.8	1.3	0.7	49.6	<0.01	0.03	1.0
ZZ44649		1.09	23.1	370	17.3	15.0	<0.001	0.04	2.60	2.9	2.0	0.6	15.9	<0.01	0.06	3.0
ZZ44650		1.06	11.4	530	16.4	17.8	<0.001	0.02	1.37	1.5	0.4	0.8	10.4	<0.01	0.02	0.7
ZZ44651		1.06	24.6	520	19.6	12.1	0.001	0.03	3.38	3.2	1.7	0.6	31.3	<0.01	0.06	4.2
ZZ44652		0.69	21.7	590	21.3	11.6	0.001	0.14	5.00	2.8	2.6	0.6	48.1	<0.01	0.11	3.2
ZZ44653		0.70	27.2	730	16.8	12.4	0.001	0.04	2.73	2.8	3.0	0.5	25.4	<0.01	0.07	2.5
ZZ44654		0.84	40.4	850	13.2	12.9	0.001	0.02	2.03	3.2	3.0	0.5	15.5	<0.01	0.06	2.3
ZZ44655		0.59	44.2	1090	12.9	11.7	0.002	0.01	2.77	3.7	4.1	0.5	20.4	<0.01	0.08	3.3
ZZ44656		0.69	39.1	1100	13.8	11.0	0.001	0.02	2.53	3.3	3.4	0.5	21.9	<0.01	0.05	3.3
ZZ44657		0.64	15.8	510	12.1	8.9	0.001	0.02	1.32	1.5	0.7	0.8	11.8	<0.01	0.04	0.7
ZZ44658		1.23	19.5	400	14.1	11.4	0.001	0.01	2.19	2.7	1.5	0.6	10.0	<0.01	0.05	3.1
ZZ44659		0.58	31.7	1220	16.8	18.9	<0.001	0.03	1.86	2.5	1.5	0.7	20.7	<0.01	0.03	0.5
ZZ44660		1.11	24.3	540	15.6	11.3	0.001	0.01	1.81	2.7	1.3	0.8	13.1	<0.01	0.07	3.3
ZZ44661		0.98	22.7	540	15.6	12.3	<0.001	0.02	2.66	2.7	1.8	0.6	12.3	<0.01	0.09	2.1
ZZ44662		0.64	16.5	440	22.7	8.8	<0.001	0.08	6.20	2.7	2.6	0.4	24.2	<0.01	0.07	3.0
ZZ44663		0.77	25.8	450	15.6	12.3	0.001	0.05	2.97	3.0	2.0	0.6	19.9	<0.01	0.06	3.4
ZZ44664		1.43	18.0	480	17.5	14.1	<0.001	0.01	1.06	3.3	0.5	0.8	12.6	<0.01	0.01	4.1
ZZ44665		1.03	19.4	320	17.0	11.3	0.001	0.02	2.63	2.7	1.6	0.7	15.7	<0.01	0.06	3.5
ZZ44666		1.49	12.2	510	19.7	10.7	<0.001	0.01	1.58	2.2	1.3	0.8	11.1	<0.01	0.03	1.5
ZZ44667		0.80	14.0	610	14.5	14.3	<0.001	0.05	3.06	2.1	1.4	0.6	18.4	<0.01	0.06	1.9
ZZ44668		0.73	16.9	400	20.4	9.8	<0.001	0.08	2.92	2.7	1.3	0.4	27.7	<0.01	0.06	2.6
ZZ44669		0.79	10.0	430	77.3	8.0	<0.001	0.04	3.60	1.9	1.7	0.6	24.6	<0.01	0.04	1.8
ZZ44670		0.44	18.6	320	32.3	9.4	<0.001	0.05	2.55	2.3	1.0	0.4	30.1	<0.01	0.04	3.2
ZZ44671		0.37	12.0	470	25.4	8.6	<0.001	0.05	2.78	0.9	0.7	0.4	29.6	<0.01	0.02	1.2
ZZ44672		0.49	5.6	670	29.5	4.9	<0.001	0.03	3.22	1.8	3.1	0.5	18.2	0.01	0.06	1.1
ZZ44673		1.41	12.4	320	27.9	9.8	<0.001	0.02	2.22	1.8	1.0	0.9	14.2	<0.01	0.04	2.1
ZZ44674		0.33	3.7	250	31.8	9.0	0.001	0.32	6.62	0.6	10.2	1.5	9.5	<0.01	0.13	0.9
ZZ44675		0.35	1.7	160	4.9	2.1	<0.001	0.01	0.72	0.3	0.2	0.2	6.5	<0.01	0.01	0.4
ZZ44676		0.84	24.8	280	30.8	8.8	<0.001	0.01	2.80	2.3	0.7	0.7	29.9	<0.01	0.05	2.1
ZZ44677		0.36	17.2	470	29.0	7.3	0.001	0.06	3.45	1.9	1.1	0.5	41.8	<0.01	0.03	1.5
ZZ44678		0.69	15.9	250	55.3	10.6	<0.001	0.02	2.49	1.8	0.7	0.6	23.5	<0.01	0.03	1.7

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CERTIFICATE OF ANALYSIS WH13128492

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ44639		0.023	0.15	0.50	67	0.17	2.33	71	<0.5
ZZ44640		0.029	0.27	0.57	48	0.16	2.51	70	<0.5
ZZ44641		0.030	0.21	0.48	52	0.28	2.70	106	0.9
ZZ44642		0.026	0.26	0.77	53	0.17	4.60	107	3.3
ZZ44643		0.028	0.32	0.48	47	0.15	2.45	74	0.5
ZZ44644		0.021	0.51	0.54	45	0.17	3.19	62	0.9
ZZ44645		0.021	0.43	0.47	42	0.12	2.36	67	<0.5
ZZ44646		0.031	0.38	0.61	50	0.26	2.76	69	0.7
ZZ44647		0.034	0.25	0.58	41	0.23	3.35	55	0.7
ZZ44648		0.041	0.24	0.50	51	0.33	3.13	72	<0.5
ZZ44649		0.027	0.24	0.55	56	0.21	3.25	84	1.6
ZZ44650		0.049	0.16	0.48	55	0.30	2.08	84	<0.5
ZZ44651		0.027	0.27	0.92	52	0.26	5.45	94	1.3
ZZ44652		0.013	0.34	0.91	48	0.14	4.17	87	0.9
ZZ44653		0.014	0.32	0.87	47	0.14	5.94	88	0.7
ZZ44654		0.018	0.30	0.84	56	0.41	8.05	105	0.8
ZZ44655		0.015	0.32	1.10	52	0.19	11.25	150	1.3
ZZ44656		0.019	0.29	1.08	50	0.21	10.05	123	1.2
ZZ44657		0.018	0.24	0.68	49	0.20	3.69	57	<0.5
ZZ44658		0.026	0.20	0.66	51	0.24	3.47	71	0.8
ZZ44659		0.015	0.47	2.06	66	0.34	16.40	121	<0.5
ZZ44660		0.025	0.22	0.79	70	0.23	4.13	103	1.1
ZZ44661		0.020	0.24	0.69	52	0.20	3.50	79	0.5
ZZ44662		0.023	0.26	0.89	38	0.22	3.96	61	0.5
ZZ44663		0.013	0.27	0.96	65	0.16	4.58	91	1.0
ZZ44664		0.032	0.22	0.98	64	0.33	3.82	79	1.6
ZZ44665		0.020	0.21	0.66	62	0.20	3.42	71	1.9
ZZ44666		0.046	0.16	0.55	59	0.32	2.46	62	<0.5
ZZ44667		0.029	0.20	0.52	41	0.21	2.79	58	<0.5
ZZ44668		0.021	0.19	0.49	35	0.16	3.31	50	0.5
ZZ44669		0.030	0.13	0.58	40	0.17	2.41	46	0.5
ZZ44670		0.011	0.24	0.51	51	0.09	7.05	89	1.2
ZZ44671		0.014	0.19	0.30	31	0.16	1.76	90	0.5
ZZ44672		0.021	0.18	0.95	34	0.12	3.08	31	0.7
ZZ44673		0.040	0.23	0.52	52	0.31	2.11	56	0.7
ZZ44674		0.016	1.56	0.21	36	0.11	1.10	18	<0.5
ZZ44675		0.021	0.09	0.13	14	0.07	0.48	9	0.8
ZZ44676		0.017	0.20	0.56	53	0.45	9.62	110	1.2
ZZ44677		0.010	0.28	0.50	36	0.22	6.74	87	2.6
ZZ44678		0.022	0.34	0.44	41	0.15	2.88	88	0.9

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
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Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 25-JUL-2013
Account: RANSIL

Project: KEG - XXV

CERTIFICATE OF ANALYSIS WH13128492

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ44679		0.30	0.001	1.55	0.38	28.2	<0.2	<10	570	0.13	0.14	0.11	0.08	22.4	1.4	8
ZZ44680		0.34	0.009	1.24	1.21	31.7	<0.2	<10	1470	0.52	0.24	0.07	0.29	29.1	5.9	23
ZZ44681		0.24	0.003	0.57	0.84	24.7	<0.2	<10	910	0.20	0.23	0.09	0.43	27.1	4.0	20
ZZ44682		0.34	0.003	0.30	1.09	37.1	<0.2	<10	1070	0.35	0.23	0.05	0.30	27.2	4.5	21
ZZ44683		0.30	0.003	0.33	1.19	48.0	<0.2	<10	950	0.39	0.22	0.05	0.18	26.3	4.3	22
ZZ44684		0.37	0.003	0.10	0.82	50.0	<0.2	<10	1860	0.45	0.16	0.11	0.25	37.5	6.3	18
ZZ44685		0.31	0.002	0.24	0.71	20.2	<0.2	<10	370	0.21	0.25	0.05	0.21	27.9	2.3	12
ZZ44686		0.29	0.002	0.40	0.72	54.7	<0.2	<10	1460	0.21	0.21	0.03	0.09	21.3	1.9	17
ZZ44687		0.30	0.002	0.30	1.10	24.3	<0.2	<10	450	0.28	0.20	0.07	0.28	19.65	4.9	16
ZZ44688		0.31	0.004	0.81	1.08	36.0	<0.2	<10	500	0.36	0.27	0.05	0.32	26.0	5.3	19
ZZ44689		0.36	0.002	0.50	0.66	53.2	<0.2	<10	1600	0.26	0.21	0.04	0.15	25.3	3.4	14
ZZ44690		0.23	0.002	1.14	0.55	12.5	<0.2	<10	730	0.14	0.11	0.04	0.17	12.85	3.0	9
ZZ44691		0.31	0.002	1.14	0.41	16.0	<0.2	<10	760	0.13	0.13	0.05	0.27	16.70	2.1	8
ZZ44692		0.31	0.005	1.57	0.84	20.0	<0.2	<10	760	0.34	0.18	0.42	0.22	28.8	3.3	13
ZZ44693		0.27	0.001	0.13	0.24	1.7	<0.2	<10	150	0.07	0.02	0.53	0.06	6.07	1.4	2
ZZ44694		0.27	0.004	1.34	1.09	27.6	<0.2	<10	560	0.65	0.24	0.85	0.79	48.0	6.9	20
ZZ44695		0.30	0.003	0.47	1.08	27.9	<0.2	<10	410	0.69	0.27	0.97	0.38	40.7	8.4	21
ZZ44696		0.32	<0.001	0.40	0.74	12.5	<0.2	<10	510	0.33	0.15	1.20	1.01	18.80	4.8	11
ZZ44697		0.40	0.002	0.49	1.31	18.4	<0.2	<10	590	0.62	0.28	0.89	0.54	36.2	8.7	23
ZZ44698		0.38	0.001	0.44	0.84	13.9	<0.2	<10	510	0.56	0.16	1.55	0.50	34.5	5.9	15
ZZ44699		0.34	0.001	0.09	0.22	1.3	<0.2	<10	120	0.07	0.02	0.44	0.12	3.75	1.1	2
ZZ44700		0.26	0.001	0.41	0.31	1.7	<0.2	<10	120	0.13	0.03	0.26	0.07	10.40	1.4	3
ZZ44701		0.33	0.002	0.54	0.86	24.8	<0.2	<10	340	0.45	0.16	0.30	0.88	44.8	8.7	16
ZZ44702		0.22	0.003	3.03	0.50	33.3	<0.2	<10	860	0.14	0.17	0.25	0.29	19.05	2.3	10
ZZ44703		0.39	0.007	2.63	0.75	46.5	<0.2	<10	2800	0.19	0.27	0.06	0.12	45.7	1.8	15
ZZ44727		0.16	0.001	0.41	0.87	13.5	<0.2	<10	360	0.35	0.15	0.61	0.54	25.8	6.3	14
ZZ44728		0.27	0.001	0.20	1.34	17.3	<0.2	<10	240	0.67	0.22	0.38	0.54	40.3	8.9	21
ZZ44729		0.19	0.002	0.42	0.90	23.7	<0.2	<10	490	0.37	0.20	0.70	0.57	27.3	6.5	16
ZZ44730		0.26	0.003	0.50	1.14	22.5	<0.2	<10	630	0.58	0.25	0.69	0.46	39.3	9.0	20
ZZ44731		0.33	0.005	0.59	0.80	31.0	<0.2	<10	1100	0.26	0.21	0.07	0.24	24.9	4.6	17
ZZ44732		0.27	0.002	0.40	1.02	27.8	<0.2	<10	830	0.30	0.28	0.05	0.25	27.2	4.9	18
ZZ44733		0.22	0.002	0.90	0.91	52.4	<0.2	<10	1490	0.22	0.27	0.06	0.18	18.05	3.8	19
ZZ44734		0.29	0.002	0.40	1.18	26.9	<0.2	<10	420	0.36	0.23	0.06	0.32	24.9	6.2	18
ZZ44735		0.29	0.003	0.58	1.23	27.6	<0.2	<10	390	0.30	0.33	0.05	0.27	25.1	5.1	21
ZZ44736		0.27	0.004	0.48	1.37	15.8	<0.2	<10	360	0.40	0.33	0.07	0.37	26.9	9.2	21
ZZ44737		0.24	0.002	0.38	1.28	26.8	<0.2	<10	520	0.33	0.29	0.09	0.33	27.0	5.8	21

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Finalized Date: 25-JUL-2013
Account: RANSIL

Project: KEG - XXV

CERTIFICATE OF ANALYSIS WH13128492

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ44679		0.52	12.5	1.16	2.97	<0.05	<0.02	0.09	0.021	0.07	10.3	0.9	0.03	78	1.45	0.01
ZZ44680		2.17	42.7	2.71	4.48	<0.05	0.02	0.07	0.035	0.08	15.4	15.0	0.24	176	3.26	<0.01
ZZ44681		1.52	19.6	2.19	5.13	<0.05	<0.02	0.04	0.024	0.09	13.6	6.6	0.21	143	2.29	0.01
ZZ44682		2.15	27.2	2.62	5.06	0.05	<0.02	0.04	0.031	0.08	14.7	7.7	0.19	241	3.03	<0.01
ZZ44683		1.82	26.6	2.78	4.82	<0.05	<0.02	0.06	0.030	0.08	13.0	12.5	0.19	187	3.00	0.01
ZZ44684		1.89	38.7	2.11	3.07	0.05	0.02	0.02	0.029	0.06	18.4	8.3	0.27	186	2.78	<0.01
ZZ44685		2.35	15.9	1.46	4.88	<0.05	<0.02	0.03	0.018	0.05	14.6	2.2	0.07	78	2.99	0.01
ZZ44686		1.84	34.1	2.18	4.83	<0.05	<0.02	0.02	0.022	0.05	11.3	3.1	0.06	55	2.22	0.01
ZZ44687		1.37	14.9	2.05	4.00	0.05	<0.02	0.04	0.025	0.04	8.8	7.6	0.16	153	2.55	<0.01
ZZ44688		2.09	28.2	2.33	4.28	0.06	0.02	0.05	0.041	0.07	13.3	11.4	0.25	152	3.53	<0.01
ZZ44689		1.49	43.3	2.50	3.25	0.06	<0.02	0.02	0.043	0.06	12.5	6.3	0.11	94	2.72	<0.01
ZZ44690		0.92	19.5	1.22	2.51	<0.05	<0.02	0.06	0.017	0.04	7.4	4.3	0.09	101	1.15	0.01
ZZ44691		0.92	19.3	1.13	2.29	<0.05	<0.02	0.08	0.023	0.05	8.9	2.1	0.05	60	1.28	0.01
ZZ44692		3.27	23.7	1.54	2.75	0.06	0.02	0.33	0.044	0.06	16.0	7.3	0.12	92	1.13	0.01
ZZ44693		0.28	5.7	0.43	0.96	<0.05	0.02	0.03	<0.005	0.03	3.1	0.5	0.03	70	0.12	0.04
ZZ44694		2.91	32.0	2.10	3.08	0.09	0.10	0.19	0.064	0.09	25.7	14.0	0.35	263	1.94	<0.01
ZZ44695		2.88	26.1	2.23	3.55	0.09	0.10	0.07	0.044	0.11	24.3	14.0	0.46	269	2.30	<0.01
ZZ44696		0.89	27.2	1.30	2.64	0.05	0.03	0.04	0.018	0.06	11.0	6.1	0.15	401	1.34	0.02
ZZ44697		1.39	38.8	2.18	4.30	0.08	0.06	0.07	0.033	0.12	22.3	16.5	0.41	232	2.46	0.01
ZZ44698		2.83	24.1	1.70	2.56	0.07	0.07	0.05	0.034	0.09	19.6	10.4	0.36	291	1.31	0.01
ZZ44699		0.27	6.9	0.34	0.81	<0.05	<0.02	0.02	<0.005	0.03	1.9	0.7	0.02	25	0.18	0.04
ZZ44700		0.42	8.1	0.51	1.29	<0.05	<0.02	0.04	0.006	0.03	7.0	1.1	0.03	39	0.21	0.03
ZZ44701		2.14	26.6	2.55	2.60	0.08	0.06	0.11	0.043	0.07	24.7	10.5	0.29	471	1.29	<0.01
ZZ44702		1.14	36.3	1.44	3.17	0.05	<0.02	0.13	0.056	0.05	10.0	1.7	0.04	371	1.53	0.01
ZZ44703		1.31	74.7	2.29	4.87	0.10	0.02	0.15	0.078	0.06	23.6	2.1	0.04	105	2.16	<0.01
ZZ44727		1.79	19.0	1.62	2.86	0.05	0.04	0.03	0.029	0.08	12.5	9.7	0.21	235	1.45	0.01
ZZ44728		2.62	26.6	2.15	3.66	0.08	0.04	0.03	0.037	0.09	21.0	15.3	0.39	187	1.89	0.01
ZZ44729		1.91	24.0	1.82	2.93	0.06	0.05	0.03	0.033	0.09	13.3	11.3	0.28	130	1.92	0.01
ZZ44730		1.54	31.0	2.20	3.48	0.08	0.06	0.05	0.038	0.12	20.3	14.4	0.39	295	2.78	0.01
ZZ44731		1.28	31.9	2.07	3.77	0.06	<0.02	0.04	0.031	0.06	12.8	9.3	0.19	103	2.33	<0.01
ZZ44732		1.83	34.1	2.53	5.10	0.07	0.02	0.04	0.032	0.07	13.6	11.2	0.15	123	3.30	<0.01
ZZ44733		2.03	38.0	2.85	4.57	0.06	<0.02	0.06	0.038	0.06	9.6	8.6	0.15	133	2.48	<0.01
ZZ44734		1.45	22.3	2.24	4.14	0.06	0.02	0.04	0.030	0.06	12.9	11.4	0.22	169	3.58	<0.01
ZZ44735		1.73	22.1	3.06	6.83	0.07	<0.02	0.05	0.029	0.08	13.0	11.5	0.22	139	3.71	<0.01
ZZ44736		1.36	15.6	2.52	5.21	0.06	<0.02	0.04	0.029	0.05	13.7	12.0	0.21	301	2.63	<0.01
ZZ44737		2.05	21.8	2.55	5.70	0.07	<0.02	0.05	0.028	0.06	14.2	14.7	0.28	177	3.72	<0.01

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	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ44679		0.50	4.3	340	214	3.7	<0.001	0.05	6.80	0.6	1.2	0.9	21.3	<0.01	0.02	0.7
ZZ44680		0.72	19.7	540	34.9	10.0	<0.001	0.04	4.04	2.8	3.0	0.8	16.0	<0.01	0.07	2.8
ZZ44681		0.98	12.2	460	18.2	12.5	<0.001	0.01	2.32	1.9	1.0	0.7	13.8	<0.01	0.04	1.0
ZZ44682		0.84	12.3	530	17.2	11.3	<0.001	0.03	3.84	2.2	1.7	0.7	14.5	<0.01	0.04	1.1
ZZ44683		0.94	13.7	460	15.4	11.2	<0.001	0.04	2.94	2.4	1.2	0.6	13.7	<0.01	0.05	2.4
ZZ44684		0.46	18.7	400	10.8	6.1	<0.001	0.03	2.97	3.2	2.2	0.4	20.5	<0.01	0.05	3.5
ZZ44685		0.73	9.5	540	13.0	9.5	<0.001	0.02	1.35	0.9	0.7	0.9	10.1	<0.01	0.03	0.2
ZZ44686		0.86	7.6	330	13.0	8.3	<0.001	0.05	3.16	1.9	1.7	0.6	14.3	<0.01	0.04	2.1
ZZ44687		1.15	14.1	500	15.1	7.5	0.001	0.03	1.58	1.7	1.1	0.5	11.1	0.01	0.04	0.7
ZZ44688		1.17	15.3	460	18.6	12.9	<0.001	0.04	5.93	2.6	1.8	0.5	17.2	<0.01	0.06	3.1
ZZ44689		0.66	12.3	350	35.5	7.7	<0.001	0.05	4.73	2.4	2.1	0.8	16.0	<0.01	0.07	2.8
ZZ44690		0.72	8.2	210	64.8	5.5	<0.001	0.03	2.15	1.3	1.3	0.4	12.1	<0.01	0.03	1.2
ZZ44691		0.46	6.1	280	134.5	6.8	<0.001	0.05	2.68	0.9	1.4	0.5	15.0	<0.01	0.03	0.8
ZZ44692		0.47	20.3	400	115.0	8.2	0.001	0.04	3.33	2.5	2.2	0.7	28.8	<0.01	0.06	1.6
ZZ44693		0.22	2.1	470	3.5	1.4	<0.001	0.02	0.29	0.5	0.3	<0.2	24.8	<0.01	<0.01	0.2
ZZ44694		0.61	40.1	520	66.6	11.5	0.001	0.05	8.39	4.7	1.9	0.6	50.3	0.01	0.06	4.3
ZZ44695		0.72	43.6	410	34.5	14.8	<0.001	0.02	6.11	4.3	1.3	0.8	44.8	0.01	0.05	5.0
ZZ44696		0.78	16.6	270	14.3	8.9	<0.001	0.03	2.00	1.8	1.0	0.4	47.6	<0.01	0.03	1.0
ZZ44697		1.45	32.7	440	25.4	13.8	0.001	0.03	2.49	4.2	1.5	0.7	43.5	0.01	0.04	3.3
ZZ44698		0.56	29.2	390	17.5	14.4	<0.001	0.04	2.89	3.0	1.2	0.3	63.0	0.01	0.03	2.0
ZZ44699		0.18	2.8	140	2.6	1.4	<0.001	0.02	0.30	0.5	0.4	<0.2	24.3	<0.01	0.01	0.2
ZZ44700		0.27	3.6	310	4.0	2.1	<0.001	0.01	0.42	0.9	0.4	<0.2	17.6	<0.01	0.01	0.5
ZZ44701		0.33	51.6	340	39.7	9.1	0.001	0.04	3.94	3.3	1.3	0.6	31.2	0.01	0.04	4.8
ZZ44702		0.37	6.8	740	306	6.6	<0.001	0.08	6.73	0.7	2.9	1.9	39.2	<0.01	0.07	<0.2
ZZ44703		0.37	10.5	570	268	6.4	0.001	0.09	6.60	2.0	6.7	3.1	34.0	<0.01	0.14	2.1
ZZ44727		0.76	24.8	320	17.8	9.4	<0.001	0.03	1.87	2.3	0.7	0.4	35.2	<0.01	0.03	2.0
ZZ44728		1.11	45.2	320	19.2	13.5	<0.001	0.02	2.06	3.4	0.8	0.5	25.6	<0.01	0.04	4.2
ZZ44729		0.87	27.6	310	19.2	12.8	<0.001	0.05	2.81	2.6	1.0	0.4	36.7	<0.01	0.04	3.0
ZZ44730		0.98	33.6	380	20.7	12.9	<0.001	0.03	2.45	4.1	1.1	0.5	34.1	<0.01	0.05	3.6
ZZ44731		0.88	14.9	260	37.5	9.4	<0.001	0.04	2.79	2.3	1.7	0.6	15.3	<0.01	0.05	2.3
ZZ44732		1.25	17.6	370	25.1	11.5	<0.001	0.04	2.43	2.7	1.5	0.7	15.6	<0.01	0.07	3.2
ZZ44733		1.00	11.3	470	17.1	11.3	<0.001	0.05	5.34	2.1	1.9	0.5	15.1	<0.01	0.06	0.8
ZZ44734		1.09	19.0	420	15.2	11.0	0.001	0.03	2.07	2.3	1.5	0.5	13.0	<0.01	0.05	2.5
ZZ44735		1.95	16.5	460	17.9	13.0	<0.001	0.03	1.78	2.8	1.2	0.8	11.2	<0.01	0.06	2.8
ZZ44736		1.55	19.3	540	17.6	11.0	<0.001	0.02	1.12	2.6	1.0	0.7	11.0	0.01	0.03	2.8
ZZ44737		1.57	18.8	540	17.5	11.4	0.001	0.03	1.77	2.7	1.5	0.7	14.8	<0.01	0.05	2.1

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 25-JUL-2013
Account: RANSIL

Project: KEG - XXV

CERTIFICATE OF ANALYSIS WH13128492

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ44679		0.027	0.31	0.50	35	0.13	1.22	25	<0.5
ZZ44680		0.016	0.29	0.85	61	0.17	3.50	85	0.8
ZZ44681		0.038	0.24	0.63	59	0.26	3.29	64	<0.5
ZZ44682		0.025	0.21	0.79	54	0.22	3.79	58	<0.5
ZZ44683		0.022	0.20	0.63	54	0.22	3.26	61	0.5
ZZ44684		0.031	0.13	0.83	36	0.11	6.05	59	0.9
ZZ44685		0.031	0.18	0.57	49	0.27	2.60	37	<0.5
ZZ44686		0.027	0.17	0.57	49	0.17	3.31	34	<0.5
ZZ44687		0.026	0.14	0.67	37	0.27	3.30	38	<0.5
ZZ44688		0.024	0.21	0.83	44	0.38	3.90	70	0.6
ZZ44689		0.017	0.15	0.63	36	0.10	3.25	50	0.6
ZZ44690		0.027	0.15	0.37	28	0.10	1.60	30	<0.5
ZZ44691		0.019	0.30	0.36	26	0.18	1.65	32	<0.5
ZZ44692		0.013	0.54	0.78	35	0.07	9.70	68	0.9
ZZ44693		0.022	0.03	0.20	14	<0.05	2.33	9	0.8
ZZ44694		0.009	0.41	0.84	46	0.09	22.8	170	3.6
ZZ44695		0.012	0.33	0.67	52	0.12	20.9	139	4.2
ZZ44696		0.017	0.11	0.83	31	0.11	8.22	85	1.3
ZZ44697		0.030	0.21	0.92	50	0.19	18.45	115	2.3
ZZ44698		0.011	0.21	0.78	39	0.09	18.30	92	2.5
ZZ44699		0.016	0.04	0.20	10	<0.05	1.73	13	0.6
ZZ44700		0.022	0.04	0.35	15	<0.05	6.91	17	0.5
ZZ44701		0.006	0.36	0.64	50	0.06	17.50	362	3.0
ZZ44702		0.017	0.26	1.41	28	0.07	1.70	79	<0.5
ZZ44703		0.012	0.27	1.21	35	0.08	6.39	49	0.5
ZZ44727		0.016	0.18	0.52	36	0.10	6.95	110	1.5
ZZ44728		0.020	0.27	0.79	47	0.19	12.20	156	1.9
ZZ44729		0.017	0.21	0.46	37	0.25	5.86	101	2.2
ZZ44730		0.022	0.20	0.63	46	0.13	13.75	131	2.2
ZZ44731		0.023	0.16	0.57	40	0.20	2.97	51	<0.5
ZZ44732		0.021	0.18	0.64	55	0.19	3.46	62	0.8
ZZ44733		0.025	0.15	0.61	46	0.20	3.05	54	<0.5
ZZ44734		0.017	0.22	0.69	50	0.18	3.36	75	0.5
ZZ44735		0.042	0.21	0.69	72	0.30	3.27	65	0.5
ZZ44736		0.030	0.21	0.71	55	0.27	3.86	81	0.5
ZZ44737		0.028	0.23	0.68	57	0.23	4.37	75	<0.5

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: KEG - XXV

Finalized Date: 25-JUL-2013
Account: RANSIL

CERTIFICATE OF ANALYSIS WH13128492

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
ME-MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
LOG-22 SCR-41 WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-ICP21 ME-MS41

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To: **SILVER RANGE RESOURCES LTD.**
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 28-JUL-2013
Account: RANSIL

CERTIFICATE WH13129420

Project: KEG - Owl SW

P.O. No.: Batch 13-O01

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 17-JUL-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70%<2mm
CRU-QC	Crushing QC Test
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test
PUL-31	Pulverize split to 85%<75 um
LOG-22d	Sample login - Rcd w/o BarCode dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate
LOG-23	Pulp Login - Rcvd with Barcode

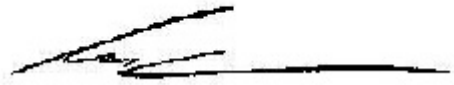
ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Ag-OG62	Ore Grade Ag - Four Acid	VARIABLE
Pb-OG62	Ore Grade Pb - Four Acid	VARIABLE

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature: 

Colin Ramshaw, Vancouver Laboratory Manager

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To: **SILVER RANGE RESOURCES LTD.**
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 28-JUL-2013
Account: RANSIL

Project: KEG - Owl SW

CERTIFICATE OF ANALYSIS WH13129420

Sample Description	Method	WEI-21	Au-AA24	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
K285751		0.83	0.008	17.35	0.12	202	40	0.09	31.3	0.01	1.79	3.52	0.7	13	0.19	28.5
K285752		1.94	<0.005	2.62	0.21	85.0	100	0.07	1.05	0.01	17.50	5.10	2.4	16	0.31	45.7
K285753		1.22	0.007	78.6	0.20	155.0	90	0.10	52.1	0.02	45.9	6.48	2.1	15	0.29	165.5
K285754		2.35	<0.005	0.14	0.04	<5	40	0.07	0.11	22.0	0.17	1.18	0.8	<1	0.13	5.0
K285755		2.53	0.032	>100	0.27	8930	70	0.27	55.2	0.04	53.5	6.65	26.1	16	0.31	279
K285756		1.89	0.012	>100	2.27	2000	600	0.67	81.4	0.05	14.00	22.9	4.9	47	2.04	102.0
K285757		1.85	<0.005	1.52	4.75	33.4	1120	1.51	0.54	1.17	0.61	56.8	3.8	64	5.52	11.6
K285758		1.73	<0.005	1.65	4.91	50.3	690	1.44	0.54	1.67	2.83	53.9	7.5	64	6.18	33.6
K285759		0.64	<0.005	0.99	4.70	48.4	710	1.39	0.28	1.81	2.45	52.9	7.3	63	5.82	32.9
K285760		1.28	<0.005	0.88	5.81	25.2	520	2.15	0.36	3.77	2.25	61.6	5.1	75	6.57	25.5
K285761		1.83	<0.005	1.65	5.13	94.0	810	1.60	0.60	3.89	3.89	61.1	4.2	63	15.10	84.8
K285762		1.86	<0.005	0.55	6.31	111.0	1410	1.86	0.17	1.15	0.40	72.7	4.7	82	9.38	37.5
K285763		1.41	<0.005	1.61	4.46	186.5	2510	1.06	0.19	0.19	20.9	56.1	4.9	61	4.83	18.6
K285764		0.22	<0.005	14.10	4.18	128.0	1570	1.29	52.0	8.41	61.6	45.7	6.6	63	5.11	778
K285765		1.54	<0.005	0.20	0.30	119.0	110	0.13	0.06	0.04	0.28	6.77	2.5	31	0.44	7.6
K285766		1.58	<0.005	0.76	1.34	6.7	530	0.54	0.12	2.71	0.12	7.28	3.4	35	2.03	40.1
K285767		4.45	<0.005	1.01	3.99	9.2	580	1.31	0.22	2.06	0.77	36.5	13.5	57	6.58	84.6
K285768		2.74	0.006	1.04	4.97	23.4	770	1.54	0.24	3.22	1.56	46.1	22.4	59	7.26	89.2
K285769		0.22	<0.005	14.95	4.34	138.5	1620	1.31	54.6	8.58	65.1	46.7	7.0	65	5.16	811
K285770		2.11	0.005	0.64	5.40	48.8	1390	1.68	0.17	2.36	5.40	47.6	14.0	62	10.10	66.2
K285771		3.45	<0.005	0.53	4.08	4.1	3130	1.15	0.13	1.78	0.04	44.0	8.4	68	6.50	56.2
K285772		2.08	<0.005	0.51	3.40	2.5	>10000	0.90	0.13	1.40	0.04	34.1	7.1	57	4.37	42.8
K285773		5.68	<0.005	0.25	3.53	2.9	2260	0.98	0.14	0.59	0.02	38.9	9.9	67	4.70	66.5
K285774		5.50	<0.005	0.27	3.63	2.8	7540	1.10	0.20	0.31	0.12	34.1	25.9	76	7.38	137.0
K285775		1.86	0.005	0.30	3.35	1.5	2600	1.33	0.27	0.68	0.50	41.5	10.4	91	8.79	96.3
K285776		2.04	<0.005	0.02	0.06	<5	70	0.07	0.03	20.8	0.07	1.23	0.7	2	0.20	1.9
K285777		2.32	<0.005	0.32	3.48	1.7	5180	1.16	0.21	0.73	0.07	32.1	9.4	106	10.15	100.5
K285778		3.04	<0.005	0.61	3.67	27.4	1350	1.30	0.16	2.09	0.34	35.8	9.3	85	6.22	74.6
K285779		4.72	<0.005	0.54	2.59	7.1	4870	0.70	0.12	0.78	0.06	34.8	7.5	37	4.17	111.0
K285780		2.48	<0.005	0.25	1.98	1.5	5160	0.66	0.08	3.34	0.04	33.6	6.2	32	1.75	80.7
K285781		<0.02	<0.005	0.26	2.01	1.4	6300	0.70	0.08	3.32	0.03	36.1	6.4	31	1.83	82.5
K285782		1.61	<0.005	0.18	3.91	9.7	1700	1.28	0.18	3.66	<0.02	46.4	12.6	56	10.95	49.6
K285783		3.19	<0.005	0.23	4.58	4.8	7650	1.66	0.19	2.32	<0.02	54.3	11.4	63	14.15	62.0
K285784		0.92	<0.005	3.42	4.10	43.5	1060	1.41	0.19	9.92	0.28	54.1	8.9	55	7.56	48.5
K285785		2.79	<0.005	1.31	5.33	200	1270	1.48	0.05	2.35	0.06	60.5	6.2	82	12.05	82.5
K285786		7.54	<0.005	0.54	5.82	3.6	1860	1.62	0.20	1.19	0.17	65.4	3.7	83	8.04	13.7

***** See Appendix Page for comments regarding this certificate *****

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 28-JUL-2013
Account: RANSIL

Project: KEG - Owl SW

CERTIFICATE OF ANALYSIS WH13129420

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
K285751		2.65	0.58	<0.05	0.3	0.007	0.05	1.8	3.6	0.01	40	0.43	0.01	0.9	5.8	50
K285752		1.70	0.75	<0.05	0.2	0.558	0.09	2.5	4.2	0.01	57	0.35	0.01	1.0	9.1	50
K285753		3.24	0.92	0.06	0.3	0.852	0.07	3.5	3.6	0.01	56	0.36	<0.01	1.0	6.7	110
K285754		0.49	0.19	<0.05	<0.1	0.007	0.02	0.5	1.0	13.60	210	0.94	0.01	0.1	1.5	190
K285755		6.52	0.62	0.14	0.2	0.363	0.07	3.1	4.2	0.03	82	0.56	<0.01	0.9	25.5	60
K285756		3.31	4.22	0.10	1.8	0.069	1.10	10.5	11.8	0.11	52	0.65	0.03	4.8	18.1	270
K285757		1.49	10.60	0.06	3.1	0.025	1.70	32.2	32.2	0.30	45	2.52	0.15	13.2	31.0	1030
K285758		4.24	12.10	<0.05	2.8	0.027	1.19	30.5	64.6	1.24	100	2.83	0.10	12.0	60.4	1240
K285759		3.99	11.80	<0.05	2.9	0.010	0.94	30.5	74.6	1.49	125	2.86	0.10	12.0	72.4	1240
K285760		3.53	13.50	<0.05	2.8	0.186	1.09	35.8	43.8	1.52	173	5.40	0.28	14.1	60.8	1260
K285761		4.30	12.00	<0.05	2.9	0.054	1.32	36.2	105.0	2.70	463	1.97	0.09	12.8	35.8	1130
K285762		2.54	14.15	0.06	3.2	0.007	2.80	40.9	83.1	1.13	235	1.83	0.09	16.0	50.0	1390
K285763		2.28	11.05	0.05	2.2	0.220	2.90	31.4	27.4	0.24	117	1.84	0.07	11.9	31.5	740
K285764		3.42	11.35	0.09	1.6	2.15	1.88	24.5	40.3	2.24	1740	12.40	0.23	7.9	47.2	1170
K285765		0.61	0.57	<0.05	0.3	0.005	0.12	3.2	4.9	0.03	99	0.40	0.01	0.9	10.6	140
K285766		2.27	3.85	<0.05	0.6	0.008	0.65	3.7	16.1	0.14	107	0.62	0.03	1.7	26.7	50
K285767		3.48	10.05	<0.05	1.7	0.024	1.49	18.4	46.5	1.29	591	10.60	0.17	6.5	53.9	730
K285768		2.89	12.75	<0.05	2.1	0.052	1.98	22.1	37.1	2.18	1150	19.80	0.35	9.3	68.9	700
K285769		3.54	11.60	0.06	1.7	2.22	1.95	24.7	40.7	2.32	1780	12.60	0.24	8.1	48.2	1230
K285770		3.08	14.15	0.15	2.3	0.131	2.12	23.5	64.9	2.38	1020	14.00	0.26	10.1	58.1	860
K285771		2.59	13.50	0.13	1.4	0.025	1.78	18.9	25.8	0.93	827	0.62	0.08	5.7	42.8	410
K285772		2.05	11.35	0.12	1.1	0.020	1.29	15.0	23.2	0.83	669	0.63	0.05	4.7	39.9	300
K285773		2.26	12.80	0.12	1.2	0.013	1.28	16.5	34.9	0.78	348	0.51	0.06	5.0	37.9	370
K285774		2.47	13.10	0.13	1.3	0.029	1.27	17.1	48.2	0.82	286	1.26	0.06	4.7	99.5	320
K285775		2.04	12.50	0.16	1.3	0.093	1.34	23.0	43.4	0.61	285	0.58	0.06	4.1	41.5	890
K285776		0.47	0.22	0.08	<0.1	<0.005	0.02	0.6	1.3	12.50	211	0.23	<0.01	0.2	1.6	180
K285777		2.63	13.20	0.13	1.3	0.049	1.13	18.6	43.5	0.73	291	1.19	0.07	4.4	54.1	390
K285778		2.42	10.30	0.14	1.9	0.015	1.12	18.5	43.7	1.01	548	8.36	0.04	6.3	56.2	620
K285779		1.55	10.20	0.12	1.0	0.026	0.98	11.3	23.0	0.60	436	0.49	0.07	3.3	37.7	310
K285780		1.64	7.89	0.10	1.0	0.023	0.60	11.7	17.9	0.87	1420	0.34	0.03	3.6	19.6	390
K285781		1.71	8.26	0.11	1.0	0.028	0.60	12.2	18.7	0.88	1400	0.32	0.03	3.8	20.4	400
K285782		2.56	11.55	0.12	1.4	0.024	1.30	19.5	36.4	1.42	1240	0.56	0.05	6.5	41.4	290
K285783		2.35	14.25	0.16	1.6	0.029	1.89	23.7	36.0	1.66	1130	0.50	0.08	7.7	50.2	330
K285784		2.82	9.43	0.15	2.5	0.005	0.72	29.4	26.7	0.54	350	1.66	0.09	12.4	38.0	670
K285785		4.13	12.55	0.17	3.2	<0.005	1.91	33.7	45.6	0.38	79	2.04	0.16	15.8	37.6	890
K285786		2.27	13.90	0.18	3.4	0.019	2.37	37.9	40.4	0.36	35	1.88	0.08	17.4	38.7	1000

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 28-JUL-2013
Account: RANSIL

Project: KEG - Owl SW

CERTIFICATE OF ANALYSIS WH13129420

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
K285751		1605	2.8	<0.002	2.45	262	0.3	23	3.8	1.9	0.05	1.07	0.8	0.019	0.16	0.6
K285752		67.8	5.3	0.004	1.43	25.4	0.5	5	3.0	3.5	0.05	0.09	0.9	0.021	0.17	0.7
K285753		2860	4.4	<0.002	3.09	682	0.8	43	5.3	9.2	0.05	2.27	2.2	0.023	0.40	0.8
K285754		6.9	0.8	<0.002	0.02	1.47	0.1	1	<0.2	49.3	<0.05	<0.05	<0.2	<0.005	<0.02	0.5
K285755		>10000	4.1	0.002	5.08	288	0.3	91	52.3	2.3	0.05	3.27	0.9	0.018	0.56	0.5
K285756		7140	56.3	0.002	1.47	159.0	2.2	61	78.5	27.9	0.30	2.68	5.5	0.121	0.83	1.9
K285757		64.0	92.9	<0.002	0.81	6.49	6.6	2	4.5	131.0	0.76	0.08	9.2	0.258	0.84	3.9
K285758		36.5	70.8	0.002	2.87	9.16	8.2	2	8.8	104.0	0.72	0.10	8.8	0.272	0.86	4.4
K285759		12.1	59.9	<0.002	2.75	10.65	8.5	2	8.7	103.0	0.71	0.07	8.8	0.265	0.78	4.4
K285760		17.0	62.3	0.003	2.31	7.78	12.2	1	2.6	372	0.86	0.10	9.8	0.305	0.72	5.5
K285761		47.6	98.5	0.003	2.21	14.90	8.6	7	19.0	106.5	0.78	<0.05	8.9	0.287	0.97	4.5
K285762		14.2	170.0	0.003	1.38	13.55	10.6	5	14.2	77.0	0.95	0.06	10.9	0.338	1.81	5.0
K285763		27.4	154.5	0.002	0.82	27.1	5.0	2	39.2	88.7	0.64	0.05	8.6	0.256	2.21	3.3
K285764		1075	92.3	0.016	1.00	8.28	7.6	25	151.5	211	0.60	0.25	6.0	0.287	0.81	3.3
K285765		5.3	6.6	<0.002	0.06	6.17	0.4	<1	4.6	7.4	0.06	<0.05	1.0	0.023	0.07	0.5
K285766		12.6	28.1	0.003	1.55	3.63	3.4	3	0.7	26.0	0.12	0.07	1.6	0.058	0.32	0.9
K285767		19.3	67.2	0.013	2.23	7.89	8.2	5	1.9	91.1	0.48	0.09	5.2	0.236	0.99	4.3
K285768		23.6	83.7	0.051	1.67	7.86	10.7	6	3.6	155.5	0.66	0.11	6.9	0.308	1.04	5.5
K285769		1110	95.2	0.016	1.05	8.29	7.9	25	154.5	222	0.60	0.31	6.4	0.294	0.86	3.4
K285770		16.3	97.0	0.015	1.43	9.65	10.7	5	3.9	139.5	0.75	0.08	7.5	0.342	1.25	6.2
K285771		5.8	79.5	<0.002	0.25	5.44	10.6	1	2.5	119.5	0.43	0.05	4.9	0.231	0.46	1.3
K285772		5.5	57.9	<0.002	0.11	6.47	8.9	1	2.0	93.5	0.34	<0.05	4.1	0.188	0.36	1.0
K285773		4.8	56.2	<0.002	0.22	13.35	9.8	1	1.7	97.0	0.34	0.05	4.5	0.182	0.28	1.5
K285774		5.5	67.2	0.008	0.15	4.50	12.3	1	1.5	99.9	0.30	0.09	4.0	0.202	0.32	1.8
K285775		8.9	81.8	0.002	0.27	11.85	14.3	1	1.8	118.0	0.26	0.17	3.6	0.188	0.36	2.5
K285776		1.6	1.3	<0.002	0.01	0.12	0.2	<1	0.2	52.1	<0.05	<0.05	<0.2	<0.005	<0.02	0.5
K285777		5.3	70.9	0.003	0.23	1.57	14.2	2	1.1	109.5	0.28	0.13	3.8	0.200	0.29	1.5
K285778		5.6	58.9	0.019	0.75	3.33	9.7	4	2.0	84.5	0.45	0.10	4.8	0.236	0.48	4.8
K285779		4.0	43.1	<0.002	0.27	4.73	12.9	1	1.4	78.6	0.22	0.07	2.6	0.155	0.36	1.2
K285780		2.4	27.1	<0.002	0.25	1.60	8.3	1	1.2	95.3	0.24	0.06	2.8	0.126	0.17	1.5
K285781		2.3	28.0	<0.002	0.28	1.61	8.8	<1	1.2	99.5	0.26	0.05	3.0	0.125	0.19	1.5
K285782		2.7	82.2	<0.002	0.67	10.35	10.0	1	4.8	127.5	0.44	0.07	5.0	0.224	0.46	1.3
K285783		3.1	111.5	<0.002	0.24	4.73	12.1	1	2.5	169.5	0.52	0.08	6.5	0.261	0.49	1.6
K285784		128.5	52.6	0.002	1.80	19.85	8.5	5	5.4	283	0.67	0.05	8.4	0.231	0.70	4.1
K285785		42.1	111.0	0.003	2.70	10.25	8.2	7	5.8	193.0	0.87	<0.05	10.6	0.303	1.12	4.9
K285786		8.8	133.0	0.002	1.48	7.26	8.6	1	4.1	118.5	0.98	0.06	12.1	0.331	1.15	4.6

***** See Appendix Page for comments regarding this certificate *****

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 28-JUL-2013
Account: RANSIL

Project: KEG - Owl SW

CERTIFICATE OF ANALYSIS WH13129420

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	Pb-OG62
	Analyte	V	W	Y	Zn	Zr	Ag	Pb
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	1	0.1	0.1	2	0.5	1	0.001
K285751		6	0.5	1.7	82	8.3		
K285752		8	0.3	2.0	1860	7.7		
K285753		11	0.4	2.5	3110	8.8		
K285754		1	0.1	0.8	26	<0.5		
K285755		11	0.6	1.9	1820	5.6	172	0.925
K285756		77	1.1	12.3	1070	62.4	141	
K285757		329	1.1	22.2	70	105.0		
K285758		383	1.1	29.8	466	94.4		
K285759		388	1.0	31.2	279	96.9		
K285760		436	1.1	26.0	1080	92.4		
K285761		373	1.2	32.0	386	96.7		
K285762		487	1.3	27.2	287	106.0		
K285763		286	2.7	20.5	1620	76.9		
K285764		141	2.4	26.0	3200	57.6		
K285765		12	0.3	3.4	135	8.3		
K285766		64	0.4	3.5	35	25.1		
K285767		166	1.1	20.3	142	61.6		
K285768		239	1.5	27.7	247	77.1		
K285769		147	2.6	26.6	3290	52.5		
K285770		185	1.3	26.3	526	80.7		
K285771		76	1.1	15.7	17	50.9		
K285772		78	0.8	14.0	17	40.4		
K285773		74	1.0	12.5	22	47.6		
K285774		91	1.0	13.9	106	52.8		
K285775		89	1.0	27.2	338	53.2		
K285776		3	0.1	0.8	19	0.6		
K285777		95	0.9	17.4	72	51.6		
K285778		125	1.0	20.8	80	68.4		
K285779		31	1.0	10.4	18	38.0		
K285780		29	0.9	11.5	21	35.7		
K285781		29	0.9	12.0	19	37.5		
K285782		74	1.0	17.2	32	49.6		
K285783		90	1.2	19.7	47	60.1		
K285784		274	0.8	50.2	35	89.9		
K285785		364	1.1	26.3	12	110.5		
K285786		378	1.2	24.4	81	112.0		

***** See Appendix Page for comments regarding this certificate *****

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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: KEG - Owl SW

Finalized Date: 28-JUL-2013
Account: RANSIL

CERTIFICATE OF ANALYSIS WH13129420

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method:	REE's may not be totally soluble in this method. ME-MS61
Applies to Method:	Interference: Samples with Ca>10%on ICP-MS As. ICP-AES As results reported (5 ppm DL) ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:	CRU-31	CRU-QC	LOG-22	LOG-22d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 28-JUL-2013
Account: RANSIL

CERTIFICATE WH13129421

Project: KEG - Owl SW

P.O. No.: Batch 13-O02

This report is for 29 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 17-JUL-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70%<2mm
CRU-QC	Crushing QC Test
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test
PUL-31	Pulverize split to 85%<75 um
LOG-22d	Sample login - Rcd w/o BarCode dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate
LOG-23	Pulp Login - Rcvd with Barcode

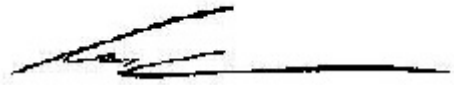
ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	VARIABLE
Ag-OG62	Ore Grade Ag - Four Acid	VARIABLE

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature: 

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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To: **SILVER RANGE RESOURCES LTD.**
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 28-JUL-2013
Account: RANSIL

Project: KEG - Owl SW

CERTIFICATE OF ANALYSIS WH13129421

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
K285787		2.62	0.45	5.74	15.3	610	1.54	0.16	1.04	0.76	68.9	4.2	79	8.75	15.8	3.14
K285788		5.47	0.78	3.80	17.2	370	1.28	0.21	7.18	0.78	50.4	3.0	50	5.14	14.2	3.81
K285789		4.08	0.28	5.83	10.8	1980	2.01	0.16	1.74	0.04	73.6	4.3	80	8.23	8.6	1.50
K285790		3.26	0.30	6.02	12.9	1760	1.83	0.19	1.05	0.04	73.6	4.8	82	9.23	11.6	1.84
K285791		1.55	0.31	6.09	14.0	1590	1.85	0.20	0.95	0.15	77.5	4.7	81	9.63	11.4	1.75
K285792		4.98	0.35	6.20	29.6	1250	1.85	0.23	0.97	0.04	74.5	5.2	81	10.75	13.3	2.16
K285793		3.30	0.32	5.99	18.1	1090	1.83	0.18	0.98	<0.02	74.1	4.9	85	10.10	16.3	2.89
K285794		5.99	0.30	5.47	11.1	1740	1.33	0.13	0.80	0.04	68.6	4.3	65	6.52	9.7	1.36
K285795		0.23	38.3	3.81	356	450	1.04	133.5	7.16	185.0	42.7	8.3	72	5.83	1060	5.32
K285796		3.87	3.67	4.10	46.7	540	1.28	4.05	3.58	2.71	52.6	3.1	58	6.14	62.4	3.12
K285797		2.84	1.01	4.36	228	1920	1.04	0.78	1.14	1.81	58.7	3.1	66	7.35	26.5	1.54
K285798		6.18	67.8	0.50	2970	320	0.10	87.4	0.17	50.4	28.3	2.8	30	0.52	110.0	3.54
K285799		2.14	0.10	0.04	<5	60	0.05	0.18	21.8	0.14	1.04	0.6	<1	0.09	1.8	0.48
K285800		4.73	0.63	1.23	309	1010	0.27	0.26	0.14	0.17	24.3	2.6	50	1.80	20.3	1.01
K285853		4.07	1.26	0.40	419	140	0.08	0.14	0.19	0.23	5.06	2.0	23	0.48	13.2	0.62
K285854		6.20	49.2	0.96	544	330	0.23	61.0	0.09	0.54	13.20	2.6	36	1.04	11.5	0.82
K285855		3.23	>100	1.54	630	250	0.38	197.0	0.69	175.0	8.18	3.0	34	1.79	114.0	6.12
K285856		2.34	0.33	0.06	<5	50	0.06	0.35	21.3	0.22	1.05	0.7	<1	0.26	1.2	0.47
K285857		4.97	14.25	0.23	172.0	110	0.07	12.70	0.12	0.62	13.95	1.3	23	0.30	39.7	1.59
K285858		6.05	1.76	1.14	1660	400	0.33	0.69	0.68	0.64	17.25	7.0	33	1.65	21.8	0.90
K285859		2.99	0.84	6.19	87.6	1390	1.89	0.65	2.99	1.62	52.8	14.5	73	10.00	79.0	3.22
K285860		3.95	0.85	5.52	119.5	880	1.81	0.44	2.12	5.16	52.5	19.9	73	10.85	82.6	3.31
K285861		3.69	0.83	5.15	84.4	890	1.52	0.33	2.22	4.89	58.1	15.5	65	8.20	79.2	3.39
K285862		<0.02	0.84	5.01	84.6	1030	1.51	0.30	2.18	5.11	57.6	15.2	66	8.33	78.8	3.27
K285863		3.43	0.49	3.64	209	780	0.85	0.30	1.06	0.09	34.3	7.5	70	5.51	50.7	1.96
K285864		7.03	0.79	4.76	320	340	1.28	0.70	2.75	21.1	48.7	18.1	81	9.33	116.5	3.32
K285865		3.28	0.55	5.38	26.8	960	1.80	0.66	3.76	0.14	52.1	10.8	77	8.51	82.4	2.69
K285866		4.11	0.33	2.85	3.8	2450	0.96	0.17	0.92	0.08	32.3	11.3	72	6.46	96.4	3.41
K285867		3.78	0.92	3.79	17.5	310	0.99	0.21	0.42	0.14	33.7	9.1	79	7.39	56.0	3.18

***** See Appendix Page for comments regarding this certificate *****

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VANCOUVER BC V6B 1L8

Finalized Date: 28- JUL- 2013
Account: RANSIL

Project: KEG - Owl SW

CERTIFICATE OF ANALYSIS WH13129421

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
K285787		13.85	0.18	3.3	0.045	2.18	39.8	37.3	0.37	40	1.92	0.09	18.4	42.8	1030	7.6
K285788		9.31	0.15	2.5	0.037	0.64	29.5	15.0	2.72	364	1.38	0.14	11.8	36.8	740	9.3
K285789		14.70	0.18	3.4	0.017	1.98	43.0	37.6	0.46	44	2.46	0.14	17.0	37.6	1140	4.0
K285790		14.55	0.17	3.2	0.028	2.37	42.0	41.9	0.45	38	2.41	0.10	16.7	33.9	1240	3.7
K285791		15.05	0.16	3.2	0.033	2.43	44.5	42.7	0.43	34	2.31	0.10	17.7	34.5	1210	3.7
K285792		15.05	0.16	3.1	0.032	2.55	43.1	42.4	0.46	41	3.67	0.09	17.9	39.3	1210	4.1
K285793		14.55	0.17	3.1	0.033	2.32	42.4	42.5	0.51	47	3.27	0.10	17.3	39.4	1300	4.0
K285794		12.50	0.17	3.3	0.023	2.57	38.7	37.5	0.33	33	1.95	0.10	14.5	31.7	1130	4.5
K285795		11.25	0.25	1.5	9.24	1.61	23.4	32.3	2.22	1920	11.80	0.20	7.9	46.9	1210	2790
K285796		10.30	0.17	2.5	0.050	1.03	30.1	55.0	1.89	284	1.41	0.10	12.0	28.8	1010	131.0
K285797		10.30	0.15	2.7	0.032	3.20	33.0	23.2	0.28	70	3.16	0.12	12.4	38.8	1230	41.0
K285798		1.37	0.14	0.5	0.626	0.20	14.2	5.1	0.06	125	0.80	0.01	1.6	19.7	160	1980
K285799		0.20	0.19	<0.1	0.005	0.02	0.5	0.9	13.50	207	1.18	0.01	0.1	1.5	200	4.5
K285800		2.97	0.13	2.1	0.006	0.75	12.7	13.3	0.10	40	0.55	0.03	4.4	10.6	200	14.3
K285853		0.91	0.09	0.7	<0.005	0.14	2.3	5.0	0.04	52	0.40	0.01	1.7	7.0	90	5.8
K285854		2.10	0.13	1.3	<0.005	0.35	5.6	7.8	0.07	68	0.49	0.01	3.5	9.3	150	1630
K285855		5.28	0.19	0.8	2.10	0.50	3.2	12.6	0.27	431	0.59	0.01	3.5	14.5	130	4860
K285856		0.24	0.18	<0.1	0.005	0.03	0.5	1.2	13.15	202	0.09	<0.01	0.2	1.6	170	9.9
K285857		0.88	0.06	0.2	0.009	0.09	6.1	5.3	0.02	51	0.34	0.01	0.8	6.3	200	374
K285858		2.98	0.08	1.1	0.011	0.47	8.0	12.2	0.06	163	0.53	0.01	4.1	16.0	190	23.8
K285859		16.35	0.15	2.4	0.030	2.05	27.6	51.7	1.85	416	27.2	0.61	12.1	58.3	1620	14.3
K285860		15.00	0.16	2.3	0.087	2.21	28.1	41.2	1.44	469	45.7	0.91	10.6	62.1	980	16.7
K285861		14.65	0.17	2.3	0.096	1.91	30.3	48.6	1.80	715	23.7	0.76	10.5	63.7	1780	20.0
K285862		14.80	0.16	2.3	0.095	1.88	30.1	49.9	1.75	695	23.8	0.74	10.3	63.1	1700	20.1
K285863		8.92	0.13	1.5	0.011	2.54	17.2	29.6	0.53	120	0.84	0.11	5.8	41.6	210	7.9
K285864		12.75	0.15	1.9	0.502	2.44	24.0	44.7	1.70	318	7.70	0.26	8.3	60.0	980	12.9
K285865		15.00	0.16	2.1	0.012	2.05	27.5	57.7	2.58	444	7.93	0.49	10.1	62.7	1100	7.9
K285866		10.90	0.10	0.9	0.041	0.96	19.2	29.1	0.72	7400	1.60	0.05	3.4	47.5	390	5.1
K285867		10.15	0.12	1.7	0.014	1.32	16.7	29.0	0.45	160	1.38	0.04	5.8	47.1	360	6.3

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
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Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 28- JUL- 2013
Account: RANSIL

Project: KEG - Owl SW

CERTIFICATE OF ANALYSIS WH13129421

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1
K285787		125.5	<0.002	2.19	9.47	8.4	1	3.6	100.5	1.08	<0.05	12.2	0.339	1.37	5.3	356
K285788		35.5	0.004	2.32	4.62	6.1	2	6.1	230	0.70	<0.05	8.8	0.237	0.53	4.8	254
K285789		115.5	<0.002	0.85	6.57	9.4	1	4.1	270	1.04	0.06	12.5	0.338	1.24	6.3	420
K285790		130.5	<0.002	1.10	3.32	8.8	1	5.4	164.5	1.02	0.06	12.6	0.345	1.42	6.2	428
K285791		136.5	0.002	1.03	3.73	9.4	1	5.8	151.5	1.07	0.07	13.3	0.343	1.40	6.0	422
K285792		145.5	<0.002	1.28	3.94	9.3	1	7.4	131.5	1.10	0.07	12.3	0.347	1.52	5.4	424
K285793		134.0	<0.002	1.84	2.95	9.1	2	7.7	146.5	1.08	0.08	11.9	0.333	1.59	5.7	428
K285794		148.5	0.002	0.82	5.03	6.8	1	5.0	95.2	0.91	<0.05	12.9	0.277	1.60	4.7	308
K285795		83.4	0.014	2.63	11.65	7.3	56	143.0	182.0	0.56	0.53	5.8	0.267	0.95	3.5	123
K285796		73.2	0.002	1.79	4.65	7.2	10	13.6	116.5	0.72	0.17	8.4	0.244	0.94	4.3	308
K285797		178.0	<0.002	0.73	11.50	6.6	2	21.5	131.5	0.77	<0.05	9.6	0.246	2.16	4.8	299
K285798		10.5	<0.002	3.00	37.0	1.6	28	17.7	7.5	0.10	2.14	1.9	0.039	0.41	0.8	25
K285799		0.8	<0.002	<0.01	0.07	0.2	<1	<0.2	44.5	<0.05	<0.05	<0.2	<0.005	<0.02	0.6	2
K285800		40.2	<0.002	0.65	5.37	1.9	2	17.8	20.2	0.27	<0.05	4.5	0.102	0.48	1.4	46
K285853		7.5	<0.002	0.33	3.84	0.6	1	6.5	7.3	0.10	<0.05	1.5	0.039	0.10	0.5	18
K285854		24.5	<0.002	0.47	26.5	1.3	18	17.6	9.5	0.23	1.62	3.3	0.084	0.32	1.0	47
K285855		40.2	<0.002	5.28	85.9	2.2	62	34.9	7.6	0.25	4.53	2.8	0.085	0.82	1.1	75
K285856		1.5	<0.002	0.01	0.17	0.2	<1	0.2	50.1	<0.05	<0.05	<0.2	<0.005	<0.02	0.6	1
K285857		5.4	<0.002	1.27	16.40	0.4	7	4.9	4.4	0.05	0.35	0.8	0.018	0.12	0.4	9
K285858		32.9	<0.002	0.60	8.90	1.3	2	10.6	11.0	0.24	0.09	3.5	0.085	0.29	1.0	59
K285859		111.5	0.044	1.80	4.15	11.3	7	9.1	232	0.85	0.08	7.9	0.384	1.71	6.7	380
K285860		112.5	0.038	2.08	6.07	10.4	13	4.4	208	0.84	0.12	8.4	0.350	1.63	6.1	310
K285861		92.0	0.044	2.03	5.70	10.5	8	4.1	189.5	0.77	0.08	7.7	0.333	1.30	7.5	270
K285862		90.8	0.042	1.96	5.69	10.6	7	4.1	185.5	0.78	0.09	7.8	0.330	1.38	7.7	266
K285863		117.0	0.007	0.66	2.99	10.0	4	11.0	162.0	0.40	0.07	4.7	0.227	1.40	1.9	101
K285864		137.0	0.012	1.94	4.58	10.5	7	16.8	218	0.64	0.11	6.0	0.291	1.74	3.2	165
K285865		121.5	0.011	1.31	5.31	11.9	7	10.7	261	0.75	0.06	7.3	0.341	1.50	3.2	183
K285866		47.2	<0.002	0.34	3.99	11.6	1	2.2	117.5	0.25	0.08	3.1	0.163	0.65	1.0	82
K285867		67.6	0.012	2.07	12.35	10.3	7	2.2	91.5	0.41	<0.05	5.1	0.235	1.30	2.9	119

***** See Appendix Page for comments regarding this certificate *****

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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 28-JUL-2013
Account: RANSIL

Project: KEG - Owl SW

CERTIFICATE OF ANALYSIS WH13129421

Sample Description	Method / Analyte / Units / LOR	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Zn-OG62 Zn % 0.001	Ag-OG62 Ag ppm 1
K285787		1.2	27.2	358	111.0		
K285788		0.7	24.8	266	88.7		
K285789		1.4	26.1	18	113.5		
K285790		1.3	25.1	22	109.5		
K285791		1.4	24.8	51	112.5		
K285792		1.3	25.0	16	109.5		
K285793		1.3	25.4	15	102.5		
K285794		1.2	21.6	17	110.5		
K285795		3.2	25.0	9150	45.6		
K285796		0.9	26.3	232	88.0		
K285797		1.5	21.1	182	90.3		
K285798		0.5	3.8	4420	17.2		
K285799		0.1	0.8	21	0.9		
K285800		1.0	6.1	32	64.8		
K285853		0.5	3.1	35	17.5		
K285854		1.1	5.1	84	64.0		
K285855		1.0	7.5	>10000	28.2	1.420	147
K285856		0.1	0.8	31	0.6		
K285857		0.4	2.7	59	6.1		
K285858		1.0	6.1	118	34.4		
K285859		1.9	29.9	193	83.6		
K285860		1.6	29.3	433	79.9		
K285861		1.3	32.9	424	84.1		
K285862		1.4	33.8	424	81.0		
K285863		0.9	14.6	16	63.5		
K285864		1.4	25.6	2140	67.1		
K285865		1.3	31.1	25	75.4		
K285866		0.9	19.0	116	36.7		
K285867		1.0	18.2	52	61.5		

***** See Appendix Page for comments regarding this certificate *****

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Project: KEG - Owl SW

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 28-JUL-2013
Account: RANSIL

CERTIFICATE OF ANALYSIS WH13129421

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method:	REE's may not be totally soluble in this method. ME-MS61
Applies to Method:	Interference: Samples with Ca>10%on ICP-MS As. ICP-AES As results reported (5 ppm DL) ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:	CRU-31	CRU-QC	LOG-22	LOG-22d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:	Ag-OG62	ME-MS61	ME-OG62	Zn-OG62

ALS Canada Ltd.
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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 15-AUG-2013
Account: RANSIL

CERTIFICATE WH13136045

Project: KEG - XXII

P.O. No.:

This report is for 24 Rock samples submitted to our lab in Whitehorse, YT, Canada on 26-JUL-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70%<2mm
CRU-QC	Crushing QC Test
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test
PUL-31	Pulverize split to 85%<75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	VARIABLE
Ag-OG62	Ore Grade Ag - Four Acid	VARIABLE
Pb-OG62	Ore Grade Pb - Four Acid	VARIABLE
Zn-VOL50	Zn by titration	

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 15-AUG-2013
Account: RANSIL

Project: KEG - XXII

CERTIFICATE OF ANALYSIS WH13136045

Sample Description	Method	WEI-21	Au-AA24	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L840427		2.20	0.006	27.2	5.51	803	1790	0.90	8.13	0.49	12.45	54.6	4.1	69	5.86	37.8
L840428		2.10	<0.005	1.01	5.89	31.9	930	1.52	0.72	1.52	14.15	71.1	3.1	72	4.06	10.4
L840433		1.53	<0.005	0.39	5.99	16.7	1810	1.40	0.29	0.29	0.81	65.8	2.0	72	6.50	17.3
L840434		2.02	<0.005	38.9	5.75	3.9	550	1.72	1.94	2.95	93.4	68.0	3.2	76	5.67	38.4
M676909		1.02	0.005	2.52	2.84	145.5	1880	0.10	2.43	0.09	0.85	9.29	0.8	43	1.59	9.5
M676910		1.22	<0.005	3.46	0.88	146.5	250	0.12	11.90	0.20	0.87	13.25	1.3	26	0.66	14.5
M676911		1.55	<0.005	17.65	2.87	181.5	1000	0.32	40.6	0.29	0.23	27.4	1.4	44	2.64	27.2
M676912		1.17	<0.005	0.29	4.61	16.1	820	1.29	0.49	7.77	0.20	55.2	3.1	57	1.71	11.6
M676913		1.22	<0.005	24.2	3.53	54.8	890	0.52	252	0.14	10.35	28.5	0.8	43	2.07	21.6
M676914		1.82	0.078	>100	2.07	24.0	130	0.43	1985	0.92	>1000	32.1	14.3	27	0.60	330
M676915		1.97	0.052	14.45	2.93	502	350	0.68	2.86	2.23	116.0	41.5	7.7	40	2.02	49.4
M676916		2.05	<0.005	2.11	5.21	15.0	760	1.30	3.29	7.44	1.76	71.2	3.6	63	2.69	9.8
M676917		1.18	<0.005	16.65	0.11	311	10	0.18	46.2	0.27	16.50	3.41	1.3	15	0.13	39.0
M676918		1.64	<0.005	0.91	6.28	12.0	960	1.66	1.56	2.73	7.91	71.5	5.5	84	3.57	21.4
M676919		1.63	<0.005	10.95	0.20	223	<10	0.38	24.5	0.65	20.3	3.78	1.4	13	0.13	39.9
M676920		1.26	<0.005	0.32	6.91	5.7	700	1.08	0.49	9.16	0.24	63.9	40.6	132	10.50	34.3
M676921		1.85	<0.005	0.83	8.16	27.7	1100	1.45	2.54	4.03	0.37	84.9	21.1	48	4.32	40.8
M676922		1.36	<0.005	0.36	4.08	13.7	560	1.13	0.38	1.59	0.22	38.4	3.4	50	3.82	22.9
M676923		1.79	<0.005	0.22	6.42	10.6	1450	2.03	0.39	1.73	0.31	65.2	4.3	73	7.30	35.3
M676924		1.65	<0.005	16.10	6.54	449	1490	1.77	3.90	1.16	11.10	59.4	4.1	69	6.85	42.6
M676925		1.75	<0.005	5.98	0.39	193.5	80	0.78	2.15	1.34	0.35	4.33	0.4	17	0.24	11.4
M676926		1.70	<0.005	0.46	5.16	4.9	570	1.33	0.53	1.71	0.19	68.2	1.8	50	3.46	13.5
M676927		2.41	0.006	29.5	2.51	19.2	80	0.87	0.08	1.91	>1000	27.0	32.9	26	1.53	618
M676928		1.96	<0.005	2.41	3.08	15.6	410	0.83	0.18	0.81	223	32.3	2.1	45	3.96	48.5

***** See Appendix Page for comments regarding this certificate *****

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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 15- AUG- 2013
Account: RANSIL

Project: KEG - XXII

CERTIFICATE OF ANALYSIS WH13136045

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
L840427		3.07	13.55	0.22	2.1	0.476	5.59	28.9	36.1	0.99	136	3.62	0.15	10.7	20.1	740
L840428		1.60	13.55	0.15	2.5	0.021	2.79	39.4	15.6	0.88	111	1.44	0.13	14.3	42.6	530
L840433		1.42	16.60	0.16	2.5	0.053	2.73	34.9	18.1	0.62	87	2.63	0.04	12.0	12.5	590
L840434		3.53	14.85	0.34	2.4	1.835	2.29	39.3	15.5	1.65	176	1.90	0.17	17.4	34.1	530
M676909		1.63	6.06	0.10	1.1	0.256	2.66	4.7	22.9	1.07	329	0.49	0.04	5.4	6.7	220
M676910		1.93	2.65	0.09	0.6	0.028	0.52	7.1	16.1	0.74	168	0.66	0.01	2.2	4.4	130
M676911		2.55	6.52	0.12	1.8	0.028	2.32	14.1	26.8	1.22	249	1.37	0.05	7.4	7.6	320
M676912		2.05	10.90	0.12	2.4	0.020	2.07	32.1	13.9	0.90	225	1.45	0.14	14.0	24.0	450
M676913		15.60	12.90	0.16	1.6	0.182	2.36	15.6	23.6	2.22	240	2.26	0.03	9.3	3.4	390
M676914		21.1	5.94	2.84	0.9	23.1	1.08	14.9	5.3	0.43	695	0.74	0.04	7.5	56.1	210
M676915		4.59	7.37	0.18	1.2	1.815	2.32	20.9	10.1	2.86	313	1.18	0.06	6.3	24.4	1000
M676916		1.88	12.00	0.18	2.6	0.069	2.09	40.4	16.9	0.79	143	1.52	0.12	19.5	28.3	470
M676917		3.24	1.12	0.10	0.2	1.965	0.02	1.2	4.2	0.76	92	1.43	0.01	0.3	4.5	90
M676918		2.49	15.65	0.15	2.7	0.029	2.23	41.6	20.4	1.00	166	2.03	0.17	19.0	38.2	590
M676919		2.69	1.58	0.07	0.2	1.870	0.01	1.0	5.8	1.58	149	0.91	0.01	0.3	9.2	110
M676920		5.54	15.50	0.23	2.2	0.066	3.92	28.5	23.4	3.49	694	0.61	0.33	47.1	122.0	2370
M676921		7.64	18.80	0.26	3.0	0.088	5.09	42.3	20.4	2.29	494	0.41	0.38	69.2	54.8	2780
M676922		1.96	11.85	0.13	1.6	0.035	1.23	21.6	28.0	1.47	210	1.96	0.18	8.5	21.5	520
M676923		2.09	18.30	0.20	2.8	0.019	3.16	35.7	40.4	1.17	93	4.03	0.66	14.2	23.8	790
M676924		3.77	16.95	0.25	2.7	0.579	4.82	32.9	44.7	1.50	154	3.94	0.87	13.1	22.3	740
M676925		2.46	2.74	0.10	0.3	1.070	0.18	2.4	7.6	1.91	274	0.43	0.02	1.1	2.1	70
M676926		1.15	12.20	0.18	3.2	0.012	2.88	34.6	29.9	1.29	107	1.62	0.18	9.6	15.1	560
M676927		1.79	26.0	0.16	1.0	0.072	1.24	13.0	14.1	1.31	388	0.21	0.06	4.6	20.5	170
M676928		1.59	41.1	0.37	1.8	1.505	1.40	16.7	31.6	1.37	339	0.83	0.06	5.6	13.2	310

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 15- AUG- 2013
Account: RANSIL

Project: KEG - XXII

CERTIFICATE OF ANALYSIS WH13136045

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
L840427		2060	237	0.004	0.49	31.9	9.3	20	9.0	266	0.71	0.49	10.1	0.280	4.43	3.4
L840428		16.5	138.0	<0.002	0.13	5.00	9.5	1	4.2	147.0	0.87	<0.05	11.7	0.316	2.48	3.1
L840433		10.1	133.5	0.002	0.07	4.03	11.0	2	2.0	48.7	0.81	0.06	11.2	0.317	1.46	3.9
L840434		8400	128.5	<0.002	2.44	46.7	9.6	90	12.1	227	0.89	0.69	10.9	0.305	1.74	3.6
M676909		88.1	109.0	<0.002	0.19	57.3	4.2	2	58.6	70.6	0.32	<0.05	4.1	0.118	2.05	1.2
M676910		80.2	21.1	<0.002	0.07	16.45	1.5	2	12.8	14.7	0.12	0.31	2.0	0.049	0.45	0.6
M676911		440	95.5	<0.002	0.20	89.7	4.1	8	95.1	93.3	0.41	0.92	5.7	0.150	1.79	1.7
M676912		11.6	80.4	<0.002	0.61	1.03	7.4	1	4.3	311	0.75	<0.05	9.1	0.241	0.75	2.8
M676913		225	96.6	<0.002	0.41	44.7	3.9	18	6.0	70.1	0.50	0.60	5.4	0.169	0.99	7.4
M676914		>10000	35.9	<0.002	>10.0	107.5	2.9	>1000	41.8	79.0	0.36	44.1	4.1	0.116	1.77	1.2
M676915		7570	81.4	0.002	2.99	3400	5.3	26	29.8	73.4	0.37	1.00	5.1	0.144	1.33	2.0
M676916		102.0	94.2	<0.002	0.64	6.76	8.7	4	1.5	573	0.97	0.14	11.2	0.281	0.73	3.5
M676917		95.9	0.8	<0.002	0.05	33.3	0.3	3	45.1	3.1	<0.05	0.44	0.6	0.008	0.02	0.6
M676918		29.0	99.0	<0.002	0.17	2.78	10.8	3	6.8	258	1.01	0.07	12.0	0.331	1.20	3.8
M676919		56.6	0.7	<0.002	0.04	18.85	0.6	3	22.9	2.7	<0.05	0.18	0.7	0.007	0.02	0.6
M676920		6.4	153.5	<0.002	2.12	1.28	20.3	2	2.1	343	2.82	<0.05	3.6	1.265	1.70	0.8
M676921		10.2	148.5	<0.002	2.85	3.09	18.0	5	27.6	415	4.47	0.05	6.0	1.475	2.77	1.3
M676922		23.3	60.4	0.002	0.21	4.19	7.3	3	1.5	107.5	0.57	<0.05	7.5	0.209	0.45	2.1
M676923		17.0	132.5	0.004	0.36	2.63	11.3	6	1.9	165.5	0.95	0.12	12.6	0.334	1.79	4.0
M676924		1075	193.5	0.003	0.42	27.4	11.0	16	8.3	269	0.89	0.19	12.0	0.319	3.34	3.9
M676925		232	6.3	<0.002	0.19	12.70	1.0	5	35.0	11.4	0.06	<0.05	0.8	0.022	0.12	0.2
M676926		20.6	98.0	0.002	0.14	2.11	6.0	2	2.0	122.0	0.68	<0.05	11.2	0.266	0.84	3.0
M676927		400	43.8	<0.002	>10.0	301	5.2	27	1.3	72.7	0.30	0.07	3.9	0.125	0.29	1.2
M676928		11.0	51.9	<0.002	1.52	5.05	4.8	6	2.2	51.4	0.41	<0.05	5.9	0.168	0.47	1.7

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To: **SILVER RANGE RESOURCES LTD.**
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 15-AUG-2013
Account: RANSIL

Project: KEG - XXII

CERTIFICATE OF ANALYSIS WH13136045

Sample Description	Method / Analyte / Units / LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Zn-OG62 Zn % 0.001	Ag-OG62 Ag ppm 1	Pb-OG62 Pb % 0.001	Zn-VOL50 Zn % 0.01
L840427		206	1.3	17.3	642	77.5				
L840428		310	1.3	21.3	571	89.3				
L840433		312	1.4	18.3	68	87.6				
L840434		371	11.0	24.8	7040	89.5				
M676909		170	1.5	3.5	121	38.2				
M676910		62	0.7	4.0	80	19.0				
M676911		163	0.5	8.6	37	60.2				
M676912		264	1.0	17.9	46	75.8				
M676913		364	1.9	4.8	891	45.0				
M676914		121	1.3	19.4	>10000	30.1	9.73	982	4.18	
M676915		158	0.8	20.0	9790	42.5				
M676916		307	1.0	22.5	165	95.8				
M676917		10	0.3	2.4	463	5.6				
M676918		401	2.1	22.7	630	105.5				
M676919		18	0.2	3.2	1200	6.5				
M676920		190	0.7	21.0	53	81.3				
M676921		165	1.3	23.5	68	157.0				
M676922		151	0.8	12.0	84	55.6				
M676923		276	1.1	20.2	51	96.4				
M676924		251	1.0	18.2	630	88.7				
M676925		39	0.1	3.0	148	8.4				
M676926		69	0.7	23.1	22	105.5				
M676927		34	0.6	6.6	>10000	34.1	>30.0			30.44
M676928		59	0.5	11.2	>10000	57.5	3.02			

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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 15-AUG-2013
Account: RANSIL

Project: KEG - XXII

CERTIFICATE OF ANALYSIS WH13136045

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-22	PUL-31
	PUL-QC	SPL-21	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62	Zn-OG62	Zn-VOL50	

ALS Canada Ltd.

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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 12-AUG-2013
Account: RANSIL

CERTIFICATE WH13136046

Project: KEG - Archimedes

P.O. No.:

This report is for 6 Rock samples submitted to our lab in Whitehorse, YT, Canada on 26-JUL-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70%<2mm
CRU-QC	Crushing QC Test
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test
PUL-31	Pulverize split to 85%<75 um

ANALYTICAL PROCEDURES

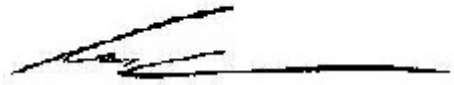
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
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To: **SILVER RANGE RESOURCES LTD.**
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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 12- AUG- 2013
Account: RANSIL

Project: KEG - Archimedes

CERTIFICATE OF ANALYSIS WH13136046

Sample Description	Method	WEI-21	Au-AA24	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M676929		1.53	<0.005	3.49	1.69	791	3200	0.24	0.26	5.37	4.35	28.7	0.9	30	1.84	55.7
M676930		1.36	0.006	1.46	0.78	76.9	250	0.36	0.34	0.02	<0.02	13.55	0.5	56	0.85	138.5
M676931		1.61	0.019	1.96	4.07	438	930	1.06	0.62	0.01	0.03	20.6	0.4	60	3.81	348
M676932		1.52	0.011	1.87	1.94	481	1580	2.17	2.48	0.05	0.03	81.7	0.3	84	1.47	132.0
M676933		1.21	<0.005	2.10	1.04	390	1700	0.48	0.44	0.02	0.12	202	0.6	72	0.68	248
M676934		1.35	0.005	43.7	1.92	766	1650	0.26	0.53	0.03	3.65	18.90	0.7	36	1.16	52.1

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Finalized Date: 12- AUG- 2013
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Project: KEG - Archimedes

CERTIFICATE OF ANALYSIS WH13136046

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
M676929		0.74	3.68	0.06	1.8	0.149	0.65	13.7	17.7	0.54	395	0.47	0.02	10.8	7.4	230
M676930		2.74	2.73	0.08	0.5	0.101	0.23	6.1	13.7	0.04	39	1.49	0.01	1.5	6.3	380
M676931		8.25	11.70	0.13	1.5	0.308	1.68	9.6	26.8	0.20	47	4.55	0.02	4.7	4.7	580
M676932		5.27	7.48	0.17	0.8	0.382	0.63	43.6	14.1	0.10	34	20.2	0.02	2.1	2.2	2960
M676933		11.55	8.00	0.31	0.4	0.218	0.40	114.0	9.8	0.02	32	7.50	0.01	1.1	2.7	2420
M676934		2.05	4.84	0.05	2.2	11.45	1.75	13.6	8.7	0.08	52	0.47	0.03	12.0	3.6	210

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CERTIFICATE OF ANALYSIS WH13136046

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
M676929		224	35.2	<0.002	0.23	129.5	2.1	1	89.5	76.9	0.43	0.07	5.1	0.102	0.64	1.4
M676930		528	12.6	0.002	0.01	13.45	5.1	13	35.5	26.1	0.10	0.16	1.8	0.045	0.26	1.4
M676931		401	93.4	<0.002	0.04	132.5	13.6	22	33.0	34.2	0.43	0.32	3.9	0.110	1.59	4.8
M676932		2090	33.0	<0.002	0.04	177.5	16.7	8	27.5	453	0.13	0.41	3.5	0.066	0.65	5.0
M676933		1710	12.4	<0.002	0.30	66.1	6.5	17	3.5	96.9	0.08	0.19	6.9	0.036	0.58	3.5
M676934		3170	68.6	<0.002	0.16	123.0	1.8	5	92.8	59.8	0.47	0.09	5.5	0.123	1.43	1.4

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Project: KEG - Archimedes

CERTIFICATE OF ANALYSIS WH13136046

Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
M676929		68	0.7	11.6	430	67.8
M676930		109	0.3	3.0	12	19.8
M676931		203	1.0	6.2	29	52.8
M676932		459	0.7	17.3	57	32.0
M676933		356	0.3	7.6	78	14.6
M676934		73	0.4	5.2	606	77.4

***** See Appendix Page for comments regarding this certificate *****

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CERTIFICATE OF ANALYSIS WH13136046

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

CRU-31	CRU-QC	LOG-22	PUL-31
PUL-QC	SPL-21	WEI-21	

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-AA24	ME-MS61

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 12-AUG-2013
Account: RANSIL

CERTIFICATE WH13136047

Project: KEG - Euclid

P.O. No.:

This report is for 14 Rock samples submitted to our lab in Whitehorse, YT, Canada on 26-JUL-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70%<2mm
CRU-QC	Crushing QC Test
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test
PUL-31	Pulverize split to 85%<75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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VANCOUVER BC V6B 1L8

Finalized Date: 12- AUG- 2013
Account: RANSIL

Project: KEG - Euclid

CERTIFICATE OF ANALYSIS WH13136047

Sample Description	Method	WEI-21	Au-AA24	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L840429		2.05	<0.005	1.27	3.47	2.2	80	1.78	6.45	4.76	15.95	8.86	4.3	35	0.41	32.7
L840430		1.31	<0.005	0.25	5.17	17.3	1760	1.64	3.42	0.56	0.32	62.5	16.4	58	6.08	84.5
L840431		1.83	<0.005	0.39	2.78	12.9	4130	0.82	0.93	0.22	8.34	23.2	0.7	65	3.76	22.7
L840432		2.31	<0.005	0.43	4.54	5	550	1.88	0.21	10.40	0.20	52.1	25.0	56	9.10	9.1
M676908		1.26	<0.005	1.87	2.01	28.0	430	2.17	0.19	0.76	1.01	36.1	1.8	148	3.59	63.0
M676935		1.62	<0.005	1.10	5.33	135.5	610	1.93	9.05	1.92	62.5	60.0	8.3	93	4.49	107.0
M676936		1.63	<0.005	0.35	3.48	2.7	570	0.39	1.48	0.87	0.19	108.5	2.9	60	4.23	37.0
M676937		1.42	<0.005	1.05	3.97	2.0	340	1.05	5.84	2.60	0.15	53.4	4.4	42	2.02	42.8
M676938		2.16	<0.005	0.48	4.29	11.9	>10000	1.50	0.33	0.79	1.04	57.5	3.6	64	0.80	16.3
M676939		1.49	0.039	68.1	2.02	1440	520	1.91	332	0.05	14.60	32.6	4.9	21	0.73	148.5
M676940		1.19	<0.005	2.52	4.81	53.3	520	4.85	22.1	0.05	3.56	61.3	1.6	50	2.65	45.9
M676941		1.82	<0.005	0.57	4.21	3.7	740	1.01	0.95	0.98	0.18	76.1	5.0	48	2.88	18.7
M676942		1.57	<0.005	0.94	4.40	16.6	650	1.07	4.88	0.59	0.31	56.5	3.7	45	3.21	34.9
M676943		1.50	0.022	6.61	3.63	3010	680	1.25	15.85	0.15	4.20	11.75	30.9	40	1.26	65.9

***** See Appendix Page for comments regarding this certificate *****

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To: **SILVER RANGE RESOURCES LTD.**
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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 12- AUG- 2013
Account: RANSIL

Project: KEG - Euclid

CERTIFICATE OF ANALYSIS WH13136047

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
L840429		11.00	11.55	0.07	1.4	0.138	1.16	1.9	3.1	5.40	432	2.06	0.06	6.8	23.0	630
L840430		5.59	11.75	0.14	2.5	0.021	1.67	32.3	28.8	1.68	158	1.26	0.05	10.1	26.7	2130
L840431		2.44	9.37	0.06	2.1	0.070	1.52	15.2	10.8	0.67	58	18.95	0.07	8.6	14.1	710
L840432		3.23	11.70	0.11	2.1	0.024	1.96	27.1	10.8	4.89	510	1.40	0.12	10.0	42.4	4820
M676908		2.91	5.67	0.13	0.7	0.045	0.75	20.2	14.8	0.68	86	54.4	0.01	4.1	43.5	6080
M676935		3.93	15.20	0.18	2.7	0.432	2.27	32.2	38.1	1.30	90	59.1	0.12	11.2	106.5	2410
M676936		5.52	11.75	0.17	2.1	0.008	2.09	55.9	16.6	1.25	74	3.13	0.04	6.2	9.6	590
M676937		5.37	9.94	0.13	2.2	0.010	1.81	25.7	10.6	1.92	162	1.90	0.11	7.4	21.0	500
M676938		5.98	11.60	0.09	2.0	0.021	0.89	31.9	4.3	0.94	116	5.85	<0.01	10.4	22.2	670
M676939		9.99	3.99	0.24	1.2	0.023	1.15	13.9	6.7	0.33	46	28.1	0.06	3.1	28.5	1080
M676940		6.55	11.30	0.12	2.7	0.032	2.83	29.3	20.7	1.35	63	8.07	0.05	7.4	17.1	2180
M676941		1.97	10.45	0.12	2.5	0.009	2.43	32.5	13.8	1.21	87	0.82	0.08	6.8	37.9	1240
M676942		3.50	11.45	0.13	2.5	0.007	2.96	25.0	13.4	1.14	71	0.64	0.10	7.4	33.1	530
M676943		16.90	9.61	0.10	2.1	0.017	2.91	6.4	18.0	1.51	203	4.17	0.07	7.6	119.0	260

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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 12- AUG- 2013
Account: RANSIL

Project: KEG - Euclid

CERTIFICATE OF ANALYSIS WH13136047

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
L840429		11.2	31.6	0.003	3.87	2.43	6.6	4	2.8	104.0	0.46	<0.05	3.9	0.176	0.95	1.6
L840430		7.5	66.8	<0.002	0.29	5.00	7.3	3	4.8	136.0	0.65	0.19	9.4	0.230	0.71	6.4
L840431		8.8	57.4	0.015	0.25	2.37	5.3	4	1.3	128.0	0.56	0.07	5.6	0.177	1.11	9.1
L840432		4.5	98.8	0.002	1.43	0.90	22.4	3	3.9	574	0.67	0.14	8.3	0.224	1.63	3.9
M676908		44.8	32.6	0.105	0.29	11.05	7.0	12	1.1	204	0.27	0.15	3.4	0.096	0.89	38.6
M676935		15.9	90.7	0.142	1.42	10.90	10.8	23	5.6	193.5	0.74	0.35	10.4	0.290	1.17	10.7
M676936		11.4	73.6	0.002	0.25	2.93	5.0	9	2.5	65.1	0.46	0.08	5.5	0.199	0.78	2.1
M676937		17.9	54.5	0.003	3.61	4.03	7.2	4	2.2	107.5	0.52	0.10	8.3	0.233	0.52	2.1
M676938		7.0	26.3	0.008	0.03	2.25	6.8	3	1.6	210	0.67	<0.05	7.9	0.281	1.48	2.8
M676939		166.5	33.1	<0.002	0.18	30.9	2.5	68	5.4	90.6	0.22	3.90	4.1	0.100	0.39	1.9
M676940		52.0	92.7	<0.002	0.20	8.83	6.1	4	3.3	77.4	0.53	0.24	8.7	0.232	0.84	4.0
M676941		10.6	76.2	0.004	0.75	1.63	5.2	2	1.6	94.4	0.49	0.05	8.7	0.206	0.67	2.5
M676942		13.6	92.7	0.002	0.57	2.18	5.9	6	2.0	100.5	0.51	0.15	9.2	0.225	0.98	2.0
M676943		91.6	84.4	<0.002	0.20	11.95	7.9	16	5.1	84.8	0.53	7.01	4.1	0.239	0.93	3.6

***** See Appendix Page for comments regarding this certificate *****

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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 12- AUG- 2013
Account: RANSIL

Project: KEG - Euclid

CERTIFICATE OF ANALYSIS WH13136047

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm
	LOR	1	0.1	0.1	2	0.5
L840429		226	0.7	11.1	1370	51.4
L840430		299	1.1	29.9	39	87.1
L840431		822	1.3	7.0	233	80.0
L840432		616	1.2	80.9	44	90.8
M676908		1680	0.8	32.9	70	30.2
M676935		1100	2.1	30.8	713	104.5
M676936		89	0.4	16.1	19	75.7
M676937		87	0.7	15.3	15	76.3
M676938		412	1.0	7.0	194	70.9
M676939		102	1.9	9.1	476	42.3
M676940		123	0.9	12.9	223	93.9
M676941		93	0.6	17.4	13	87.7
M676942		49	0.6	11.1	42	89.4
M676943		71	1.2	24.4	2410	76.0

***** See Appendix Page for comments regarding this certificate *****

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Finalized Date: 12-AUG-2013
Account: RANSIL

Project: KEG - Euclid

CERTIFICATE OF ANALYSIS WH13136047

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

	REE's may not be totally soluble in this method.
Applies to Method:	ME-MS61
	Interference: Samples with Ca>10%on ICP-MS As. ICP-AES As results reported (5 ppm DL)
Applies to Method:	ME-MS61

LABORATORY ADDRESSES

	Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.			
Applies to Method:	CRU-31	CRU-QC	LOG-22	PUL-31
	PUL-QC	SPL-21	WEI-21	
	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.			
Applies to Method:	Au-AA24	ME-MS61		

ALS Canada Ltd.

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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 7-AUG-2013
Account: RANSIL

CERTIFICATE WH13136048

Project: KEG - Euclid

P.O. No.:

This report is for 50 Soil samples submitted to our lab in Whitehorse, YT, Canada on 26-JUL-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS41	51 anal. aqua regia ICPMS	

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
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***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Finalized Date: 7-AUG-2013
Account: RANSIL

Project: KEG - Euclid

CERTIFICATE OF ANALYSIS WH13136048

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ84501		0.26	0.003	1.49	2.58	52.5	<0.2	<10	70	1.21	0.14	6.77	6.94	5.70	10.0	36
ZZ84502		0.25	0.002	1.00	3.72	26.0	<0.2	<10	430	1.55	1.31	1.29	1.79	9.23	20.8	44
ZZ84503		0.25	0.002	0.53	1.92	18.5	<0.2	<10	110	1.63	1.29	0.54	5.03	22.4	9.8	24
ZZ84504		0.26	0.001	0.68	2.06	23.1	<0.2	<10	150	1.72	0.91	0.41	3.39	25.8	11.5	27
ZZ84505		0.33	0.001	0.90	2.19	16.8	<0.2	<10	140	0.99	2.95	0.27	4.11	27.0	6.9	30
ZZ84506		0.21	0.001	1.01	1.61	21.3	<0.2	<10	190	0.73	1.78	0.05	2.07	38.5	1.7	27
ZZ84507		0.31	0.002	0.90	0.95	35.6	<0.2	<10	210	0.63	0.82	0.03	1.56	52.3	1.3	19
ZZ84508		0.26	0.002	1.23	2.14	21.3	<0.2	<10	4000	0.90	0.27	0.26	18.30	12.50	3.1	34
ZZ84509		0.22	0.002	1.41	2.08	13.0	<0.2	<10	240	1.23	0.62	0.50	3.37	17.95	6.8	37
ZZ84510		0.27	0.002	0.82	1.76	9.8	<0.2	<10	380	0.88	0.79	0.36	2.14	17.50	2.8	35
ZZ84511		0.33	0.001	0.73	1.93	21.5	<0.2	<10	250	0.92	0.65	0.30	1.32	19.30	4.7	39
ZZ84512		0.28	0.001	1.40	1.99	11.5	<0.2	<10	290	1.06	0.59	0.33	1.46	17.25	3.9	37
ZZ84513		0.37	0.002	1.39	2.88	15.6	<0.2	<10	380	1.52	0.95	0.37	6.24	16.50	10.4	39
ZZ84514		0.23	0.002	0.84	2.53	23.0	<0.2	<10	130	1.76	0.24	0.13	0.57	19.15	14.6	46
ZZ84515		0.26	0.003	2.11	2.61	16.3	<0.2	<10	160	1.65	0.24	0.53	1.48	16.10	8.6	67
ZZ84516		0.28	0.002	0.56	2.01	9.7	<0.2	<10	320	1.12	0.89	0.40	1.96	15.30	2.9	39
ZZ84517		0.35	0.001	0.54	1.70	10.3	<0.2	<10	300	0.97	0.70	0.34	2.39	16.90	4.0	32
ZZ84518		0.29	0.004	1.74	0.70	33.3	<0.2	<10	80	0.70	0.25	0.14	0.88	22.6	1.3	20
ZZ84519		0.31	0.006	1.37	2.25	24.2	<0.2	<10	440	1.33	1.42	0.14	1.36	69.4	3.8	37
ZZ84520		0.29	<0.001	0.57	2.26	8.7	<0.2	<10	160	2.25	0.37	0.75	1.16	57.1	8.2	33
ZZ84521		0.28	0.001	0.61	2.06	7.0	<0.2	<10	190	1.29	0.30	0.78	1.26	34.2	6.4	32
ZZ84522		0.36	0.006	0.70	2.01	13.9	<0.2	<10	240	0.98	0.71	0.24	1.13	71.0	5.8	35
ZZ84523		0.25	<0.001	0.80	2.30	8.7	<0.2	<10	150	1.25	0.58	0.34	3.22	25.8	6.9	35
ZZ84524		0.24	0.001	0.67	2.50	8.8	<0.2	<10	160	1.15	0.38	0.41	1.02	23.5	6.1	35
ZZ84525		0.41	0.001	0.56	2.68	12.0	<0.2	<10	90	1.41	0.41	0.54	7.17	19.55	10.5	37
ZZ84526		0.21	0.002	1.95	2.65	24.2	<0.2	<10	100	1.70	1.30	0.72	23.5	24.8	10.7	34
ZZ84527		0.24	0.001	1.05	2.93	5.9	<0.2	<10	120	1.38	1.19	1.19	10.35	15.70	15.7	31
ZZ84528		0.28	0.002	0.69	3.57	15.4	<0.2	<10	130	1.67	0.57	0.35	6.79	23.2	13.3	40
ZZ84529		0.26	0.001	1.90	3.80	20.2	<0.2	<10	130	1.76	1.57	0.73	8.84	22.3	19.1	46
ZZ84530		0.27	0.003	1.44	2.62	15.2	<0.2	<10	90	1.82	0.26	1.78	8.45	20.7	12.9	49
ZZ84531		0.35	0.001	0.95	2.81	7.9	<0.2	<10	80	1.34	0.31	0.87	12.60	15.05	7.4	34
ZZ84532		0.37	0.004	1.45	2.84	14.6	<0.2	<10	140	1.60	0.22	0.76	1.45	19.10	6.9	32
ZZ84533		0.24	0.002	0.66	3.32	5.0	<0.2	<10	70	1.42	0.20	1.13	1.81	8.25	14.4	31
ZZ84534		0.30	0.009	2.05	1.85	77.9	<0.2	<10	60	2.36	0.33	0.23	8.59	75.9	7.1	25
ZZ84535		0.28	0.001	0.63	2.53	29.8	<0.2	<10	160	1.66	2.65	0.10	1.43	30.0	9.0	35
ZZ84536		0.28	0.001	0.79	3.66	23.4	<0.2	<10	160	1.86	2.54	0.27	4.01	27.5	18.1	41
ZZ84537		0.27	0.002	1.34	2.77	140.0	<0.2	<10	160	2.68	8.60	0.13	7.98	54.7	9.4	35
ZZ84538		0.30	0.002	0.92	3.33	57.4	<0.2	<10	70	1.80	7.45	0.39	7.80	27.8	15.6	38
ZZ84539		0.30	0.001	0.42	4.22	11.3	<0.2	<10	60	1.32	1.57	0.72	2.85	17.25	11.5	47
ZZ84540		0.27	0.001	0.47	4.15	17.5	<0.2	<10	100	2.39	0.89	0.22	3.03	26.9	14.8	39

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 7-AUG-2013
Account: RANSIL

Project: KEG - Euclid

CERTIFICATE OF ANALYSIS WH13136048

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ84501		5.68	147.5	3.49	9.12	0.22	0.48	0.03	0.022	0.93	2.2	34.9	4.47	437	28.7	0.01
ZZ84502		6.74	44.9	5.30	10.15	0.18	0.12	0.01	0.052	0.41	4.6	21.4	3.21	583	2.07	0.04
ZZ84503		4.58	26.9	2.89	5.04	0.08	0.10	0.01	0.048	0.35	11.3	17.0	1.29	252	4.79	0.02
ZZ84504		6.36	32.3	3.19	5.91	0.07	0.02	0.03	0.056	0.29	13.9	19.3	1.42	331	7.77	0.02
ZZ84505		11.35	33.9	1.94	5.75	0.10	0.02	0.02	0.079	0.27	14.5	22.7	1.50	201	5.12	0.03
ZZ84506		9.38	27.5	1.80	4.31	0.07	<0.02	0.05	0.072	0.12	21.5	10.1	0.58	45	8.64	0.02
ZZ84507		5.64	28.2	1.94	3.25	0.07	<0.02	0.08	0.077	0.11	28.8	5.3	0.25	39	11.55	0.02
ZZ84508		5.20	39.1	2.34	8.31	0.12	<0.02	1.35	0.075	0.28	5.8	17.9	1.26	118	8.74	0.01
ZZ84509		5.27	56.6	2.10	6.31	0.10	<0.02	0.06	0.052	0.24	9.3	25.8	1.41	129	9.93	0.02
ZZ84510		3.88	32.8	1.86	5.55	0.07	0.03	0.05	0.035	0.13	9.2	16.0	0.97	87	4.33	0.01
ZZ84511		4.16	31.6	2.20	6.10	0.08	0.02	0.02	0.033	0.26	10.4	20.6	1.08	133	8.53	0.02
ZZ84512		4.21	32.6	1.78	5.31	0.06	0.02	0.06	0.037	0.18	9.4	18.6	1.03	96	4.28	0.02
ZZ84513		6.78	72.2	3.05	7.74	0.21	0.05	0.14	0.092	0.38	8.3	28.2	2.36	295	7.89	0.02
ZZ84514		2.33	234	2.38	6.71	0.13	0.02	0.04	0.038	0.46	9.1	22.2	1.61	207	37.8	0.01
ZZ84515		2.95	125.5	2.25	7.10	0.15	0.03	0.09	0.038	0.48	8.6	27.0	2.01	178	18.60	0.02
ZZ84516		4.35	30.3	1.68	5.90	0.08	<0.02	0.03	0.031	0.12	7.8	19.2	1.33	104	4.38	0.02
ZZ84517		3.52	31.7	1.83	5.03	0.07	<0.02	0.03	0.031	0.21	8.8	15.9	0.98	129	5.17	0.02
ZZ84518		4.91	30.4	3.34	2.45	0.07	0.03	0.21	0.081	0.24	12.5	8.4	0.25	26	44.2	0.01
ZZ84519		14.10	62.3	4.99	7.76	0.16	0.03	0.07	0.080	0.63	38.1	20.8	1.39	162	15.75	0.03
ZZ84520		7.02	18.6	1.93	7.72	0.11	0.08	0.05	0.034	0.21	21.9	23.2	1.58	459	6.93	0.01
ZZ84521		4.66	25.2	1.70	6.41	0.09	0.07	0.05	0.028	0.17	14.4	19.4	1.69	344	3.72	0.02
ZZ84522		5.64	30.4	2.04	6.68	0.14	0.03	0.05	0.037	0.18	37.9	17.1	1.05	278	16.20	0.01
ZZ84523		3.29	29.0	1.95	6.89	0.10	0.02	0.05	0.026	0.17	12.1	18.0	1.42	233	4.31	0.02
ZZ84524		3.40	26.1	1.90	6.84	0.09	0.07	0.08	0.027	0.24	11.4	19.2	1.61	224	5.70	0.01
ZZ84525		4.12	30.0	2.85	7.03	0.13	0.06	0.06	0.029	0.49	8.5	25.3	2.01	382	4.82	0.01
ZZ84526		4.88	54.7	3.31	6.66	0.13	0.05	0.08	0.141	0.48	11.2	21.4	1.88	249	7.00	0.02
ZZ84527		4.21	37.7	2.52	7.48	0.16	0.06	0.06	0.044	0.27	7.2	19.8	2.60	337	2.08	0.03
ZZ84528		5.67	25.4	2.82	9.00	0.19	0.04	0.10	0.039	0.52	9.7	28.6	2.90	326	5.09	0.01
ZZ84529		6.92	62.0	3.04	9.88	0.18	0.04	0.09	0.068	0.57	9.8	32.7	3.45	360	8.03	0.01
ZZ84530		4.40	56.1	2.97	7.20	0.17	0.13	0.11	0.031	0.81	10.1	26.4	2.87	306	7.85	0.01
ZZ84531		4.32	35.9	1.93	7.70	0.15	0.14	0.11	0.052	0.52	6.9	24.6	2.98	300	5.99	0.02
ZZ84532		5.28	63.2	2.35	7.67	0.13	<0.02	1.13	0.046	0.32	9.4	23.7	2.15	335	14.30	0.02
ZZ84533		3.14	25.3	3.63	9.44	0.15	0.26	0.02	0.027	0.52	3.2	20.4	3.25	661	0.75	0.02
ZZ84534		6.12	142.0	4.23	4.10	0.18	0.09	0.15	0.065	0.35	49.4	11.0	0.53	84	76.1	0.02
ZZ84535		3.83	30.5	3.91	7.46	0.09	0.02	0.04	0.018	0.22	13.8	17.1	1.19	270	5.50	0.02
ZZ84536		5.64	22.9	3.14	8.82	0.16	0.04	0.03	0.020	0.43	10.9	28.3	3.19	355	2.79	0.02
ZZ84537		4.84	67.2	4.27	7.05	0.19	0.03	0.02	0.039	0.49	23.3	23.6	1.70	143	9.83	0.01
ZZ84538		6.34	36.6	3.14	8.13	0.18	0.09	0.02	0.019	0.52	10.7	19.4	2.32	161	5.69	0.01
ZZ84539		7.17	24.3	2.57	10.40	0.17	0.18	0.03	0.012	0.62	6.7	20.2	3.27	241	2.73	0.01
ZZ84540		6.18	31.7	3.16	9.51	0.18	0.13	0.02	0.020	0.80	10.7	27.6	2.65	196	3.38	0.01

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Finalized Date: 7-AUG-2013
Account: RANSIL

Project: KEG - Euclid

CERTIFICATE OF ANALYSIS WH13136048

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ84501		0.19	116.5	430	17.2	47.3	0.024	0.56	4.01	11.0	10.1	0.6	88.3	<0.01	0.13	3.4
ZZ84502		1.17	84.3	1340	23.7	38.1	0.001	0.32	2.01	6.3	2.2	0.7	148.0	<0.01	0.09	4.3
ZZ84503		1.27	42.5	1150	17.5	29.4	0.002	0.19	1.98	3.9	2.3	1.3	134.5	0.01	0.06	11.6
ZZ84504		1.36	41.7	1220	22.4	26.7	0.002	0.20	2.42	3.8	2.7	1.1	118.0	0.01	0.07	6.0
ZZ84505		0.76	21.9	980	14.2	21.3	0.002	0.13	2.50	3.3	3.4	0.8	46.4	<0.01	0.06	0.9
ZZ84506		0.40	23.5	1250	19.8	12.5	0.003	0.20	2.85	1.3	3.7	0.8	59.8	<0.01	0.07	0.3
ZZ84507		0.19	13.4	1170	20.8	10.8	0.002	0.18	4.49	1.8	5.4	0.6	53.6	<0.01	0.05	1.0
ZZ84508		0.54	30.7	1620	75.2	20.4	0.002	0.12	6.92	0.6	2.9	0.7	64.6	<0.01	0.04	0.2
ZZ84509		0.70	53.4	1810	32.3	21.3	0.003	0.15	3.80	1.2	3.4	0.7	60.4	<0.01	0.05	0.2
ZZ84510		1.17	29.9	1360	16.6	19.7	0.002	0.15	1.97	1.8	2.3	0.7	37.4	<0.01	0.06	0.6
ZZ84511		1.29	38.0	1650	28.5	27.8	0.001	0.14	3.41	2.2	1.9	0.9	44.4	<0.01	0.06	1.1
ZZ84512		1.14	33.5	1690	23.0	23.3	0.001	0.14	1.78	1.5	2.3	0.7	39.8	<0.01	0.04	0.4
ZZ84513		1.28	54.9	1490	96.7	32.8	0.001	0.15	3.19	3.6	2.4	1.0	50.1	<0.01	0.06	3.9
ZZ84514		1.57	154.0	1540	22.8	28.2	0.003	0.18	4.79	1.2	2.9	0.7	117.0	<0.01	0.06	0.3
ZZ84515		2.99	112.5	2420	18.6	32.8	0.002	0.14	3.32	2.6	4.4	0.7	33.4	<0.01	0.09	0.9
ZZ84516		0.76	31.7	1520	13.8	14.8	0.001	0.14	1.49	1.4	1.8	0.7	37.4	<0.01	0.05	0.3
ZZ84517		0.79	30.7	1610	14.7	20.7	0.001	0.14	1.76	1.6	2.0	0.6	44.5	<0.01	0.05	0.5
ZZ84518		0.16	25.0	6310	26.7	22.3	0.014	0.24	7.76	2.1	5.1	0.4	30.7	<0.01	0.12	1.5
ZZ84519		1.24	29.5	2040	45.4	50.4	0.002	0.67	5.16	4.5	7.3	1.1	87.4	<0.01	0.12	4.7
ZZ84520		2.95	25.9	1470	25.4	26.4	0.001	0.13	1.42	2.1	2.9	1.4	30.7	0.01	0.04	2.1
ZZ84521		1.39	26.8	1150	26.0	23.5	0.001	0.10	1.26	3.0	1.6	0.8	33.0	<0.01	0.04	1.9
ZZ84522		1.99	41.6	940	22.2	28.7	0.003	0.11	4.16	2.6	5.7	1.2	35.6	<0.01	0.07	2.8
ZZ84523		1.05	38.6	1040	20.9	22.6	<0.001	0.15	1.92	2.0	2.3	0.7	35.3	<0.01	0.06	0.8
ZZ84524		1.11	37.1	900	25.3	28.1	0.002	0.13	2.63	2.8	3.1	0.6	39.8	<0.01	0.06	2.5
ZZ84525		1.11	51.8	1200	18.4	36.7	0.001	0.18	3.11	4.2	2.9	0.7	61.1	<0.01	0.04	5.0
ZZ84526		1.25	45.5	1730	60.9	35.1	0.003	0.36	5.35	3.9	7.2	1.3	74.9	<0.01	0.07	5.0
ZZ84527		0.92	53.7	740	48.8	29.3	0.002	0.13	1.95	3.7	2.4	0.7	47.9	<0.01	0.05	2.8
ZZ84528		1.28	67.7	650	93.1	42.3	0.001	0.15	2.61	4.6	2.7	1.1	53.9	<0.01	0.05	4.3
ZZ84529		1.08	78.5	970	29.5	45.4	0.001	0.18	2.52	4.9	4.6	1.1	54.3	<0.01	0.06	3.1
ZZ84530		0.59	95.5	3600	41.4	48.9	0.014	0.20	4.02	5.1	12.7	0.8	76.4	<0.01	0.13	6.2
ZZ84531		1.15	50.4	560	27.0	36.5	0.005	0.08	2.80	4.1	2.9	0.6	37.0	<0.01	0.06	4.8
ZZ84532		0.54	42.6	790	36.2	30.5	0.003	0.20	5.53	2.5	6.7	0.6	75.2	<0.01	0.11	0.7
ZZ84533		0.37	42.9	190	22.5	40.0	<0.001	0.08	1.31	6.2	1.2	0.7	43.1	<0.01	0.03	5.8
ZZ84534		0.65	142.0	3360	72.7	27.9	0.054	0.34	28.7	3.4	29.0	1.1	125.0	<0.01	0.37	7.9
ZZ84535		1.41	54.3	1140	18.5	25.2	0.001	0.28	3.50	3.1	4.2	1.0	72.8	<0.01	0.10	2.5
ZZ84536		1.26	72.1	700	11.5	43.1	0.001	0.23	1.92	5.1	2.4	1.1	55.0	<0.01	0.10	4.9
ZZ84537		0.96	86.8	1280	22.7	36.7	0.006	0.29	10.25	4.6	13.2	1.2	92.3	<0.01	0.20	8.5
ZZ84538		0.94	99.2	830	19.2	46.4	0.001	0.27	3.94	4.4	3.3	1.0	88.7	<0.01	0.13	7.9
ZZ84539		1.12	73.3	490	11.3	61.8	0.001	0.09	1.45	5.1	1.6	1.0	55.6	<0.01	0.03	7.4
ZZ84540		1.68	120.0	690	15.2	56.5	0.002	0.39	1.53	5.2	2.4	1.2	81.0	0.01	0.05	8.8

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Finalized Date: 7- AUG- 2013
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CERTIFICATE OF ANALYSIS WH13136048

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ84501		0.083	1.09	7.15	737	0.40	16.30	419	24.9
ZZ84502		0.066	0.65	3.51	288	0.20	16.00	148	5.5
ZZ84503		0.038	0.62	5.04	110	0.14	18.70	200	5.0
ZZ84504		0.037	0.76	5.34	137	0.16	16.60	186	1.2
ZZ84505		0.043	0.67	3.18	168	0.12	19.15	325	0.6
ZZ84506		0.017	0.84	5.10	137	0.09	15.35	84	<0.5
ZZ84507		0.011	0.61	6.59	113	0.10	12.00	52	<0.5
ZZ84508		0.019	0.63	2.38	148	0.12	7.93	1870	<0.5
ZZ84509		0.039	0.44	3.53	199	0.21	15.00	461	0.5
ZZ84510		0.047	0.35	3.31	127	0.19	10.20	259	1.2
ZZ84511		0.062	0.50	2.88	192	0.27	8.79	209	1.0
ZZ84512		0.044	0.45	3.84	149	0.19	9.07	192	0.8
ZZ84513		0.066	0.65	2.86	153	0.17	11.15	3980	1.8
ZZ84514		0.050	0.67	4.89	485	0.36	16.85	128	0.9
ZZ84515		0.071	0.74	3.84	478	0.37	16.90	323	2.0
ZZ84516		0.043	0.40	3.47	142	0.17	10.35	202	0.6
ZZ84517		0.051	0.40	3.17	137	0.17	10.45	196	0.5
ZZ84518		0.005	0.96	9.29	186	0.21	19.55	304	1.8
ZZ84519		0.081	0.98	4.04	181	0.29	18.75	194	1.7
ZZ84520		0.034	0.37	7.40	123	0.52	40.0	126	2.0
ZZ84521		0.051	0.38	4.19	104	0.29	21.6	192	2.3
ZZ84522		0.079	0.70	6.27	124	0.37	37.4	117	0.9
ZZ84523		0.056	0.37	2.60	96	0.23	14.75	389	0.5
ZZ84524		0.058	0.35	2.53	99	0.19	12.70	278	2.0
ZZ84525		0.067	0.41	2.49	85	0.23	16.25	724	2.5
ZZ84526		0.068	0.56	2.99	95	0.33	23.3	1750	2.4
ZZ84527		0.067	0.35	1.66	53	0.21	13.00	1480	2.3
ZZ84528		0.098	0.49	1.98	78	0.17	14.35	1700	1.6
ZZ84529		0.081	0.51	3.40	98	0.19	21.8	1140	1.5
ZZ84530		0.056	0.37	2.76	128	0.10	23.5	696	6.7
ZZ84531		0.076	0.32	2.43	108	0.18	14.90	1530	7.1
ZZ84532		0.053	0.54	5.14	136	0.45	18.90	301	0.5
ZZ84533		0.104	0.34	0.98	46	0.15	11.25	80	11.7
ZZ84534		0.036	1.00	12.35	326	0.62	52.2	822	6.2
ZZ84535		0.094	0.54	2.06	85	0.23	12.95	274	0.8
ZZ84536		0.117	0.75	1.75	74	0.15	19.90	526	1.6
ZZ84537		0.089	1.46	3.23	105	0.12	24.2	495	2.0
ZZ84538		0.092	0.95	2.94	88	0.21	21.5	712	4.9
ZZ84539		0.098	1.11	1.95	208	0.21	17.45	318	8.5
ZZ84540		0.119	0.80	3.00	136	0.20	28.8	612	6.3

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 7- AUG- 2013
Account: RANSIL

Project: KEG - Euclid

CERTIFICATE OF ANALYSIS WH13136048

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ84541		0.28	0.003	1.44	4.25	29.0	<0.2	<10	160	1.70	0.49	0.76	9.79	30.1	9.5	80
ZZ84542		0.21	<0.001	0.28	4.15	3.9	<0.2	<10	110	0.93	0.19	5.97	0.25	8.47	5.8	42
ZZ84543		0.31	0.002	1.37	3.76	65.3	<0.2	<10	140	2.16	11.35	0.21	4.40	48.3	8.1	38
ZZ84544		0.27	0.014	12.65	2.86	182.0	<0.2	<10	210	1.68	88.1	0.15	3.06	203	2.2	48
ZZ84545		0.24	0.006	1.37	4.41	10.9	<0.2	<10	70	2.09	0.72	1.08	6.00	19.50	23.2	54
ZZ84546		0.30	0.003	0.77	3.36	10.1	<0.2	<10	130	1.52	0.30	2.26	4.97	40.3	9.5	40
ZZ84547		0.24	0.004	1.47	2.25	13.6	<0.2	<10	150	1.43	0.36	0.73	1.45	47.6	3.5	61
ZZ84548		0.30	0.005	1.51	3.00	14.4	<0.2	<10	260	1.49	0.32	0.81	2.18	47.9	5.7	51
ZZ84549		0.36	0.001	0.50	3.52	9.0	<0.2	<10	80	2.65	1.21	0.69	4.40	20.6	11.8	46
ZZ84550		0.29	0.001	0.16	2.37	12.1	<0.2	<10	80	5.84	0.67	0.59	1.63	411	6.1	8

***** See Appendix Page for comments regarding this certificate *****

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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 7- AUG- 2013
Account: RANSIL

Project: KEG - Euclid

CERTIFICATE OF ANALYSIS WH13136048

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ84541		8.83	88.9	2.56	11.15	0.26	0.09	0.11	0.088	0.88	15.6	35.2	3.85	310	29.1	0.01
ZZ84542		7.99	11.7	2.67	9.77	0.19	0.21	0.01	0.008	1.39	3.7	32.2	5.24	692	0.62	0.03
ZZ84543		8.21	44.4	4.11	9.08	0.18	0.05	0.04	0.041	0.55	18.7	20.6	1.68	197	12.30	0.03
ZZ84544		6.70	71.9	5.23	9.30	0.26	0.08	0.08	0.281	0.89	101.5	25.5	1.50	93	12.85	0.02
ZZ84545		4.34	71.8	5.46	12.10	0.28	0.12	0.08	0.051	0.87	9.1	22.1	3.08	484	2.71	0.03
ZZ84546		6.16	48.8	2.99	8.49	0.18	0.07	0.06	0.035	0.84	16.3	28.3	3.62	359	6.53	0.01
ZZ84547		8.12	72.3	3.66	6.26	0.15	0.06	0.15	0.033	0.37	19.9	22.8	1.54	88	14.70	<0.01
ZZ84548		9.08	56.0	4.51	7.53	0.20	0.07	0.12	0.037	0.72	18.8	35.9	2.34	194	12.20	0.01
ZZ84549		10.20	55.0	3.03	9.16	0.15	0.30	0.13	0.038	0.92	7.6	37.7	3.85	405	3.75	<0.01
ZZ84550		14.40	11.5	1.99	9.75	0.13	0.32	0.05	0.073	0.20	131.0	22.2	0.53	946	3.94	0.01

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VANCOUVER BC V6B 1L8

Finalized Date: 7- AUG- 2013
Account: RANSIL

Project: KEG - Euclid

CERTIFICATE OF ANALYSIS WH13136048

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ84541		2.88	136.0	1300	40.9	68.5	0.018	0.21	8.61	5.6	10.9	1.4	80.2	0.01	0.10	5.2
ZZ84542		0.31	17.1	620	7.1	90.3	0.001	0.09	1.40	5.5	1.0	0.8	156.5	<0.01	0.02	9.6
ZZ84543		1.99	58.0	1470	28.3	43.3	0.001	0.55	5.29	3.9	5.0	1.4	123.0	0.01	0.15	4.6
ZZ84544		1.06	20.9	3560	90.8	78.0	0.001	1.33	25.1	8.3	20.0	3.7	206	0.01	1.14	20.1
ZZ84545		1.96	81.4	1310	40.0	60.6	0.001	0.46	1.96	9.1	5.1	0.8	92.3	0.01	0.09	6.0
ZZ84546		1.98	66.8	1960	33.0	52.7	0.003	0.22	1.89	5.7	2.7	0.9	82.5	0.01	0.05	3.4
ZZ84547		1.39	49.2	4570	40.9	30.3	0.006	0.43	4.41	1.6	10.7	0.8	74.1	0.01	0.15	0.3
ZZ84548		1.99	61.0	3360	60.2	46.7	0.004	0.96	3.18	7.2	4.7	0.8	137.0	0.01	0.11	4.6
ZZ84549		0.26	114.0	1260	43.5	53.7	0.016	0.21	1.14	8.3	4.0	5.1	35.2	0.01	0.05	8.4
ZZ84550		7.62	18.4	570	43.5	41.7	0.001	0.06	0.90	2.4	1.5	5.3	60.9	0.03	0.02	39.0

***** See Appendix Page for comments regarding this certificate *****

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To: **SILVER RANGE RESOURCES LTD.**
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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 7- AUG- 2013
Account: RANSIL

Project: KEG - Euclid

CERTIFICATE OF ANALYSIS WH13136048

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ84541		0.103	1.67	10.50	1140	0.28	27.1	975	4.2
ZZ84542		0.105	1.69	1.13	41	0.12	13.45	28	9.3
ZZ84543		0.084	1.50	4.17	119	0.25	30.7	357	1.2
ZZ84544		0.054	5.46	12.25	180	0.32	37.1	141	2.9
ZZ84545		0.081	0.69	3.89	98	0.36	21.6	199	5.5
ZZ84546		0.072	0.63	9.23	131	0.41	37.1	199	1.8
ZZ84547		0.024	0.64	18.00	206	0.47	44.0	109	1.1
ZZ84548		0.084	0.72	15.75	211	0.46	35.0	180	2.6
ZZ84549		0.100	0.59	3.92	127	0.29	28.7	360	15.8
ZZ84550		0.017	0.51	12.70	29	0.50	113.5	155	11.1

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Project: KEG - Euclid

CERTIFICATE OF ANALYSIS WH13136048

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).
ME- MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
LOG- 22 SCR- 41 WEI- 21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au- ICP21 ME- MS41

ALS Canada Ltd.
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 7-AUG-2013
Account: RANSIL

CERTIFICATE WH13136049

Project: KEG - XXII

P.O. No.:

This report is for 38 Soil samples submitted to our lab in Whitehorse, YT, Canada on 26-JUL-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS41	51 anal. aqua regia ICPMS	

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
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To: **SILVER RANGE RESOURCES LTD.**
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Finalized Date: 7-AUG-2013
Account: RANSIL

Project: KEG - XXII

CERTIFICATE OF ANALYSIS WH13136049

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ84551		0.26	<0.001	0.53	2.91	11.0	<0.2	<10	100	0.96	0.34	0.64	3.47	12.40	7.9	29
ZZ84552		0.35	<0.001	1.16	2.12	25.4	<0.2	<10	220	1.03	0.55	0.61	1.16	18.05	6.5	33
ZZ84553		0.35	0.003	1.34	2.50	40.5	<0.2	<10	220	1.32	0.88	0.43	2.01	20.8	8.6	36
ZZ84554		0.31	<0.001	1.99	2.30	100.5	<0.2	<10	200	1.00	1.67	0.34	0.72	22.2	7.5	34
ZZ84555		0.25	0.002	0.61	2.97	29.6	<0.2	<10	160	1.40	1.16	0.90	0.99	19.70	6.3	46
ZZ84556		0.26	0.003	0.33	2.23	15.9	<0.2	<10	550	1.03	0.43	0.38	0.66	29.4	7.1	38
ZZ84557		0.22	0.002	0.34	2.97	16.0	<0.2	<10	280	1.32	1.21	0.42	1.00	26.0	6.9	43
ZZ84558		0.28	0.001	0.25	2.42	13.9	<0.2	<10	230	0.97	0.28	0.24	0.31	26.0	6.5	33
ZZ84559		0.23	0.004	1.18	2.57	16.4	<0.2	<10	120	0.94	0.41	0.11	0.45	26.5	6.3	35
ZZ84560		0.30	0.004	0.58	3.01	130.5	<0.2	<10	120	1.19	0.98	0.50	6.00	16.90	13.6	34
ZZ84561		0.26	0.002	0.39	2.39	15.1	<0.2	<10	260	1.03	0.42	0.73	1.80	23.8	8.5	38
ZZ84562		0.27	0.002	0.45	2.91	16.1	<0.2	<10	210	1.33	0.43	0.93	1.79	21.0	8.7	44
ZZ84563		0.27	0.004	0.49	2.84	16.3	<0.2	<10	130	1.23	0.34	0.88	0.73	15.00	7.8	34
ZZ84564		0.21	0.003	0.43	3.75	3.9	<0.2	<10	10	1.51	0.14	1.35	1.63	10.25	9.4	36
ZZ84565		0.25	0.021	4.19	3.38	88.2	<0.2	<10	50	1.80	2.30	1.83	18.85	27.0	51.2	33
ZZ84566		0.32	0.003	0.44	3.56	14.2	<0.2	<10	40	1.54	0.12	1.27	4.40	14.00	19.7	40
ZZ84567		0.24	0.004	0.58	4.25	18.9	<0.2	<10	30	1.76	0.14	1.62	2.14	12.35	20.4	33
ZZ84568		0.27	0.003	0.63	3.73	28.1	<0.2	<10	70	1.68	0.27	0.79	1.35	14.10	14.4	30
ZZ84569		0.31	0.002	0.35	3.53	57.4	<0.2	<10	70	1.34	0.29	1.81	2.71	10.95	17.2	43
ZZ84570		0.21	0.003	0.91	3.56	38.6	<0.2	<10	130	1.55	0.93	0.93	2.27	17.40	12.7	35
ZZ84571		0.18	<0.001	0.43	1.39	10.7	<0.2	<10	60	0.59	0.38	1.32	2.68	6.95	6.5	17
ZZ84572		0.27	0.002	0.68	4.02	16.6	<0.2	<10	70	1.34	0.95	0.96	1.89	15.40	14.2	42
ZZ84573		0.20	0.008	0.72	2.73	12.3	<0.2	<10	40	0.97	0.32	2.15	0.45	9.10	7.3	15
ZZ84574		0.24	0.003	0.44	2.77	16.0	<0.2	<10	50	1.02	0.09	4.22	0.12	13.00	4.6	35
ZZ84575		0.37	0.002	0.46	3.13	7.2	<0.2	<10	40	1.17	0.24	1.80	0.48	8.45	8.4	34
ZZ84576		0.26	0.004	0.59	3.94	17.4	<0.2	<10	50	1.55	0.30	1.76	1.05	10.75	11.5	39
ZZ84577		0.24	0.002	0.40	3.30	14.8	<0.2	<10	80	1.22	0.12	5.28	0.14	9.00	5.6	22
ZZ84578		0.23	0.004	0.63	3.00	62.7	<0.2	<10	60	1.17	0.61	5.21	1.38	8.48	6.7	25
ZZ84579		0.19	0.004	0.59	3.36	104.5	<0.2	<10	80	1.38	0.50	5.13	1.26	8.21	15.2	31
ZZ84580		0.25	0.003	0.43	3.09	11.2	<0.2	<10	60	1.05	0.14	4.89	0.15	7.58	6.5	22
ZZ84581		0.24	0.003	0.61	2.65	13.2	<0.2	<10	60	1.32	0.19	4.23	0.65	20.7	7.3	29
ZZ84582		0.24	0.007	3.28	2.57	59.1	<0.2	<10	160	1.55	0.20	3.83	2.19	40.8	4.7	83
ZZ84583		0.22	<0.001	0.48	1.50	9.5	<0.2	<10	120	0.55	0.32	1.91	0.61	9.99	5.8	20
ZZ84584		0.24	0.002	0.59	2.93	9.3	<0.2	<10	70	1.13	0.17	1.49	0.55	10.05	6.0	29
ZZ84585		0.34	0.003	0.45	2.89	10.7	<0.2	<10	60	1.09	0.17	1.23	3.22	9.88	6.8	30
ZZ84586		0.30	0.007	0.86	2.47	23.5	<0.2	<10	80	0.96	0.24	1.46	9.76	9.40	6.9	26
ZZ84587		0.27	0.002	0.48	2.41	21.9	<0.2	<10	250	1.22	0.56	0.97	0.98	21.2	8.9	38
ZZ84588		0.29	0.003	0.51	2.83	27.4	<0.2	<10	130	1.23	0.48	1.41	1.54	13.75	9.9	34

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Finalized Date: 7-AUG-2013
Account: RANSIL

Project: KEG - XXII

CERTIFICATE OF ANALYSIS WH13136049

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ84551		4.04	26.9	2.34	7.52	0.11	0.03	0.04	0.024	0.08	5.5	23.0	2.34	405	1.14	0.01
ZZ84552		4.22	26.7	2.28	6.08	0.06	0.04	0.08	0.049	0.14	9.8	16.0	0.95	241	2.75	<0.01
ZZ84553		6.45	39.0	2.79	6.80	0.07	0.06	0.29	0.053	0.18	11.5	18.2	0.99	206	6.34	<0.01
ZZ84554		5.16	25.6	2.51	6.81	0.05	0.02	0.06	0.059	0.11	11.4	17.5	0.97	264	4.05	<0.01
ZZ84555		4.17	17.7	2.79	8.29	0.07	0.09	0.02	0.048	0.17	10.8	15.6	0.94	215	1.36	0.01
ZZ84556		2.83	27.3	2.51	5.74	0.06	0.07	0.04	0.029	0.10	15.5	14.2	0.71	237	2.21	<0.01
ZZ84557		4.03	17.0	2.77	7.13	0.07	0.16	0.03	0.040	0.13	12.9	15.5	0.82	237	1.26	<0.01
ZZ84558		2.60	10.9	2.30	5.92	<0.05	0.05	0.04	0.030	0.08	12.9	18.5	0.63	181	1.12	<0.01
ZZ84559		6.09	25.7	3.77	8.29	0.05	0.04	0.06	0.049	0.22	14.7	27.5	0.99	201	3.51	<0.01
ZZ84560		5.13	29.0	3.05	7.68	0.07	0.04	0.02	0.088	0.16	7.5	25.9	1.92	343	1.95	<0.01
ZZ84561		3.55	22.9	2.41	6.60	0.07	0.06	0.04	0.037	0.14	11.5	18.1	1.14	323	1.43	<0.01
ZZ84562		3.95	23.6	2.61	8.19	0.11	0.09	0.03	0.034	0.23	10.1	20.0	1.63	319	1.07	0.01
ZZ84563		3.35	21.0	2.43	7.69	0.08	0.08	0.02	0.032	0.21	7.1	19.6	1.88	339	1.20	0.01
ZZ84564		4.00	18.1	2.27	8.23	0.13	0.11	0.02	0.045	0.33	3.7	23.3	2.17	464	0.69	<0.01
ZZ84565		3.71	164.0	9.42	8.39	0.16	0.12	0.08	0.113	0.35	11.6	31.6	2.54	5330	9.53	<0.01
ZZ84566		3.46	24.9	2.71	8.71	0.14	0.19	0.02	0.024	0.41	5.0	21.1	2.70	780	1.82	0.01
ZZ84567		4.27	27.1	3.74	8.65	0.16	0.11	0.01	0.030	0.41	4.5	21.4	2.67	881	1.59	0.01
ZZ84568		4.20	35.8	4.21	8.01	0.15	0.11	0.02	0.035	0.32	5.6	22.4	2.01	417	1.60	<0.01
ZZ84569		4.66	17.7	2.86	9.24	0.17	0.23	0.01	0.043	0.56	4.2	24.6	3.07	505	1.84	<0.01
ZZ84570		3.64	30.8	3.36	8.04	0.13	0.06	0.06	0.042	0.29	7.3	20.6	2.11	532	1.95	<0.01
ZZ84571		1.76	19.6	1.48	4.05	0.08	0.03	0.03	0.017	0.12	3.3	10.7	0.89	290	1.35	0.01
ZZ84572		4.55	39.2	3.54	9.27	0.14	0.06	0.04	0.029	0.29	6.4	27.1	2.77	451	1.70	0.01
ZZ84573		2.43	21.8	4.01	6.30	0.17	0.08	0.03	0.016	0.90	3.9	16.2	2.52	362	1.42	0.02
ZZ84574		2.61	17.1	1.96	6.89	0.15	0.61	0.01	0.021	0.80	4.3	20.6	3.53	396	4.95	<0.01
ZZ84575		3.20	23.4	2.53	7.99	0.15	0.08	0.03	0.024	0.38	3.3	20.1	2.75	383	0.96	0.02
ZZ84576		4.00	31.2	3.73	8.72	0.16	0.13	0.04	0.032	0.58	4.1	21.4	2.85	492	1.54	0.03
ZZ84577		2.51	14.6	2.32	7.42	0.18	0.24	0.02	0.018	1.17	2.9	19.2	3.59	411	2.37	0.03
ZZ84578		2.99	18.2	2.45	7.19	0.14	0.15	0.03	0.041	0.64	3.2	23.4	3.31	387	1.52	0.01
ZZ84579		3.13	27.4	3.18	8.63	0.17	0.19	0.04	0.042	1.00	3.3	26.4	4.09	522	3.12	0.02
ZZ84580		2.97	16.8	2.52	7.29	0.14	0.12	0.02	0.026	0.55	2.8	23.1	3.75	491	1.17	0.02
ZZ84581		5.42	24.3	2.98	7.52	0.12	0.23	0.05	0.020	0.77	9.8	18.4	3.06	514	3.14	0.02
ZZ84582		8.81	122.5	2.55	7.23	0.21	0.19	0.10	0.069	1.11	23.4	28.7	3.40	334	22.2	<0.01
ZZ84583		2.07	16.7	1.36	3.95	0.07	0.06	0.06	0.021	0.16	4.7	12.1	1.27	227	0.93	0.01
ZZ84584		2.72	18.7	2.14	7.04	0.12	0.11	0.02	0.028	0.42	4.2	17.6	2.95	335	1.33	0.02
ZZ84585		2.86	17.9	2.22	7.18	0.13	0.09	0.05	0.030	0.37	3.7	16.7	2.74	404	1.00	0.01
ZZ84586		2.80	22.1	2.02	6.39	0.13	0.10	0.15	0.230	0.29	4.1	18.6	2.43	414	1.42	0.01
ZZ84587		4.11	20.6	2.48	6.65	0.09	0.13	0.05	0.036	0.20	11.0	21.5	1.49	331	1.84	0.02
ZZ84588		4.96	31.1	2.69	6.66	0.09	0.17	0.03	0.039	0.24	6.8	28.5	2.40	288	3.05	0.04

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 7-AUG-2013
Account: RANSIL

Project: KEG - XXII

CERTIFICATE OF ANALYSIS WH13136049

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ84551		0.81	30.8	650	24.8	15.3	<0.001	0.07	1.64	2.8	1.2	0.5	32.0	<0.01	0.03	1.6
ZZ84552		1.47	33.8	750	32.8	20.9	<0.001	0.05	6.72	3.2	1.2	2.3	73.8	<0.01	0.06	2.6
ZZ84553		1.94	47.6	710	65.2	26.0	0.001	0.04	8.63	3.9	1.3	4.1	79.9	<0.01	0.09	4.5
ZZ84554		1.29	37.8	890	45.7	17.1	0.001	0.06	8.30	2.6	1.5	6.1	44.9	<0.01	0.12	1.3
ZZ84555		3.51	35.9	510	28.1	26.4	<0.001	0.03	2.46	4.8	1.1	5.2	136.5	0.01	0.07	5.1
ZZ84556		1.96	37.2	660	11.4	16.5	0.001	0.01	1.76	4.4	1.4	1.0	71.1	<0.01	0.05	5.4
ZZ84557		4.18	36.1	500	15.9	22.8	<0.001	0.02	1.55	4.6	0.8	1.4	85.1	0.01	0.05	6.3
ZZ84558		2.60	26.3	390	14.6	16.3	<0.001	0.01	0.85	3.4	0.5	0.7	24.0	0.01	0.03	4.4
ZZ84559		2.38	27.6	450	18.4	30.7	<0.001	0.10	2.93	4.0	1.9	1.0	24.7	0.01	0.06	4.7
ZZ84560		1.31	49.6	610	31.2	18.9	0.001	0.06	13.35	3.9	2.0	1.2	37.0	<0.01	0.12	3.9
ZZ84561		1.87	39.1	580	18.0	22.2	<0.001	0.05	2.12	3.9	1.0	1.2	49.0	<0.01	0.06	3.2
ZZ84562		2.20	40.7	310	17.1	34.7	<0.001	0.03	2.05	5.0	1.0	1.3	56.2	<0.01	0.05	4.2
ZZ84563		1.79	37.1	320	18.5	28.9	<0.001	0.02	2.08	4.6	0.7	1.0	51.4	<0.01	0.03	4.3
ZZ84564		0.96	41.6	230	27.4	29.8	<0.001	0.05	1.53	6.3	1.0	0.6	81.2	<0.01	0.02	5.7
ZZ84565		0.39	173.0	570	219	32.7	<0.001	0.17	16.80	6.5	5.1	1.0	80.4	<0.01	0.09	8.1
ZZ84566		0.46	84.3	450	20.6	32.5	0.001	0.04	1.83	4.2	1.2	0.5	66.6	<0.01	0.03	7.6
ZZ84567		0.60	94.2	400	31.4	35.2	0.001	0.08	2.51	4.5	1.3	0.6	90.4	<0.01	0.02	6.8
ZZ84568		1.39	63.8	400	30.6	31.9	<0.001	0.13	2.41	4.7	2.4	0.7	73.7	<0.01	0.04	5.7
ZZ84569		0.16	109.5	300	15.7	35.7	0.001	0.04	2.57	4.7	1.1	0.6	51.3	<0.01	0.09	7.3
ZZ84570		1.14	48.8	860	35.1	29.9	<0.001	0.11	4.01	4.0	1.8	1.7	57.3	<0.01	0.06	4.1
ZZ84571		0.52	23.8	680	10.6	13.6	0.001	0.10	1.63	1.2	1.2	0.5	34.8	<0.01	0.04	0.6
ZZ84572		0.99	70.7	710	23.6	29.0	<0.001	0.06	1.71	4.7	1.7	0.5	50.1	<0.01	0.06	5.5
ZZ84573		1.17	25.1	390	71.0	54.0	<0.001	0.17	2.62	3.8	1.1	0.4	64.2	<0.01	0.04	4.6
ZZ84574		0.21	30.0	440	33.6	40.4	0.001	0.05	2.58	3.7	1.1	0.5	50.2	<0.01	0.03	5.7
ZZ84575		1.04	32.7	500	15.9	29.7	0.001	0.07	1.19	4.1	1.6	0.5	55.3	<0.01	0.02	3.6
ZZ84576		0.79	47.1	600	27.0	44.5	<0.001	0.10	2.13	4.5	2.0	0.7	70.6	<0.01	0.03	5.6
ZZ84577		0.55	23.0	340	19.6	53.8	<0.001	0.12	1.71	4.0	0.9	0.6	109.5	<0.01	0.03	5.1
ZZ84578		1.12	27.3	290	21.7	40.6	0.001	0.07	3.68	3.6	1.2	0.7	77.4	<0.01	0.12	3.7
ZZ84579		1.13	39.8	510	28.1	53.1	0.001	0.12	2.08	4.9	1.4	0.6	92.1	<0.01	0.22	4.0
ZZ84580		0.89	25.2	290	23.2	39.9	<0.001	0.04	1.51	3.7	0.7	0.5	73.5	<0.01	0.03	3.6
ZZ84581		0.49	35.6	400	33.1	44.2	0.001	0.04	4.10	4.2	1.6	0.8	77.1	<0.01	0.04	5.0
ZZ84582		0.29	124.0	2710	57.3	60.4	0.002	0.03	10.25	5.6	7.7	1.4	85.4	<0.01	0.12	5.7
ZZ84583		0.72	24.6	640	11.6	20.0	0.001	0.08	1.50	1.8	1.2	0.6	48.6	<0.01	0.03	0.9
ZZ84584		1.43	28.1	400	30.2	34.2	<0.001	0.04	1.63	3.6	1.1	0.6	54.4	<0.01	0.03	3.1
ZZ84585		1.40	30.3	280	21.1	31.0	<0.001	0.04	2.10	3.9	0.8	0.6	40.6	<0.01	0.04	3.1
ZZ84586		1.20	30.3	400	65.0	27.9	0.001	0.06	29.9	3.6	1.3	0.9	51.8	<0.01	0.07	2.6
ZZ84587		1.97	45.2	660	15.9	29.2	0.001	0.02	2.89	4.6	1.2	1.6	72.5	<0.01	0.05	4.3
ZZ84588		1.43	53.0	780	16.4	26.4	0.001	0.10	3.16	3.4	1.4	0.9	87.6	<0.01	0.06	3.8

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
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Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 7- AUG- 2013
Account: RANSIL

Project: KEG - XXII

CERTIFICATE OF ANALYSIS WH13136049

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ84551		0.055	0.35	1.26	51	0.12	6.10	468	1.2
ZZ84552		0.049	0.34	1.78	111	0.41	10.20	218	1.7
ZZ84553		0.059	0.49	2.08	140	0.19	11.30	320	2.8
ZZ84554		0.051	0.42	1.97	112	0.19	9.27	207	0.7
ZZ84555		0.073	0.39	1.47	201	0.21	11.95	151	4.1
ZZ84556		0.060	0.34	1.63	138	0.28	13.00	114	3.3
ZZ84557		0.083	0.35	1.25	172	0.28	10.60	155	7.2
ZZ84558		0.067	0.25	0.98	104	0.30	8.05	71	2.3
ZZ84559		0.097	0.42	1.32	97	0.31	6.78	127	2.2
ZZ84560		0.064	0.29	1.75	66	0.18	10.60	503	1.8
ZZ84561		0.061	0.31	1.45	104	0.24	11.50	224	2.6
ZZ84562		0.082	0.34	1.29	111	0.23	10.95	336	3.4
ZZ84563		0.071	0.30	1.38	83	0.17	8.91	144	3.1
ZZ84564		0.074	0.35	1.27	46	0.11	8.15	85	4.4
ZZ84565		0.055	0.48	3.26	65	0.17	26.5	763	4.8
ZZ84566		0.075	0.38	1.59	86	0.16	17.90	464	8.0
ZZ84567		0.083	0.44	1.65	64	0.20	14.40	71	4.5
ZZ84568		0.072	0.32	1.92	54	0.20	11.80	158	4.6
ZZ84569		0.077	0.40	1.37	49	0.35	14.40	805	10.3
ZZ84570		0.066	0.31	2.20	61	0.18	10.30	247	2.1
ZZ84571		0.032	0.21	1.18	41	0.08	4.35	158	1.1
ZZ84572		0.072	0.44	2.19	65	0.17	9.28	157	2.0
ZZ84573		0.063	0.35	1.10	26	0.19	5.98	25	3.0
ZZ84574		0.088	0.42	1.45	84	0.18	9.83	14	27.5
ZZ84575		0.068	0.33	1.14	56	0.15	7.45	65	2.9
ZZ84576		0.076	0.41	1.64	58	0.17	9.31	90	4.7
ZZ84577		0.094	0.45	1.30	36	0.21	8.76	18	9.7
ZZ84578		0.073	0.45	1.16	39	0.17	8.21	113	5.5
ZZ84579		0.080	0.49	2.01	66	0.21	7.84	118	6.9
ZZ84580		0.077	0.35	0.87	36	0.12	7.13	21	4.5
ZZ84581		0.056	0.56	1.06	54	0.16	11.35	120	10.5
ZZ84582		0.048	0.87	4.32	663	0.31	37.7	779	13.7
ZZ84583		0.034	0.18	1.47	55	0.11	5.82	173	2.3
ZZ84584		0.078	0.26	1.28	57	0.17	7.12	54	4.3
ZZ84585		0.078	0.24	0.81	57	0.15	7.54	437	3.5
ZZ84586		0.064	0.26	1.46	59	0.13	6.98	1380	4.1
ZZ84587		0.061	0.35	1.21	132	0.23	13.40	257	5.3
ZZ84588		0.062	0.32	4.27	104	0.24	9.31	288	7.0

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: **SILVER RANGE RESOURCES LTD.**
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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 7- AUG- 2013
Account: RANSIL

Project: KEG - XXII

CERTIFICATE OF ANALYSIS WH13136049

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).
ME- MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
LOG- 22 SCR- 41 WEI- 21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au- ICP21 ME- MS41

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To: **SILVER RANGE RESOURCES LTD.**
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 8-AUG-2013
Account: RANSIL

CERTIFICATE WH13137971

Project: KEG - Owl SW

P.O. No.: Batch 13-O01

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 7-AUG-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Sn-XRF05	Sn-Trace Level XRF Analysis	XRF

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Finalized Date: 8-AUG-2013
Account: RANSIL

Project: KEG - Owl SW

CERTIFICATE OF ANALYSIS WH13137971

Sample Description	Method	Sn-XRF05
	Analyte	Sn
	Units	ppm
	LOR	5
K285751		6
K285752		<5
K285753		11
K285754		<5
K285755		58
K285756		92
K285757		6
K285758		11
K285759		12
K285760		<5
K285761		22
K285762		18
K285763		47
K285764		170
K285765		5
K285766		<5
K285767		<5
K285768		5
K285769		168
K285770		<5
K285771		12
K285772		<5
K285773		7
K285774		<5
K285775		5
K285776		<5
K285777		<5
K285778		<5
K285779		<5
K285780		<5
K285781		<5
K285782		7
K285783		<5
K285784		7
K285785		7
K285786		6

***** See Appendix Page for comments regarding this certificate *****

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North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: KEG - Owl SW

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 8-AUG-2013
Account: RANSIL

CERTIFICATE OF ANALYSIS WH13137971

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

FND-02 Sn-XRF05

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To: **SILVER RANGE RESOURCES LTD.**
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Finalized Date: 13-AUG-2013
Account: RANSIL

CERTIFICATE WH13137972

Project: KEG - Owl SW

P.O. No.: Batch 13-O02

This report is for 29 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 7-AUG-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Sn-XRF05	Sn-Trace Level XRF Analysis	XRF

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Finalized Date: 13- AUG- 2013
Account: RANSIL

Project: KEG - Owl SW

CERTIFICATE OF ANALYSIS WH13137972

Sample Description	Method Analyte Units LOR	Au- AA24 Au ppm 0.005	Sn- XRF05 Sn ppm 5
K285787		<0.005	<5
K285788		<0.005	8
K285789		<0.005	7
K285790		<0.005	8
K285791		<0.005	8
K285792		<0.005	9
K285793		<0.005	9
K285794		<0.005	6
K285795		0.007	171
K285796		<0.005	18
K285797		<0.005	26
K285798		0.008	22
K285799		<0.005	<5
K285800		<0.005	21
K285853		<0.005	8
K285854		0.007	22
K285855		0.014	43
K285856		<0.005	<5
K285857		<0.005	<5
K285858		<0.005	11
K285859		<0.005	10
K285860		<0.005	6
K285861		<0.005	8
K285862		<0.005	7
K285863		<0.005	16
K285864		<0.005	23
K285865		<0.005	13
K285866		0.005	5
K285867		<0.005	5

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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 13-AUG-2013
Account: RANSIL

Project: KEG - Owl SW

CERTIFICATE OF ANALYSIS WH13137972

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-AA24	FND-02	Sn-XRF05

ALS Canada Ltd.

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Finalized Date: 16-AUG-2013
Account: RANSIL

CERTIFICATE WH13138744

Project: KEG - RGS

P.O. No.:

This report is for 11 Rock samples submitted to our lab in Whitehorse, YT, Canada on 1-AUG-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70%<2mm
CRU-QC	Crushing QC Test
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test
PUL-31	Pulverize split to 85%<75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	VARIABLE

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
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Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Finalized Date: 16- AUG- 2013
Account: RANSIL

Project: KEG - RGS

CERTIFICATE OF ANALYSIS WH13138744

Sample Description	Method	WEI-21	Au-AA24	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M676944		1.11	<0.005	0.98	4.68	8.8	710	1.50	0.40	2.29	1.36	45.4	15.2	75	8.14	103.0
M676945		1.50	<0.005	10.85	4.66	1705	1270	0.91	2.89	3.32	139.0	34.4	24.5	53	8.20	263
M676946		1.34	0.011	2.84	5.77	13.9	590	1.85	0.23	2.81	13.50	57.7	7.6	124	6.74	98.7
M676947		1.58	<0.005	0.49	4.88	96.3	690	1.52	0.16	2.66	0.86	50.4	7.0	68	9.11	86.4
M676948		1.34	0.121	1.17	2.53	170.0	3870	1.76	0.19	0.03	0.12	31.1	1.5	93	10.75	97.4
M676949		1.71	0.006	0.18	3.29	8.0	9140	1.26	0.17	0.02	0.07	14.20	5.0	67	10.30	46.3
M676950		1.35	<0.005	0.09	1.35	22.8	5580	0.86	0.09	0.01	0.06	19.05	1.5	34	4.49	91.9
M676951		2.14	<0.005	2.32	5.05	1760	800	1.52	2.09	5.70	0.48	54.3	6.5	89	7.33	149.5
M676952		1.40	<0.005	0.71	3.78	473	290	1.30	0.22	1.13	0.11	33.2	13.8	45	11.95	96.2
M676953		1.69	<0.005	0.06	1.77	58.6	440	0.60	0.12	0.03	0.07	32.4	1.4	31	3.28	225
L840500		1.43	0.026	2.92	2.51	728	4600	1.50	1.13	0.03	<0.5	45.7	1.0	179	3.30	593

***** See Appendix Page for comments regarding this certificate *****

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Finalized Date: 16- AUG- 2013
Account: RANSIL

Project: KEG - RGS

CERTIFICATE OF ANALYSIS WH13138744

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
M676944		2.67	13.10	0.18	1.6	0.057	2.17	24.3	45.0	1.55	454	5.55	0.56	7.4	53.0	970
M676945		8.97	10.75	0.27	1.7	6.40	4.20	15.1	23.8	1.29	573	1.60	0.12	8.7	46.7	460
M676946		2.75	15.75	0.25	2.4	0.084	1.91	32.0	40.3	1.70	288	59.9	0.95	11.6	64.2	2070
M676947		2.05	14.90	0.19	2.4	0.050	1.75	29.0	41.8	1.31	388	29.2	0.27	10.9	42.9	1510
M676948		16.15	8.61	0.19	1.5	0.040	0.88	19.0	20.2	0.15	225	6.39	0.02	4.0	29.9	3020
M676949		3.63	10.80	0.11	1.4	0.035	1.42	7.0	30.5	0.37	169	0.40	0.03	4.3	24.5	340
M676950		7.44	6.83	0.12	0.6	0.015	0.44	6.8	11.4	0.07	51	1.13	0.01	1.9	18.9	860
M676951		2.72	12.05	0.21	2.3	0.006	2.00	32.9	77.5	2.63	902	6.95	0.21	8.3	43.4	4340
M676952		4.17	10.45	0.15	1.5	0.007	1.56	18.0	36.2	0.80	167	68.4	0.53	6.9	75.2	500
M676953		4.44	7.00	0.08	0.8	0.057	0.67	12.2	11.9	0.13	72	2.27	0.02	3.0	10.8	420
L840500		11.50	6.75	0.21	0.9	2.12	0.69	30.1	12.5	0.13	33	1.93	0.01	3.0	6.1	1020

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Finalized Date: 16- AUG- 2013
Account: RANSIL

Project: KEG - RGS

CERTIFICATE OF ANALYSIS WH13138744

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
M676944		126.0	113.5	0.009	1.04	4.17	12.6	5	9.3	144.0	0.60	0.20	6.1	0.282	1.36	2.7
M676945		1550	225	0.006	5.29	6.60	7.9	45	189.0	168.5	0.70	0.39	6.7	0.300	2.99	2.0
M676946		19.1	76.8	0.025	0.82	6.27	11.6	32	2.8	183.0	0.91	0.13	8.9	0.391	1.24	5.1
M676947		24.3	101.5	0.033	0.64	4.98	10.5	7	15.9	205	0.87	0.07	8.4	0.349	1.35	9.8
M676948		14.8	59.0	0.008	0.15	59.4	13.1	10	1.2	52.6	0.36	0.08	5.8	0.159	0.28	5.6
M676949		5.0	79.1	<0.002	0.09	1.58	9.5	1	1.0	84.8	0.36	0.05	4.5	0.180	0.36	1.3
M676950		3.6	25.1	<0.002	0.16	12.40	5.0	5	0.5	22.1	0.20	<0.05	2.4	0.069	0.15	1.6
M676951		232	124.5	0.005	0.75	4.51	8.7	11	109.5	255	0.71	0.11	7.6	0.332	1.41	3.7
M676952		23.9	108.0	0.047	2.25	2.47	6.9	7	5.5	97.8	0.53	0.20	5.5	0.237	1.46	14.8
M676953		42.5	29.9	<0.002	0.03	8.65	7.8	2	1.0	26.3	0.22	<0.05	3.0	0.102	0.21	0.9
L840500		601	63.1	<0.002	0.13	40.1	12.8	43	410	57.3	0.21	0.25	3.2	0.106	0.73	4.6

***** See Appendix Page for comments regarding this certificate *****

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Finalized Date: 16-AUG-2013
Account: RANSIL

Project: KEG - RGS

CERTIFICATE OF ANALYSIS WH13138744

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Zn-OG62
	Analyte	V	W	Y	Zn	Zr	Zn
	Units	ppm	ppm	ppm	ppm	ppm	%
	LOR	1	0.1	0.1	2	0.5	0.001
M676944		147	1.7	25.9	168	68.9	
M676945		73	1.6	22.0	>10000	60.9	1.375
M676946		490	1.4	37.7	803	87.1	
M676947		310	1.6	35.4	76	93.4	
M676948		107	1.3	20.8	307	56.0	
M676949		80	1.4	10.4	54	47.7	
M676950		42	0.8	4.6	110	23.6	
M676951		157	1.5	39.7	81	73.2	
M676952		335	1.7	21.3	23	69.0	
M676953		51	0.7	5.8	68	28.7	
L840500		230	0.8	8.6	45	34.2	

***** See Appendix Page for comments regarding this certificate *****

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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 16-AUG-2013
Account: RANSIL

CERTIFICATE OF ANALYSIS WH13138744

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-22	PUL-31
	PUL-QC	SPL-21	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

ALS Canada Ltd.

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Finalized Date: 12-AUG-2013
Account: RANSIL

CERTIFICATE WH13138745

Project: KEG - RGS

P.O. No.:

This report is for 32 Soil samples submitted to our lab in Whitehorse, YT, Canada on 1-AUG-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS41	51 anal. aqua regia ICPMS	

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
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Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Finalized Date: 12-AUG-2013
Account: RANSIL

Project: KEG - RGS

CERTIFICATE OF ANALYSIS WH13138745

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ84589		0.33	0.009	2.90	1.53	13.0	<0.2	<10	900	0.74	0.24	0.07	0.45	24.0	19.1	34
ZZ84590		0.30	0.007	0.22	1.20	18.5	<0.2	<10	120	0.31	0.26	0.07	0.18	20.8	4.7	24
ZZ84591		0.28	0.005	0.17	1.77	11.9	<0.2	<10	110	0.43	0.22	0.10	0.19	21.8	6.8	29
ZZ84592		0.33	0.007	0.24	1.36	11.1	<0.2	<10	80	0.34	0.16	0.10	0.24	20.9	6.8	24
ZZ84593		0.25	0.004	0.31	1.53	10.3	<0.2	<10	160	0.43	0.16	0.11	0.27	25.1	6.1	27
ZZ84594		0.30	0.002	0.63	0.87	13.4	<0.2	<10	110	0.16	0.36	0.06	0.17	23.6	3.1	17
ZZ84595		0.28	0.004	0.22	0.94	7.7	<0.2	<10	160	0.23	0.22	0.05	0.09	22.5	2.8	18
ZZ84596		0.36	0.005	0.13	1.66	11.7	<0.2	<10	220	0.51	0.21	0.10	0.20	32.0	8.4	28
ZZ84597		0.27	0.008	0.13	0.97	16.3	<0.2	<10	550	0.45	0.18	0.09	0.19	28.1	5.0	20
ZZ84598		0.26	0.002	0.10	0.61	5.7	<0.2	<10	110	0.11	0.18	0.03	0.09	25.0	1.8	13
ZZ84599		0.34	0.004	0.24	1.07	19.1	<0.2	<10	150	0.28	0.21	0.06	0.11	21.4	4.0	22
ZZ84600		0.39	0.006	0.24	1.13	10.7	<0.2	<10	200	0.33	0.18	0.08	0.19	19.25	5.0	23
ZZ84601		0.31	0.002	0.25	0.49	11.6	<0.2	<10	170	0.16	0.18	0.04	0.17	20.0	2.0	14
ZZ84602		0.37	0.006	0.13	1.17	12.4	<0.2	<10	140	0.34	0.18	0.08	0.16	25.0	5.2	23
ZZ84603		0.15	<0.001	0.13	0.46	0.8	<0.2	<10	100	0.08	0.04	0.09	0.05	3.87	1.1	2
ZZ84604		0.35	0.014	1.42	0.45	16.5	<0.2	<10	370	0.35	0.28	0.67	0.45	26.6	3.2	13
ZZ84605		0.32	0.015	1.20	0.43	20.6	<0.2	<10	290	0.38	0.26	0.28	0.32	29.8	2.5	14
ZZ84606		0.29	0.003	0.39	1.11	8.3	<0.2	<10	390	0.59	0.12	2.68	0.34	10.65	5.0	21
ZZ84607		0.26	0.003	0.68	0.76	4.5	<0.2	<10	360	0.32	0.11	1.35	0.37	11.25	3.2	10
ZZ84608		0.22	0.003	0.36	0.61	3.7	<0.2	<10	490	0.44	0.07	2.12	0.49	8.65	6.2	7
ZZ84609		0.36	0.003	0.58	1.87	15.8	<0.2	<10	340	1.20	0.16	1.98	0.59	15.50	8.4	34
ZZ84610		0.24	0.004	0.65	1.33	8.6	<0.2	<10	420	0.75	0.15	1.46	0.58	15.50	6.2	22
ZZ84611		0.32	0.005	0.73	1.22	24.1	<0.2	<10	660	0.67	0.24	1.79	0.68	19.85	6.3	25
ZZ84612		0.23	0.003	0.38	1.62	8.4	<0.2	<10	330	0.97	0.13	2.04	0.38	11.95	6.1	24
ZZ84613		0.22	0.001	0.22	0.15	0.4	<0.2	<10	110	<0.05	0.01	0.47	0.08	1.19	0.8	1
ZZ84614		0.32	0.002	0.36	0.69	7.6	<0.2	<10	330	0.43	0.09	1.87	0.31	11.80	3.1	14
ZZ84615		0.36	0.002	0.35	1.50	13.2	<0.2	<10	320	0.76	0.14	2.07	0.33	11.85	4.9	36
ZZ84616		0.35	0.001	0.14	0.54	5.5	<0.2	<10	210	0.23	0.07	1.15	0.09	6.15	1.9	10
ZZ84617		0.33	0.003	0.47	1.62	18.5	<0.2	<10	370	0.88	0.20	1.55	0.38	19.15	5.5	40
ZZ84618		0.20	0.002	0.30	1.20	7.7	<0.2	<10	150	0.64	0.12	2.31	0.32	11.00	3.9	26
ZZ84619		0.31	0.004	0.47	1.49	17.8	<0.2	<10	330	0.87	0.19	2.18	0.40	15.50	4.8	34
ZZ84620		0.24	0.004	0.38	1.70	26.3	<0.2	<10	870	0.94	0.27	2.15	0.27	19.05	5.4	34

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 12- AUG- 2013
Account: RANSIL

Project: KEG - RGS

CERTIFICATE OF ANALYSIS WH13138745

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ84589		11.35	77.2	3.31	3.99	0.08	<0.02	0.25	0.038	0.10	12.6	12.8	0.34	471	2.76	<0.01
ZZ84590		1.38	35.6	2.44	5.41	0.05	<0.02	0.09	0.040	0.07	10.9	11.8	0.25	210	2.68	<0.01
ZZ84591		1.18	19.3	2.46	4.61	0.05	0.02	0.06	0.027	0.06	11.3	16.2	0.43	205	1.64	<0.01
ZZ84592		0.87	22.6	2.05	3.13	0.05	0.03	0.10	0.029	0.05	10.9	11.7	0.34	205	1.51	<0.01
ZZ84593		1.11	20.6	2.38	3.93	0.05	0.03	0.07	0.027	0.05	11.9	15.7	0.35	209	1.51	<0.01
ZZ84594		1.17	12.6	1.98	8.69	<0.05	0.02	0.08	0.019	0.04	12.1	3.5	0.15	114	2.03	<0.01
ZZ84595		1.07	18.9	1.76	5.18	<0.05	<0.02	0.07	0.021	0.03	12.1	3.8	0.09	75	1.98	<0.01
ZZ84596		1.51	22.0	2.50	4.82	0.06	0.02	0.04	0.026	0.07	15.8	11.6	0.44	254	1.67	<0.01
ZZ84597		1.25	39.6	2.31	2.80	0.06	0.02	0.13	0.032	0.05	14.1	7.8	0.28	169	1.68	<0.01
ZZ84598		1.15	10.3	0.99	5.33	<0.05	<0.02	0.03	0.014	0.03	12.8	1.6	0.04	42	1.53	<0.01
ZZ84599		1.69	25.5	2.65	5.99	0.05	<0.02	0.09	0.025	0.05	11.3	7.5	0.23	145	1.81	<0.01
ZZ84600		2.14	22.7	2.30	4.04	0.05	<0.02	0.10	0.025	0.06	10.3	9.4	0.29	171	1.86	<0.01
ZZ84601		1.73	23.0	1.39	3.44	<0.05	<0.02	0.05	0.017	0.04	10.6	1.1	0.03	44	2.05	<0.01
ZZ84602		1.46	25.1	2.26	4.05	0.06	<0.02	0.06	0.027	0.05	12.4	9.7	0.28	183	1.64	<0.01
ZZ84603		0.50	7.9	0.51	1.89	<0.05	<0.02	0.04	<0.005	0.02	1.8	0.4	0.03	27	0.20	0.02
ZZ84604		1.24	20.9	1.65	1.99	0.06	0.05	0.17	0.047	0.09	14.8	5.6	0.14	111	1.37	0.01
ZZ84605		0.80	22.4	1.72	2.27	0.07	0.04	0.13	0.052	0.08	16.7	4.5	0.09	49	1.57	0.01
ZZ84606		1.29	37.8	1.38	2.49	<0.05	0.05	0.05	0.025	0.05	5.5	11.5	0.24	182	0.40	0.01
ZZ84607		0.82	19.4	0.95	2.21	<0.05	0.03	0.07	0.016	0.04	5.8	5.7	0.13	128	0.62	0.01
ZZ84608		0.83	34.1	0.99	1.27	<0.05	0.04	0.07	0.012	0.03	4.7	5.3	0.11	329	0.49	0.02
ZZ84609		2.23	147.0	2.00	3.58	0.05	0.06	0.09	0.064	0.07	7.8	25.8	0.37	217	0.94	<0.01
ZZ84610		2.18	70.0	1.34	3.07	0.05	0.04	0.10	0.037	0.08	7.9	16.8	0.32	174	0.68	0.02
ZZ84611		2.11	50.0	1.88	3.24	0.05	0.05	0.10	0.029	0.09	10.4	14.1	0.43	213	1.39	0.01
ZZ84612		2.16	73.4	1.47	3.06	<0.05	0.06	0.07	0.025	0.05	6.1	14.3	0.33	153	0.78	0.01
ZZ84613		0.10	4.2	0.31	0.61	<0.05	<0.02	0.01	<0.005	0.03	0.6	0.4	0.02	24	0.08	0.03
ZZ84614		1.37	16.7	0.90	2.06	<0.05	0.04	0.07	0.013	0.04	6.0	6.0	0.21	187	0.68	0.01
ZZ84615		2.62	17.5	1.69	4.14	<0.05	0.08	0.05	0.027	0.07	6.1	16.1	0.47	244	1.18	<0.01
ZZ84616		0.99	8.0	0.64	1.46	<0.05	0.03	0.05	0.011	0.04	2.9	4.6	0.16	68	0.56	0.02
ZZ84617		3.15	24.8	1.89	4.59	0.05	0.09	0.06	0.032	0.09	9.9	25.3	0.54	190	1.35	0.01
ZZ84618		2.63	18.9	1.42	3.17	<0.05	0.05	0.05	0.024	0.06	5.7	14.9	0.37	148	0.74	0.01
ZZ84619		3.15	26.1	1.88	4.07	0.05	0.07	0.05	0.034	0.08	8.3	21.4	0.48	165	1.19	0.01
ZZ84620		2.62	58.7	2.18	4.39	0.05	0.09	0.14	0.043	0.08	9.9	21.8	0.49	128	1.43	0.01

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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 12- AUG- 2013
Account: RANSIL

Project: KEG - RGS

CERTIFICATE OF ANALYSIS WH13138745

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ84589		0.45	52.9	1410	13.9	14.9	0.001	0.18	1.79	1.0	4.1	0.5	32.6	<0.01	0.06	<0.2
ZZ84590		0.92	16.4	410	18.2	10.0	<0.001	0.03	2.33	1.3	2.0	0.9	11.3	<0.01	0.07	0.4
ZZ84591		1.58	20.1	380	16.4	6.8	0.001	0.03	1.51	2.2	1.0	0.6	11.1	<0.01	0.03	1.3
ZZ84592		1.05	17.6	380	11.8	5.6	<0.001	0.02	2.55	2.0	1.4	0.3	11.1	<0.01	0.06	1.4
ZZ84593		1.45	19.0	530	13.1	6.6	0.001	0.03	1.35	2.2	0.8	0.4	10.9	<0.01	0.03	1.5
ZZ84594		2.34	9.6	230	12.8	5.5	0.001	0.02	0.99	1.5	0.4	1.0	7.7	<0.01	0.04	1.9
ZZ84595		0.69	9.1	410	13.6	5.5	<0.001	0.04	1.16	0.8	1.0	0.9	9.1	<0.01	0.05	0.2
ZZ84596		1.38	21.8	340	11.9	8.5	<0.001	0.02	1.32	2.9	1.0	0.6	11.7	0.01	0.04	1.7
ZZ84597		0.84	15.7	570	10.3	5.2	0.001	0.02	2.03	2.9	2.9	0.4	20.6	<0.01	0.04	2.2
ZZ84598		0.65	6.1	210	7.8	4.2	<0.001	0.01	0.90	0.7	0.4	0.9	6.6	<0.01	0.03	0.3
ZZ84599		1.06	12.9	290	12.3	7.2	<0.001	0.02	1.65	1.5	1.0	0.8	9.6	<0.01	0.05	0.4
ZZ84600		0.84	15.5	420	9.8	8.3	0.001	0.03	1.57	1.6	1.0	0.5	10.2	<0.01	0.04	0.6
ZZ84601		0.40	7.3	610	8.9	5.4	<0.001	0.05	1.53	0.6	1.2	0.8	8.3	<0.01	0.04	<0.2
ZZ84602		0.93	16.2	330	9.9	6.8	<0.001	0.02	1.53	1.8	1.9	0.4	10.0	<0.01	0.04	0.8
ZZ84603		0.24	1.1	510	1.5	1.0	<0.001	0.03	0.44	0.1	<0.2	<0.2	10.6	<0.01	0.01	<0.2
ZZ84604		0.32	17.5	740	37.8	5.7	0.001	0.15	3.72	1.6	3.4	0.4	76.4	<0.01	0.11	2.7
ZZ84605		0.28	14.3	660	39.1	4.7	0.001	0.16	3.68	1.7	3.6	0.4	87.0	<0.01	0.13	3.0
ZZ84606		0.85	29.8	530	8.5	7.0	0.001	0.07	1.70	1.3	1.3	0.3	80.4	<0.01	0.03	0.7
ZZ84607		0.75	15.4	430	6.6	7.0	<0.001	0.05	1.00	0.8	0.9	0.3	49.8	<0.01	0.02	0.5
ZZ84608		0.41	26.2	520	6.4	3.8	0.001	0.07	1.48	0.6	1.8	0.2	64.6	<0.01	0.02	0.3
ZZ84609		1.29	61.9	850	11.8	14.5	0.004	0.08	1.64	2.6	4.5	0.6	68.8	0.01	0.03	1.3
ZZ84610		0.83	33.2	680	10.9	15.7	0.003	0.07	1.31	2.1	2.8	0.6	50.5	<0.01	0.02	1.1
ZZ84611		0.98	27.1	760	23.2	15.6	0.003	0.07	2.47	2.5	2.2	1.4	54.4	<0.01	0.05	1.6
ZZ84612		0.80	46.1	530	8.8	10.9	0.001	0.07	1.65	1.6	1.1	0.4	62.4	<0.01	0.02	0.9
ZZ84613		0.15	1.2	120	0.5	0.9	0.001	0.01	0.29	0.2	<0.2	<0.2	18.4	<0.01	<0.01	<0.2
ZZ84614		0.56	13.0	460	6.3	6.3	0.003	0.07	1.61	1.0	2.2	0.3	53.2	<0.01	0.03	0.4
ZZ84615		1.50	23.3	390	13.8	13.1	0.001	0.07	1.83	2.2	1.4	0.5	69.9	<0.01	0.03	1.5
ZZ84616		0.51	8.3	310	4.3	5.8	0.001	0.05	1.19	0.7	0.3	0.2	31.0	<0.01	0.02	0.4
ZZ84617		1.56	32.4	340	14.9	21.4	<0.001	0.03	2.97	3.3	1.1	0.7	49.2	<0.01	0.04	3.1
ZZ84618		0.78	22.4	400	8.3	12.7	0.001	0.07	2.79	1.5	1.5	0.3	53.2	<0.01	0.02	0.8
ZZ84619		1.19	33.9	340	14.7	16.6	0.001	0.04	3.15	2.5	1.6	0.6	59.7	<0.01	0.05	1.9
ZZ84620		1.56	41.9	280	21.1	15.0	0.001	0.04	3.79	3.1	1.8	0.9	64.8	<0.01	0.09	2.8

***** See Appendix Page for comments regarding this certificate *****

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Finalized Date: 12- AUG- 2013
Account: RANSIL

Project: KEG - RGS

CERTIFICATE OF ANALYSIS WH13138745

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ84589		0.017	0.26	2.50	48	0.14	8.74	129	<0.5
ZZ84590		0.042	0.13	0.62	59	0.30	2.56	64	<0.5
ZZ84591		0.051	0.12	0.63	50	0.31	3.10	60	0.6
ZZ84592		0.050	0.08	0.59	39	0.21	2.92	53	0.6
ZZ84593		0.048	0.12	0.70	44	0.38	3.53	57	0.7
ZZ84594		0.091	0.16	0.56	96	0.37	2.10	37	0.7
ZZ84595		0.037	0.14	0.58	60	0.27	2.18	37	<0.5
ZZ84596		0.064	0.14	0.96	52	0.34	6.43	67	0.5
ZZ84597		0.038	0.10	0.86	46	0.17	5.28	57	0.5
ZZ84598		0.035	0.15	0.48	48	0.20	1.75	25	<0.5
ZZ84599		0.063	0.12	0.62	60	0.24	2.62	48	<0.5
ZZ84600		0.047	0.11	0.60	46	0.25	2.59	62	<0.5
ZZ84601		0.027	0.12	0.55	46	0.19	1.88	34	<0.5
ZZ84602		0.049	0.10	0.62	50	0.24	3.14	57	<0.5
ZZ84603		0.021	0.03	0.17	15	<0.05	0.72	7	<0.5
ZZ84604		0.008	0.52	1.04	30	0.08	6.84	112	2.1
ZZ84605		0.006	0.60	0.94	36	0.05	6.60	87	1.6
ZZ84606		0.020	0.15	0.71	64	0.08	6.48	142	2.0
ZZ84607		0.024	0.13	0.52	29	0.11	4.26	78	1.0
ZZ84608		0.018	0.16	1.21	25	0.07	8.51	169	1.6
ZZ84609		0.029	0.31	1.78	91	0.16	11.55	219	2.1
ZZ84610		0.023	0.26	1.60	55	0.10	9.00	135	1.8
ZZ84611		0.025	0.29	1.61	60	0.25	9.85	109	2.1
ZZ84612		0.022	0.22	1.12	68	0.13	9.57	191	2.2
ZZ84613		0.017	0.02	0.18	11	<0.05	0.36	8	<0.5
ZZ84614		0.020	0.14	1.01	43	0.09	6.12	62	1.5
ZZ84615		0.022	0.22	1.12	104	0.16	7.35	106	3.2
ZZ84616		0.018	0.12	0.35	32	0.06	2.23	32	1.3
ZZ84617		0.037	0.33	0.60	112	0.20	9.81	118	3.8
ZZ84618		0.018	0.26	1.05	79	0.11	6.30	112	2.1
ZZ84619		0.027	0.32	0.84	101	0.18	9.42	133	2.9
ZZ84620		0.032	0.43	0.68	100	0.20	11.20	107	3.8

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To: **SILVER RANGE RESOURCES LTD.**
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 12-AUG-2013
Account: RANSIL

Project: KEG - RGS

CERTIFICATE OF ANALYSIS WH13138745

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
ME-MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
LOG-22 SCR-41 WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-ICP21 ME-MS41

ALS Canada Ltd.

2103 Dollarton Hwy
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To: **SILVER RANGE RESOURCES LTD.**
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 22-AUG-2013
Account: RANSIL

CERTIFICATE WH13141817

Project: KEG - IX

P.O. No.:

This report is for 6 Rock samples submitted to our lab in Whitehorse, YT, Canada on 6-AUG-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70%<2mm
CRU-QC	Crushing QC Test
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test
PUL-31	Pulverize split to 85%<75 um

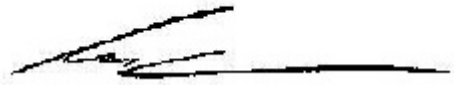
ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature: 

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 22- AUG- 2013
Account: RANSIL

Project: KEG - IX

CERTIFICATE OF ANALYSIS WH13141817

Sample Description	Method	WEI-21	Au-AA24	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M676954		1.02	<0.005	0.43	1.52	12.7	320	0.31	0.08	0.04	0.96	7.12	2.3	53	2.03	18.2
M676955		0.95	<0.005	0.63	5.54	30.5	1090	1.86	0.06	0.10	0.07	40.6	0.4	83	4.58	19.3
M676956		1.29	<0.005	0.59	1.83	6.5	480	0.70	0.07	0.06	0.04	25.8	0.5	51	2.30	17.2
M676957		0.99	<0.005	0.02	6.04	11.6	1400	0.98	0.33	0.21	0.26	51.1	0.4	12	5.07	5.7
M676958		1.19	<0.005	0.23	5.10	7.8	1570	1.79	0.15	0.97	4.35	60.9	4.7	74	7.04	39.7
M676959		1.29	<0.005	0.10	1.63	7.9	470	0.60	0.05	0.12	1.87	13.35	1.0	38	1.40	32.6

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Finalized Date: 22- AUG- 2013
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CERTIFICATE OF ANALYSIS WH13141817

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
M676954		2.31	3.69	<0.05	0.8	0.021	0.56	4.2	18.9	0.37	73	6.20	0.02	3.6	16.8	240
M676955		1.90	14.15	0.06	2.9	0.024	1.84	25.9	80.1	0.72	54	3.87	0.11	18.5	8.0	650
M676956		0.97	4.67	0.05	0.9	0.014	0.71	14.0	14.2	0.15	53	4.66	0.02	3.9	3.9	1230
M676957		0.49	16.30	0.09	1.8	0.056	2.34	22.3	14.4	0.11	32	1.39	0.10	10.9	6.2	1150
M676958		3.61	12.45	0.09	2.2	0.055	2.24	34.8	14.9	0.58	87	1.51	0.05	15.4	42.9	710
M676959		1.29	4.19	<0.05	0.5	0.020	0.55	7.6	38.8	0.34	71	3.86	0.01	2.2	17.5	510

***** See Appendix Page for comments regarding this certificate *****

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Finalized Date: 22- AUG- 2013
Account: RANSIL

Project: KEG - IX

CERTIFICATE OF ANALYSIS WH13141817

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
M676954		11.8	24.2	<0.002	1.86	7.96	1.7	2	1.0	12.5	0.23	0.10	2.3	0.082	0.57	2.2
M676955		10.6	99.1	0.005	0.14	5.55	9.0	3	8.9	60.4	0.92	<0.05	6.7	0.328	1.54	3.1
M676956		15.5	30.5	0.004	0.05	2.47	3.3	2	0.7	45.1	0.26	0.07	2.7	0.093	0.48	3.9
M676957		2.8	80.9	<0.002	0.01	1.66	2.3	1	6.2	33.9	1.13	<0.05	13.6	0.110	0.78	7.7
M676958		15.4	94.4	0.003	0.24	2.57	7.7	1	1.6	46.3	0.81	0.05	10.6	0.268	1.25	3.8
M676959		7.7	20.8	0.019	0.09	2.55	3.1	1	0.7	21.2	0.15	0.07	2.4	0.067	0.36	3.8

***** See Appendix Page for comments regarding this certificate *****

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VANCOUVER BC V6B 1L8

Finalized Date: 22- AUG- 2013
Account: RANSIL

Project: KEG - IX

CERTIFICATE OF ANALYSIS WH13141817

Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
M676954		214	0.3	3.7	52	27.1
M676955		520	1.4	11.4	15	94.8
M676956		288	0.4	11.6	4	31.8
M676957		22	1.7	30.9	14	44.0
M676958		377	1.0	18.6	355	77.0
M676959		218	0.3	4.9	189	16.7

***** See Appendix Page for comments regarding this certificate *****

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VANCOUVER BC V6B 1L8

Project: KEG - IX

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 22-AUG-2013
Account: RANSIL

CERTIFICATE OF ANALYSIS WH13141817

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

CRU-31	CRU-QC	LOG-22	PUL-31
PUL-QC	SPL-21	WEI-21	

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-AA24	ME-MS61

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 19-AUG-2013
Account: RANSIL

CERTIFICATE WH13141818

Project: KEG - Drex

P.O. No.:

This report is for 10 Rock samples submitted to our lab in Whitehorse, YT, Canada on 6-AUG-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70%<2mm
CRU-QC	Crushing QC Test
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test
PUL-31	Pulverize split to 85%<75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

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***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Finalized Date: 19- AUG- 2013
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Project: KEG - Drex

CERTIFICATE OF ANALYSIS WH13141818

Sample Description	Method	WEI-21	Au-AA24	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
K280901		0.97	<0.005	0.07	2.89	14.0	8040	0.96	0.10	0.10	0.16	25.8	4.6	67	8.55	27.8
K280902		0.96	<0.005	0.54	4.60	63.9	6970	1.41	0.25	0.03	0.26	49.3	5.5	57	9.62	114.5
K280903		1.17	<0.005	0.55	4.11	36.8	9800	1.14	0.28	0.04	<0.02	44.7	4.3	61	5.26	40.0
K280904		1.16	<0.005	0.88	2.08	78.2	6330	0.59	0.22	0.02	0.06	26.5	1.9	39	2.95	18.4
K280905		1.21	<0.005	1.86	3.23	381	8390	0.58	0.06	0.12	0.32	27.0	2.7	52	9.50	80.5
K280906		1.39	<0.005	0.24	1.99	24.0	360	0.97	0.16	0.10	1.29	30.1	8.7	34	2.87	88.0
L840370		1.69	0.005	1.50	1.53	9.6	7190	0.81	0.10	0.02	0.06	23.2	1.5	57	3.84	30.5
L840371		1.46	<0.005	8.50	2.15	559	8130	0.59	0.11	0.02	0.12	16.90	0.8	67	3.95	46.2
L840372		1.91	<0.005	2.67	1.53	77.8	1120	0.50	4.05	0.24	4.23	25.8	7.7	37	3.23	52.4
L840373		1.06	<0.005	1.70	2.32	503	1610	0.71	0.43	0.13	3.51	36.1	9.1	45	7.25	48.7

***** See Appendix Page for comments regarding this certificate *****

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Finalized Date: 19- AUG- 2013
Account: RANSIL

Project: KEG - Drex

CERTIFICATE OF ANALYSIS WH13141818

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
K280901		1.74	10.80	0.06	1.1	0.034	1.50	12.0	22.1	0.56	375	0.48	0.04	4.4	26.7	240
K280902		3.37	16.60	0.12	1.8	0.028	2.21	20.0	36.9	0.86	371	2.68	0.02	8.2	33.2	650
K280903		1.95	14.60	0.09	1.7	0.039	2.22	17.4	34.0	0.98	495	0.73	0.02	7.4	23.7	300
K280904		1.13	8.10	0.07	1.1	0.016	1.40	9.1	17.6	0.40	185	0.78	0.01	4.0	12.5	240
K280905		1.85	10.90	0.09	1.4	0.023	2.80	10.2	31.6	0.76	243	0.42	0.04	6.8	13.8	270
K280906		1.91	6.29	0.09	0.9	0.037	0.57	12.1	15.9	0.42	522	0.85	0.20	3.2	43.1	200
L840370		0.96	5.28	0.07	0.7	0.017	0.56	11.8	10.3	0.09	50	0.52	<0.01	2.5	10.7	640
L840371		2.21	7.72	0.08	1.1	0.077	1.16	10.0	19.4	0.41	86	0.76	<0.01	4.4	8.0	290
L840372		1.53	6.85	0.08	1.0	0.247	0.96	10.6	18.5	0.52	246	0.48	0.03	3.3	23.6	100
L840373		1.91	9.96	0.09	1.5	0.030	1.25	13.0	40.7	0.61	564	7.66	0.03	5.1	18.9	300

***** See Appendix Page for comments regarding this certificate *****

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Finalized Date: 19- AUG- 2013
Account: RANSIL

Project: KEG - Drex

CERTIFICATE OF ANALYSIS WH13141818

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
K280901		5.0	79.3	<0.002	0.16	1.13	9.1	1	1.6	117.5	0.28	<0.05	3.9	0.166	0.42	1.1
K280902		44.2	111.5	<0.002	0.08	5.43	13.6	3	36.0	72.1	0.54	0.08	6.8	0.257	1.11	1.8
K280903		61.5	104.5	<0.002	0.12	14.95	11.7	2	87.5	85.9	0.48	0.05	6.0	0.233	1.46	1.5
K280904		13.4	65.5	<0.002	0.06	7.47	7.1	1	21.3	42.5	0.27	<0.05	3.4	0.125	0.93	1.6
K280905		92.5	162.5	<0.002	0.24	3.74	10.2	1	100.0	97.3	0.44	<0.05	5.2	0.207	2.12	1.1
K280906		37.9	25.2	<0.002	0.15	6.84	6.3	1	1.5	18.8	0.21	0.08	3.2	0.085	0.38	1.3
L840370		68.8	32.2	0.004	0.27	15.90	4.1	3	1.7	105.0	0.17	<0.05	2.1	0.078	0.63	1.1
L840371		854	57.6	0.002	0.32	12.25	6.8	5	76.4	95.9	0.28	0.07	3.5	0.161	0.83	1.9
L840372		104.0	54.0	<0.002	0.27	5.83	5.2	2	12.8	46.3	0.23	0.15	3.7	0.075	0.81	0.5
L840373		360	82.4	<0.002	0.19	52.0	9.8	2	28.7	40.5	0.34	0.07	3.9	0.165	1.24	1.2

***** See Appendix Page for comments regarding this certificate *****

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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 19- AUG- 2013
Account: RANSIL

Project: KEG - Drex

CERTIFICATE OF ANALYSIS WH13141818

Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
K280901		68	1.0	9.6	80	49.9
K280902		94	1.8	13.0	103	78.5
K280903		75	1.4	8.7	49	73.3
K280904		44	0.7	7.5	17	46.6
K280905		77	2.4	9.6	39	60.4
K280906		21	0.8	10.5	140	42.4
L840370		73	0.7	8.1	25	26.0
L840371		85	0.7	7.4	31	45.3
L840372		20	0.7	8.3	300	39.1
L840373		42	1.3	9.6	148	61.8

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Finalized Date: 19-AUG-2013
Account: RANSIL

Project: KEG - Drex

CERTIFICATE OF ANALYSIS WH13141818

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

CRU-31	CRU-QC	LOG-22	PUL-31
PUL-QC	SPL-21	WEI-21	

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-AA24	ME-MS61

ALS Canada Ltd.

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Finalized Date: 20-AUG-2013
Account: RANSIL

CERTIFICATE WH13141819

Project: KEG - X

P.O. No.:

This report is for 13 Rock samples submitted to our lab in Whitehorse, YT, Canada on 6-AUG-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70%<2mm
CRU-QC	Crushing QC Test
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test
PUL-31	Pulverize split to 85%<75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

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***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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North Vancouver BC V7H 0A7
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VANCOUVER BC V6B 1L8

Finalized Date: 20- AUG- 2013
Account: RANSIL

Project: KEG - X

CERTIFICATE OF ANALYSIS WH13141819

Sample Description	Method	WEI-21	Au-AA24	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M676611		0.98	0.008	1.86	2.69	19.6	430	0.36	0.17	0.04	0.08	8.74	0.3	48	1.74	21.7
M676612		1.20	0.007	1.75	2.86	35.2	320	1.00	0.17	0.07	0.19	48.4	0.3	102	2.80	47.8
M676613		0.88	<0.005	0.14	7.11	2.7	330	0.68	0.07	0.46	0.19	142.0	0.3	29	4.34	12.6
M676614		1.44	<0.005	0.46	5.62	4.3	130	0.50	0.09	0.65	2.52	91.8	1.9	28	2.39	9.6
M676615		0.64	<0.005	0.92	5.99	6.0	130	0.40	0.06	0.17	6.16	108.0	0.6	26	2.92	8.1
M676616		1.14	0.036	0.49	1.73	24.6	280	0.31	0.15	0.02	0.09	19.00	0.3	37	1.77	21.4
M676617		0.87	0.022	6.16	1.36	419	440	0.37	0.07	0.02	0.48	4.81	0.7	42	0.68	53.1
M676618		1.07	0.009	2.17	0.88	1160	410	0.34	0.51	0.02	0.15	54.0	0.9	32	0.72	261
M676619		1.07	<0.005	1.50	0.50	9.1	380	0.16	0.09	0.01	0.02	7.86	0.3	64	0.99	14.3
K280907		1.52	0.013	2.61	1.46	291	510	0.41	0.11	0.01	0.24	15.70	0.6	46	1.09	206
K280908		1.13	0.009	1.09	1.40	134.0	970	0.34	0.06	0.02	0.09	37.2	0.3	34	1.02	98.5
K280909		1.47	0.006	0.66	1.78	9.8	5600	0.38	0.09	0.01	0.05	9.32	0.4	48	2.11	219
K280910		1.16	0.005	0.36	3.94	79.6	5350	1.42	0.11	0.03	0.12	26.2	8.5	72	1.15	286

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
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Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 20- AUG- 2013
Account: RANSIL

Project: KEG - X

CERTIFICATE OF ANALYSIS WH13141819

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
M676611		2.31	4.94	0.06	1.6	0.038	1.32	5.4	8.8	0.07	40	1.09	0.08	8.9	1.9	410
M676612		1.99	10.50	0.09	1.5	0.168	1.09	24.2	15.2	0.10	38	2.13	0.08	5.1	3.8	1460
M676613		1.12	17.60	0.15	0.9	0.012	0.34	68.4	98.5	0.13	59	0.95	0.23	17.9	4.1	220
M676614		2.18	15.35	0.11	1.0	0.040	0.11	43.8	98.7	1.04	130	0.94	0.14	14.1	16.9	290
M676615		2.51	14.90	0.10	1.0	0.043	0.15	52.5	24.8	0.08	46	0.99	0.14	16.6	5.5	250
M676616		0.73	4.40	0.05	0.7	0.069	0.60	10.3	25.8	0.07	34	0.38	0.02	2.6	4.4	160
M676617		3.37	4.20	<0.05	0.5	0.185	0.26	2.4	10.6	0.20	45	0.65	0.05	1.6	6.5	60
M676618		10.50	3.01	0.29	0.6	0.118	0.27	31.6	9.3	0.05	40	0.89	0.01	1.2	6.3	280
M676619		0.81	2.73	<0.05	0.4	0.025	0.18	3.9	10.2	0.02	45	0.78	<0.01	1.0	2.4	60
K280907		3.56	3.66	0.06	0.5	0.585	0.44	8.5	23.7	0.07	32	3.93	0.01	1.4	11.8	260
K280908		1.49	4.94	0.08	0.5	0.180	0.54	18.5	16.2	0.09	38	2.73	0.01	1.6	4.0	350
K280909		7.98	5.18	0.09	0.6	0.042	0.55	5.1	8.9	0.05	24	0.69	0.06	2.1	3.9	350
K280910		11.60	6.70	0.13	1.1	0.057	0.02	13.6	20.4	0.05	41	3.03	0.01	3.1	137.5	520

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Finalized Date: 20- AUG- 2013
Account: RANSIL

Project: KEG - X

CERTIFICATE OF ANALYSIS WH13141819

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
M676611		69.0	59.7	0.009	0.70	3.18	4.2	7	1.1	113.5	0.52	0.08	4.3	0.168	0.86	1.8
M676612		102.0	54.7	0.014	0.38	7.92	9.8	13	1.0	223	0.30	0.22	7.5	0.146	3.32	3.1
M676613		11.8	14.0	<0.002	0.02	1.13	6.0	1	0.9	101.5	1.06	<0.05	15.3	0.412	0.55	0.8
M676614		25.8	4.5	0.002	0.03	1.50	29.2	1	1.7	78.9	0.83	<0.05	17.3	0.321	0.42	1.6
M676615		72.1	6.1	<0.002	0.06	2.60	7.6	<1	2.4	69.9	0.98	<0.05	17.8	0.370	0.55	1.8
M676616		135.0	27.6	0.002	0.01	4.07	4.8	2	0.7	22.9	0.14	0.12	2.2	0.098	0.84	0.8
M676617		160.0	13.1	<0.002	0.03	21.0	4.5	4	9.6	13.7	0.11	0.05	1.3	0.053	0.29	1.3
M676618		172.0	16.9	0.002	0.03	26.6	2.5	90	84.0	23.0	0.09	0.45	1.8	0.045	0.47	1.1
M676619		22.3	9.7	0.005	0.01	3.82	1.6	4	0.8	8.1	0.06	0.11	1.3	0.034	0.19	0.7
K280907		570	25.8	<0.002	0.03	30.4	5.8	5	5.5	9.6	0.10	0.19	2.3	0.049	0.91	1.5
K280908		167.0	31.3	<0.002	0.03	14.30	5.3	3	10.9	18.2	0.10	0.06	1.4	0.055	0.72	2.2
K280909		14.5	30.9	<0.002	0.21	2.01	6.7	7	0.7	21.9	0.14	0.10	2.4	0.072	0.72	1.2
K280910		7.3	1.8	0.002	0.20	15.95	9.2	24	0.6	28.3	0.21	0.07	3.8	0.130	0.06	3.6

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Finalized Date: 20- AUG- 2013
Account: RANSIL

Project: KEG - X

CERTIFICATE OF ANALYSIS WH13141819

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm
	LOR	1	0.1	0.1	2	0.5
M676611		132	0.6	3.6	9	47.2
M676612		245	0.7	6.5	13	56.8
M676613		67	0.4	4.9	15	30.1
M676614		110	1.2	6.6	381	28.4
M676615		76	1.7	5.3	236	29.0
M676616		65	1.0	3.9	15	24.7
M676617		107	1.3	2.1	36	19.1
M676618		30	0.4	3.9	40	18.5
M676619		55	0.3	1.3	2	12.3
K280907		253	0.4	3.3	110	17.1
K280908		93	0.5	3.5	25	19.6
K280909		89	0.6	3.3	35	23.1
K280910		165	0.7	12.4	385	40.0

***** See Appendix Page for comments regarding this certificate *****

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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 20-AUG-2013
Account: RANSIL

Project: KEG - X

CERTIFICATE OF ANALYSIS WH13141819

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

CRU-31	CRU-QC	LOG-22	PUL-31
PUL-QC	SPL-21	WEI-21	

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-AA24	ME-MS61

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 20-AUG-2013
Account: RANSIL

CERTIFICATE WH13142550

Project: KEG - XI

P.O. No.:

This report is for 15 Rock samples submitted to our lab in Whitehorse, YT, Canada on 6-AUG-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70%<2mm
CRU-QC	Crushing QC Test
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test
PUL-31	Pulverize split to 85%<75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	VARIABLE

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
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1016- 510 W HASTINGS ST
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Finalized Date: 20- AUG- 2013
Account: RANSIL

Project: KEG - XI

CERTIFICATE OF ANALYSIS WH13142550

Sample Description	Method	WEI-21	Au-AA24	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M676601		1.31	<0.005	11.10	4.85	7.0	90	0.46	0.06	1.29	>1000	106.0	20.0	26	0.50	123.0
M676602		1.50	<0.005	0.35	6.40	6.3	160	0.59	0.06	0.58	12.35	130.5	3.8	29	3.17	10.3
M676603		1.14	<0.005	0.27	6.73	4.6	870	1.52	0.41	0.30	3.89	67.4	1.0	7	2.34	19.1
M676604		1.43	<0.005	0.34	0.81	7.3	1410	0.50	0.03	0.03	2.28	26.0	1.3	28	0.44	27.9
M676605		1.06	0.040	0.98	0.49	37.6	470	0.22	0.09	0.02	2.78	17.20	0.8	33	0.32	89.4
M676606		1.20	<0.005	2.95	1.11	9.3	210	0.51	0.04	0.04	1.70	16.90	0.4	214	1.61	26.0
M676607		1.35	<0.005	0.95	2.69	17.9	390	0.83	0.08	0.11	2.91	36.3	1.1	85	2.74	20.0
M676608		1.46	0.006	2.05	2.47	52.6	470	0.80	0.06	0.11	3.33	45.9	0.3	93	7.00	55.5
M676609		1.22	<0.005	2.12	1.67	39.4	240	0.90	0.12	0.09	1.83	44.4	0.9	52	1.31	43.2
M676610		1.08	<0.005	1.37	3.07	36.9	230	2.27	0.09	0.23	31.4	30.9	12.0	46	4.03	315
L840374		1.44	<0.005	1.35	0.74	27.7	180	0.33	0.03	0.02	0.79	17.15	0.8	80	1.34	40.0
L840375		0.67	<0.005	0.09	5.98	2.0	120	0.51	0.06	3.54	4.08	120.5	8.9	28	1.07	6.5
L840376		1.27	<0.005	0.13	6.55	1.6	120	0.60	0.06	2.30	10.05	145.5	8.5	29	1.04	9.3
L840377		1.09	<0.005	0.09	6.48	1.1	130	0.57	0.06	2.38	9.68	141.0	5.3	30	1.83	6.4
L840378		0.91	<0.005	0.46	6.96	3.1	150	0.63	0.05	1.18	52.2	137.5	9.3	27	2.19	17.6

***** See Appendix Page for comments regarding this certificate *****

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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 20- AUG- 2013
Account: RANSIL

Project: KEG - XI

CERTIFICATE OF ANALYSIS WH13142550

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
M676601		3.84	60.1	0.44	0.7	6.72	0.09	53.2	47.8	2.04	572	1.57	0.07	14.3	33.5	450
M676602		4.94	17.45	0.17	0.9	0.030	0.17	63.3	76.7	0.31	100	1.74	0.17	18.0	23.5	620
M676603		1.00	18.90	0.10	2.9	0.062	0.97	31.5	45.9	0.23	73	1.33	0.29	13.0	8.4	630
M676604		1.70	2.15	0.08	0.6	0.009	0.16	13.7	15.1	0.36	58	0.92	0.01	1.4	27.6	790
M676605		4.24	2.83	0.13	0.6	0.015	0.06	9.4	19.1	0.02	45	5.89	0.01	1.5	10.1	370
M676606		0.78	3.40	0.13	0.9	0.032	0.41	16.2	10.3	0.11	57	8.78	0.01	11.5	24.6	850
M676607		1.56	6.74	0.14	1.0	0.057	1.17	21.3	22.8	0.15	54	32.1	0.02	9.0	21.6	510
M676608		2.61	10.05	0.18	1.1	0.105	1.34	42.1	9.3	0.20	44	67.9	0.02	8.5	8.3	2040
M676609		3.28	6.71	0.16	1.4	0.179	0.79	18.7	11.8	0.11	73	28.6	0.01	4.4	9.0	4190
M676610		4.13	5.25	0.16	0.9	0.042	0.74	14.9	13.6	0.39	149	4.28	0.01	3.5	255	2320
L840374		1.08	2.59	0.10	0.6	0.009	0.30	14.9	9.8	0.07	89	55.1	0.01	8.2	29.1	280
L840375		1.59	16.50	0.14	0.8	0.025	0.16	59.0	58.9	1.90	625	1.16	0.14	19.0	27.4	450
L840376		1.52	20.1	0.15	0.9	0.142	0.16	69.2	73.9	1.48	432	1.09	0.14	22.1	23.8	570
L840377		1.67	18.40	0.15	0.9	0.028	0.14	67.9	45.0	1.16	409	1.06	0.14	19.4	17.1	510
L840378		2.43	20.2	0.17	0.9	0.134	0.16	65.4	82.3	1.07	458	1.23	0.16	19.8	37.7	580

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VANCOUVER BC V6B 1L8

Finalized Date: 20- AUG- 2013
Account: RANSIL

Project: KEG - XI

CERTIFICATE OF ANALYSIS WH13142550

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
M676601		62.5	3.7	<0.002	0.11	12.30	54.5	7	5.2	48.6	0.82	<0.05	19.7	0.292	0.14	2.3
M676602		33.1	7.5	<0.002	0.03	1.94	22.7	1	0.8	95.6	1.08	<0.05	21.3	0.376	0.49	1.3
M676603		7.3	34.8	0.002	<0.01	0.97	5.7	1	5.3	192.0	1.18	<0.05	18.0	0.129	0.49	8.5
M676604		14.9	5.0	<0.002	0.04	2.47	2.4	2	0.3	46.1	0.09	<0.05	2.5	0.039	0.08	3.2
M676605		9.6	2.4	<0.002	0.04	12.05	1.8	10	0.8	9.6	0.09	0.05	2.5	0.043	0.14	2.6
M676606		25.3	18.5	0.127	0.09	8.11	1.7	16	0.3	24.3	0.56	0.15	2.9	0.071	0.84	12.0
M676607		29.9	51.3	0.098	0.16	7.60	4.2	15	0.8	25.0	0.50	0.08	4.3	0.115	0.90	6.8
M676608		165.0	66.1	0.066	0.61	22.6	4.1	25	1.8	162.5	0.48	0.20	4.7	0.143	6.16	15.2
M676609		37.5	22.7	0.037	0.69	14.60	11.9	5	2.6	59.4	0.30	0.12	5.3	0.119	0.60	7.4
M676610		22.8	29.6	0.004	0.21	7.50	7.3	7	0.5	68.3	0.22	0.07	3.8	0.089	0.42	8.4
L840374		90.5	13.3	0.085	0.12	20.2	1.4	12	0.4	12.5	0.39	0.13	2.0	0.061	1.59	9.4
L840375		3.3	3.2	<0.002	0.02	0.67	27.3	1	0.8	86.0	1.09	<0.05	25.5	0.379	0.15	1.1
L840376		3.1	3.6	<0.002	0.01	0.71	21.4	1	0.9	88.2	1.28	<0.05	29.8	0.429	0.15	1.0
L840377		3.3	4.4	<0.002	0.01	0.48	23.8	1	0.8	82.3	1.14	<0.05	28.1	0.398	0.22	1.2
L840378		7.6	6.9	<0.002	0.02	1.16	23.6	2	1.4	93.9	1.17	<0.05	29.9	0.403	0.27	1.7

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 20- AUG- 2013
Account: RANSIL

Project: KEG - XI

CERTIFICATE OF ANALYSIS WH13142550

Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Zn-OG62 Zn % 0.001
M676601		94	0.3	10.7	>10000	25.4	6.60
M676602		83	0.4	8.6	817	29.2	
M676603		34	2.0	23.0	223	95.0	
M676604		63	0.2	7.6	337	23.2	
M676605		98	0.4	4.7	236	24.3	
M676606		557	0.3	17.4	48	54.2	
M676607		716	0.5	21.3	415	48.3	
M676608		2570	0.8	14.7	68	50.7	
M676609		846	1.1	15.1	36	53.8	
M676610		408	0.5	41.5	2370	35.9	
L840374		738	0.5	8.6	18	40.9	
L840375		71	0.4	11.7	337	29.6	
L840376		67	0.5	11.7	477	32.6	
L840377		86	0.5	10.8	439	31.6	
L840378		70	0.8	15.6	2650	32.1	

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Project: KEG - XI

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 20-AUG-2013
Account: RANSIL

CERTIFICATE OF ANALYSIS WH13142550

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

CRU-31	CRU-QC	LOG-22	PUL-31
PUL-QC	SPL-21	WEI-21	

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-AA24	ME-MS61	ME-OG62	Zn-OG62

ALS Canada Ltd.

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North Vancouver BC V7H 0A7
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 21-AUG-2013
Account: RANSIL

CERTIFICATE WH13142551

Project: KEG - IX

P.O. No.:

This report is for 99 Soil samples submitted to our lab in Whitehorse, YT, Canada on 6-AUG-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS41	51 anal. aqua regia ICPMS	

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
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Finalized Date: 21-AUG-2013
Account: RANSIL

Project: KEG - IX

CERTIFICATE OF ANALYSIS WH13142551

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ84651		0.35	0.002	0.97	0.90	22.7	<0.2	<10	160	0.88	0.27	0.06	4.57	32.2	10.1	15
ZZ84652		0.42	0.002	0.86	0.90	23.2	<0.2	<10	140	0.89	0.24	0.11	5.74	33.7	7.6	15
ZZ84653		0.33	0.006	4.57	0.62	49.0	<0.2	<10	220	0.94	0.41	0.07	2.83	45.2	2.8	15
ZZ84654		0.31	0.004	4.07	0.83	45.4	<0.2	<10	210	1.60	0.36	0.09	7.59	35.4	4.6	14
ZZ84655		0.26	0.006	2.74	0.50	75.6	<0.2	<10	470	0.82	0.66	0.04	4.03	46.0	2.3	17
ZZ84656		0.29	<0.001	0.50	0.49	46.3	<0.2	<10	180	0.43	1.21	0.05	1.31	45.2	3.0	10
ZZ84657		0.17	0.001	0.58	0.84	7.4	<0.2	<10	190	0.35	0.22	0.08	1.38	39.2	2.5	11
ZZ84658		0.25	0.004	0.39	0.74	8.6	<0.2	<10	460	0.52	0.33	0.83	0.95	34.2	7.1	9
ZZ84659		0.23	0.002	0.32	0.40	3.7	<0.2	<10	200	0.21	0.18	0.22	0.40	18.10	2.9	5
ZZ84660		0.33	0.004	0.96	0.39	23.4	<0.2	<10	150	0.28	0.22	0.16	0.76	31.1	1.5	9
ZZ84661		0.20	0.007	2.42	0.46	25.1	<0.2	<10	160	0.62	0.24	0.15	4.72	27.2	1.1	9
ZZ84662		0.35	0.003	1.18	0.74	15.9	<0.2	<10	140	0.77	0.25	0.13	1.73	33.2	2.9	13
ZZ84663		0.40	0.002	0.64	0.65	8.0	<0.2	<10	190	0.41	0.25	0.36	2.38	31.1	2.3	12
ZZ84664		0.31	0.003	0.69	1.02	12.8	<0.2	<10	150	0.59	0.23	0.15	2.05	24.0	2.9	17
ZZ84665		0.43	0.002	0.70	0.83	8.3	<0.2	<10	120	0.43	0.18	0.15	0.74	22.4	1.9	12
ZZ84666		0.25	0.002	1.03	1.00	8.1	<0.2	<10	180	0.60	0.22	0.32	1.58	27.8	7.8	15
ZZ84667		0.23	0.001	0.51	1.42	7.8	<0.2	<10	180	0.83	0.17	0.27	1.00	18.30	7.6	23
ZZ84668		0.24	0.003	0.89	1.08	9.4	<0.2	<10	300	0.94	0.21	1.08	5.00	41.5	8.5	15
ZZ84669		0.31	0.003	1.25	0.36	9.0	<0.2	<10	180	0.26	0.15	0.14	1.67	23.9	1.3	7
ZZ84670		0.23	0.002	0.34	0.64	13.1	<0.2	<10	210	0.51	0.35	0.12	1.21	46.4	5.2	10
ZZ84671		0.26	0.004	0.44	0.57	10.2	<0.2	<10	220	0.47	0.27	0.15	2.57	42.9	3.0	8
ZZ84672		0.26	0.004	0.80	0.56	17.3	<0.2	<10	180	0.44	0.26	0.16	1.10	38.1	1.5	12
ZZ84673		0.54	0.002	1.10	0.65	20.5	<0.2	<10	190	0.43	0.29	0.12	0.98	46.9	3.5	13
ZZ84674		0.32	0.003	0.80	0.76	18.2	<0.2	<10	210	0.45	0.34	0.14	1.94	41.0	4.7	16
ZZ84675		0.32	0.002	0.39	1.06	10.6	<0.2	<10	200	0.51	0.24	0.14	0.88	38.0	11.7	17
ZZ84676		0.14	0.006	0.66	0.59	7.9	<0.2	<10	140	0.60	0.33	0.34	8.82	35.1	1.1	9
ZZ84677		0.15	0.003	0.61	0.58	24.2	<0.2	<10	170	0.79	0.55	0.13	5.94	37.0	4.4	9
ZZ84678		0.38	0.004	0.47	1.65	43.0	<0.2	<10	510	3.68	0.80	0.23	8.28	56.8	11.8	17
ZZ84679		0.17	0.005	0.52	0.73	18.6	<0.2	<10	150	0.72	0.53	0.17	1.22	25.6	3.4	12
ZZ84680		0.31	0.011	0.27	0.55	8.0	<0.2	<10	150	0.27	0.58	0.08	0.51	29.0	1.9	13
ZZ84681		0.36	0.004	0.20	0.67	12.7	<0.2	<10	150	0.31	0.51	0.19	0.40	33.3	5.0	17
ZZ84682		0.34	0.035	4.03	0.25	70.2	<0.2	<10	470	0.28	0.52	0.06	1.83	46.1	1.5	12
ZZ84683		0.28	0.012	5.42	0.29	129.0	<0.2	<10	360	0.33	0.41	0.06	3.40	44.9	1.2	24
ZZ84684		0.25	0.005	1.41	0.16	72.7	<0.2	<10	380	0.25	0.63	0.03	1.63	35.2	0.5	12
ZZ84685		0.33	0.014	8.80	0.25	218	<0.2	<10	120	0.31	0.52	0.02	2.94	82.5	0.7	42
ZZ84686		0.24	0.006	3.59	0.69	48.3	<0.2	<10	290	1.38	0.27	0.13	18.00	45.5	8.4	18
ZZ84687		0.29	0.002	0.66	2.02	55.6	<0.2	<10	220	3.28	0.35	0.79	94.7	53.5	40.0	21
ZZ84688		0.27	0.001	0.34	0.51	2.7	<0.2	<10	90	0.30	0.06	0.12	0.78	13.30	3.8	5
ZZ84689		0.36	0.002	0.28	0.82	7.5	<0.2	<10	260	0.48	0.18	0.38	0.79	38.3	9.0	13
ZZ84690		0.28	0.003	0.28	1.09	7.3	<0.2	<10	230	0.58	0.14	0.51	1.07	37.2	12.8	13

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 21-AUG-2013
Account: RANSIL

Project: KEG - IX

CERTIFICATE OF ANALYSIS WH13142551

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ84651		5.63	26.6	2.31	2.94	0.06	0.02	0.40	0.034	0.10	19.0	9.7	0.28	365	13.90	0.01
ZZ84652		5.49	20.7	2.51	2.49	0.06	0.02	0.33	0.032	0.12	20.2	12.8	0.43	184	14.00	0.01
ZZ84653		13.55	51.4	2.71	2.41	0.12	<0.02	1.60	0.062	0.15	28.7	3.3	0.08	107	44.5	0.01
ZZ84654		14.45	67.9	2.82	2.24	0.10	0.02	1.35	0.067	0.13	21.0	3.1	0.06	150	37.7	0.01
ZZ84655		9.25	59.1	3.32	2.80	0.14	<0.02	0.44	0.081	0.26	27.4	2.6	0.05	70	60.1	0.01
ZZ84656		7.81	17.4	2.79	2.87	0.06	0.02	0.09	0.116	0.14	20.1	1.8	0.05	212	10.75	0.01
ZZ84657		3.83	8.4	1.36	3.44	<0.05	<0.02	0.07	0.021	0.07	21.2	4.5	0.09	42	2.90	0.01
ZZ84658		2.22	15.4	1.56	2.30	<0.05	0.08	0.12	0.029	0.07	17.4	9.0	0.25	468	3.57	0.01
ZZ84659		2.24	6.7	0.93	1.92	<0.05	<0.02	0.06	0.011	0.04	9.2	3.1	0.08	82	2.04	0.03
ZZ84660		4.31	11.9	1.20	1.77	0.06	<0.02	0.78	0.023	0.09	19.3	4.0	0.14	26	15.90	0.01
ZZ84661		5.58	40.0	1.64	1.52	0.09	0.02	1.52	0.042	0.06	16.4	2.5	0.08	18	13.40	0.01
ZZ84662		5.87	22.3	1.92	2.27	0.05	0.02	0.90	0.035	0.10	19.9	7.9	0.26	69	11.90	0.01
ZZ84663		4.61	8.5	1.19	2.66	<0.05	<0.02	0.27	0.017	0.09	18.2	6.5	0.24	66	4.20	0.01
ZZ84664		4.17	14.2	2.15	3.03	<0.05	<0.02	0.17	0.026	0.09	14.0	10.3	0.44	53	5.60	0.01
ZZ84665		2.39	12.7	1.46	2.35	<0.05	<0.02	0.22	0.020	0.07	12.5	7.1	0.24	43	2.56	0.02
ZZ84666		3.52	14.6	1.75	2.76	0.05	0.02	0.34	0.030	0.10	15.9	11.6	0.39	131	3.73	0.02
ZZ84667		3.83	12.0	2.21	4.08	<0.05	<0.02	0.06	0.024	0.10	9.7	18.4	0.99	195	2.33	0.02
ZZ84668		3.18	32.4	1.90	2.46	0.07	0.07	0.38	0.036	0.09	25.7	10.8	0.35	208	3.09	0.01
ZZ84669		3.03	12.2	0.95	1.65	<0.05	<0.02	1.54	0.018	0.06	13.6	1.4	0.05	18	6.28	0.01
ZZ84670		4.06	15.3	1.57	2.33	0.06	0.02	0.10	0.028	0.09	24.5	5.5	0.14	227	8.03	0.01
ZZ84671		3.33	8.5	1.18	2.18	0.06	0.02	0.12	0.026	0.09	22.5	5.5	0.15	101	6.68	0.02
ZZ84672		3.53	13.9	1.35	2.23	0.05	<0.02	0.25	0.031	0.07	20.7	3.6	0.12	24	4.21	0.01
ZZ84673		4.40	12.0	1.57	2.47	0.06	<0.02	0.25	0.026	0.09	26.9	6.0	0.18	104	11.70	0.01
ZZ84674		4.00	12.0	1.84	3.13	0.05	<0.02	0.22	0.024	0.10	22.9	7.1	0.20	196	8.33	0.01
ZZ84675		2.97	11.7	1.87	3.05	<0.05	0.03	0.11	0.027	0.11	21.3	12.0	0.35	364	4.41	0.01
ZZ84676		4.22	47.1	0.68	1.95	0.09	0.02	0.20	0.039	0.07	17.6	2.6	0.09	17	2.74	0.01
ZZ84677		8.12	14.4	1.65	2.66	0.07	0.02	0.13	0.058	0.09	18.5	4.7	0.08	137	11.50	0.01
ZZ84678		10.90	62.9	2.60	3.16	0.13	0.06	0.08	0.149	0.09	25.6	8.6	0.13	356	14.35	0.01
ZZ84679		5.16	22.5	1.48	2.54	0.05	0.02	0.13	0.064	0.07	12.7	3.0	0.10	85	5.60	0.01
ZZ84680		3.63	9.9	1.34	2.62	0.05	<0.02	0.10	0.042	0.06	14.6	2.9	0.10	35	2.24	0.01
ZZ84681		2.47	13.0	2.17	3.00	0.05	0.02	0.05	0.035	0.08	17.3	5.6	0.24	91	4.33	0.01
ZZ84682		2.59	18.6	2.07	2.07	0.16	0.03	1.15	0.060	0.29	30.8	2.0	0.03	28	134.5	0.01
ZZ84683		3.99	51.8	2.33	3.14	0.28	<0.02	2.20	0.100	0.36	30.4	1.5	0.02	23	168.0	0.01
ZZ84684		3.38	26.1	1.82	2.16	0.18	<0.02	0.46	0.062	0.29	21.1	1.9	0.01	16	108.5	0.01
ZZ84685		9.09	29.0	4.04	4.91	0.99	0.04	2.03	0.153	0.60	67.6	3.0	0.02	11	189.0	0.01
ZZ84686		8.03	36.0	3.02	2.18	0.13	0.02	1.00	0.063	0.13	29.2	5.0	0.08	240	26.6	0.01
ZZ84687		6.13	42.7	7.86	2.28	0.12	0.19	0.15	0.073	0.16	32.2	12.1	0.72	413	6.68	0.01
ZZ84688		1.25	14.0	0.98	1.83	<0.05	0.02	0.06	0.010	0.05	6.9	3.1	0.09	99	1.17	0.03
ZZ84689		2.52	17.4	1.94	2.84	0.05	0.04	0.07	0.024	0.15	21.5	6.5	0.26	242	2.77	0.01
ZZ84690		2.87	33.1	2.67	3.59	0.06	0.02	0.08	0.032	0.15	20.1	11.0	0.32	170	3.35	0.02

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VANCOUVER BC V6B 1L8

Finalized Date: 21-AUG-2013
Account: RANSIL

Project: KEG - IX

CERTIFICATE OF ANALYSIS WH13142551

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ84651		0.59	36.8	690	23.5	14.4	0.005	0.05	9.95	1.5	6.5	0.4	29.2	<0.01	0.07	1.7
ZZ84652		0.54	58.2	760	25.1	13.8	0.006	0.06	16.00	1.7	8.9	0.3	31.2	<0.01	0.06	2.8
ZZ84653		0.50	36.7	1300	55.4	13.6	0.015	0.20	24.5	0.8	27.7	0.6	53.4	<0.01	0.18	0.9
ZZ84654		0.27	53.1	1780	44.6	12.4	0.011	0.20	27.8	1.1	28.5	0.5	48.9	<0.01	0.17	0.7
ZZ84655		0.40	38.0	1610	68.4	19.2	0.012	0.53	24.0	0.9	30.1	1.1	97.4	<0.01	0.17	1.0
ZZ84656		0.50	12.2	2580	20.8	10.6	0.001	0.28	5.19	0.6	2.9	1.3	34.2	0.01	0.03	0.9
ZZ84657		0.60	11.4	400	12.7	8.4	<0.001	0.04	1.27	1.2	0.7	0.5	13.4	<0.01	0.03	2.3
ZZ84658		0.43	12.4	1100	17.4	7.3	0.001	0.11	1.93	1.5	1.6	0.3	35.8	<0.01	0.02	2.6
ZZ84659		0.27	5.2	630	7.8	5.0	0.002	0.04	1.27	0.7	1.6	0.3	17.0	<0.01	<0.01	0.7
ZZ84660		0.32	14.9	570	21.5	9.6	0.009	0.05	8.44	0.7	8.7	0.3	29.2	<0.01	0.10	0.9
ZZ84661		0.42	15.5	930	20.9	7.4	0.025	0.10	8.79	1.0	17.9	0.3	30.1	<0.01	0.09	0.8
ZZ84662		0.54	23.5	630	20.2	11.6	0.007	0.04	9.35	1.3	7.1	0.3	24.3	<0.01	0.07	2.4
ZZ84663		0.44	17.9	510	17.1	12.4	0.005	0.04	2.64	1.0	3.8	0.5	33.0	<0.01	0.03	0.9
ZZ84664		0.72	22.4	880	17.1	15.0	0.004	0.06	4.20	1.3	4.8	0.4	20.3	<0.01	0.04	0.8
ZZ84665		0.55	14.0	730	13.4	10.8	0.001	0.04	1.88	1.0	2.7	0.3	19.4	<0.01	0.02	0.7
ZZ84666		0.60	32.3	710	18.9	13.1	0.003	0.04	2.76	1.5	3.6	0.3	26.9	<0.01	0.03	1.5
ZZ84667		1.17	45.0	630	14.4	12.0	0.001	0.05	2.03	1.6	1.8	0.3	24.8	<0.01	0.03	0.7
ZZ84668		0.48	35.6	990	17.9	13.2	0.002	0.09	5.05	2.5	4.4	0.3	59.5	<0.01	0.04	1.8
ZZ84669		0.29	6.8	890	10.7	7.4	0.014	0.08	3.27	0.5	6.9	0.3	14.7	<0.01	0.04	0.3
ZZ84670		0.29	16.7	800	24.5	9.7	0.002	0.06	3.96	1.2	2.7	0.5	25.0	<0.01	0.03	1.9
ZZ84671		0.30	9.6	780	17.5	9.4	0.002	0.06	2.44	1.2	2.9	0.4	20.1	<0.01	0.02	2.2
ZZ84672		0.38	9.0	890	19.2	9.2	0.003	0.07	2.45	1.1	3.3	0.4	21.4	<0.01	0.04	1.1
ZZ84673		0.36	13.6	680	37.5	11.9	0.002	0.05	4.23	1.2	3.6	0.9	29.6	<0.01	0.04	1.7
ZZ84674		0.50	16.0	750	27.6	12.8	0.002	0.04	3.30	1.3	2.7	0.6	26.9	<0.01	0.04	1.4
ZZ84675		0.69	29.0	590	18.5	13.5	0.002	0.02	2.21	1.9	1.3	0.5	20.8	<0.01	0.03	3.4
ZZ84676		0.30	21.0	960	19.1	8.5	0.002	0.12	2.59	1.8	6.7	0.5	30.0	<0.01	0.01	1.8
ZZ84677		0.30	20.5	1330	26.2	8.7	0.004	0.14	5.80	0.6	10.3	0.7	29.6	<0.01	0.04	0.7
ZZ84678		0.36	133.0	2270	34.4	8.0	0.002	0.11	6.38	3.3	8.1	0.9	73.5	0.01	0.03	4.0
ZZ84679		0.30	20.5	1620	26.0	7.4	0.001	0.13	2.52	0.4	3.7	0.7	29.6	<0.01	0.02	0.3
ZZ84680		0.40	7.8	1100	13.4	7.7	0.001	0.08	1.20	0.5	2.1	0.7	15.0	<0.01	0.01	0.3
ZZ84681		0.79	23.3	1200	17.3	7.2	<0.001	0.08	3.03	1.6	2.1	0.7	28.5	<0.01	0.02	2.5
ZZ84682		0.33	20.4	770	157.5	18.2	0.162	0.60	28.1	1.6	48.6	3.7	124.0	<0.01	0.36	6.3
ZZ84683		0.22	20.0	960	144.0	19.0	0.198	0.69	61.5	1.7	102.0	1.8	95.1	<0.01	0.45	2.3
ZZ84684		0.36	6.6	840	74.6	15.1	0.109	0.56	24.4	1.7	58.2	1.4	70.9	<0.01	0.25	3.4
ZZ84685		0.16	6.7	1220	236	46.1	0.157	1.38	76.7	3.4	410	3.3	106.5	<0.01	0.90	20.0
ZZ84686		0.16	89.3	1200	62.9	13.2	0.022	0.16	26.9	2.1	26.9	0.6	45.1	<0.01	0.16	1.9
ZZ84687		0.14	283	1480	63.3	14.0	0.006	0.34	19.10	5.1	8.2	0.4	92.5	<0.01	0.11	8.6
ZZ84688		0.25	12.5	550	5.2	5.1	0.001	0.02	0.86	1.2	0.9	<0.2	13.7	<0.01	0.01	0.6
ZZ84689		0.37	20.6	780	15.4	13.4	0.001	0.06	1.51	2.6	1.3	0.3	26.2	<0.01	0.03	2.5
ZZ84690		0.45	30.5	830	14.0	13.4	0.001	0.05	2.16	4.0	2.0	0.3	31.1	<0.01	0.02	1.8

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 21-AUG-2013
Account: RANSIL

Project: KEG - IX

CERTIFICATE OF ANALYSIS WH13142551

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ84651		0.016	1.07	3.30	86	0.18	8.64	278	<0.5
ZZ84652		0.014	1.01	2.94	83	0.09	7.83	419	1.0
ZZ84653		0.006	1.70	7.89	226	0.17	8.76	280	<0.5
ZZ84654		0.006	1.50	9.39	152	0.14	15.75	369	0.7
ZZ84655		0.005	2.15	14.05	203	0.44	11.30	212	<0.5
ZZ84656		0.007	0.88	7.41	93	0.32	10.85	138	0.5
ZZ84657		0.013	0.28	1.34	46	0.49	4.00	77	<0.5
ZZ84658		0.009	0.16	3.35	36	0.09	8.81	79	2.1
ZZ84659		0.025	0.23	1.46	39	0.06	4.57	33	<0.5
ZZ84660		0.009	0.70	2.56	93	0.14	3.84	108	<0.5
ZZ84661		0.008	0.84	7.65	72	0.07	6.72	81	0.8
ZZ84662		0.013	0.86	3.33	80	0.10	5.59	175	0.8
ZZ84663		0.014	0.64	1.13	46	0.10	4.48	136	<0.5
ZZ84664		0.021	0.70	2.13	69	0.11	5.67	169	<0.5
ZZ84665		0.018	0.46	1.75	46	0.08	4.30	96	<0.5
ZZ84666		0.020	0.45	2.08	69	0.08	7.98	233	0.6
ZZ84667		0.045	0.51	1.56	110	0.08	6.65	251	0.5
ZZ84668		0.015	0.44	7.64	56	0.09	27.2	272	2.3
ZZ84669		0.008	0.53	3.18	46	0.18	4.52	39	<0.5
ZZ84670		0.006	0.48	3.26	72	0.13	6.68	131	<0.5
ZZ84671		0.008	0.33	2.80	53	0.11	6.46	80	0.5
ZZ84672		0.009	0.52	4.34	58	0.10	6.02	54	<0.5
ZZ84673		0.008	1.00	3.46	107	0.11	5.63	107	<0.5
ZZ84674		0.014	0.63	3.29	96	0.15	5.67	124	<0.5
ZZ84675		0.017	0.36	1.82	69	0.13	5.76	263	0.9
ZZ84676		0.008	0.48	12.30	20	0.26	31.2	92	0.5
ZZ84677		0.009	0.49	5.95	72	0.24	13.30	186	<0.5
ZZ84678		0.010	0.45	29.2	166	0.23	54.8	612	1.4
ZZ84679		0.008	0.46	6.25	45	0.28	10.85	94	<0.5
ZZ84680		0.010	0.30	3.38	24	0.22	7.04	34	<0.5
ZZ84681		0.029	0.25	1.76	43	0.27	7.10	109	0.6
ZZ84682		0.007	2.75	9.99	219	0.92	6.54	66	2.2
ZZ84683		0.007	2.81	16.95	420	1.22	7.13	47	0.7
ZZ84684		<0.005	2.61	14.25	191	0.55	7.22	28	0.7
ZZ84685		0.006	5.59	14.95	699	1.81	5.93	50	2.2
ZZ84686		0.006	0.98	9.94	304	0.36	13.25	551	0.5
ZZ84687		0.005	0.63	15.60	240	0.06	66.5	3800	12.8
ZZ84688		0.019	0.12	1.03	26	<0.05	3.80	101	0.5
ZZ84689		0.011	0.24	1.03	49	0.05	5.14	153	1.6
ZZ84690		0.016	0.31	1.58	55	0.05	7.64	248	0.7

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Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ84691		0.29	0.005	0.50	1.02	8.2	<0.2	<10	270	0.76	0.16	0.99	3.44	39.7	15.8	13
ZZ84692		0.31	0.004	0.83	1.05	12.5	<0.2	<10	240	0.81	0.24	0.12	1.73	46.2	16.9	15
ZZ84693		0.36	0.009	8.42	0.88	168.0	<0.2	<10	210	0.98	0.36	0.10	6.24	60.5	5.4	65
ZZ84694		0.41	0.008	2.62	0.53	33.4	<0.2	<10	280	0.76	0.25	0.18	13.35	38.0	8.4	14
ZZ84695		0.49	0.006	1.40	0.73	19.5	<0.2	<10	240	1.43	0.28	0.37	28.2	57.8	21.7	10
ZZ84696		0.37	0.005	0.86	0.88	11.0	<0.2	<10	120	0.72	0.22	0.06	0.75	42.7	3.8	14
ZZ84697		0.39	0.018	1.16	0.69	13.6	<0.2	<10	180	0.63	0.21	0.06	0.61	44.7	5.7	15
ZZ84698		0.23	0.003	0.35	1.03	5.9	<0.2	<10	340	0.88	0.06	1.37	2.74	37.0	30.1	13
ZZ84699		0.23	0.015	0.86	0.60	6.3	<0.2	<10	930	0.48	0.18	0.13	2.03	32.2	3.8	12
ZZ84700		0.29	0.006	0.54	1.54	7.3	<0.2	<10	520	1.08	0.07	0.70	2.95	48.3	49.5	15
ZZ84701		0.40	0.003	0.52	0.95	9.3	<0.2	<10	220	0.66	0.21	0.07	1.20	44.7	13.6	14
ZZ84702		0.24	0.003	0.35	0.70	11.1	<0.2	<10	130	0.71	0.25	0.05	1.21	38.7	6.3	13
ZZ84703		0.27	0.012	0.50	0.86	14.7	<0.2	<10	210	1.18	0.29	0.11	2.05	44.0	26.8	14
ZZ84704		0.27	0.002	0.74	0.50	4.5	<0.2	<10	310	0.40	0.19	0.33	0.75	37.7	2.7	9
ZZ84705		0.21	0.004	0.65	0.73	5.6	<0.2	<10	260	0.54	0.22	0.18	0.97	43.7	5.0	12
ZZ84706		0.26	0.005	1.04	0.85	15.0	<0.2	<10	140	0.81	0.29	0.06	0.60	47.5	15.8	13
ZZ84707		0.34	0.016	0.37	0.81	13.5	<0.2	<10	190	1.13	0.27	0.07	0.67	58.9	17.2	14
ZZ84708		0.33	0.002	0.28	0.38	3.2	<0.2	<10	80	0.27	0.08	0.05	0.51	14.60	4.9	7
ZZ84709		0.43	0.005	0.38	0.89	15.0	<0.2	<10	1290	0.69	0.31	0.09	0.67	61.7	13.1	14
ZZ84710		0.37	0.002	0.50	0.72	8.6	<0.2	<10	300	0.72	0.19	0.06	0.77	39.0	11.2	11
ZZ84711		0.25	0.001	0.13	0.24	1.8	<0.2	<10	30	0.10	0.05	0.10	0.30	8.83	3.8	5
ZZ84712		0.35	0.003	0.26	0.69	12.4	<0.2	<10	140	0.48	0.28	0.06	0.94	37.9	5.1	14
ZZ84713		0.28	0.004	0.25	1.02	13.2	<0.2	<10	170	1.04	0.28	0.07	1.49	48.2	19.5	15
ZZ84714		0.36	0.004	0.61	0.60	11.7	<0.2	<10	180	0.64	0.24	0.05	2.83	38.7	7.6	8
ZZ84715		0.34	0.002	0.36	0.62	12.7	<0.2	<10	100	0.38	0.34	0.05	0.71	34.9	6.8	14
ZZ84716		0.35	0.005	0.65	0.57	16.1	<0.2	<10	160	0.79	0.30	0.02	0.79	49.2	11.4	9
ZZ84717		0.39	0.008	1.02	0.63	23.8	<0.2	<10	260	1.35	0.37	0.21	17.10	69.0	17.9	9
ZZ84718		0.45	0.007	0.92	0.85	16.9	<0.2	<10	320	1.21	0.33	0.16	4.35	58.2	27.2	11
ZZ84719		0.41	0.002	0.59	0.60	6.8	<0.2	<10	130	0.49	0.17	0.07	0.81	20.3	5.1	8
ZZ84720		0.32	0.005	0.78	0.74	9.4	<0.2	<10	170	0.77	0.27	0.04	0.70	47.4	7.3	14
ZZ84721		0.30	0.011	1.39	0.93	13.2	<0.2	<10	890	0.87	0.29	0.04	0.82	34.4	5.7	17
ZZ84722		0.37	0.006	1.09	0.90	10.7	<0.2	<10	2260	0.83	0.31	0.04	0.75	43.1	6.3	14
ZZ84723		0.34	0.003	0.56	0.67	10.4	<0.2	<10	730	0.75	0.25	0.11	1.81	43.7	9.8	11
ZZ84724		0.35	0.003	0.96	0.13	7.0	<0.2	<10	200	0.18	0.19	0.05	1.36	33.9	1.3	3
ZZ84725		0.44	0.007	1.16	0.51	14.7	<0.2	<10	240	0.75	0.31	0.15	4.61	54.0	12.0	8
ZZ84726		0.44	0.004	0.53	0.38	10.5	<0.2	<10	140	0.39	0.24	0.05	0.82	41.6	4.7	7
ZZ84727		0.36	0.006	1.55	0.79	12.2	<0.2	<10	270	0.58	0.36	0.12	1.08	38.0	13.2	13
ZZ84728		0.27	0.006	0.92	0.73	10.6	<0.2	<10	280	0.67	0.22	0.25	1.06	41.7	5.1	14
ZZ84729		0.26	0.003	0.84	0.57	15.2	<0.2	<10	190	0.70	0.21	0.09	1.98	37.6	11.5	10
ZZ84730		0.34	0.006	0.48	0.90	12.5	<0.2	<10	270	0.93	0.26	0.16	1.55	51.3	16.9	15

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	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ84691		2.86	60.5	3.33	2.98	0.06	0.06	0.11	0.037	0.15	21.2	11.0	0.34	501	4.06	0.01
ZZ84692		4.15	40.0	3.21	3.46	0.07	0.03	0.21	0.043	0.15	25.2	8.7	0.24	461	6.46	0.01
ZZ84693		5.94	90.3	4.80	4.68	0.65	0.02	1.38	0.144	0.52	46.1	5.1	0.09	151	88.2	0.01
ZZ84694		2.98	52.3	2.19	1.97	0.15	<0.02	0.86	0.041	0.16	23.6	5.7	0.13	162	32.5	0.01
ZZ84695		5.68	68.2	4.61	2.32	0.11	0.03	0.21	0.052	0.13	32.6	6.2	0.20	564	7.81	0.01
ZZ84696		4.41	77.7	2.34	2.45	0.07	0.06	0.10	0.047	0.10	22.9	4.7	0.11	42	4.40	0.01
ZZ84697		4.21	48.6	2.88	2.64	0.07	0.03	0.15	0.033	0.12	24.4	4.1	0.11	61	7.61	0.01
ZZ84698		2.38	131.5	4.75	2.84	0.08	0.05	0.08	0.058	0.19	18.9	11.5	0.37	692	1.58	0.01
ZZ84699		2.73	24.3	1.83	2.37	0.05	0.02	0.14	0.026	0.09	17.6	3.0	0.13	54	3.08	0.01
ZZ84700		4.99	206	7.35	4.02	0.11	0.06	0.11	0.080	0.34	27.1	12.8	0.53	1020	3.08	0.01
ZZ84701		4.01	35.0	2.49	3.30	0.06	0.03	0.10	0.034	0.12	24.5	8.0	0.23	382	4.50	0.01
ZZ84702		4.16	33.1	2.86	4.07	0.05	<0.02	0.05	0.034	0.07	21.0	1.9	0.05	103	4.89	0.01
ZZ84703		5.52	49.0	4.93	3.15	0.07	0.03	0.13	0.057	0.15	24.2	5.4	0.20	627	6.32	0.01
ZZ84704		3.46	20.2	1.44	2.05	0.05	<0.02	0.12	0.023	0.09	20.8	3.5	0.17	37	2.61	0.01
ZZ84705		3.60	25.2	1.92	2.75	0.06	<0.02	0.08	0.033	0.11	23.9	5.7	0.17	64	2.65	0.01
ZZ84706		5.15	54.0	3.51	2.98	0.08	0.02	0.07	0.037	0.13	25.8	5.4	0.19	129	6.55	0.01
ZZ84707		4.48	48.9	3.66	3.01	0.09	0.02	0.05	0.038	0.17	31.4	5.9	0.18	362	4.39	0.01
ZZ84708		1.42	18.0	1.75	2.11	<0.05	<0.02	0.05	0.013	0.05	7.7	1.2	0.05	69	1.49	0.02
ZZ84709		3.89	49.5	4.44	3.23	0.09	0.03	0.05	0.057	0.18	33.2	4.9	0.15	317	4.62	0.02
ZZ84710		3.74	31.4	2.93	2.92	0.06	<0.02	0.05	0.030	0.15	21.1	4.2	0.15	202	3.40	0.01
ZZ84711		0.93	10.3	1.59	2.09	<0.05	<0.02	0.02	0.007	0.03	4.6	0.5	0.04	65	1.06	0.02
ZZ84712		3.02	31.4	2.19	3.75	0.10	<0.02	0.07	0.034	0.09	21.5	3.8	0.11	93	6.77	<0.01
ZZ84713		7.65	41.6	3.95	2.85	0.12	0.03	0.06	0.047	0.11	26.1	12.5	0.27	644	4.89	<0.01
ZZ84714		5.69	51.6	2.51	2.44	0.06	<0.02	0.13	0.032	0.07	21.4	1.8	0.03	77	5.18	0.01
ZZ84715		2.60	25.9	2.67	4.18	<0.05	<0.02	0.07	0.023	0.07	19.2	2.6	0.10	112	4.91	0.01
ZZ84716		2.62	47.2	3.56	2.20	0.07	0.04	0.13	0.041	0.10	27.2	2.9	0.07	113	7.10	0.01
ZZ84717		3.95	81.5	3.83	1.98	0.10	0.06	0.07	0.055	0.19	37.7	5.5	0.15	183	9.17	0.01
ZZ84718		4.10	80.1	4.94	2.49	0.09	0.02	0.08	0.045	0.15	31.4	8.6	0.29	363	5.86	0.01
ZZ84719		2.43	25.0	2.11	2.06	<0.05	<0.02	0.05	0.024	0.07	11.1	2.7	0.09	87	2.56	0.02
ZZ84720		3.65	37.0	2.65	2.60	0.07	0.03	0.11	0.032	0.11	25.5	5.0	0.13	97	3.39	0.01
ZZ84721		4.25	55.8	3.05	2.70	0.06	0.03	0.21	0.042	0.10	18.9	3.9	0.10	66	5.83	0.01
ZZ84722		4.06	39.7	2.88	2.91	0.07	0.04	0.12	0.042	0.10	23.0	5.6	0.14	87	4.27	<0.01
ZZ84723		3.36	35.6	2.98	2.03	0.07	0.02	0.08	0.034	0.11	23.9	6.8	0.20	177	3.78	0.01
ZZ84724		1.50	19.4	0.60	0.72	0.05	<0.02	1.70	0.019	0.07	22.1	0.8	0.01	11	10.75	0.01
ZZ84725		5.40	51.5	3.07	1.57	0.07	0.03	0.15	0.036	0.11	29.8	3.7	0.10	269	5.96	0.01
ZZ84726		3.43	21.0	1.79	1.76	0.06	<0.02	0.10	0.022	0.08	23.2	2.5	0.08	62	6.06	0.01
ZZ84727		5.77	22.6	2.09	3.03	0.06	<0.02	0.40	0.030	0.08	21.8	4.9	0.12	475	7.52	0.01
ZZ84728		2.75	28.2	1.75	2.33	0.06	0.03	0.10	0.033	0.12	24.0	7.6	0.26	184	4.65	0.01
ZZ84729		3.61	26.5	2.46	1.66	0.06	0.03	0.12	0.037	0.09	20.4	6.7	0.15	300	6.16	0.01
ZZ84730		4.17	29.5	2.60	2.57	0.07	0.02	0.09	0.038	0.11	27.7	10.6	0.32	428	5.21	0.01

***** See Appendix Page for comments regarding this certificate *****

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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
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VANCOUVER BC V6B 1L8

Finalized Date: 21-AUG-2013
Account: RANSIL

Project: KEG - IX

CERTIFICATE OF ANALYSIS WH13142551

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ84691		0.32	48.2	900	15.4	11.5	0.002	0.10	2.42	4.7	2.6	0.3	41.9	<0.01	0.04	1.9
ZZ84692		0.35	34.5	1180	28.0	14.1	0.003	0.07	3.37	3.0	4.5	0.4	40.4	<0.01	0.04	2.2
ZZ84693		0.14	27.5	2490	90.7	28.8	0.079	1.10	43.7	3.3	250	1.5	160.5	<0.01	0.48	2.5
ZZ84694		0.11	41.8	940	61.0	10.5	0.049	0.20	19.10	1.7	36.2	0.6	93.9	<0.01	0.18	1.6
ZZ84695		0.09	95.5	1600	47.2	10.8	0.003	0.10	11.20	3.1	6.1	0.3	91.7	<0.01	0.06	3.3
ZZ84696		0.14	23.3	1670	18.4	10.5	0.002	0.13	4.04	1.4	4.3	0.3	47.3	<0.01	0.04	1.1
ZZ84697		0.16	31.3	1740	24.4	11.3	0.003	0.15	4.72	1.2	4.6	0.3	56.9	<0.01	0.06	1.2
ZZ84698		0.20	57.4	1010	13.0	10.5	0.001	0.12	1.31	13.4	1.7	0.3	45.7	<0.01	0.01	1.3
ZZ84699		0.33	16.6	1320	13.9	10.1	0.001	0.12	2.23	1.0	3.3	0.3	30.5	<0.01	0.02	0.6
ZZ84700		0.48	104.0	1240	16.9	18.4	0.001	0.12	1.82	16.4	2.7	0.3	34.2	<0.01	0.01	2.3
ZZ84701		0.30	27.1	980	19.8	14.7	0.001	0.05	2.42	2.3	2.2	0.4	24.0	<0.01	0.05	1.4
ZZ84702		0.45	34.0	700	20.9	10.4	<0.001	0.05	3.57	1.0	1.7	0.6	16.3	<0.01	0.05	0.4
ZZ84703		0.15	69.6	1680	34.4	13.7	0.001	0.10	6.15	1.5	3.4	0.3	33.8	<0.01	0.06	0.9
ZZ84704		0.20	17.3	880	14.3	10.7	0.001	0.09	1.98	1.1	2.3	0.3	49.4	<0.01	0.03	0.8
ZZ84705		0.30	25.5	970	17.2	13.1	0.001	0.09	2.68	1.6	2.5	0.3	40.3	<0.01	0.03	1.4
ZZ84706		0.22	72.6	1230	27.8	12.8	0.001	0.12	6.73	1.9	5.4	0.3	51.9	<0.01	0.05	1.9
ZZ84707		0.10	62.2	1170	30.9	14.6	0.002	0.12	5.16	2.5	3.4	0.4	67.6	<0.01	0.05	2.4
ZZ84708		<0.05	13.5	650	6.3	4.8	0.001	0.08	1.28	0.1	1.0	0.2	17.6	<0.01	0.01	<0.2
ZZ84709		0.15	54.1	1050	35.4	14.3	0.002	0.14	6.08	2.5	3.1	0.4	66.6	<0.01	0.05	3.5
ZZ84710		0.14	35.5	920	18.9	13.0	0.001	0.11	3.22	1.2	1.6	0.3	30.0	<0.01	0.03	0.6
ZZ84711		0.05	7.5	510	4.7	2.6	<0.001	0.03	0.84	0.3	0.4	<0.2	13.4	<0.01	0.01	<0.2
ZZ84712		0.27	25.8	810	27.0	9.7	0.002	0.06	2.78	0.6	2.5	0.5	31.3	<0.01	0.08	0.2
ZZ84713		0.34	63.8	890	36.6	11.7	0.001	0.05	4.83	2.5	2.9	0.3	27.9	<0.01	0.06	2.9
ZZ84714		0.23	47.1	1070	21.1	8.7	0.001	0.06	5.47	1.3	2.7	0.3	33.4	<0.01	0.06	0.7
ZZ84715		0.44	35.1	640	22.8	11.6	<0.001	0.04	3.32	0.9	1.8	0.6	20.1	<0.01	0.05	0.2
ZZ84716		0.09	63.8	950	32.6	9.4	0.001	0.07	6.66	1.3	2.8	0.3	48.9	<0.01	0.06	1.0
ZZ84717		0.14	90.2	1190	36.3	14.5	0.004	0.13	7.64	4.1	4.5	0.2	201	<0.01	0.07	6.1
ZZ84718		0.08	106.5	1040	40.6	10.9	0.002	0.10	8.99	3.5	9.4	0.3	80.7	<0.01	0.05	4.0
ZZ84719		0.14	23.4	1160	12.7	7.1	0.001	0.10	2.93	0.6	2.4	0.2	35.8	<0.01	0.04	0.2
ZZ84720		0.18	35.1	1240	21.2	11.2	0.001	0.11	3.88	1.9	3.3	0.3	54.8	<0.01	0.05	1.2
ZZ84721		0.27	30.9	2100	26.4	10.5	0.001	0.20	4.59	1.2	6.3	0.4	71.9	<0.01	0.07	0.7
ZZ84722		0.26	34.1	1310	25.9	11.0	0.001	0.13	4.39	1.9	4.8	0.4	68.1	<0.01	0.06	1.7
ZZ84723		0.18	47.2	970	20.6	8.9	0.001	0.06	4.22	2.0	2.6	0.2	47.3	<0.01	0.05	2.1
ZZ84724		0.10	9.0	330	44.0	3.6	0.015	0.09	3.35	0.6	2.3	<0.2	98.8	<0.01	0.12	1.0
ZZ84725		0.09	55.4	940	34.6	9.2	0.003	0.07	7.04	2.6	4.4	0.2	84.6	<0.01	0.08	2.9
ZZ84726		0.19	25.8	600	27.9	7.9	0.002	0.05	4.35	1.1	3.8	0.3	38.8	<0.01	0.08	1.4
ZZ84727		0.30	20.1	1040	50.5	11.5	0.001	0.05	3.85	1.0	4.1	0.5	58.1	<0.01	0.10	0.6
ZZ84728		0.18	30.9	1270	31.0	9.5	0.001	0.06	3.11	1.6	2.6	0.6	65.4	<0.01	0.08	1.2
ZZ84729		0.21	43.1	1210	29.8	7.7	0.001	0.06	4.40	1.4	2.3	0.4	52.2	<0.01	0.05	0.9
ZZ84730		0.41	47.0	870	27.4	11.4	0.001	0.04	3.93	2.7	2.2	0.5	51.7	<0.01	0.05	4.1

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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 21- AUG- 2013
Account: RANSIL

Project: KEG - IX

CERTIFICATE OF ANALYSIS WH13142551

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ84691		0.009	0.28	2.48	50	<0.05	13.70	339	1.7
ZZ84692		0.010	0.42	2.23	65	0.11	8.78	255	0.8
ZZ84693		0.008	2.81	26.7	1440	1.14	13.65	192	0.6
ZZ84694		0.005	0.75	4.11	188	0.39	10.70	334	<0.5
ZZ84695		<0.005	0.56	3.34	74	0.05	21.6	805	0.7
ZZ84696		0.005	0.22	2.73	44	<0.05	12.80	106	1.0
ZZ84697		<0.005	0.34	2.94	63	0.05	8.33	175	0.9
ZZ84698		0.007	0.19	0.93	48	<0.05	17.20	310	1.3
ZZ84699		0.007	0.23	1.57	35	0.05	4.85	101	0.5
ZZ84700		0.024	0.25	1.46	71	<0.05	32.1	586	1.7
ZZ84701		0.008	0.40	1.63	51	0.08	6.80	169	0.7
ZZ84702		0.020	0.24	1.50	54	0.18	5.87	231	<0.5
ZZ84703		0.008	0.33	1.82	51	0.08	9.67	486	1.1
ZZ84704		0.008	0.24	1.14	28	<0.05	3.60	104	0.5
ZZ84705		0.008	0.26	1.38	34	0.05	5.80	154	0.6
ZZ84706		0.006	0.27	1.95	48	0.05	11.55	349	0.7
ZZ84707		0.005	0.29	1.96	52	<0.05	10.10	367	0.6
ZZ84708		0.017	0.09	0.85	49	<0.05	3.52	76	<0.5
ZZ84709		0.005	0.36	1.48	44	<0.05	8.95	369	1.0
ZZ84710		0.018	0.28	1.15	50	<0.05	6.81	201	0.5
ZZ84711		0.046	0.07	0.33	52	<0.05	1.30	53	<0.5
ZZ84712		0.012	0.27	2.01	47	0.13	4.85	158	<0.5
ZZ84713		0.012	0.33	1.33	51	0.08	8.60	484	1.0
ZZ84714		0.008	0.24	1.13	38	0.09	5.85	394	<0.5
ZZ84715		0.026	0.24	1.08	52	0.21	3.96	205	<0.5
ZZ84716		0.005	0.31	1.74	39	0.05	6.81	418	1.1
ZZ84717		0.005	0.57	2.96	46	<0.05	16.85	855	3.2
ZZ84718		<0.005	0.30	1.62	39	<0.05	14.85	637	0.9
ZZ84719		0.011	0.17	1.25	36	<0.05	6.58	153	<0.5
ZZ84720		0.006	0.24	1.86	40	<0.05	8.35	204	0.6
ZZ84721		0.006	0.32	2.93	49	0.08	10.50	174	1.0
ZZ84722		0.008	0.34	1.76	45	0.07	7.44	195	1.1
ZZ84723		0.007	0.24	1.38	35	0.22	9.07	308	0.7
ZZ84724		<0.005	0.93	2.31	15	0.18	2.68	68	<0.5
ZZ84725		<0.005	0.35	1.60	30	<0.05	12.90	518	0.9
ZZ84726		0.007	0.55	1.27	33	0.07	4.74	197	<0.5
ZZ84727		0.008	0.60	1.58	65	0.17	8.25	142	<0.5
ZZ84728		0.007	0.35	1.96	57	0.11	13.85	197	0.9
ZZ84729		0.007	0.26	1.51	38	0.06	10.05	302	0.7
ZZ84730		0.014	0.32	1.65	48	0.09	11.05	314	1.0

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CERTIFICATE OF ANALYSIS WH13142551

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ84751		0.45	0.002	0.37	0.59	11.2	<0.2	<10	220	0.76	0.20	0.15	1.07	51.4	8.6	10
ZZ84752		0.46	0.003	0.71	0.75	9.9	<0.2	<10	830	0.58	0.26	0.05	0.65	46.1	5.8	13
ZZ84753		0.38	0.003	0.60	0.76	10.7	<0.2	<10	1810	0.65	0.27	0.05	0.57	46.4	5.4	13
ZZ84754		0.37	0.004	0.72	0.78	13.3	<0.2	<10	490	0.84	0.31	0.05	0.96	51.9	13.5	13
ZZ84755		0.43	0.003	0.35	0.56	10.5	<0.2	<10	340	0.71	0.14	0.05	1.05	45.2	19.8	7
ZZ84756		0.34	0.006	0.84	0.74	11.5	<0.2	<10	650	0.70	0.25	0.04	1.64	39.0	5.8	11
ZZ84757		0.45	0.001	0.52	0.72	8.9	<0.2	<10	1610	0.55	0.25	0.07	0.88	44.1	6.3	12
ZZ84758		0.41	0.003	0.54	0.97	11.2	<0.2	<10	250	0.87	0.28	0.07	1.24	45.3	21.0	15
ZZ84759		0.37	0.005	0.61	0.57	14.8	<0.2	<10	420	1.40	0.27	0.05	3.92	61.3	15.3	9
ZZ84760		0.43	0.007	1.81	0.79	30.2	<0.2	<10	560	0.54	0.45	0.20	1.73	53.9	4.6	15
ZZ84761		0.32	0.007	1.19	0.91	13.0	<0.2	<10	250	0.94	0.25	0.43	3.32	53.1	8.3	15
ZZ84762		0.40	0.002	0.51	0.57	7.2	<0.2	<10	180	0.60	0.15	0.33	0.90	27.3	4.9	8
ZZ84763		0.40	0.003	0.48	0.82	10.9	<0.2	<10	290	0.79	0.26	0.08	1.58	54.1	13.6	13
ZZ84764		0.39	0.003	0.75	0.71	11.4	<0.2	<10	190	0.73	0.25	0.04	1.11	50.3	7.6	12
ZZ84765		0.30	0.003	0.90	0.75	17.7	<0.2	<10	270	0.84	0.27	0.20	1.26	45.2	22.4	12
ZZ84766		0.43	0.004	0.82	0.71	6.8	<0.2	<10	650	0.41	0.24	0.19	2.93	34.1	4.7	12
ZZ84767		0.35	0.005	0.88	0.88	11.2	<0.2	<10	660	0.59	0.22	0.11	3.80	31.5	8.2	10
ZZ84768		0.38	0.002	0.39	0.70	11.0	<0.2	<10	170	0.38	0.19	0.08	0.59	31.5	5.5	11
ZZ84769		0.18	0.002	0.45	0.61	0.5	<0.2	<10	40	0.58	0.03	0.12	0.42	17.60	0.9	5

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 21- AUG- 2013
Account: RANSIL

Project: KEG - IX

CERTIFICATE OF ANALYSIS WH13142551

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ84751		2.48	26.2	2.32	1.88	0.07	0.02	0.05	0.028	0.10	28.4	6.8	0.21	157	4.09	0.01
ZZ84752		3.37	22.4	2.44	2.56	0.06	0.02	0.06	0.030	0.11	25.6	5.7	0.18	125	3.17	0.01
ZZ84753		3.21	24.4	2.52	2.92	0.07	0.02	0.10	0.031	0.11	24.8	6.1	0.16	103	3.48	<0.01
ZZ84754		4.02	41.4	3.84	2.81	0.08	0.02	0.10	0.039	0.13	27.9	5.9	0.17	212	4.51	0.01
ZZ84755		2.70	67.7	3.57	2.21	0.06	<0.02	0.08	0.035	0.16	24.4	4.5	0.12	326	3.91	0.01
ZZ84756		2.95	34.7	2.04	2.07	0.06	0.03	0.21	0.031	0.12	22.9	5.0	0.09	147	7.38	0.01
ZZ84757		3.44	24.7	2.04	2.77	0.06	<0.02	0.09	0.025	0.10	24.0	4.8	0.13	128	3.94	<0.01
ZZ84758		5.87	26.8	2.89	3.08	0.06	0.02	0.10	0.035	0.11	24.9	9.0	0.21	702	3.79	0.01
ZZ84759		8.22	46.4	3.81	1.93	0.07	0.02	0.06	0.045	0.11	34.4	2.8	0.06	310	5.62	0.01
ZZ84760		3.07	32.2	2.24	3.03	0.06	0.05	0.37	0.053	0.08	31.8	7.6	0.19	121	6.05	0.01
ZZ84761		4.55	31.5	2.36	2.47	0.07	0.06	0.15	0.039	0.12	30.9	10.2	0.29	252	4.39	0.01
ZZ84762		2.28	27.6	1.36	2.04	<0.05	0.03	0.10	0.022	0.06	15.9	6.6	0.17	143	2.46	0.02
ZZ84763		3.89	24.1	2.13	2.63	0.06	0.02	0.09	0.036	0.11	30.5	8.2	0.18	315	3.83	0.01
ZZ84764		4.65	21.6	2.09	2.50	0.05	0.02	0.11	0.028	0.11	28.5	5.6	0.16	250	3.55	0.01
ZZ84765		4.23	41.2	3.26	2.61	0.06	0.02	0.07	0.036	0.10	25.9	4.1	0.10	819	5.96	0.01
ZZ84766		4.80	17.2	1.74	2.49	0.06	<0.02	0.15	0.021	0.09	18.7	5.1	0.17	94	3.09	0.01
ZZ84767		3.43	37.0	2.79	2.73	0.05	0.02	0.19	0.033	0.09	17.1	3.6	0.08	219	6.84	0.01
ZZ84768		2.88	32.3	2.17	2.84	0.06	<0.02	0.05	0.028	0.07	17.0	4.9	0.13	99	6.77	0.01
ZZ84769		0.60	14.3	0.34	1.60	<0.05	0.02	0.07	0.015	0.02	8.4	2.0	0.06	15	0.48	0.02

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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 21- AUG- 2013
Account: RANSIL

Project: KEG - IX

CERTIFICATE OF ANALYSIS WH13142551

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ84751		0.22	39.1	1010	18.9	7.9	0.002	0.04	4.22	1.8	2.1	0.2	45.2	<0.01	0.05	3.2
ZZ84752		0.33	27.7	990	19.6	11.0	<0.001	0.06	2.99	1.6	2.1	0.3	32.7	<0.01	0.07	1.8
ZZ84753		0.33	26.0	970	23.5	10.3	0.001	0.10	3.79	1.8	2.9	0.4	55.6	<0.01	0.05	2.2
ZZ84754		0.23	48.7	1090	28.9	10.6	0.001	0.10	5.80	2.3	5.0	0.4	65.7	<0.01	0.06	2.6
ZZ84755		0.15	37.3	940	30.9	8.7	0.002	0.23	3.66	3.9	4.0	0.3	137.0	<0.01	0.05	1.7
ZZ84756		0.26	21.2	790	31.6	8.8	0.002	0.15	2.66	1.7	4.7	0.3	66.4	<0.01	0.09	1.4
ZZ84757		0.25	27.8	990	21.0	10.2	0.001	0.09	3.29	1.3	3.0	0.4	51.0	<0.01	0.05	0.8
ZZ84758		0.40	37.9	960	26.3	16.2	0.001	0.04	3.78	1.7	2.2	0.5	28.7	<0.01	0.05	1.5
ZZ84759		0.09	58.2	1300	38.3	8.4	0.001	0.13	6.88	2.6	3.9	0.3	40.6	<0.01	0.05	3.8
ZZ84760		0.36	24.6	1400	91.0	9.7	0.002	0.04	5.46	2.5	3.6	3.4	54.5	<0.01	0.09	4.0
ZZ84761		0.22	48.8	1390	37.2	11.6	0.002	0.07	4.08	2.3	3.0	0.9	74.9	<0.01	0.07	1.8
ZZ84762		0.23	23.0	730	18.4	8.3	0.001	0.04	1.86	1.3	1.4	0.5	38.8	<0.01	0.02	0.9
ZZ84763		0.34	35.2	830	22.1	11.6	0.001	0.04	2.86	1.7	2.1	0.5	27.8	<0.01	0.06	1.9
ZZ84764		0.32	26.3	660	23.0	11.5	0.001	0.05	2.92	1.8	2.0	0.6	24.6	<0.01	0.05	2.0
ZZ84765		0.27	43.8	2260	41.8	10.3	0.001	0.06	5.20	1.9	3.2	1.6	43.1	<0.01	0.08	2.0
ZZ84766		0.38	28.2	820	17.9	12.2	0.001	0.04	2.21	2.0	2.5	0.4	35.0	<0.01	0.04	1.1
ZZ84767		0.28	35.0	1600	37.7	9.3	0.001	0.11	2.84	1.3	3.5	0.4	70.8	<0.01	0.06	0.3
ZZ84768		0.17	24.1	1010	18.8	8.7	0.002	0.08	3.44	0.6	2.1	0.3	36.8	<0.01	0.05	0.2
ZZ84769		0.28	11.1	1090	7.8	1.9	<0.001	0.09	0.20	0.6	0.9	<0.2	9.5	<0.01	0.01	0.2

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To: **SILVER RANGE RESOURCES LTD.**
C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 21- AUG- 2013
Account: RANSIL

Project: KEG - IX

CERTIFICATE OF ANALYSIS WH13142551

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ84751		0.008	0.20	1.45	37	0.06	9.88	237	0.7
ZZ84752		0.009	0.24	1.24	43	0.07	5.20	157	0.6
ZZ84753		0.010	0.27	1.32	45	0.08	5.32	152	0.7
ZZ84754		0.008	0.43	1.33	48	0.11	6.70	310	0.7
ZZ84755		0.006	0.58	1.24	41	<0.05	6.59	209	<0.5
ZZ84756		0.008	0.52	1.90	36	0.13	10.15	123	0.9
ZZ84757		0.009	0.27	1.34	43	0.09	5.61	161	<0.5
ZZ84758		0.011	0.34	1.42	49	0.11	6.33	261	0.5
ZZ84759		<0.005	0.98	2.56	49	0.13	13.80	576	0.5
ZZ84760		0.007	0.74	2.29	83	0.23	12.70	136	1.7
ZZ84761		0.007	0.46	2.87	58	0.09	19.70	385	1.7
ZZ84762		0.011	0.31	2.19	35	0.06	10.90	168	0.7
ZZ84763		0.009	0.42	1.67	49	0.09	7.82	261	<0.5
ZZ84764		0.009	0.54	1.64	49	0.08	6.04	188	<0.5
ZZ84765		0.006	0.49	1.96	53	0.08	8.90	416	0.6
ZZ84766		0.011	0.39	1.70	37	0.08	6.96	191	<0.5
ZZ84767		0.008	0.33	2.46	41	0.08	5.98	172	<0.5
ZZ84768		0.011	0.30	1.77	52	0.12	5.08	167	<0.5
ZZ84769		0.015	0.09	2.73	10	0.06	9.72	20	<0.5

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VANCOUVER BC V6B 1L8

Finalized Date: 21-AUG-2013
Account: RANSIL

Project: KEG - IX

CERTIFICATE OF ANALYSIS WH13142551

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
ME-MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
LOG-22 SCR-41 WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-ICP21 ME-MS41

ALS Canada Ltd.

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 19-AUG-2013
Account: RANSIL

CERTIFICATE WH13142552

Project: KEG - XI

P.O. No.:

This report is for 30 Soil samples submitted to our lab in Whitehorse, YT, Canada on 6-AUG-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS41	51 anal. aqua regia ICPMS	

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
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CERTIFICATE OF ANALYSIS WH13142552

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ84621		0.16	0.001	0.44	0.73	7.6	<0.2	<10	170	0.74	0.17	0.89	6.00	27.5	9.5	10
ZZ84622		0.32	<0.001	0.40	0.61	7.7	<0.2	<10	150	0.85	0.17	0.59	5.82	42.1	10.7	12
ZZ84623		0.30	0.003	2.20	1.80	38.9	<0.2	<10	80	1.13	0.10	0.23	11.10	66.3	23.7	34
ZZ84624		0.26	0.001	0.54	0.62	10.2	<0.2	<10	140	0.58	0.13	0.36	4.66	32.8	9.2	18
ZZ84625		0.25	0.002	0.62	0.78	7.3	<0.2	<10	180	0.63	0.16	0.53	7.32	36.1	7.5	17
ZZ84626		0.33	0.001	0.33	0.54	8.8	<0.2	<10	130	0.72	0.16	0.39	4.35	44.2	9.7	13
ZZ84627		0.32	0.002	0.37	0.73	3.9	<0.2	<10	160	0.42	0.17	0.25	2.47	38.3	4.5	16
ZZ84628		0.26	0.062	0.74	0.88	24.6	<0.2	<10	240	1.10	0.14	0.18	8.85	38.3	19.8	18
ZZ84629		0.33	0.003	0.58	0.67	14.0	<0.2	<10	90	0.48	0.15	0.17	2.48	35.7	8.0	15
ZZ84630		0.25	0.006	1.06	0.94	11.9	<0.2	<10	140	0.68	0.19	0.15	1.86	22.5	7.6	20
ZZ84631		0.30	0.002	0.76	0.56	11.6	<0.2	<10	60	0.27	0.11	0.12	1.49	15.50	3.1	13
ZZ84632		0.34	0.010	4.79	0.57	20.1	<0.2	<10	230	0.29	0.19	0.14	1.22	24.8	1.4	34
ZZ84633		0.34	0.001	1.24	0.76	12.6	<0.2	<10	240	0.34	0.17	0.55	2.43	20.4	6.1	22
ZZ84634		0.25	0.004	0.92	0.75	11.9	<0.2	<10	260	0.43	0.20	0.79	3.27	20.8	5.4	23
ZZ84635		0.24	0.003	0.57	0.78	7.0	<0.2	<10	120	0.53	0.12	0.70	7.54	26.2	3.8	14
ZZ84636		0.22	<0.001	0.56	0.76	3.5	<0.2	<10	110	0.56	0.11	1.19	9.97	29.0	4.2	14
ZZ84637		0.32	0.003	0.72	1.03	10.6	<0.2	<10	130	0.63	0.11	0.59	11.80	29.4	8.4	20
ZZ84638		0.29	0.002	0.70	0.59	18.2	<0.2	<10	100	0.20	0.23	0.05	1.18	21.6	3.0	15
ZZ84639		0.30	0.003	2.27	0.73	24.6	<0.2	<10	280	0.39	0.20	0.62	2.85	20.5	6.9	27
ZZ84640		0.39	0.006	2.85	0.66	25.0	<0.2	<10	310	0.38	0.22	0.06	1.91	24.4	1.6	28
ZZ84641		0.38	0.001	0.24	1.13	14.6	<0.2	<10	120	0.68	0.19	0.08	0.72	25.1	4.5	22
ZZ84642		0.24	0.002	0.54	0.68	28.0	<0.2	<10	90	0.30	0.28	0.05	0.99	24.4	2.8	15
ZZ84643		0.43	0.002	0.56	2.53	9.7	<0.2	<10	90	1.16	0.10	0.63	8.29	13.50	6.0	38
ZZ84644		0.29	0.002	0.25	3.25	2.5	<0.2	<10	90	0.69	0.10	0.28	1.22	11.40	6.4	37
ZZ84645		0.38	0.002	0.41	1.10	15.9	<0.2	<10	130	0.50	0.19	0.40	2.31	25.5	5.7	21
ZZ84646		0.34	0.011	1.77	0.83	59.4	<0.2	<10	140	0.54	0.19	0.14	1.93	38.3	3.6	19
ZZ84647		0.20	0.001	1.93	0.43	15.4	<0.2	<10	140	0.19	0.15	0.09	0.92	23.3	1.4	20
ZZ84648		0.27	0.003	2.07	0.30	2.4	<0.2	<10	90	0.08	0.07	0.06	1.82	7.84	0.9	8
ZZ84649		0.36	0.006	3.61	0.79	21.9	<0.2	<10	660	0.59	0.23	0.17	1.76	34.6	1.3	40
ZZ84650		0.33	0.005	2.21	0.77	24.5	<0.2	<10	1120	0.98	0.25	0.06	0.97	43.4	1.4	28

***** See Appendix Page for comments regarding this certificate *****

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Finalized Date: 19- AUG- 2013
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Project: KEG - XI

CERTIFICATE OF ANALYSIS WH13142552

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ84621		4.03	20.8	1.43	2.16	0.05	0.17	0.17	0.040	0.06	15.2	5.0	0.32	271	1.75	0.01
ZZ84622		3.04	17.2	1.62	1.93	0.07	0.13	0.17	0.040	0.06	23.6	5.2	0.31	218	1.90	0.01
ZZ84623		6.11	280	3.35	4.19	0.23	0.24	0.38	0.100	0.24	37.6	13.9	1.83	549	50.0	<0.01
ZZ84624		2.03	40.2	1.79	1.91	0.08	0.17	0.14	0.026	0.08	18.1	6.8	0.43	152	3.73	0.01
ZZ84625		2.45	33.1	1.31	2.45	0.07	0.12	0.26	0.034	0.08	20.6	8.6	0.56	292	2.54	<0.01
ZZ84626		2.12	17.1	1.81	1.73	0.08	0.08	0.10	0.030	0.08	24.5	5.6	0.30	206	2.63	<0.01
ZZ84627		2.42	8.6	1.02	2.47	0.06	0.10	0.17	0.025	0.06	21.4	8.0	0.30	116	1.42	<0.01
ZZ84628		3.76	47.3	4.86	2.52	0.13	0.05	0.23	0.044	0.10	21.3	7.4	0.45	402	13.30	<0.01
ZZ84629		2.06	14.6	1.87	2.45	0.09	0.03	0.10	0.046	0.08	20.0	8.7	0.30	241	7.46	<0.01
ZZ84630		3.17	22.4	1.89	2.94	0.06	0.02	0.18	0.033	0.05	12.4	10.7	0.28	324	5.03	0.01
ZZ84631		2.46	23.2	1.61	2.08	0.07	<0.02	0.18	0.024	0.04	9.1	5.3	0.17	58	9.76	0.01
ZZ84632		4.25	31.0	1.59	3.61	0.14	0.02	2.11	0.047	0.09	18.3	2.5	0.10	31	20.1	<0.01
ZZ84633		2.17	13.0	1.49	3.14	0.06	0.07	0.47	0.030	0.06	12.0	9.0	0.37	531	7.73	<0.01
ZZ84634		1.70	16.4	1.49	3.13	0.06	0.08	0.31	0.035	0.08	11.7	7.7	0.32	274	5.58	<0.01
ZZ84635		2.22	13.8	1.62	2.43	0.06	0.11	0.11	0.023	0.08	14.1	6.7	0.66	234	2.17	<0.01
ZZ84636		3.07	17.6	1.15	2.30	0.06	0.11	0.12	0.023	0.10	15.9	7.4	0.84	191	1.33	<0.01
ZZ84637		3.19	24.4	1.63	2.87	0.07	0.14	0.10	0.023	0.12	16.0	10.0	1.01	272	6.11	<0.01
ZZ84638		3.07	14.2	1.57	4.59	0.06	<0.02	0.17	0.021	0.06	11.9	2.3	0.08	92	11.95	<0.01
ZZ84639		2.61	19.2	1.72	3.24	0.07	0.08	1.13	0.040	0.07	12.1	7.6	0.27	292	13.45	<0.01
ZZ84640		3.75	39.2	1.86	3.77	0.13	0.03	0.83	0.035	0.18	17.2	3.8	0.08	51	25.8	<0.01
ZZ84641		5.34	27.2	2.43	3.82	0.08	<0.02	0.04	0.032	0.12	15.3	24.1	0.54	113	9.89	<0.01
ZZ84642		3.51	13.1	1.91	4.89	0.07	<0.02	0.07	0.023	0.06	13.9	4.8	0.12	87	13.60	<0.01
ZZ84643		5.86	19.4	1.91	7.15	0.09	0.15	0.06	0.032	0.20	6.9	73.9	2.34	230	3.36	<0.01
ZZ84644		4.71	18.6	1.79	9.14	0.11	0.21	0.02	0.024	0.23	5.0	60.0	2.34	309	0.81	0.01
ZZ84645		2.97	17.6	1.94	4.12	0.07	<0.02	0.05	0.027	0.09	14.4	17.4	0.46	214	6.46	0.01
ZZ84646		5.00	51.8	2.48	2.68	0.15	0.04	0.15	0.067	0.11	23.8	11.2	0.24	106	28.4	0.01
ZZ84647		2.86	11.2	1.15	3.45	0.08	<0.02	0.42	0.026	0.07	15.0	2.1	0.07	35	7.27	0.01
ZZ84648		1.71	17.9	0.53	1.64	0.07	<0.02	0.85	0.012	0.03	4.9	0.8	0.03	16	2.40	0.02
ZZ84649		5.35	45.1	1.72	4.64	0.17	0.04	1.41	0.077	0.15	22.5	2.7	0.09	53	17.45	0.01
ZZ84650		9.29	69.3	1.72	3.81	0.13	0.04	0.25	0.062	0.18	26.8	3.3	0.11	85	24.9	0.01

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
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Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 19- AUG- 2013
Account: RANSIL

Project: KEG - XI

CERTIFICATE OF ANALYSIS WH13142552

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ84621		0.34	32.4	1330	15.2	9.6	0.001	0.10	1.76	3.0	1.4	0.2	63.7	0.01	0.04	2.1
ZZ84622		0.26	36.2	1130	14.2	7.9	0.001	0.05	2.03	3.9	1.4	0.3	46.1	0.01	0.04	3.5
ZZ84623		0.07	145.5	1960	51.2	14.2	0.018	0.14	14.60	7.5	8.0	0.4	45.4	0.01	0.06	6.9
ZZ84624		0.33	48.4	1140	15.7	6.6	0.001	0.04	2.86	3.8	1.7	0.3	36.5	<0.01	0.04	5.6
ZZ84625		0.30	31.9	1050	17.4	9.0	0.001	0.06	2.14	3.3	1.7	0.3	40.8	0.01	0.04	2.5
ZZ84626		0.30	40.6	1150	13.2	6.6	0.001	0.03	2.54	3.9	1.5	0.2	33.9	<0.01	0.04	5.2
ZZ84627		0.45	17.9	1020	15.3	9.6	0.001	0.04	1.13	2.8	1.4	0.3	29.3	<0.01	0.03	2.7
ZZ84628		0.32	67.9	1720	36.2	10.1	0.001	0.08	6.17	3.2	3.8	0.4	36.1	0.01	0.06	1.8
ZZ84629		0.64	38.4	960	25.2	7.5	0.002	0.06	3.52	2.1	2.0	0.6	28.2	<0.01	0.05	3.6
ZZ84630		0.37	24.1	1120	20.4	9.2	0.001	0.08	3.44	1.0	3.6	0.4	17.0	<0.01	0.05	0.3
ZZ84631		0.35	20.9	980	16.2	5.9	0.005	0.07	4.33	0.6	5.4	0.3	14.4	<0.01	0.05	<0.2
ZZ84632		0.30	8.1	2290	137.0	10.5	0.007	0.14	7.46	0.4	14.2	0.7	57.9	<0.01	0.15	<0.2
ZZ84633		0.58	15.2	1190	29.1	8.3	0.002	0.08	3.21	2.0	4.2	0.4	41.2	<0.01	0.08	1.4
ZZ84634		0.57	18.6	1730	20.4	9.0	0.001	0.14	2.47	2.5	4.2	0.4	52.6	0.01	0.06	1.3
ZZ84635		0.22	21.1	1010	21.3	8.1	0.001	0.11	1.36	3.2	1.2	0.3	34.9	<0.01	0.04	1.9
ZZ84636		0.20	27.3	790	22.3	9.5	0.001	0.11	1.48	3.6	1.6	0.2	50.5	<0.01	0.03	1.7
ZZ84637		0.25	51.6	980	24.3	12.2	0.001	0.06	3.32	4.6	1.6	0.3	38.9	<0.01	0.04	2.5
ZZ84638		0.36	12.9	690	25.3	9.8	0.001	0.08	4.58	0.5	3.9	0.7	20.4	<0.01	0.07	<0.2
ZZ84639		0.64	18.3	1570	47.1	10.1	0.004	0.11	6.22	2.4	7.1	0.5	49.1	<0.01	0.11	1.3
ZZ84640		0.25	7.1	3030	102.5	12.1	0.007	0.32	8.50	0.9	14.6	0.5	63.4	<0.01	0.18	0.2
ZZ84641		0.35	36.8	580	23.8	15.3	0.001	0.05	2.41	1.3	5.3	0.5	18.6	<0.01	0.05	0.4
ZZ84642		0.37	23.9	690	23.1	11.9	0.002	0.06	10.90	0.6	5.3	0.9	14.7	<0.01	0.10	<0.2
ZZ84643		0.74	51.9	390	22.4	20.2	0.004	0.03	3.34	4.2	2.5	0.6	31.9	0.01	0.03	6.4
ZZ84644		1.50	31.6	290	22.9	19.6	0.001	0.03	0.90	4.3	0.8	0.6	62.2	<0.01	0.02	5.3
ZZ84645		0.49	30.3	630	26.8	12.5	0.004	0.05	4.53	1.2	5.6	0.9	21.9	<0.01	0.06	0.4
ZZ84646		0.42	31.0	1560	43.8	10.2	0.012	0.17	21.6	2.2	21.3	0.6	39.3	<0.01	0.13	2.1
ZZ84647		0.18	5.7	1710	126.0	6.9	0.002	0.11	3.12	0.4	6.0	0.6	47.5	<0.01	0.08	<0.2
ZZ84648		0.13	3.8	640	35.2	4.0	0.003	0.05	1.78	0.3	6.4	0.2	16.0	<0.01	0.04	<0.2
ZZ84649		0.16	11.2	3330	87.1	11.9	0.006	0.23	10.20	0.6	24.3	0.8	139.0	0.01	0.22	0.2
ZZ84650		0.20	10.4	1970	61.0	12.8	0.008	0.24	8.73	2.0	15.6	0.5	158.5	0.01	0.18	0.9

***** See Appendix Page for comments regarding this certificate *****

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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 19- AUG- 2013
Account: RANSIL

Project: KEG - XI

CERTIFICATE OF ANALYSIS WH13142552

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ84621		0.010	0.28	3.29	49	0.10	19.65	498	5.7
ZZ84622		0.009	0.21	3.69	54	0.10	21.1	482	4.5
ZZ84623		0.020	1.74	9.23	379	0.23	30.1	1420	15.0
ZZ84624		0.018	0.24	2.23	64	0.16	13.55	715	9.3
ZZ84625		0.010	0.26	2.98	93	0.11	15.50	462	3.7
ZZ84626		0.012	0.17	2.21	52	0.09	15.25	553	3.1
ZZ84627		0.013	0.25	1.81	45	0.13	11.35	191	3.0
ZZ84628		0.015	0.41	4.40	99	0.28	29.2	1700	0.7
ZZ84629		0.026	0.28	2.03	70	0.33	9.90	567	0.7
ZZ84630		0.017	0.46	2.48	53	0.35	8.40	245	<0.5
ZZ84631		0.017	0.44	2.13	48	0.24	5.31	169	<0.5
ZZ84632		0.009	1.33	6.68	153	0.41	8.64	46	<0.5
ZZ84633		0.016	0.37	2.80	92	0.45	6.78	176	2.0
ZZ84634		0.017	0.32	2.83	80	0.17	8.02	215	2.4
ZZ84635		0.009	0.18	1.96	54	0.07	10.80	286	3.5
ZZ84636		0.009	0.21	2.45	54	0.07	15.10	311	3.6
ZZ84637		0.013	0.51	3.03	136	0.10	14.65	620	4.7
ZZ84638		0.018	0.50	1.37	132	0.31	3.58	102	<0.5
ZZ84639		0.017	0.71	4.76	216	0.30	8.80	165	2.5
ZZ84640		0.012	1.52	6.43	149	0.41	12.45	44	<0.5
ZZ84641		0.025	0.53	1.08	89	0.17	5.22	454	<0.5
ZZ84642		0.022	0.47	1.63	136	0.30	3.37	216	<0.5
ZZ84643		0.070	0.48	1.62	47	0.17	15.10	548	7.6
ZZ84644		0.083	0.34	1.00	40	0.19	8.86	198	9.2
ZZ84645		0.022	0.47	1.57	77	0.27	7.26	350	<0.5
ZZ84646		0.018	1.32	4.66	149	0.55	8.80	228	1.0
ZZ84647		0.009	0.85	2.91	81	0.17	6.98	45	<0.5
ZZ84648		0.010	0.51	1.73	30	0.07	2.85	34	<0.5
ZZ84649		0.006	1.62	13.75	154	0.28	17.55	95	0.5
ZZ84650		0.009	1.10	11.85	136	0.20	16.65	69	<0.5

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 19-AUG-2013
Account: RANSIL

Project: KEG - XI

CERTIFICATE OF ANALYSIS WH13142552

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
ME-MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
LOG-22 SCR-41 WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-ICP21 ME-MS41

ALS Canada Ltd.
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To: **SILVER RANGE RESOURCES LTD.**
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 29-AUG-2013
Account: RANSIL

CERTIFICATE WH13145851

Project: KEG - HAMMER REGION

P.O. No.: Hammer Region

This report is for 24 Rock samples submitted to our lab in Whitehorse, YT, Canada on 13-AUG-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70%<2mm
CRU-QC	Crushing QC Test
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test
PUL-31	Pulverize split to 85%<75 um

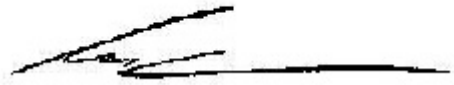
ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature: 

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
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To: **SILVER RANGE RESOURCES LTD.**
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VANCOUVER BC V6B 1L8

Finalized Date: 29- AUG- 2013
Account: RANSIL

Project: KEG - HAMMER REGION

CERTIFICATE OF ANALYSIS WH13145851

Sample Description	Method	WEI-21	Au-AA24	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
K280911		0.83	<0.005	0.06	7.20	2.3	600	3.86	0.65	0.74	0.09	91.7	6.0	19	10.95	7.7
K280912		0.92	<0.005	0.05	6.19	0.6	250	3.48	0.70	0.56	0.24	34.2	1.7	12	10.25	4.1
K280913		1.03	0.005	0.07	0.52	0.9	10	0.40	45.8	0.07	<0.02	2.51	0.6	20	0.88	10.1
K280914		1.49	<0.005	0.06	6.63	0.6	80	3.54	1.75	0.30	0.03	13.25	0.6	11	11.55	6.0
K280915		1.24	<0.005	0.08	11.35	8.2	270	6.89	1.10	0.23	0.03	102.5	21.4	107	38.8	36.4
K280916		0.81	<0.005	0.05	5.11	12.5	290	3.36	0.45	2.05	0.06	61.7	3.2	15	10.50	4.9
K280917		1.11	0.026	3.22	2.58	96.1	200	2.10	2.97	0.02	0.08	9.77	1.1	31	6.28	36.5
K280918		1.41	<0.005	0.18	10.40	0.7	2910	3.09	0.35	5.17	0.14	71.6	15.5	134	23.3	109.5
K280919		1.52	<0.005	1.30	5.78	36.9	350	4.91	2.25	4.81	0.31	41.8	9.5	59	36.4	9.1
K280920		1.56	<0.005	0.11	7.65	1.4	210	2.24	0.47	0.25	0.39	32.4	1.5	12	9.13	16.1
K280921		1.44	0.021	0.09	8.77	<5	410	8.07	0.78	13.80	0.26	73.2	14.4	60	3.19	44.5
K280922		1.17	<0.005	0.01	0.43	<5	210	0.28	0.03	14.55	0.06	100.0	3.8	3	0.17	1.9
K280923		1.21	<0.005	0.04	7.52	1.0	890	0.47	0.04	4.36	0.23	17.30	44.5	112	2.31	107.0
K280924		1.60	0.006	1.73	3.56	138.0	560	5.48	1.07	0.05	0.34	55.5	4.5	57	11.85	257
M676960		0.88	<0.005	6.92	3.62	1.1	270	2.56	21.4	0.06	0.06	10.85	0.9	19	5.32	33.2
M676961		0.77	<0.005	1.33	8.25	1.3	330	4.53	3.40	0.06	0.11	8.00	0.6	5	10.55	21.6
M676962		0.84	<0.005	0.60	7.30	0.7	160	4.74	1.76	0.09	<0.02	5.10	0.3	6	4.78	6.4
M676963		1.36	<0.005	0.20	9.67	0.6	1170	20.1	1.25	8.79	0.12	69.4	19.9	89	3.41	158.5
M676964		1.24	<0.005	0.18	8.98	<0.2	930	4.44	0.44	5.25	0.83	93.1	19.4	113	26.4	139.0
L840380		0.84	0.010	1.60	3.02	177.5	230	2.38	4.60	0.03	0.08	11.20	1.8	30	5.95	35.9
L840381		1.22	<0.005	0.14	6.92	2.1	430	4.44	0.88	0.64	0.14	63.3	3.2	18	9.89	10.2
L840382		0.79	<0.005	0.06	7.33	1.7	190	7.20	0.28	0.45	0.12	16.95	1.1	8	20.2	1.4
L840383		0.69	<0.005	0.06	7.92	<5	1410	3.74	0.71	11.65	0.31	80.9	13.1	56	10.20	24.3
L840384		0.63	<0.005	0.07	7.89	0.4	1200	3.11	0.70	7.55	0.17	55.6	10.7	73	11.75	33.5

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
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Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 29- AUG- 2013
Account: RANSIL

Project: KEG - HAMMER REGION

CERTIFICATE OF ANALYSIS WH13145851

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
K280911		2.11	24.7	0.11	2.1	0.037	3.56	44.2	141.0	0.53	411	0.27	1.83	9.3	8.1	640
K280912		0.99	15.50	0.09	0.7	0.028	3.48	16.9	109.5	0.16	335	0.20	1.62	6.6	3.2	500
K280913		0.64	2.42	0.05	0.1	<0.005	0.18	1.2	22.2	0.03	69	0.49	0.09	0.5	1.8	50
K280914		0.68	16.75	0.07	0.5	0.020	3.71	5.5	29.6	0.06	146	0.19	2.10	5.9	1.6	610
K280915		5.89	37.4	0.12	0.4	0.119	3.47	46.5	271	1.07	846	0.37	0.64	25.2	38.6	420
K280916		2.15	17.15	0.09	1.8	0.031	3.25	30.1	72.2	0.17	1200	0.46	0.05	11.0	5.4	470
K280917		2.26	9.49	<0.05	0.2	0.029	1.17	5.6	93.9	0.14	83	4.55	0.02	1.8	5.5	190
K280918		4.48	35.0	0.12	0.7	0.048	3.55	36.6	220	0.73	586	4.46	0.57	14.7	47.0	840
K280919		2.65	21.4	0.08	0.9	0.052	2.49	20.0	219	0.30	1060	0.28	0.03	9.4	25.5	390
K280920		1.65	21.4	0.09	1.0	0.038	5.13	16.5	89.3	0.19	142	0.41	1.74	10.1	6.5	560
K280921		4.76	24.7	0.09	0.8	0.065	0.44	40.7	32.0	2.03	903	0.46	1.35	14.2	33.4	650
K280922		3.42	1.34	0.07	0.1	0.107	0.29	49.2	2.5	7.36	1930	0.14	0.02	0.6	4.5	140
K280923		7.68	16.90	<0.05	2.6	0.074	0.59	5.5	14.8	3.43	1190	0.33	3.16	2.1	61.7	720
K280924		11.05	12.90	0.06	0.3	0.055	1.71	32.1	25.0	0.15	140	25.5	0.02	2.6	51.7	1280
M676960		0.61	8.65	<0.05	0.2	0.021	1.62	6.0	19.5	0.09	50	3.41	0.03	3.9	8.0	120
M676961		0.73	21.4	<0.05	0.5	0.006	2.59	3.7	345	0.14	45	0.42	0.04	2.8	10.3	100
M676962		0.57	22.0	0.05	0.6	0.015	1.84	2.5	21.6	0.08	45	0.33	2.95	6.3	1.9	160
M676963		5.12	28.0	0.10	0.4	0.059	0.91	39.7	40.1	1.62	746	2.26	1.60	28.7	52.5	450
M676964		5.40	22.9	0.12	0.4	0.043	1.88	48.6	129.5	1.30	656	2.72	1.63	13.4	52.6	300
L840380		5.37	11.45	<0.05	0.2	0.038	1.48	6.6	72.5	0.16	106	9.89	0.02	2.4	14.6	240
L840381		1.52	22.7	0.10	1.0	0.027	3.55	31.5	90.0	0.17	316	0.30	1.73	7.3	5.7	530
L840382		0.77	21.9	<0.05	1.0	0.014	3.81	7.2	32.0	0.07	256	0.23	2.91	6.9	3.4	550
L840383		4.00	23.0	0.13	0.5	0.086	1.09	44.9	73.8	1.70	1100	0.70	0.95	9.8	39.8	1020
L840384		4.35	22.8	0.06	0.5	0.052	1.60	32.4	79.6	1.40	1280	1.74	0.90	9.8	31.2	700

***** See Appendix Page for comments regarding this certificate *****

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VANCOUVER BC V6B 1L8

Finalized Date: 29- AUG- 2013
Account: RANSIL

Project: KEG - HAMMER REGION

CERTIFICATE OF ANALYSIS WH13145851

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
K280911		40.7	246	0.002	<0.01	0.17	6.6	1	5.9	162.0	0.86	<0.05	18.6	0.225	1.36	3.4
K280912		35.0	221	0.003	<0.01	0.12	3.4	<1	7.4	100.5	1.07	<0.05	5.8	0.090	1.12	2.0
K280913		3.7	16.4	<0.002	<0.01	0.14	0.9	<1	0.9	3.4	0.07	0.29	0.6	0.017	0.10	1.4
K280914		32.2	244	0.002	<0.01	0.25	2.2	1	8.9	78.2	1.35	<0.05	2.2	0.040	1.33	9.5
K280915		13.4	387	0.002	0.05	0.24	22.0	1	13.1	43.7	1.69	<0.05	16.3	0.564	2.94	4.7
K280916		30.6	262	0.003	<0.01	5.52	4.7	1	9.5	25.2	1.49	<0.05	16.6	0.174	2.01	8.2
K280917		93.0	123.5	0.003	0.02	75.5	2.0	<1	2.6	7.9	0.17	<0.05	1.5	0.049	1.97	1.6
K280918		58.0	158.5	0.009	0.92	0.23	15.6	3	5.0	684	1.05	0.05	13.9	0.497	1.34	3.7
K280919		8.8	217	0.002	0.05	25.8	7.9	1	19.2	92.0	0.68	<0.05	6.6	0.278	5.36	2.5
K280920		60.6	318	0.002	0.04	0.66	5.5	1	7.2	85.5	1.27	<0.05	6.8	0.136	1.81	8.6
K280921		7.3	39.0	0.002	0.12	0.40	15.4	1	25.8	1380	2.21	<0.05	8.5	0.494	0.21	2.0
K280922		0.7	5.4	<0.002	<0.01	0.07	1.6	1	0.2	115.0	<0.05	<0.05	<0.2	0.023	0.03	0.1
K280923		1.5	22.9	0.003	0.08	0.64	41.7	2	1.1	142.0	0.16	0.05	0.3	0.977	0.12	0.2
K280924		32.3	159.5	0.002	0.18	153.0	7.0	5	2.5	11.5	0.18	<0.05	5.9	0.100	3.88	27.3
M676960		584	165.0	0.048	0.06	0.51	2.3	3	3.9	8.9	1.09	0.11	2.3	0.047	0.89	2.6
M676961		54.4	219	<0.002	0.04	0.57	0.5	1	4.8	12.3	0.32	<0.05	2.2	0.006	1.72	4.7
M676962		43.9	163.5	0.002	0.03	0.18	1.0	1	8.5	67.0	1.03	<0.05	1.2	0.020	0.83	3.8
M676963		14.3	48.1	0.005	1.22	0.17	17.4	3	21.8	657	3.41	<0.05	11.3	0.419	0.43	2.7
M676964		25.0	118.5	0.004	1.12	0.07	16.9	4	5.4	564	1.01	<0.05	15.8	0.455	1.07	3.2
L840380		99.4	157.5	0.002	0.04	111.5	2.8	1	2.9	9.2	0.21	0.06	1.5	0.065	3.12	5.5
L840381		37.5	236	0.002	0.01	0.76	4.7	1	7.4	132.5	0.55	<0.05	14.3	0.168	1.42	7.2
L840382		35.6	296	0.002	<0.01	1.25	2.1	<1	12.2	76.7	1.91	<0.05	3.4	0.048	1.67	2.6
L840383		13.5	89.9	0.003	0.07	0.36	12.5	2	13.9	696	0.72	<0.05	11.7	0.296	0.46	2.8
L840384		14.9	85.4	0.007	0.18	0.21	11.6	1	6.9	553	0.74	<0.05	8.1	0.307	0.59	3.1

***** See Appendix Page for comments regarding this certificate *****

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Finalized Date: 29- AUG- 2013
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Project: KEG - HAMMER REGION

CERTIFICATE OF ANALYSIS WH13145851

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm
	LOR	1	0.1	0.1	2	0.5
K280911		39	0.8	9.5	69	69.2
K280912		12	0.9	7.3	29	19.5
K280913		3	0.5	0.8	6	2.2
K280914		3	1.3	5.8	15	9.4
K280915		114	1.2	10.6	144	9.9
K280916		23	1.6	15.2	40	60.2
K280917		35	6.5	1.3	42	5.9
K280918		168	3.7	12.6	87	19.5
K280919		69	34.6	6.6	115	21.9
K280920		22	1.8	6.4	66	23.1
K280921		106	2.3	18.8	116	16.7
K280922		10	<0.1	10.3	7	3.2
K280923		401	0.1	32.7	87	83.5
K280924		265	20.0	20.4	229	11.1
M676960		60	1.1	1.8	13	4.5
M676961		3	0.5	4.2	27	7.9
M676962		4	1.0	3.0	12	7.6
M676963		125	1.3	20.1	82	9.0
M676964		130	1.2	19.3	183	10.7
L840380		48	12.3	2.2	87	4.8
L840381		28	0.8	7.5	55	35.2
L840382		4	0.8	6.2	28	20.4
L840383		91	13.2	24.1	130	12.9
L840384		100	70.8	15.1	102	11.7

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CERTIFICATE OF ANALYSIS WH13145851

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

	REE's may not be totally soluble in this method.
Applies to Method:	ME-MS61
	Interference: Samples with Ca>10%on ICP-MS As. ICP-AES As results reported (5 ppm DL)
Applies to Method:	ME-MS61

LABORATORY ADDRESSES

	Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.			
Applies to Method:	CRU-31	CRU-QC	LOG-22	PUL-31
	PUL-QC	SPL-21	WEI-21	
	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.			
Applies to Method:	Au-AA24	ME-MS61		

ALS Canada Ltd.

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Finalized Date: 28-AUG-2013
Account: RANSIL

CERTIFICATE WH13146490

Project: KEG - HAMMER REGION

P.O. No.: Hammer Region

This report is for 36 Soil samples submitted to our lab in Whitehorse, YT, Canada on 13-AUG-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS41	51 anal. aqua regia ICPMS	

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
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Finalized Date: 28-AUG-2013
Account: RANSIL

Project: KEG - HAMMER REGION

CERTIFICATE OF ANALYSIS WH13146490

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ84770		0.34	0.002	0.41	2.65	3.5	<0.2	<10	240	2.36	1.09	0.20	0.53	25.1	25.7	50
ZZ84771		0.29	0.001	0.15	1.72	2.5	<0.2	<10	120	1.74	1.45	0.29	0.26	20.0	9.8	22
ZZ84772		0.40	0.001	0.24	3.02	2.3	<0.2	<10	280	2.12	0.82	0.18	0.34	22.5	25.5	57
ZZ84773		0.37	0.002	0.27	3.25	2.9	<0.2	<10	290	2.20	1.48	0.17	0.32	20.9	32.3	61
ZZ84774		0.45	0.001	0.28	3.13	3.3	<0.2	<10	290	2.12	0.96	0.12	0.34	21.1	29.0	58
ZZ84775		0.28	<0.001	0.21	1.90	2.7	<0.2	<10	120	2.76	2.83	0.18	0.13	23.8	16.3	29
ZZ84776		0.49	0.001	0.20	1.98	3.8	<0.2	<10	140	3.07	3.89	0.21	0.50	28.6	18.7	32
ZZ84777		0.31	0.002	0.26	2.24	8.4	<0.2	<10	170	2.06	1.61	0.21	0.17	22.6	14.5	40
ZZ84778		0.43	0.001	0.09	3.17	3.4	<0.2	<10	240	2.43	2.03	0.17	0.12	24.7	18.3	54
ZZ84779		0.30	0.003	0.12	3.05	1.9	<0.2	<10	240	1.71	1.26	0.28	0.09	27.6	25.9	51
ZZ84780		0.31	0.002	0.33	3.33	1.4	<0.2	<10	220	2.01	1.58	0.19	0.25	27.8	21.6	61
ZZ84781		0.57	0.001	0.69	2.36	1.5	<0.2	<10	260	2.23	1.35	0.28	0.85	21.0	20.4	50
ZZ84782		0.33	0.001	0.27	3.49	2.2	<0.2	<10	240	2.23	2.21	0.46	0.67	25.5	35.4	67
ZZ84785		0.20	0.002	0.58	0.81	2.5	<0.2	<10	80	0.34	0.50	0.06	0.71	10.40	2.5	18
ZZ84786		0.26	0.001	0.36	1.24	3.4	<0.2	<10	60	1.12	1.24	0.04	0.41	29.7	7.2	11
ZZ84787		0.41	0.001	0.27	2.81	5.1	<0.2	<10	200	1.92	0.76	0.06	0.88	32.6	14.8	48
ZZ84788		0.20	0.001	0.11	1.06	1.8	<0.2	<10	60	0.80	0.23	0.09	0.48	13.55	4.8	10
ZZ84789		0.27	0.002	0.11	2.51	5.9	<0.2	<10	170	1.16	0.59	0.07	0.76	25.1	12.5	42
ZZ84790		0.38	0.002	0.07	2.40	6.4	<0.2	<10	170	0.96	0.52	0.07	0.31	26.5	12.3	44
ZZ84791		0.38	0.001	0.10	2.01	5.0	<0.2	<10	180	1.30	0.53	0.15	0.18	29.5	14.2	38
ZZ84792		0.29	0.003	0.28	2.63	4.0	<0.2	<10	270	1.39	0.55	0.09	0.21	29.3	16.4	52
ZZ84793		0.40	0.003	0.22	2.68	5.1	<0.2	<10	220	1.20	0.58	0.06	0.15	24.5	14.7	50
ZZ84794		0.40	0.004	0.44	2.69	6.1	<0.2	<10	260	1.22	0.66	0.11	0.56	26.6	14.1	53
ZZ84795		0.34	0.001	0.60	3.49	4.0	<0.2	<10	320	2.17	1.20	0.89	1.22	34.2	17.4	53
ZZ84796		0.22	0.002	0.26	1.77	3.3	<0.2	<10	180	1.43	0.57	0.68	0.37	22.0	16.4	23
ZZ84822		0.38	0.003	0.13	1.64	8.9	<0.2	<10	190	0.79	0.47	0.29	0.21	40.2	5.8	27
ZZ84823		0.34	0.003	0.17	1.73	7.3	<0.2	<10	100	0.69	0.64	0.26	0.14	36.2	6.1	26
ZZ84824		0.33	0.002	0.21	1.66	9.8	<0.2	<10	170	1.71	1.46	0.15	0.41	57.9	9.6	23
ZZ84825		0.19	0.001	0.19	0.99	2.7	<0.2	<10	240	1.39	0.62	0.40	0.36	34.0	3.8	13
ZZ84826		0.34	0.001	0.05	0.59	0.4	<0.2	<10	30	0.27	0.08	0.10	0.01	8.56	0.9	2
ZZ84827		0.41	0.002	0.12	1.44	6.0	<0.2	<10	150	0.70	0.51	0.34	0.21	45.5	7.9	26
ZZ84805		0.36	0.003	0.34	3.25	5.2	<0.2	<10	240	1.60	0.62	0.44	0.84	34.5	16.2	46
ZZ84806		0.43	0.002	0.23	3.62	7.4	<0.2	<10	310	2.54	0.60	1.10	0.54	39.5	17.9	53
ZZ84807		0.36	0.003	0.36	1.84	6.7	<0.2	<10	190	1.04	0.68	0.15	0.61	19.55	8.7	37
ZZ84808		0.21	0.003	0.39	0.95	2.7	<0.2	<10	120	0.51	0.49	0.14	0.95	10.65	5.3	21
ZZ84809		0.38	0.001	0.47	2.49	9.0	<0.2	<10	310	2.20	0.84	0.42	1.31	26.9	22.6	39

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 28-AUG-2013
Account: RANSIL

Project: KEG - HAMMER REGION

CERTIFICATE OF ANALYSIS WH13146490

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ84770		10.50	63.5	4.64	10.05	0.09	<0.02	0.04	0.052	0.81	13.5	101.5	0.79	606	7.01	0.02
ZZ84771		7.79	34.7	2.57	6.37	<0.05	<0.02	0.03	0.030	0.25	9.7	53.4	0.38	365	1.30	0.02
ZZ84772		11.30	53.4	5.30	12.25	0.16	<0.02	0.01	0.062	1.23	12.1	138.0	0.92	584	4.08	0.02
ZZ84773		13.20	63.4	5.59	12.80	0.17	<0.02	0.01	0.062	1.34	10.9	147.5	0.94	733	4.02	0.03
ZZ84774		11.05	61.6	5.42	12.70	0.16	<0.02	0.02	0.065	1.22	11.2	135.5	0.93	576	4.44	0.02
ZZ84775		8.71	49.1	3.39	7.61	0.06	<0.02	0.03	0.044	0.39	13.1	69.9	0.44	550	0.94	0.02
ZZ84776		11.90	49.4	3.81	8.90	0.07	0.02	0.02	0.054	0.62	15.0	89.5	0.52	670	1.01	0.01
ZZ84777		12.50	40.5	4.07	9.75	0.09	0.02	0.04	0.050	0.87	11.6	85.4	0.65	451	1.12	0.01
ZZ84778		13.10	41.4	5.12	12.45	0.09	<0.02	0.02	0.057	1.08	12.6	97.4	0.90	630	0.92	0.02
ZZ84779		10.85	39.4	5.33	11.65	0.13	0.02	0.02	0.050	1.14	13.0	107.5	1.03	799	0.77	0.02
ZZ84780		12.50	46.2	5.55	13.45	0.13	<0.02	0.02	0.065	1.19	13.8	113.0	1.06	590	1.68	0.02
ZZ84781		8.96	71.2	5.45	9.93	0.11	0.04	<0.01	0.067	0.87	10.7	77.6	0.82	370	19.10	0.04
ZZ84782		12.65	70.3	6.54	12.50	0.12	0.03	0.01	0.073	1.21	13.3	120.5	1.24	797	5.25	0.02
ZZ84785		7.77	29.4	2.12	4.15	<0.05	<0.02	0.07	0.019	0.14	5.4	12.2	0.15	74	8.91	0.02
ZZ84786		10.85	41.3	2.61	5.25	<0.05	<0.02	0.07	0.022	0.17	14.7	16.3	0.16	163	2.28	0.01
ZZ84787		13.60	46.6	4.68	10.75	0.07	<0.02	0.03	0.045	0.79	16.5	68.8	0.73	473	2.49	0.01
ZZ84788		4.06	46.4	1.70	3.78	<0.05	<0.02	0.04	0.015	0.12	6.6	18.1	0.16	103	1.64	0.02
ZZ84789		8.89	29.8	4.24	10.00	<0.05	<0.02	0.05	0.042	0.43	12.9	54.0	0.53	316	1.96	0.01
ZZ84790		6.86	29.5	4.16	10.00	0.07	<0.02	0.04	0.040	0.54	13.9	50.4	0.65	367	1.85	0.01
ZZ84791		8.10	28.7	3.60	8.10	0.09	<0.02	0.01	0.036	0.57	15.5	59.0	0.66	381	1.26	0.01
ZZ84792		9.95	35.2	4.62	9.54	0.07	<0.02	0.03	0.046	0.79	15.8	52.9	0.71	495	1.23	0.01
ZZ84793		12.85	33.8	4.73	10.60	0.06	<0.02	0.05	0.044	0.82	13.1	50.1	0.65	545	1.50	0.01
ZZ84794		9.01	42.7	4.57	10.20	0.08	<0.02	0.05	0.049	0.81	13.8	63.0	0.75	436	5.70	0.02
ZZ84795		14.45	72.8	4.91	11.00	0.08	<0.02	0.04	0.053	0.71	16.8	87.1	1.04	500	7.50	0.04
ZZ84796		7.32	34.0	2.44	6.14	<0.05	<0.02	0.05	0.025	0.17	12.8	31.7	0.35	486	1.12	0.02
ZZ84822		3.30	18.0	2.55	5.97	0.05	0.02	0.02	0.027	0.11	21.3	29.2	0.48	185	0.85	0.01
ZZ84823		3.74	19.1	2.24	5.80	<0.05	0.02	0.04	0.024	0.11	18.9	30.9	0.51	171	1.14	0.01
ZZ84824		7.07	18.6	2.68	6.31	0.05	<0.02	0.04	0.030	0.14	25.3	39.5	0.43	574	1.14	<0.01
ZZ84825		4.00	16.2	1.26	4.41	<0.05	<0.02	0.08	0.014	0.06	18.2	9.8	0.16	357	0.76	0.01
ZZ84826		0.82	21.1	0.39	1.67	<0.05	0.02	0.02	0.005	0.03	4.2	2.3	0.03	21	0.11	0.03
ZZ84827		3.29	19.5	2.31	5.10	0.06	0.05	0.02	0.020	0.14	22.2	26.7	0.50	366	0.91	0.01
ZZ84805		7.61	35.9	3.84	10.65	0.08	<0.02	0.06	0.046	0.49	17.9	58.3	0.73	643	2.05	0.02
ZZ84806		9.81	46.6	4.34	11.00	0.07	0.02	0.03	0.047	0.48	18.8	81.2	0.98	592	1.82	0.04
ZZ84807		7.01	27.0	3.51	7.22	0.05	<0.02	0.06	0.083	0.36	10.7	34.9	0.47	323	4.35	0.01
ZZ84808		3.70	15.4	2.11	4.71	<0.05	<0.02	0.05	0.020	0.23	5.4	14.0	0.24	175	3.39	0.01
ZZ84809		18.65	72.5	4.58	8.12	0.10	<0.02	0.03	0.040	0.50	12.8	69.5	0.83	349	10.30	0.02

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VANCOUVER BC V6B 1L8

Finalized Date: 28-AUG-2013
Account: RANSIL

Project: KEG - HAMMER REGION

CERTIFICATE OF ANALYSIS WH13146490

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ84770		3.86	41.5	780	21.1	73.3	0.001	0.15	0.50	8.1	3.3	2.2	35.2	<0.01	0.04	2.5
ZZ84771		1.76	20.8	730	18.3	39.8	<0.001	0.08	0.53	2.9	0.7	1.4	28.7	<0.01	0.02	0.7
ZZ84772		3.23	46.0	790	19.1	94.2	<0.001	0.12	0.18	11.4	1.8	2.5	42.1	<0.01	0.01	2.9
ZZ84773		3.27	42.8	780	21.3	104.0	<0.001	0.13	0.14	12.1	1.7	2.9	43.2	<0.01	0.03	2.6
ZZ84774		3.97	42.7	750	19.9	93.1	<0.001	0.14	0.13	12.0	1.8	2.6	43.6	<0.01	0.02	2.4
ZZ84775		2.54	29.7	600	29.9	43.4	<0.001	0.07	0.32	4.4	0.8	1.7	30.6	<0.01	0.01	1.7
ZZ84776		1.98	34.2	800	34.6	64.9	<0.001	0.06	1.29	6.1	0.5	2.4	32.6	<0.01	0.02	4.3
ZZ84777		4.33	29.7	700	27.8	100.5	<0.001	0.06	2.53	8.1	0.6	2.6	26.1	<0.01	0.01	2.8
ZZ84778		3.80	33.7	620	29.4	105.0	<0.001	0.07	1.95	10.6	0.7	2.9	30.8	<0.01	0.02	2.9
ZZ84779		2.45	39.4	960	18.6	93.1	<0.001	0.06	0.48	10.3	0.7	2.5	25.9	<0.01	0.01	3.3
ZZ84780		5.00	40.5	650	22.9	103.0	<0.001	0.10	0.13	11.1	0.5	2.7	28.7	<0.01	0.01	2.8
ZZ84781		0.78	45.4	970	29.5	74.7	0.002	0.38	0.10	8.4	4.4	1.6	143.5	<0.01	0.05	4.1
ZZ84782		0.71	66.9	920	30.9	89.1	<0.001	0.12	0.17	11.1	1.8	2.2	28.9	<0.01	0.02	4.1
ZZ84785		0.67	8.1	1170	9.0	17.5	<0.001	0.18	0.34	0.5	2.3	0.8	10.7	<0.01	0.03	<0.2
ZZ84786		0.51	18.4	790	29.5	27.4	<0.001	0.11	0.91	0.7	1.0	0.8	10.7	<0.01	0.03	0.4
ZZ84787		3.23	40.7	550	23.5	85.5	<0.001	0.08	0.51	6.6	1.0	2.1	19.1	<0.01	0.03	2.9
ZZ84788		0.46	16.1	730	7.8	14.9	<0.001	0.07	0.24	0.7	0.8	0.6	15.3	<0.01	<0.01	0.2
ZZ84789		4.53	33.9	490	18.4	58.4	<0.001	0.06	0.54	5.6	1.0	1.8	15.6	<0.01	0.04	2.2
ZZ84790		4.20	32.1	450	17.9	59.3	<0.001	0.05	0.57	6.0	0.9	1.7	11.5	<0.01	0.02	2.4
ZZ84791		2.92	33.1	630	16.9	53.0	<0.001	0.05	0.50	5.8	0.8	1.5	17.6	<0.01	0.01	3.0
ZZ84792		3.84	34.9	740	17.6	64.4	<0.001	0.08	0.40	6.3	0.7	1.8	15.9	<0.01	0.01	1.3
ZZ84793		3.74	32.7	620	19.5	73.6	<0.001	0.07	0.48	6.6	0.8	2.0	17.1	<0.01	0.03	1.4
ZZ84794		3.79	38.1	630	26.3	68.9	<0.001	0.12	0.79	6.9	1.6	1.7	26.1	<0.01	0.03	1.9
ZZ84795		3.31	74.2	820	38.5	71.6	<0.001	0.21	0.88	7.3	2.7	1.7	84.9	<0.01	0.04	2.7
ZZ84796		1.52	36.2	810	15.7	28.6	<0.001	0.12	0.54	2.3	0.7	1.1	39.8	<0.01	0.02	0.3
ZZ84822		1.53	19.4	860	15.0	22.5	<0.001	0.02	0.87	3.7	0.7	1.0	19.4	<0.01	0.03	4.8
ZZ84823		1.62	19.9	960	14.9	22.2	<0.001	0.02	0.74	2.8	0.8	1.0	14.1	<0.01	0.02	4.8
ZZ84824		1.56	23.1	820	32.5	29.6	<0.001	0.02	0.86	2.6	0.6	1.3	11.1	<0.01	0.02	5.1
ZZ84825		0.81	8.9	1300	13.7	13.6	<0.001	0.17	0.64	0.5	0.5	1.0	26.3	<0.01	0.01	<0.2
ZZ84826		0.38	1.6	390	2.2	2.3	<0.001	0.03	0.08	0.4	0.3	<0.2	8.1	<0.01	0.01	0.3
ZZ84827		1.77	18.8	1000	11.2	23.0	<0.001	0.01	0.60	4.1	0.6	1.0	26.1	<0.01	0.02	6.4
ZZ84805		3.27	42.0	1100	18.8	58.9	<0.001	0.17	0.48	4.5	1.0	1.7	45.1	0.01	0.03	1.1
ZZ84806		3.10	62.5	700	18.7	55.2	<0.001	0.11	0.65	7.7	1.4	2.0	82.1	<0.01	0.02	2.8
ZZ84807		2.51	25.6	710	17.1	44.1	<0.001	0.12	0.61	3.3	1.1	1.3	25.8	<0.01	0.04	0.7
ZZ84808		1.33	11.9	530	7.7	31.8	<0.001	0.10	0.30	1.7	0.7	0.8	21.0	<0.01	0.03	0.3
ZZ84809		1.88	70.9	700	18.2	48.6	0.001	0.21	1.48	6.2	2.5	1.6	85.2	<0.01	0.05	2.9

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Finalized Date: 28- AUG- 2013
Account: RANSIL

Project: KEG - HAMMER REGION

CERTIFICATE OF ANALYSIS WH13146490

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ84770		0.197	0.57	7.69	95	0.43	6.89	163	0.5
ZZ84771		0.089	0.25	7.32	40	2.79	4.55	87	0.5
ZZ84772		0.264	0.61	4.44	89	0.32	7.26	148	0.5
ZZ84773		0.280	0.69	4.35	88	0.47	7.28	141	<0.5
ZZ84774		0.267	0.64	3.45	92	0.53	6.86	139	<0.5
ZZ84775		0.104	0.36	15.50	40	0.47	6.93	98	0.7
ZZ84776		0.136	0.51	17.85	48	0.46	8.17	159	1.2
ZZ84777		0.182	0.78	6.47	57	0.25	5.72	128	0.8
ZZ84778		0.244	0.70	6.92	71	0.29	5.77	131	0.7
ZZ84779		0.253	0.61	5.23	73	0.25	9.00	120	0.7
ZZ84780		0.238	0.62	4.68	74	0.29	5.74	139	<0.5
ZZ84781		0.130	0.79	12.05	143	0.26	7.57	189	2.0
ZZ84782		0.216	0.59	8.07	104	0.49	9.43	217	1.6
ZZ84785		0.040	0.23	2.29	79	0.34	1.80	68	<0.5
ZZ84786		0.023	0.26	4.66	38	0.24	4.75	171	<0.5
ZZ84787		0.197	0.52	3.44	77	0.43	4.69	227	0.6
ZZ84788		0.054	0.18	5.82	43	0.11	2.66	94	<0.5
ZZ84789		0.181	0.40	2.08	68	0.94	3.22	132	0.5
ZZ84790		0.191	0.37	1.72	69	0.36	3.58	109	0.5
ZZ84791		0.152	0.36	3.15	49	0.26	5.48	98	<0.5
ZZ84792		0.199	0.41	2.68	66	0.25	6.20	112	<0.5
ZZ84793		0.204	0.41	2.04	70	0.33	3.79	104	<0.5
ZZ84794		0.202	0.45	2.70	87	0.42	4.01	135	<0.5
ZZ84795		0.185	0.52	8.53	105	0.33	11.20	203	0.6
ZZ84796		0.066	0.22	2.71	40	0.52	8.11	77	<0.5
ZZ84822		0.074	0.24	2.67	46	0.36	8.65	75	0.9
ZZ84823		0.079	0.27	3.62	44	0.32	6.54	76	0.9
ZZ84824		0.061	0.28	6.31	38	0.27	7.36	102	0.8
ZZ84825		0.020	0.27	9.81	22	0.13	7.24	47	<0.5
ZZ84826		0.025	0.05	2.41	12	<0.05	1.63	7	0.6
ZZ84827		0.092	0.20	4.13	45	0.26	12.00	74	2.3
ZZ84805		0.137	0.33	2.45	62	2.75	7.96	132	<0.5
ZZ84806		0.143	0.37	2.78	61	1.02	9.59	137	0.5
ZZ84807		0.123	0.29	1.90	64	1.33	2.89	109	<0.5
ZZ84808		0.090	0.20	1.23	63	0.41	1.45	62	<0.5
ZZ84809		0.116	0.57	5.36	124	1.36	5.96	269	0.5

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Finalized Date: 28-AUG-2013
Account: RANSIL

Project: KEG - HAMMER REGION

CERTIFICATE OF ANALYSIS WH13146490

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
ME-MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
LOG-22 SCR-41 WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-ICP21 ME-MS41

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VANCOUVER BC V6B 1L8

Finalized Date: 3-SEP-2013
Account: RANSIL

CERTIFICATE WH13150590

Project: Rose

P.O. No.:

This report is for 30 Rock samples submitted to our lab in Whitehorse, YT, Canada on 19-AUG-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70%<2mm
CRU-QC	Crushing QC Test
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test
PUL-31	Pulverize split to 85%<75 um

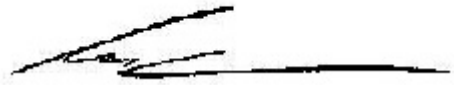
ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature: 

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 3- SEP- 2013
Account: RANSIL

Project: Rose

CERTIFICATE OF ANALYSIS WH13150590

Sample Description	Method	WEI-21	Au-AA24	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M676965		1.12	0.009	0.06	0.60	6.0	4140	0.19	0.03	0.02	0.02	6.77	1.4	9	0.60	12.5
M676966		1.33	<0.005	0.05	0.27	1.7	6030	0.08	0.02	0.02	<0.02	3.32	0.3	6	0.14	7.5
M676967		1.42	<0.005	0.05	0.11	1.1	4230	<0.05	0.01	<0.01	<0.02	1.16	0.1	3	0.09	1.9
M676968		1.42	<0.005	0.22	0.48	0.5	1650	0.51	0.05	0.34	0.89	3.81	7.9	10	0.66	95.9
M676969		1.07	<0.005	0.01	2.60	1.0	7000	0.36	0.11	0.03	<0.02	23.4	14.7	34	1.90	29.7
M676970		0.99	<0.005	0.04	2.68	2.7	7150	0.94	0.13	0.12	0.04	27.2	4.5	53	4.51	79.5
M676971		1.19	<0.005	0.12	0.80	1.1	3030	0.31	0.06	0.01	<0.02	10.55	0.3	17	1.21	8.3
M676972		1.16	0.015	0.06	3.03	76.1	>10000	0.68	0.15	0.01	0.02	35.9	4.7	56	1.91	43.2
M676973		1.18	<0.005	0.20	1.24	4.0	1670	0.18	0.43	0.01	0.03	12.60	1.3	30	0.57	38.1
M676974		1.30	<0.005	0.05	5.51	2.1	4100	0.79	0.19	0.64	0.03	49.9	5.2	27	1.04	27.1
M676975		1.01	0.009	0.48	0.49	10.5	1060	0.50	0.06	<0.01	<0.02	4.49	0.2	28	0.33	7.8
M676976		1.03	<0.005	0.04	1.25	1.6	1450	0.37	0.12	0.11	0.06	11.90	3.3	27	0.53	23.9
M676977		1.18	<0.005	0.07	1.28	0.7	670	0.12	0.13	0.94	0.05	8.83	1.7	18	1.16	6.9
M676978		1.05	0.029	0.15	0.65	37.7	290	0.06	0.03	0.04	<0.02	1.26	2.0	64	0.83	4.4
M676979		1.30	<0.005	0.02	0.29	14.9	800	0.16	0.01	0.02	<0.02	0.27	0.7	39	1.14	2.3
M676980		1.08	0.049	0.08	0.96	69.0	510	0.08	0.01	0.03	<0.02	3.49	1.1	51	0.77	2.8
M676981		0.92	<0.005	0.12	5.09	9.9	610	0.50	0.02	6.22	0.05	9.47	23.2	49	6.38	71.7
L840385		1.37	<0.005	0.11	0.57	2.6	190	0.06	0.01	1.14	0.02	0.07	54.5	1100	1.68	15.7
L840386		1.12	<0.005	0.03	0.46	5.4	190	0.06	0.01	0.07	<0.02	1.05	1.2	75	0.38	3.4
L840387		1.10	0.190	0.07	0.61	70.1	220	0.07	0.02	0.03	0.03	4.10	0.9	71	0.52	3.0
K280925		1.02	<0.005	0.02	3.45	2.3	2420	1.15	0.19	0.03	0.02	41.0	13.5	43	4.00	33.2
K280926		1.79	<0.005	0.01	0.85	6.7	60	0.10	<0.01	1.20	0.04	5.54	3.7	33	0.12	1.5
K280927		1.12	<0.005	0.04	1.01	0.8	1540	0.26	0.06	0.02	0.38	6.60	2.8	22	0.42	21.8
K280928		0.96	<0.005	0.13	5.90	2.6	7960	2.39	0.21	0.16	2.03	74.4	13.1	44	5.66	89.2
K280929		1.20	0.005	0.21	1.64	9.4	3800	0.41	0.07	0.02	0.08	12.05	1.6	26	1.60	31.9
K280930		1.64	<0.005	0.01	5.74	1.4	1280	0.53	0.05	6.64	0.11	11.55	24.5	121	3.93	47.4
K280931		1.36	<0.005	0.02	2.45	<5	1280	0.34	0.06	14.10	0.24	19.55	20.5	27	1.03	18.5
K280932		1.43	<0.005	0.04	3.42	11	1010	0.45	0.08	10.75	0.11	7.09	19.9	73	2.12	21.3
K280933		1.30	<0.005	0.03	5.29	4.7	1840	0.40	0.04	6.56	0.12	10.05	25.7	119	1.06	32.4
K280934		1.06	<0.005	0.04	1.87	1.1	2220	0.50	0.11	0.55	0.10	20.3	4.5	42	2.11	52.5

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To: **SILVER RANGE RESOURCES LTD.**
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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: Rose

Finalized Date: 3- SEP- 2013
Account: RANSIL

CERTIFICATE OF ANALYSIS WH13150590

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
M676965		0.45	2.25	0.09	0.3	<0.005	0.13	3.2	6.5	0.03	12	2.13	<0.01	1.4	7.1	180
M676966		0.30	1.07	0.12	0.1	<0.005	0.02	1.9	5.7	0.01	18	1.45	<0.01	0.6	1.7	90
M676967		0.08	0.50	0.10	0.1	<0.005	0.02	0.6	1.3	0.01	<5	1.84	<0.01	0.3	0.5	50
M676968		6.12	1.54	0.06	0.1	<0.005	0.10	2.4	2.7	0.05	554	4.39	0.02	0.9	41.5	570
M676969		3.66	15.35	0.07	0.9	0.024	0.39	10.7	25.5	0.78	453	0.37	<0.01	2.9	88.2	260
M676970		1.59	11.15	0.11	1.4	0.021	1.06	13.2	14.0	0.33	563	0.33	<0.01	4.5	23.7	350
M676971		0.38	3.52	0.08	0.5	<0.005	0.25	5.0	7.0	0.06	12	0.68	<0.01	1.8	3.7	80
M676972		2.09	10.30	0.12	1.3	0.017	1.56	16.7	14.0	0.51	224	0.92	0.03	5.5	27.2	180
M676973		2.89	2.49	0.07	0.5	0.008	0.15	5.7	16.9	0.04	132	3.87	<0.01	2.3	15.6	560
M676974		1.87	11.25	0.13	3.6	0.027	0.87	24.1	13.4	0.58	1630	0.21	2.96	8.4	15.6	340
M676975		0.50	1.53	0.08	0.3	<0.005	0.24	2.3	3.0	0.05	42	5.79	0.01	1.1	3.8	40
M676976		0.94	3.12	0.08	0.6	0.005	0.41	5.5	4.7	0.20	992	0.20	0.37	1.9	11.4	140
M676977		0.91	2.19	0.08	0.5	<0.005	0.15	6.7	2.6	0.19	1320	0.16	0.75	0.9	3.9	150
M676978		0.89	1.56	0.06	0.2	<0.005	0.14	0.5	25.2	0.03	55	0.50	0.01	0.3	5.4	10
M676979		0.85	3.17	0.06	<0.1	<0.005	0.05	<0.5	29.2	0.01	72	0.32	0.01	0.1	4.0	20
M676980		1.05	2.91	0.06	0.1	<0.005	0.25	1.3	37.0	0.06	56	0.63	0.01	0.2	4.3	10
M676981		5.51	9.37	0.10	1.9	0.045	0.83	2.9	29.6	3.47	1400	0.10	0.58	2.5	34.2	180
L840385		4.04	1.27	0.05	<0.1	<0.005	0.08	<0.5	14.0	16.40	682	0.09	0.01	<0.1	1120	10
L840386		0.46	1.09	<0.05	0.1	<0.005	0.10	<0.5	21.7	0.08	59	0.48	0.01	0.2	7.4	10
L840387		0.83	1.53	0.05	0.2	<0.005	0.17	2.0	23.1	0.13	60	1.26	0.01	0.6	14.6	10
K280925		2.12	12.35	0.10	1.9	0.024	1.46	16.4	16.9	0.54	1430	0.70	0.02	6.6	39.6	170
K280926		1.31	2.15	0.09	0.1	<0.005	0.05	2.7	10.0	1.18	171	0.28	0.03	0.9	16.3	610
K280927		0.71	2.01	0.07	0.3	<0.005	0.27	3.0	7.6	0.14	270	0.55	0.01	1.3	18.2	90
K280928		3.58	19.10	0.14	3.7	0.058	3.15	36.0	26.6	1.29	3060	2.42	0.02	11.8	52.3	600
K280929		1.36	3.69	0.06	0.5	<0.005	0.34	5.7	9.0	0.08	81	2.06	<0.01	1.8	20.3	180
K280930		5.31	12.90	0.08	2.0	0.058	0.67	3.7	20.2	2.27	1310	0.15	2.57	1.9	48.1	430
K280931		5.87	3.50	0.06	1.0	0.040	0.24	8.9	3.9	3.85	4120	0.19	1.44	2.2	44.1	630
K280932		5.70	7.26	0.06	1.2	0.034	0.55	2.5	10.3	4.33	3050	0.19	1.41	1.2	45.5	240
K280933		6.08	10.20	0.07	1.9	0.057	0.26	3.2	13.4	2.37	1810	0.15	3.18	2.0	53.1	390
K280934		1.20	7.30	0.05	0.9	0.023	0.68	7.3	9.0	0.39	1220	0.34	0.03	2.6	19.5	140

***** See Appendix Page for comments regarding this certificate *****

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VANCOUVER BC V6B 1L8

Finalized Date: 3- SEP- 2013
Account: RANSIL

Project: Rose

CERTIFICATE OF ANALYSIS WH13150590

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
M676965		4.5	11.4	<0.002	0.10	0.75	2.3	1	0.2	934	0.10	<0.05	1.0	0.045	0.11	0.6
M676966		2.9	2.2	<0.002	0.07	0.19	0.8	1	0.2	248	0.05	<0.05	0.4	0.019	0.03	0.2
M676967		0.5	1.5	<0.002	0.07	0.18	0.3	<1	<0.2	223	<0.05	<0.05	0.2	0.010	0.02	0.1
M676968		2.2	10.0	<0.002	0.33	0.17	1.7	1	<0.2	441	<0.05	<0.05	0.3	0.021	0.07	0.4
M676969		1.5	28.8	<0.002	0.16	0.34	9.5	1	0.9	47.2	0.19	0.05	3.1	0.122	0.11	0.6
M676970		4.4	71.5	<0.002	0.14	0.87	8.7	1	0.8	50.6	0.31	0.07	4.9	0.156	0.31	1.2
M676971		2.2	23.5	<0.002	0.12	0.33	3.2	1	0.4	499	0.13	<0.05	1.6	0.057	0.47	0.8
M676972		5.1	54.3	<0.002	0.18	0.55	8.6	1	0.8	69.9	0.39	0.08	5.4	0.172	1.02	1.3
M676973		54.8	7.5	<0.002	0.10	0.48	3.9	1	0.3	58.3	0.14	0.05	2.0	0.069	0.14	0.5
M676974		26.8	36.0	<0.002	0.09	0.25	6.5	1	1.3	288	0.54	<0.05	14.7	0.149	0.24	3.2
M676975		4.8	11.7	<0.002	0.02	0.75	1.9	1	0.2	8.6	0.07	0.05	0.9	0.027	0.12	1.0
M676976		9.5	17.1	<0.002	0.01	0.21	2.8	<1	0.5	42.2	0.13	<0.05	2.3	0.048	0.10	0.6
M676977		16.5	5.6	<0.002	<0.01	0.13	1.5	<1	0.2	261	0.06	<0.05	1.9	0.022	0.03	0.5
M676978		1.0	9.2	<0.002	0.04	7.78	1.9	<1	0.2	8.1	<0.05	0.05	0.2	0.052	0.11	<0.1
M676979		<0.5	3.1	<0.002	0.02	14.25	0.5	<1	<0.2	7.7	<0.05	<0.05	<0.2	0.008	0.05	<0.1
M676980		1.5	15.3	<0.002	0.03	2.94	3.2	<1	0.2	12.3	<0.05	<0.05	0.2	0.056	0.20	<0.1
M676981		2.7	40.5	0.002	0.20	3.31	27.2	2	0.7	517	0.12	<0.05	0.2	0.673	0.51	0.1
L840385		<0.5	6.2	<0.002	0.14	7.63	7.5	<1	<0.2	162.5	<0.05	<0.05	<0.2	0.011	0.07	<0.1
L840386		0.5	5.5	<0.002	0.01	1.74	1.3	<1	<0.2	9.9	<0.05	<0.05	<0.2	0.018	0.07	<0.1
L840387		2.5	8.8	<0.002	0.05	2.98	1.3	1	0.3	5.7	<0.05	<0.05	0.6	0.026	0.11	0.2
K280925		15.3	68.1	<0.002	0.01	0.51	10.2	1	1.3	13.6	0.48	0.05	6.2	0.190	0.38	1.2
K280926		5.2	2.4	<0.002	<0.01	0.34	1.9	<1	0.2	34.6	0.05	<0.05	0.4	0.038	<0.02	0.1
K280927		8.0	11.9	<0.002	0.01	0.29	1.6	<1	0.3	13.1	0.08	<0.05	1.4	0.022	0.08	0.8
K280928		26.4	142.0	<0.002	0.01	0.80	11.1	2	2.6	69.3	1.02	<0.05	17.6	0.203	0.88	4.9
K280929		4.5	20.8	<0.002	0.10	1.02	3.2	1	0.4	41.4	0.13	<0.05	2.0	0.052	0.31	1.0
K280930		2.4	29.9	<0.002	0.03	0.95	28.6	1	0.8	393	0.13	<0.05	0.4	0.671	0.18	0.1
K280931		8.5	8.8	<0.002	0.02	0.43	11.1	1	0.4	1380	0.13	<0.05	1.6	0.135	0.07	0.6
K280932		5.6	20.5	<0.002	0.05	1.05	18.5	1	0.5	1030	0.07	0.05	0.2	0.402	0.13	0.1
K280933		3.5	10.5	<0.002	0.09	1.48	29.4	2	0.6	715	0.12	<0.05	0.2	0.705	0.06	0.2
K280934		4.9	32.5	<0.002	0.05	0.60	6.0	1	0.6	38.4	0.16	0.06	2.3	0.102	0.24	0.7

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Finalized Date: 3- SEP- 2013
Account: RANSIL

Project: Rose

CERTIFICATE OF ANALYSIS WH13150590

Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
M676965		21	0.3	3.0	37	13.2
M676966		17	0.1	1.5	8	8.0
M676967		9	0.1	0.5	<2	2.7
M676968		40	0.5	9.5	187	7.2
M676969		42	0.8	7.6	108	33.7
M676970		68	1.0	10.3	57	56.8
M676971		30	0.3	2.8	11	20.5
M676972		50	0.8	6.8	33	50.5
M676973		19	0.6	3.1	63	22.2
M676974		35	0.7	17.7	58	129.0
M676975		46	0.7	1.6	9	14.5
M676976		18	0.2	5.4	22	23.3
M676977		6	0.2	6.2	23	17.9
M676978		12	0.1	1.2	4	4.7
M676979		5	<0.1	0.4	2	0.8
M676980		29	0.1	3.2	2	6.3
M676981		200	0.4	36.0	57	63.6
L840385		34	<0.1	0.7	32	<0.5
L840386		12	<0.1	1.2	4	2.9
L840387		12	<0.1	1.6	19	9.3
K280925		62	1.1	9.4	64	65.9
K280926		12	0.1	5.7	25	4.7
K280927		10	0.3	3.8	92	13.0
K280928		77	2.0	25.0	505	115.0
K280929		35	1.0	2.8	41	20.3
K280930		248	0.3	21.4	62	63.7
K280931		117	0.2	17.2	125	40.0
K280932		166	0.5	15.6	79	46.9
K280933		215	0.5	20.7	61	65.0
K280934		35	0.5	6.3	41	37.0

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: Rose

Finalized Date: 3-SEP-2013
Account: RANSIL

CERTIFICATE OF ANALYSIS WH13150590

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

Interference: Samples with Ca>10%on ICP-MS As. ICP-AES As results reported (5 ppm DL)
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-22	PUL-31
	PUL-QC	SPL-21	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au-AA24	ME-MS61

ALS Canada Ltd.
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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 6-SEP-2013
Account: RANSIL

CERTIFICATE WH13150591

Project: Rose

P.O. No.:

This report is for 20 Soil samples submitted to our lab in Whitehorse, YT, Canada on 19-AUG-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS41	51 anal. aqua regia ICPMS	

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 6-SEP-2013
Account: RANSIL

Project: Rose

CERTIFICATE OF ANALYSIS WH13150591

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ84810		0.46	0.004	0.16	1.40	8.6	<0.2	<10	560	0.43	0.15	0.32	0.25	38.1	12.0	52
ZZ84811		0.30	0.004	0.53	1.00	8.4	<0.2	<10	460	0.28	0.14	0.17	0.26	18.85	7.0	33
ZZ84812		0.40	0.004	0.27	1.20	4.5	<0.2	<10	730	0.46	0.14	0.37	0.36	30.9	10.0	37
ZZ84813		0.38	0.005	0.45	1.72	8.4	<0.2	<10	920	0.51	0.21	0.24	0.34	27.6	9.2	44
ZZ84814		0.37	0.003	0.23	1.04	7.4	<0.2	<10	540	0.34	0.16	0.16	0.39	23.6	8.2	29
ZZ84815		0.33	0.001	0.07	0.72	5.9	<0.2	<10	70	0.11	0.17	0.04	0.08	13.80	2.8	23
ZZ84816		0.30	0.002	0.10	0.31	1.6	<0.2	<10	140	0.05	0.06	0.09	0.06	5.33	2.1	11
ZZ84817		0.23	0.014	0.80	1.10	9.5	<0.2	<10	790	0.37	0.19	0.22	0.16	20.6	9.2	24
ZZ84818		0.36	0.011	0.10	0.77	12.5	<0.2	<10	110	0.14	0.28	0.03	0.10	24.0	4.2	26
ZZ84819		0.35	0.006	0.44	0.88	7.1	<0.2	<10	850	0.31	0.15	0.35	0.25	17.90	8.4	28
ZZ84820		0.35	0.010	0.65	0.78	4.4	<0.2	<10	870	0.21	0.14	0.13	0.48	15.30	12.6	45
ZZ84821		0.25	0.004	0.24	0.83	13.8	<0.2	<10	710	0.17	0.26	0.07	0.20	18.30	6.9	71
ZZ84828		0.26	0.001	0.11	0.27	0.8	<0.2	<10	220	0.06	0.03	0.07	0.08	3.61	0.7	4
ZZ84829		0.32	0.007	0.51	1.54	9.9	<0.2	<10	2100	0.57	0.26	0.38	0.75	28.3	14.1	39
ZZ84830		0.24	0.002	0.24	0.27	0.4	<0.2	<10	290	0.09	0.03	0.31	0.25	6.13	2.8	3
ZZ84831		0.41	0.009	0.20	0.98	11.9	<0.2	<10	1150	0.34	0.26	0.10	0.63	19.65	17.9	99
ZZ84832		0.27	0.005	0.27	0.96	8.3	<0.2	<10	1150	0.26	0.16	0.17	0.48	23.7	12.7	75
ZZ84833		0.41	0.004	0.14	1.42	9.5	<0.2	<10	790	0.43	0.16	0.31	0.37	45.1	14.7	57
ZZ84834		0.32	0.002	0.06	0.26	2.3	<0.2	<10	160	0.06	0.09	0.11	0.08	13.05	1.6	22
ZZ84835		0.26	0.003	0.62	0.46	1.8	<0.2	<10	690	0.15	0.07	0.13	0.54	11.05	4.6	28

***** See Appendix Page for comments regarding this certificate *****

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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 6-SEP-2013
Account: RANSIL

Project: Rose

CERTIFICATE OF ANALYSIS WH13150591

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ84810		0.70	36.8	2.52	4.78	0.06	<0.02	0.04	0.022	0.05	20.7	12.5	0.80	352	1.70	0.02
ZZ84811		0.63	27.7	1.93	3.55	<0.05	<0.02	0.09	0.016	0.06	10.4	7.7	0.43	303	5.00	0.02
ZZ84812		0.63	35.8	1.84	4.04	0.05	0.03	0.06	0.018	0.04	15.9	9.9	0.57	250	1.09	0.02
ZZ84813		1.14	35.9	2.27	5.10	0.05	0.04	0.09	0.024	0.08	15.1	14.8	0.59	339	2.70	0.01
ZZ84814		0.68	30.3	1.85	3.81	<0.05	<0.02	0.04	0.018	0.06	12.5	9.0	0.38	581	3.56	0.01
ZZ84815		0.53	10.7	1.55	5.00	<0.05	<0.02	0.01	0.010	0.03	7.4	2.8	0.15	166	1.32	0.01
ZZ84816		0.28	10.6	0.91	2.14	<0.05	<0.02	0.03	0.005	0.02	3.0	1.9	0.08	58	0.44	0.02
ZZ84817		1.05	38.2	1.66	3.68	<0.05	<0.02	0.10	0.017	0.05	12.4	7.7	0.26	1880	2.57	0.02
ZZ84818		0.74	21.8	2.62	6.48	<0.05	<0.02	0.02	0.016	0.03	12.6	2.8	0.14	202	3.10	<0.01
ZZ84819		0.93	35.5	1.98	3.52	<0.05	<0.02	0.06	0.018	0.05	10.2	7.7	0.32	973	2.54	0.02
ZZ84820		0.80	23.3	1.48	3.11	<0.05	<0.02	0.10	0.015	0.05	7.9	4.7	0.26	1400	1.19	0.02
ZZ84821		0.68	26.9	2.82	4.84	<0.05	<0.02	0.03	0.020	0.04	9.9	3.4	0.18	253	3.93	0.01
ZZ84828		0.16	8.1	0.34	0.99	<0.05	<0.02	0.03	<0.005	0.03	2.5	0.5	0.03	51	0.38	0.03
ZZ84829		0.86	42.9	2.60	4.85	0.05	0.05	0.13	0.027	0.09	15.3	12.3	0.48	795	3.37	0.01
ZZ84830		0.15	9.8	0.48	0.97	<0.05	<0.02	0.04	<0.005	0.03	3.1	0.5	0.06	330	0.40	0.04
ZZ84831		0.74	26.2	2.58	4.06	<0.05	<0.02	0.02	0.021	0.04	9.7	6.0	0.56	881	2.38	0.01
ZZ84832		0.96	38.6	2.11	3.47	<0.05	<0.02	0.03	0.026	0.06	12.2	9.6	0.77	781	2.09	0.02
ZZ84833		0.59	39.9	2.83	4.67	0.08	<0.02	0.04	0.021	0.05	24.3	14.1	0.95	395	2.13	0.01
ZZ84834		0.54	8.4	0.68	2.43	<0.05	<0.02	0.01	<0.005	0.02	6.9	0.7	0.04	41	1.10	0.01
ZZ84835		0.37	19.7	0.73	1.64	<0.05	<0.02	0.04	0.009	0.03	5.8	1.9	0.18	367	0.63	0.03

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 6-SEP-2013
Account: RANSIL

Project: Rose

CERTIFICATE OF ANALYSIS WH13150591

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ84810		0.86	45.3	960	8.9	6.2	<0.001	0.01	0.89	3.8	1.3	0.3	23.2	<0.01	0.02	3.2
ZZ84811		0.50	26.3	860	9.2	6.2	0.001	0.02	1.96	1.6	1.0	0.3	21.5	<0.01	0.04	0.6
ZZ84812		0.69	32.3	960	8.0	5.5	0.001	0.02	0.58	3.1	1.1	0.3	23.9	<0.01	0.02	2.1
ZZ84813		0.79	40.3	980	11.9	10.3	<0.001	0.02	0.85	3.3	1.3	0.4	20.7	<0.01	0.04	1.9
ZZ84814		0.61	28.3	770	9.9	6.9	0.001	0.02	0.96	1.9	1.2	0.3	17.7	<0.01	0.03	1.2
ZZ84815		0.74	11.3	260	6.7	4.1	<0.001	0.01	0.56	0.7	0.4	0.5	6.6	<0.01	0.01	0.2
ZZ84816		0.40	4.8	340	3.4	2.6	<0.001	0.02	0.13	0.7	0.3	<0.2	12.1	<0.01	<0.01	0.2
ZZ84817		0.74	24.8	720	9.8	9.1	<0.001	0.04	0.53	2.2	1.3	0.3	25.0	<0.01	0.02	0.6
ZZ84818		1.54	17.0	430	11.0	5.4	<0.001	0.02	1.23	1.3	0.9	0.7	7.7	<0.01	0.05	1.0
ZZ84819		0.44	28.6	890	8.7	7.5	0.001	0.04	0.83	1.5	1.5	0.3	36.5	<0.01	0.03	0.3
ZZ84820		0.38	25.6	950	9.0	7.6	<0.001	0.04	0.45	1.4	0.7	0.2	18.7	<0.01	0.03	0.3
ZZ84821		0.74	31.7	1410	16.3	6.6	<0.001	0.05	1.58	1.2	1.5	0.5	21.3	<0.01	0.08	0.5
ZZ84828		0.26	4.8	310	1.2	1.5	<0.001	0.02	0.23	0.4	0.5	<0.2	9.7	<0.01	<0.01	<0.2
ZZ84829		0.90	35.8	1070	16.0	9.9	<0.001	0.03	1.37	3.9	1.5	0.4	30.1	<0.01	0.04	2.0
ZZ84830		0.25	3.8	630	2.0	1.7	<0.001	0.04	0.26	0.5	0.2	<0.2	19.2	<0.01	<0.01	<0.2
ZZ84831		0.93	66.0	1010	14.6	7.0	<0.001	0.03	1.08	1.7	1.0	0.4	16.3	<0.01	0.06	1.1
ZZ84832		0.43	94.7	1000	12.5	8.0	<0.001	0.04	1.05	1.2	0.9	0.2	21.3	<0.01	0.03	0.3
ZZ84833		0.66	54.7	1160	9.9	5.2	<0.001	0.01	1.13	4.0	1.0	0.3	25.8	<0.01	0.03	4.2
ZZ84834		0.32	7.3	190	2.8	3.4	<0.001	0.01	0.33	0.3	0.3	0.3	8.7	<0.01	0.01	<0.2
ZZ84835		0.33	32.0	580	3.4	4.0	<0.001	0.03	0.29	0.9	0.5	<0.2	13.1	<0.01	<0.01	0.2

***** See Appendix Page for comments regarding this certificate *****

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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 6-SEP-2013
Account: RANSIL

Project: Rose

CERTIFICATE OF ANALYSIS WH13150591

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ84810		0.038	0.09	0.79	44	0.14	9.05	72	<0.5
ZZ84811		0.021	0.13	0.74	54	0.16	4.25	59	<0.5
ZZ84812		0.024	0.08	0.87	35	0.48	8.29	58	1.0
ZZ84813		0.020	0.14	1.14	49	0.16	7.65	91	1.0
ZZ84814		0.019	0.10	0.77	35	0.13	5.04	71	0.5
ZZ84815		0.040	0.07	0.29	51	0.21	1.15	31	<0.5
ZZ84816		0.040	0.04	0.41	30	0.06	2.15	16	<0.5
ZZ84817		0.026	0.13	1.51	29	0.16	10.85	52	<0.5
ZZ84818		0.042	0.11	0.46	73	0.32	2.08	52	<0.5
ZZ84819		0.023	0.10	0.96	38	0.11	6.74	79	<0.5
ZZ84820		0.022	0.13	0.96	30	0.11	4.55	52	<0.5
ZZ84821		0.018	0.15	0.53	64	0.15	2.03	66	<0.5
ZZ84828		0.015	0.03	0.33	8	<0.05	2.04	8	<0.5
ZZ84829		0.022	0.14	1.75	53	0.18	11.95	90	1.4
ZZ84830		0.020	0.03	0.50	12	<0.05	2.96	10	<0.5
ZZ84831		0.034	0.15	0.76	46	0.17	3.27	70	<0.5
ZZ84832		0.024	0.12	0.91	38	0.12	4.61	93	<0.5
ZZ84833		0.032	0.08	0.97	43	0.12	9.50	86	0.5
ZZ84834		0.022	0.06	0.23	22	0.11	0.92	16	<0.5
ZZ84835		0.021	0.07	0.93	17	0.05	3.61	25	<0.5

***** See Appendix Page for comments regarding this certificate *****

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: Rose

Finalized Date: 6-SEP-2013
Account: RANSIL

CERTIFICATE OF ANALYSIS WH13150591

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
ME-MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
LOG-22 SCR-41 WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-ICP21 ME-MS41

ALS Canada Ltd.

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To: **SILVER RANGE RESOURCES LTD.**
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 24-SEP-2013
Account: RANSIL

CERTIFICATE WH13158589

Project: Snail

P.O. No.:

This report is for 64 Rock samples submitted to our lab in Whitehorse, YT, Canada on 30-AUG-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70%<2mm
CRU-QC	Crushing QC Test
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test
PUL-31	Pulverize split to 85%<75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
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North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**
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VANCOUVER BC V6B 1L8

Finalized Date: 24-SEP-2013
Account: RANSIL

Project: Snail

CERTIFICATE OF ANALYSIS WH13158589

Sample Description	Method	WEI-21	Au-AA24	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
K280935		1.33	<0.005	0.17	7.31	20.6	1000	1.10	1.33	3.54	0.12	66.2	8.6	24	3.91	92.1
K280936		1.30	<0.005	0.11	6.56	8.2	1000	1.68	1.73	1.88	0.23	64.9	4.8	12	10.30	82.5
K280937		1.71	0.006	1.61	2.19	6.9	120	1.25	1.76	7.44	1.13	183.5	59.0	26	0.35	3490
K280938		1.33	0.044	4.45	2.22	11.0	260	0.80	12.75	3.13	0.33	28.3	136.0	19	1.35	2870
K280939		1.19	0.008	1.39	4.35	7.5	510	1.55	0.56	9.67	0.38	40.4	21.4	31	4.26	526
K280940		1.13	<0.005	0.11	2.56	16	1510	1.37	0.58	13.35	1.98	38.7	5.8	24	6.30	36.0
K280941		1.31	<0.005	0.22	6.42	85.3	6180	1.59	1.33	2.03	0.05	61.7	4.3	11	7.31	68.5
K280942		1.05	<0.005	15.85	6.73	242	1150	1.73	22.8	1.43	3.70	70.1	6.3	9	9.41	105.0
K280943		0.94	<0.005	0.18	6.72	29.8	1140	1.40	0.55	2.44	0.08	59.6	5.8	13	10.10	41.2
K280944		1.10	0.006	2.62	3.75	40.4	1930	2.67	0.30	0.06	8.69	23.4	7.1	73	4.88	185.0
K280945		1.42	<0.005	0.56	3.10	6.6	1740	0.87	0.48	8.66	0.49	30.2	3.7	62	0.98	68.7
K280946		1.29	0.017	0.59	3.07	5	280	1.06	0.75	10.90	0.19	52.6	10.3	38	0.48	113.5
K280947		1.11	0.014	0.26	7.18	17.5	1480	1.42	6.12	2.10	0.72	71.6	4.1	11	12.15	127.0
K280948		1.36	0.159	16.15	4.01	>10000	280	1.03	53.4	0.43	0.73	26.7	101.5	13	7.66	19.9
K280949		1.03	0.793	2.39	2.89	75.3	620	0.65	6.71	3.62	0.20	32.0	3.9	109	1.57	185.5
K280950		1.17	0.029	9.12	6.63	3120	1060	1.34	36.5	2.00	1.50	57.2	6.5	13	7.95	1070
L840388		0.52	4.59	48.4	1.88	52.3	150	0.71	1820	0.76	1.92	10.55	2.8	21	7.21	181.0
L840389		0.62	0.029	1.54	6.03	37.4	1160	1.37	13.80	3.28	6.50	58.3	7.9	15	12.40	185.5
L840390		1.24	0.157	7.37	5.46	735	2990	1.54	205	4.54	10.20	55.4	23.1	71	4.07	3730
L840391		1.33	0.028	1.64	5.85	76.0	2300	1.83	22.4	7.90	2.81	60.0	14.0	71	5.02	238
L840392		1.22	0.020	5.92	5.63	34.5	3470	1.68	29.2	4.06	9.15	59.8	6.2	81	4.75	1035
L840393		1.61	1.080	17.30	4.24	>10000	220	0.73	1100	0.68	1.76	32.5	127.0	11	6.88	1275
L840394		0.76	0.035	4.63	7.03	1235	1830	1.24	11.20	1.67	0.28	56.9	5.8	12	7.36	533
L840395		1.36	0.034	1.50	7.94	1250	1610	1.36	12.05	1.90	1.01	59.1	6.0	13	11.55	187.0
L840396		0.95	<0.005	0.93	7.08	10.6	1990	2.22	1.68	2.64	0.32	62.9	2.7	23	4.97	50.4
L840397		1.26	0.006	1.14	7.63	20.3	1510	2.45	10.10	1.99	0.27	71.5	3.3	11	3.60	37.5
L840398		0.90	<0.005	0.54	5.95	3.5	1800	1.69	3.96	5.69	0.44	55.9	6.0	51	5.13	123.0
L840399		1.53	0.139	12.25	5.91	416	2040	1.76	130.0	1.68	7.02	64.4	26.2	76	3.01	6750
L840400		1.26	0.048	14.25	5.89	316	4750	1.97	39.5	3.83	9.95	46.7	6.8	78	5.67	3280
L840439		1.86	0.009	0.56	8.73	21.9	2540	1.38	2.64	0.85	0.32	42.3	31.8	82	4.21	229
L840440		2.29	<0.005	1.10	4.22	56.7	2090	1.70	6.11	1.55	1.03	25.5	3.4	105	6.64	250
L840441		2.06	<0.005	1.59	5.11	75.5	1760	1.84	6.25	1.73	2.12	37.5	7.4	144	7.46	317
L840442		1.97	<0.005	1.15	4.23	34.9	3200	1.62	5.35	1.72	1.79	34.3	4.1	92	10.30	215
L840443		2.03	<0.005	0.83	4.95	23.6	2220	1.64	0.86	0.05	1.16	30.9	3.8	122	7.41	129.0
L840444		2.33	<0.005	0.93	5.31	8.2	3630	2.11	0.98	1.38	0.30	43.0	2.5	139	6.37	96.2
L840445		1.95	<0.005	1.07	4.78	8.9	3300	2.21	1.29	3.12	1.17	49.7	6.3	117	7.42	272
L840446		1.99	<0.005	0.74	4.00	5.4	2090	1.03	0.79	0.08	0.36	24.9	1.3	91	6.55	63.0
L840447		2.16	<0.005	0.93	5.04	7.5	3320	1.89	1.34	0.14	0.42	34.3	1.1	125	5.22	62.0
L840448		1.65	<0.005	0.72	3.76	7.0	3730	1.69	1.49	3.26	1.43	32.8	3.5	80	6.73	148.0
L840449		1.70	<0.005	0.31	4.39	13.1	6560	1.15	0.28	1.18	0.83	44.7	6.1	76	6.14	37.9

***** See Appendix Page for comments regarding this certificate *****

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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 24-SEP-2013
Account: RANSIL

Project: Snail

CERTIFICATE OF ANALYSIS WH13158589

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
K280935		4.28	18.95	0.16	2.1	0.041	1.87	32.7	29.4	1.02	526	1.86	1.14	11.5	2.7	510
K280936		2.88	16.45	0.17	1.8	0.031	2.11	32.6	29.4	0.74	132	0.93	1.12	11.2	1.6	460
K280937		17.15	9.08	0.45	0.8	1.010	0.12	123.0	5.2	0.48	2010	5.29	0.34	3.5	45.4	260
K280938		26.7	5.80	0.52	0.4	0.064	0.80	15.8	6.8	1.80	288	6.11	0.11	5.3	378	150
K280939		7.45	16.05	0.25	1.7	0.059	0.65	23.8	20.7	8.46	430	1.65	0.08	13.8	57.4	1910
K280940		3.23	6.56	0.11	1.5	0.103	1.08	25.9	26.6	7.80	596	4.03	0.18	4.9	42.4	1340
K280941		2.94	18.45	0.18	1.4	0.065	3.31	29.0	26.7	0.80	224	2.28	0.99	11.6	2.0	550
K280942		3.91	19.10	0.18	1.2	1.320	3.02	35.2	27.6	0.83	250	0.83	0.52	7.9	2.3	440
K280943		3.41	17.85	0.16	1.0	0.054	2.45	28.5	28.6	0.83	376	9.23	1.08	10.7	1.8	570
K280944		2.03	11.10	0.22	1.3	0.050	1.55	19.0	37.5	0.27	74	74.9	0.13	4.7	77.3	430
K280945		4.02	9.85	0.21	1.3	0.058	1.42	16.4	31.0	3.90	668	1.70	0.25	7.2	19.8	830
K280946		9.13	9.64	0.25	1.1	0.307	0.62	35.5	29.6	3.93	3150	7.03	0.58	7.0	24.1	1060
K280947		3.53	18.80	0.18	1.6	0.059	3.20	35.5	31.9	0.87	189	3.92	1.27	10.7	2.2	550
K280948		5.62	10.75	0.44	1.8	0.132	2.49	13.0	15.8	0.34	46	0.47	0.20	5.5	2.0	240
K280949		8.03	14.40	0.20	1.6	0.515	0.97	17.4	8.9	0.79	1300	3.17	0.08	7.0	16.7	250
K280950		3.38	17.20	0.17	1.3	0.813	2.20	28.6	30.4	0.80	155	0.47	1.36	9.9	1.5	410
L840388		1.24	4.97	0.08	0.5	0.287	0.26	4.9	17.9	0.26	123	17.20	0.34	2.4	3.2	100
L840389		3.02	17.75	0.16	2.1	0.259	1.85	28.6	21.2	0.81	433	0.78	1.28	10.2	4.2	410
L840390		6.06	14.75	0.18	1.9	2.37	1.45	31.9	17.5	0.82	2760	3.57	0.18	12.7	44.1	780
L840391		3.22	15.80	0.15	1.6	0.200	1.23	34.0	20.6	1.09	522	9.30	0.21	12.8	47.3	730
L840392		2.09	15.50	0.15	1.5	0.438	2.33	33.7	15.2	0.78	310	3.24	0.22	13.5	31.4	1120
L840393		8.16	9.95	0.48	1.1	1.515	2.03	16.6	17.8	0.40	103	21.0	0.97	6.1	1.8	260
L840394		3.35	17.15	0.17	1.6	1.475	2.32	28.8	28.5	0.86	168	36.1	1.40	8.9	1.5	450
L840395		3.61	18.45	0.20	1.9	0.228	2.86	29.2	31.5	0.99	298	2.77	1.37	9.5	1.8	490
L840396		2.93	18.10	0.24	2.4	0.349	3.95	31.6	23.0	1.19	196	1.33	1.01	10.5	5.4	650
L840397		2.60	19.30	0.28	2.6	0.042	3.24	35.5	23.0	0.60	170	0.82	1.68	11.0	1.7	740
L840398		4.10	18.15	0.21	2.5	0.089	3.24	28.7	24.6	4.51	412	0.88	0.17	18.3	16.7	430
L840399		6.26	15.05	0.13	1.8	1.925	1.03	35.9	23.9	0.88	3060	2.68	0.09	11.1	43.6	1020
L840400		9.74	14.10	0.14	1.8	0.561	1.59	26.6	23.0	1.33	1520	1.89	0.10	11.3	54.2	760
L840439		9.06	27.4	0.17	2.0	0.123	3.29	15.6	64.3	2.66	192	1.42	1.04	27.3	62.4	1890
L840440		2.70	13.60	0.12	1.7	0.125	1.76	15.0	20.1	1.19	229	4.50	0.05	5.4	57.8	370
L840441		3.51	19.15	0.14	2.3	0.086	2.35	23.1	27.3	1.98	218	9.61	0.17	10.7	63.3	3910
L840442		2.42	14.65	0.20	1.9	0.077	1.99	19.8	27.0	1.40	169	8.14	0.08	12.9	50.9	4880
L840443		2.99	15.30	0.12	1.9	0.022	2.26	19.1	26.5	0.32	80	2.29	0.05	3.6	35.9	310
L840444		1.83	20.3	0.20	2.3	0.034	2.58	27.3	19.9	0.62	71	8.64	0.07	7.6	26.6	5330
L840445		2.63	16.95	0.18	2.3	0.094	2.21	30.4	21.4	2.14	258	10.00	0.12	13.2	92.7	4440
L840446		1.30	12.60	0.16	1.6	0.042	1.92	15.6	22.0	0.49	67	4.53	0.05	4.2	14.4	360
L840447		1.40	17.45	0.18	2.2	0.100	2.40	21.7	19.1	0.38	49	4.95	0.06	7.0	7.3	1060
L840448		1.97	11.95	0.21	1.4	0.067	1.89	19.2	19.2	1.83	183	4.97	0.07	8.6	38.3	7900
L840449		1.83	15.60	0.18	0.8	0.023	2.12	18.5	41.5	0.72	323	1.24	0.26	5.6	33.7	440

***** See Appendix Page for comments regarding this certificate *****

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Finalized Date: 24-SEP-2013
Account: RANSIL

Project: Snail

CERTIFICATE OF ANALYSIS WH13158589

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
K280935		8.9	81.7	0.002	0.93	0.28	20.7	3	20.4	224	0.78	0.08	11.9	0.422	0.80	2.0
K280936		14.4	121.5	<0.002	0.61	1.99	17.4	2	31.7	187.0	1.00	0.08	13.4	0.351	1.71	2.9
K280937		4.7	4.7	0.007	6.19	0.65	3.8	35	8.7	66.5	0.31	0.90	3.9	0.074	0.07	3.9
K280938		11.0	32.6	<0.002	>10.0	3.69	3.6	28	3.9	56.2	0.31	1.73	4.9	0.115	0.29	0.8
K280939		6.2	54.3	<0.002	3.91	1.91	10.4	26	2.2	464	0.86	0.32	8.2	0.224	0.45	2.8
K280940		7.0	45.7	0.007	0.26	1.05	6.5	2	6.4	459	0.33	<0.05	5.7	0.110	0.45	2.3
K280941		13.2	141.5	<0.002	0.54	1.68	17.4	2	30.1	414	0.83	<0.05	11.9	0.363	2.38	2.1
K280942		932	189.5	<0.002	1.27	26.1	17.2	4	203	170.0	0.64	0.09	13.4	0.317	3.08	2.0
K280943		15.3	129.5	0.002	0.59	2.77	17.9	2	89.1	253	0.78	<0.05	9.9	0.391	2.33	1.6
K280944		19.2	84.9	0.105	0.48	2.70	8.0	35	3.3	66.9	0.32	0.19	6.8	0.135	1.45	13.9
K280945		9.4	46.5	0.003	0.64	4.41	7.1	28	3.2	141.5	0.50	0.12	4.8	0.215	0.44	2.2
K280946		7.5	30.7	0.009	1.16	5.79	4.9	30	9.1	113.0	0.47	0.11	5.6	0.203	0.15	2.6
K280947		25.0	176.5	0.002	0.68	2.90	18.2	3	65.2	262	0.86	<0.05	13.6	0.375	2.65	2.2
K280948		411	149.5	<0.002	2.35	93.3	12.8	92	65.0	91.1	0.40	2.99	5.1	0.203	1.89	1.6
K280949		30.7	41.5	0.009	0.87	6.21	12.2	9	43.6	111.0	0.44	1.00	4.7	0.234	0.60	2.9
K280950		33.7	113.0	<0.002	1.01	5.74	18.2	10	56.4	213	0.78	0.28	11.8	0.329	1.72	2.1
L840388		216	34.2	0.003	0.12	62.4	5.1	8	23.7	70.4	0.21	85.0	3.4	0.090	0.73	1.0
L840389		46.4	75.6	<0.002	0.32	2.10	17.9	3	44.4	222	0.86	0.53	11.3	0.358	1.53	2.2
L840390		99.2	61.9	<0.002	0.07	11.55	11.8	6	100.0	220	0.82	1.60	9.9	0.268	0.56	4.7
L840391		34.4	62.1	0.006	0.44	2.40	13.1	4	13.6	308	0.83	0.22	10.9	0.245	0.62	4.3
L840392		30.0	103.5	<0.002	0.09	2.27	10.1	3	23.1	332	0.89	0.61	10.2	0.269	0.90	4.1
L840393		66.0	110.5	0.018	3.88	54.9	10.3	86	57.5	171.5	0.44	26.3	8.2	0.211	2.06	1.6
L840394		13.6	133.0	0.015	0.58	3.59	17.2	4	92.2	360	0.69	0.78	10.1	0.365	2.12	1.9
L840395		17.9	145.0	0.003	0.58	2.81	19.5	4	59.4	269	0.76	0.19	11.3	0.374	1.97	2.5
L840396		48.8	167.5	0.002	0.61	5.12	10.9	5	46.0	260	0.92	<0.05	11.8	0.267	1.85	3.2
L840397		48.5	124.0	0.002	0.51	1.07	12.1	6	15.4	276	0.98	0.45	12.3	0.265	1.21	3.4
L840398		10.2	120.0	0.002	0.58	1.20	11.8	6	9.4	248	1.12	0.05	9.7	0.322	0.87	2.6
L840399		149.5	42.4	<0.002	0.01	16.30	12.1	3	221	96.5	0.72	1.27	7.9	0.273	0.45	4.6
L840400		85.7	60.6	0.002	0.03	38.7	12.5	6	76.3	162.5	0.72	0.68	7.8	0.267	0.48	4.3
L840439		10.6	48.0	<0.002	5.30	6.82	22.2	2	6.0	83.4	1.73	0.06	3.0	1.315	0.94	1.2
L840440		19.0	94.0	0.008	0.18	11.20	9.7	4	40.6	107.0	0.35	0.12	5.6	0.158	1.08	5.5
L840441		19.4	127.0	0.021	0.73	10.80	9.0	6	71.3	450	0.68	0.08	7.0	0.255	1.78	7.9
L840442		13.0	144.0	0.026	0.40	10.35	7.0	5	67.9	234	0.83	0.06	7.1	0.219	2.08	7.0
L840443		4.4	95.9	0.003	0.06	3.61	8.9	2	14.7	73.5	0.25	<0.05	6.3	0.137	1.00	3.4
L840444		6.4	114.5	0.018	0.52	4.44	9.8	7	15.6	299	0.51	0.08	7.3	0.204	1.23	4.7
L840445		8.1	111.0	0.020	0.64	3.04	9.4	7	14.1	475	0.85	0.11	8.0	0.247	1.43	10.1
L840446		6.6	94.5	0.004	0.13	4.31	6.5	4	20.4	66.5	0.28	<0.05	4.8	0.142	1.09	3.0
L840447		9.2	106.0	0.009	0.33	8.22	8.6	6	42.5	136.0	0.49	0.07	6.4	0.188	1.12	3.5
L840448		8.7	112.0	0.015	0.43	5.33	6.6	5	38.7	361	0.56	0.05	6.4	0.189	1.43	5.9
L840449		14.7	94.3	0.002	0.19	2.45	11.9	1	7.5	100.5	0.37	0.08	6.0	0.215	1.05	1.6

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 24- SEP- 2013
Account: RANSIL

Project: Snail

CERTIFICATE OF ANALYSIS WH13158589

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm
	LOR	1	0.1	0.1	2	0.5
K280935		70	1.0	27.8	57	66.1
K280936		54	8.1	24.6	24	51.2
K280937		128	18.6	16.3	136	37.9
K280938		26	0.7	10.1	33	14.4
K280939		87	0.7	28.8	170	66.4
K280940		281	0.7	15.2	187	58.9
K280941		69	23.8	23.5	20	37.7
K280942		78	25.4	24.7	331	29.7
K280943		72	43.9	24.5	37	23.3
K280944		1180	1.0	6.2	440	58.6
K280945		69	0.9	25.7	106	51.8
K280946		89	0.6	23.4	211	43.7
K280947		71	9.3	28.1	71	44.9
K280948		42	3.6	18.0	24	63.8
K280949		127	19.5	21.7	92	57.8
K280950		66	11.5	24.2	79	36.6
L840388		24	61.4	6.3	93	15.3
L840389		71	8.4	23.8	269	61.7
L840390		328	20.1	22.5	358	60.8
L840391		347	7.8	24.6	314	55.6
L840392		321	12.8	22.3	309	44.2
L840393		40	6.2	17.8	80	35.3
L840394		73	3.6	22.1	43	44.5
L840395		76	3.5	21.5	86	51.8
L840396		58	2.2	21.9	40	75.2
L840397		53	2.2	22.2	35	78.9
L840398		88	10.9	22.0	71	98.4
L840399		292	20.6	21.7	548	52.4
L840400		341	10.4	19.7	588	51.9
L840439		242	1.2	16.9	120	92.1
L840440		226	8.9	13.2	76	69.5
L840441		271	24.4	25.4	97	93.2
L840442		174	5.0	23.3	97	77.1
L840443		155	1.5	11.3	36	82.5
L840444		179	1.9	26.2	25	93.3
L840445		361	160.0	27.0	128	95.4
L840446		164	1.9	9.4	19	61.9
L840447		143	2.6	9.7	16	86.7
L840448		203	3.0	22.7	75	55.2
L840449		99	2.2	13.3	45	32.1

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Finalized Date: 24- SEP- 2013
Account: RANSIL

Project: Snail

CERTIFICATE OF ANALYSIS WH13158589

Sample Description	Method	WEI-21	Au-AA24	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L840450		1.46	0.250	1.61	3.76	33.1	2850	1.07	1.93	1.74	2.66	37.8	3.6	110	5.01	91.8
M676620		1.19	0.149	0.20	8.53	6.7	2270	2.63	34.3	2.59	0.61	60.1	14.5	97	11.15	178.0
M676621		1.26	<0.005	0.70	6.27	6.7	9580	1.71	4.69	4.11	0.38	58.3	5.0	53	6.40	76.1
M676982		0.87	0.009	1.25	7.71	25.9	2210	2.49	0.51	1.92	2.69	60.0	15.0	81	6.24	144.5
M676983		1.07	<0.005	0.21	8.06	23.1	3270	1.97	0.48	6.32	0.22	71.3	13.9	70	5.92	30.4
M676984		1.28	<0.005	0.35	7.32	22.2	1490	2.11	0.36	5.22	1.25	57.7	9.2	69	2.96	64.4
M676985		1.25	0.010	0.28	7.17	17.4	2210	1.80	0.43	2.32	0.89	50.7	18.8	81	4.81	116.0
M676986		1.13	0.021	1.21	7.52	25.7	1450	2.21	0.55	3.02	0.94	75.3	17.8	138	7.43	204
M676987		1.07	0.020	3.36	7.44	20.4	2050	2.23	0.39	2.57	1.04	66.9	14.6	104	9.97	230
M676988		0.88	0.005	0.97	6.10	571	690	2.20	1.14	0.60	96.8	46.4	1.6	101	1.96	138.0
M676989		1.07	<0.005	0.37	3.19	13.2	660	1.36	0.68	0.09	1.28	29.1	0.8	74	2.21	33.5
M676990		1.22	0.005	0.82	1.65	168.0	260	0.45	0.26	0.06	2.44	38.2	0.4	99	7.40	56.8
M676991		1.07	0.011	0.66	4.50	84.2	490	1.26	0.28	0.06	2.43	53.4	1.9	58	2.89	40.2
M676992		1.22	<0.005	0.46	6.84	10	50	1.74	0.53	12.70	0.17	150.0	35.3	50	0.55	197.5
M676993		1.17	0.019	0.49	5.69	163.0	310	0.94	1.90	4.74	0.14	52.4	18.6	44	5.58	90.4
M676994		1.13	0.005	0.54	6.74	49.3	1180	2.56	1.36	6.09	0.13	63.4	10.5	92	6.59	145.0
M676995		1.32	0.005	1.18	4.20	77.4	180	1.27	2.89	4.59	0.45	86.4	15.5	60	2.58	70.3
M896401		1.59	0.005	0.29	5.35	10.1	2800	2.41	0.57	0.42	0.37	57.5	8.9	105	17.15	61.6
M896402		1.62	<0.005	1.60	4.72	5.2	790	1.17	0.17	1.71	0.52	47.4	5.1	94	5.51	53.2
M896403		1.49	0.005	0.94	4.16	8.1	580	1.07	0.55	1.55	0.54	37.3	4.0	75	5.89	61.5
M896404		1.65	0.008	9.67	4.19	5.3	4160	1.29	0.18	0.65	0.99	42.3	4.0	82	5.74	42.2
M896405		1.41	<0.005	1.81	6.38	7.2	2990	1.42	2.96	2.43	3.34	65.4	4.2	26	8.93	88.7
M896406		1.56	0.006	0.91	3.62	2.4	310	0.72	1.37	5.34	0.41	48.3	10.2	53	1.06	91.4
M896407		1.58	0.007	0.66	4.63	17.8	3770	1.84	0.28	0.44	1.03	45.3	9.7	110	9.89	73.4

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VANCOUVER BC V6B 1L8

Finalized Date: 24- SEP- 2013
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Project: Snail

CERTIFICATE OF ANALYSIS WH13158589

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
L840450		5.85	14.65	0.13	1.6	0.242	1.37	19.0	27.6	0.70	754	1.22	0.14	5.6	15.7	330
M676620		3.67	23.7	0.21	2.8	0.033	4.18	34.8	58.0	2.33	154	17.75	1.05	10.9	65.6	1070
M676621		4.15	20.0	0.21	2.5	0.088	3.77	33.4	29.6	3.81	289	1.37	0.28	17.7	15.9	530
M676982		3.59	22.3	0.23	3.2	0.048	4.13	32.0	42.4	1.86	158	22.1	0.44	10.7	79.8	2970
M676983		3.94	22.5	0.22	1.8	0.053	3.20	40.0	25.9	2.25	494	0.89	0.67	14.2	28.2	420
M676984		4.14	20.8	0.21	2.5	0.068	2.36	33.8	28.9	3.42	389	20.0	0.56	12.2	60.3	2220
M676985		4.36	19.95	0.16	2.4	0.068	3.43	27.7	55.8	2.08	340	3.78	0.69	14.6	39.8	1060
M676986		4.62	21.3	0.17	3.3	0.035	3.91	40.1	46.3	1.69	168	13.20	0.37	21.9	80.5	4870
M676987		3.68	21.4	0.20	2.5	0.031	4.35	34.6	45.0	1.46	104	12.70	0.48	14.2	85.3	6110
M676988		8.71	21.1	0.16	3.3	0.327	0.62	26.6	29.3	0.25	126	88.3	0.02	10.4	36.8	>10000
M676989		0.86	10.60	0.11	1.5	0.018	0.87	20.2	11.0	0.27	41	109.0	0.04	6.8	24.7	460
M676990		0.77	6.39	0.11	1.1	0.009	0.19	34.8	12.7	0.05	32	79.9	0.01	17.3	10.8	700
M676991		4.90	13.60	0.13	1.6	0.028	0.89	27.5	25.0	0.15	11	22.0	0.01	7.5	45.6	1230
M676992		10.60	20.2	0.13	2.6	0.226	0.05	110.0	19.6	2.20	1180	0.55	0.18	11.2	14.4	230
M676993		5.02	19.00	0.15	2.6	0.036	1.13	23.6	15.5	2.20	379	1.81	0.03	34.1	24.3	2670
M676994		3.36	21.5	0.14	2.7	0.014	2.48	37.8	19.9	2.03	202	8.12	0.10	12.4	75.8	7250
M676995		5.18	24.1	0.13	1.9	0.042	1.76	54.9	8.8	1.84	355	5.65	0.05	14.1	28.1	1110
M896401		2.51	17.05	0.12	1.5	0.038	3.08	32.1	42.5	0.77	169	1.03	0.16	6.5	44.0	330
M896402		2.23	14.60	0.10	1.6	0.021	1.69	26.1	25.8	0.70	189	0.98	0.18	6.8	36.4	510
M896403		2.74	14.05	0.08	1.2	0.058	1.59	20.0	25.4	1.08	261	1.04	0.12	5.4	25.3	420
M896404		2.00	14.05	0.09	1.2	0.392	2.01	22.8	30.7	0.64	138	0.66	0.10	4.8	23.9	300
M896405		2.58	19.40	0.11	1.3	0.216	2.29	32.3	23.2	1.00	216	0.76	0.46	9.0	8.5	370
M896406		5.07	13.00	0.09	1.0	0.082	0.69	18.8	8.2	1.54	1300	0.51	0.15	7.0	20.1	210
M896407		2.80	15.55	0.11	1.9	0.031	2.14	24.7	50.1	0.78	384	9.55	0.08	5.6	51.5	370

***** See Appendix Page for comments regarding this certificate *****

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VANCOUVER BC V6B 1L8

Finalized Date: 24- SEP- 2013
Account: RANSIL

Project: Snail

CERTIFICATE OF ANALYSIS WH13158589

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
L840450		62.9	75.2	0.008	0.36	2.15	11.4	6	40.6	103.5	0.38	0.39	5.0	0.226	0.95	2.5
M676620		12.1	171.0	0.026	1.16	1.00	13.1	11	6.3	276	0.75	3.35	11.6	0.346	2.11	14.4
M676621		20.4	147.0	0.004	0.51	1.17	12.4	11	14.0	260	1.08	0.25	9.5	0.330	1.12	2.9
M676982		20.2	153.5	0.031	1.36	9.09	11.3	8	1.8	238	0.74	0.10	12.9	0.329	1.54	15.7
M676983		25.4	111.5	0.002	0.55	13.45	11.9	2	4.8	344	0.98	<0.05	12.3	0.348	0.85	1.9
M676984		11.7	77.3	0.009	0.55	19.85	10.6	3	2.4	339	0.81	0.05	11.3	0.338	0.57	10.0
M676985		16.6	98.5	0.002	1.37	6.71	14.9	2	1.5	166.5	1.02	<0.05	6.6	0.563	0.55	4.7
M676986		23.3	155.0	0.052	2.30	13.10	13.1	14	1.6	241	1.40	0.12	11.9	0.503	1.23	13.5
M676987		18.1	154.5	0.042	2.05	15.45	11.1	14	1.8	307	0.95	0.12	11.3	0.364	1.50	13.9
M676988		42.0	22.7	0.004	0.54	101.5	23.8	7	5.4	139.0	0.65	0.20	13.2	0.257	2.63	69.3
M676989		7.0	45.3	0.023	0.10	11.60	5.9	11	0.9	44.6	0.42	0.14	4.5	0.179	2.24	11.6
M676990		8.8	20.9	0.074	0.10	20.9	2.0	8	0.8	23.7	0.52	0.09	5.8	0.103	2.09	14.0
M676991		30.6	47.0	0.046	0.08	69.7	5.6	15	1.6	38.9	0.56	0.06	8.4	0.235	1.20	7.4
M676992		3.8	3.4	<0.002	2.46	3.46	10.5	2	2.3	373	0.83	0.08	10.8	0.286	0.08	1.4
M676993		7.0	41.5	0.003	2.67	9.48	14.3	25	2.4	314	2.41	0.27	5.8	1.120	1.02	1.4
M676994		14.2	95.5	0.031	1.56	11.10	10.1	13	7.4	597	0.88	0.15	13.4	0.318	1.64	10.5
M676995		11.1	51.7	0.004	2.73	27.2	10.3	14	1.7	271	0.93	0.08	5.2	0.461	0.55	3.1
M896401		10.9	189.5	0.009	0.31	2.69	13.4	4	8.3	139.0	0.47	0.18	9.3	0.262	2.02	2.7
M896402		99.8	94.4	0.008	0.62	3.18	11.2	3	21.8	108.0	0.49	0.06	7.9	0.255	1.31	2.8
M896403		29.2	89.5	0.006	0.72	2.50	10.0	5	15.4	82.5	0.39	0.08	6.8	0.200	1.14	2.1
M896404		796	106.0	0.003	0.24	10.80	10.0	4	27.2	90.6	0.37	0.08	6.9	0.210	1.15	1.8
M896405		123.0	130.0	<0.002	0.50	6.28	17.3	3	57.6	180.5	0.81	0.06	12.1	0.326	1.75	1.9
M896406		13.0	26.1	<0.002	0.87	1.71	10.0	5	7.6	112.0	0.52	0.12	6.2	0.218	0.26	1.3
M896407		11.5	121.0	0.011	0.21	2.20	14.3	6	5.3	110.0	0.41	0.18	7.4	0.235	1.23	3.4

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CERTIFICATE OF ANALYSIS WH13158589

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm
	LOR	1	0.1	0.1	2	0.5
L840450		128	3.2	18.5	313	61.0
M676620		322	4.4	15.8	93	108.5
M676621		103	2.1	19.3	93	99.7
M676982		349	1.0	20.8	300	120.0
M676983		73	1.2	15.0	61	64.0
M676984		224	0.9	19.4	181	93.1
M676985		118	0.7	19.9	187	92.0
M676986		671	1.3	27.4	122	127.5
M676987		389	1.2	21.1	139	92.2
M676988		601	2.9	70.7	301	152.5
M676989		1280	1.6	17.7	79	66.8
M676990		3040	10.6	22.3	44	56.7
M676991		224	3.0	23.0	402	57.4
M676992		62	0.3	16.6	164	86.6
M676993		159	0.9	27.8	169	83.9
M676994		420	1.4	35.9	16	103.0
M676995		133	1.1	17.6	44	75.8
M896401		172	7.0	20.9	49	58.7
M896402		127	2.3	25.0	55	57.6
M896403		114	1.3	18.1	52	44.4
M896404		116	1.4	17.6	73	43.1
M896405		69	2.9	25.8	190	30.9
M896406		63	1.1	18.3	93	31.8
M896407		138	1.3	19.1	114	73.2

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CERTIFICATE OF ANALYSIS WH13158589

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

	REE's may not be totally soluble in this method.
Applies to Method:	ME-MS61
	Interference: Samples with Ca>10%on ICP-MS As. ICP-AES As results reported (5 ppm DL)
Applies to Method:	ME-MS61

LABORATORY ADDRESSES

	Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.			
Applies to Method:	CRU-31	CRU-QC	LOG-22	PUL-31
	PUL-QC	SPL-21	WEI-21	
	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.			
Applies to Method:	Au-AA24	ME-MS61		

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 20-SEP-2013
Account: RANSIL

CERTIFICATE WH13158870

Project: SNAIL

P.O. No.:

This report is for 143 Soil samples submitted to our lab in Whitehorse, YT, Canada on 30-AUG-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS41	51 anal. aqua regia ICPMS	

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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CERTIFICATE OF ANALYSIS WH13158870

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ90501		0.20	0.006	0.81	1.41	20.6	<0.2	<10	380	0.69	0.24	0.84	10.85	33.7	9.5	17
ZZ90502		0.30	0.008	0.50	1.35	19.8	<0.2	<10	380	0.76	0.30	0.57	1.11	35.9	10.7	23
ZZ90503		0.24	0.004	0.14	0.55	4.0	<0.2	<10	150	0.14	0.15	0.59	0.21	10.85	3.3	7
ZZ90504		0.24	0.006	0.33	0.62	9.1	<0.2	<10	220	0.22	0.33	1.25	0.28	13.65	4.1	7
ZZ90505		0.28	0.006	0.17	1.55	108.0	<0.2	<10	180	0.48	5.09	0.53	0.72	27.4	17.3	14
ZZ90506		0.20	0.003	0.24	0.88	7.8	<0.2	<10	230	0.32	0.42	1.07	0.22	16.40	5.9	11
ZZ90507		0.27	0.003	0.11	0.60	5.5	<0.2	<10	140	0.25	0.24	0.52	0.22	14.15	6.1	9
ZZ90508		0.29	0.006	1.09	1.43	142.5	<0.2	<10	590	0.86	2.10	0.47	0.35	134.5	30.8	17
ZZ90509		0.27	0.004	0.26	0.85	3.7	<0.2	<10	230	0.35	0.12	0.68	0.42	19.65	4.1	10
ZZ90510		0.27	0.004	0.16	1.26	3.4	<0.2	<10	460	0.61	0.23	0.79	0.27	34.9	6.2	15
ZZ90511		0.32	0.007	0.19	1.71	15.8	<0.2	<10	530	1.01	0.47	0.39	0.35	44.3	10.0	23
ZZ90512		0.28	0.006	0.31	1.29	9.3	<0.2	<10	200	0.29	0.26	0.20	0.17	25.9	3.6	19
ZZ90513		0.29	0.006	0.26	1.20	10.4	<0.2	<10	320	0.49	0.19	1.05	0.57	24.9	5.3	16
ZZ90514		0.35	0.003	0.17	1.05	6.5	<0.2	<10	320	0.41	0.17	0.83	0.31	21.7	5.0	16
ZZ90515		0.22	0.003	0.26	0.84	5.5	<0.2	<10	300	0.43	0.19	0.66	0.45	18.65	4.7	11
ZZ90516		0.27	0.003	0.25	0.99	5.3	<0.2	<10	350	0.65	0.12	1.43	0.37	18.75	3.4	12
ZZ90517		0.38	0.005	0.20	1.08	5.0	<0.2	<10	370	0.49	0.21	1.28	0.36	26.4	5.7	20
ZZ90518		0.26	0.003	0.10	0.77	2.9	<0.2	<10	240	0.28	0.12	0.61	0.19	13.00	3.2	9
ZZ90519		0.25	0.003	0.12	0.70	3.4	<0.2	<10	190	0.36	0.14	0.76	0.26	15.40	3.4	9
ZZ90520		0.24	0.003	0.06	0.45	1.5	<0.2	<10	100	0.18	0.06	0.34	0.10	6.68	1.7	5
ZZ90521		0.22	0.004	0.19	1.19	8.0	<0.2	<10	430	0.36	0.18	1.29	0.31	24.7	6.1	18
ZZ90522		0.38	0.003	0.09	1.12	6.6	<0.2	<10	340	0.51	0.17	0.37	0.32	27.6	5.6	15
ZZ90523		0.23	0.002	0.14	0.80	2.7	<0.2	<10	250	0.44	0.11	0.75	0.30	15.65	3.2	9
ZZ90524		0.26	0.003	0.14	0.93	3.6	<0.2	<10	210	0.32	0.17	0.39	0.17	15.85	3.4	14
ZZ90525		0.31	0.001	0.09	0.69	1.8	<0.2	<10	110	0.30	0.07	0.35	0.08	11.50	2.1	6
ZZ90526		0.38	0.003	0.04	1.53	10.3	<0.2	<10	350	0.47	0.27	0.22	0.21	29.7	8.8	23
ZZ90527		0.23	0.001	0.03	0.44	2.5	<0.2	<10	60	0.09	0.09	0.05	0.07	9.05	1.6	6
ZZ90528		0.23	0.002	0.06	0.77	4.1	<0.2	<10	90	0.18	0.16	0.08	0.05	15.00	2.2	10
ZZ90529		0.25	0.002	0.04	1.54	8.9	<0.2	<10	200	0.58	0.21	0.17	0.16	25.9	7.2	20
ZZ90530		0.35	0.003	0.16	1.27	8.3	<0.2	<10	270	0.44	0.19	0.28	0.17	22.9	4.0	14
ZZ90531		0.31	0.003	0.08	1.75	10.7	<0.2	<10	280	0.50	0.21	0.17	0.23	26.3	7.2	23
ZZ90532		0.38	0.004	0.20	1.73	9.0	<0.2	<10	550	0.70	0.22	0.58	0.25	32.8	10.1	22
ZZ90533		0.40	0.005	0.08	1.47	13.6	<0.2	<10	460	0.61	0.23	0.35	0.24	37.3	9.8	23
ZZ90534		0.25	0.003	0.13	1.24	6.7	<0.2	<10	260	0.42	0.18	0.44	0.15	19.90	4.8	15
ZZ90535		0.28	0.005	0.37	1.57	10.9	<0.2	<10	540	0.80	0.27	0.74	0.22	37.9	11.1	24
ZZ90536		0.37	0.001	0.11	1.50	12.2	<0.2	<10	210	0.39	0.27	0.18	0.15	27.3	5.6	21
ZZ90537		0.33	0.002	0.11	0.87	1.9	<0.2	<10	440	1.17	0.06	1.78	0.12	25.2	2.7	6
ZZ90538		0.26	0.002	0.09	0.92	2.2	<0.2	<10	240	0.77	0.08	0.95	0.12	23.8	3.1	8
ZZ90539		0.34	0.002	0.12	1.17	5.3	<0.2	<10	310	0.83	0.15	0.57	0.12	32.6	5.6	13
ZZ90540		0.26	0.003	0.11	1.02	3.7	<0.2	<10	300	0.66	0.12	1.20	0.12	18.10	4.0	11

***** See Appendix Page for comments regarding this certificate *****

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CERTIFICATE OF ANALYSIS WH13158870

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ90501		1.14	55.6	2.23	3.55	0.06	0.05	0.31	0.025	0.06	18.7	17.5	0.48	1280	3.19	0.02
ZZ90502		1.05	49.0	3.69	3.80	0.05	0.04	0.15	0.036	0.07	19.5	16.3	0.40	730	2.43	0.02
ZZ90503		0.36	11.3	0.95	1.89	<0.05	0.02	0.06	0.008	0.04	5.3	4.0	0.14	264	0.87	0.03
ZZ90504		0.51	24.1	1.28	1.98	<0.05	0.04	0.07	0.013	0.03	7.1	4.3	0.16	396	1.23	0.03
ZZ90505		1.24	32.1	6.07	4.71	<0.05	0.03	0.05	0.061	0.04	12.3	16.5	0.55	1270	2.03	0.01
ZZ90506		0.70	18.7	1.61	2.64	<0.05	0.03	0.05	0.020	0.04	8.7	7.6	0.22	290	0.62	0.03
ZZ90507		0.49	10.8	1.32	2.04	<0.05	0.02	0.07	0.014	0.04	6.1	5.0	0.15	377	0.52	0.03
ZZ90508		1.51	77.9	15.25	3.19	0.18	0.08	0.09	0.120	0.06	70.6	11.5	0.26	3920	1.66	0.01
ZZ90509		0.68	28.0	1.03	2.50	<0.05	0.02	0.09	0.015	0.04	10.2	9.0	0.20	340	0.65	0.03
ZZ90510		0.67	26.0	1.52	3.79	<0.05	0.04	0.17	0.020	0.05	18.8	18.3	0.51	361	0.71	0.02
ZZ90511		0.93	33.2	2.56	5.12	0.05	0.03	0.08	0.036	0.10	23.3	29.9	0.73	416	1.84	0.02
ZZ90512		0.91	10.9	1.70	4.46	<0.05	<0.02	0.14	0.022	0.06	13.8	15.5	0.40	98	0.90	0.01
ZZ90513		0.84	19.7	1.52	3.40	<0.05	0.04	0.09	0.019	0.06	13.5	17.6	0.47	368	0.81	0.02
ZZ90514		0.65	15.4	1.81	3.16	<0.05	0.03	0.09	0.018	0.05	10.8	12.7	0.32	245	0.85	0.02
ZZ90515		0.66	17.1	1.33	2.55	<0.05	0.02	0.08	0.016	0.05	9.3	7.4	0.18	385	1.05	0.02
ZZ90516		1.65	21.6	1.26	2.59	<0.05	0.04	0.10	0.014	0.06	12.3	17.0	0.29	179	0.63	0.02
ZZ90517		0.70	22.4	1.75	3.26	<0.05	0.04	0.09	0.022	0.06	13.1	20.3	0.35	156	1.15	0.02
ZZ90518		0.58	11.6	0.98	2.42	<0.05	<0.02	0.05	0.010	0.03	6.8	8.9	0.15	180	0.56	0.03
ZZ90519		0.53	14.1	0.95	2.25	<0.05	0.02	0.05	0.011	0.04	7.7	6.7	0.14	351	0.67	0.03
ZZ90520		0.39	6.2	0.61	1.71	<0.05	<0.02	0.03	0.006	0.03	3.4	3.4	0.07	156	0.34	0.03
ZZ90521		0.59	21.1	1.88	3.24	<0.05	0.03	0.08	0.019	0.06	12.2	15.6	0.30	224	0.83	0.02
ZZ90522		1.17	17.6	1.64	3.49	<0.05	<0.02	0.04	0.021	0.06	14.3	12.5	0.24	330	1.03	0.02
ZZ90523		0.88	11.4	1.04	2.63	<0.05	<0.02	0.06	0.011	0.04	8.9	8.7	0.13	263	0.64	0.03
ZZ90524		1.15	13.1	1.28	3.67	<0.05	<0.02	0.04	0.018	0.04	8.7	8.7	0.19	157	0.93	0.02
ZZ90525		0.74	8.5	0.81	2.16	<0.05	<0.02	0.03	0.012	0.03	6.7	4.3	0.07	174	0.34	0.03
ZZ90526		1.09	11.8	2.66	5.08	<0.05	0.03	0.02	0.034	0.05	14.6	18.8	0.38	277	1.07	0.01
ZZ90527		0.47	4.4	0.76	2.37	<0.05	<0.02	0.01	0.008	0.02	5.1	2.9	0.08	64	0.61	0.01
ZZ90528		1.11	8.6	1.17	4.04	<0.05	<0.02	0.01	0.012	0.03	8.2	5.5	0.12	68	0.82	0.01
ZZ90529		1.59	14.3	2.24	4.45	<0.05	0.02	0.02	0.027	0.04	13.0	16.1	0.29	257	1.28	0.01
ZZ90530		1.46	19.3	2.14	4.66	<0.05	<0.02	0.03	0.022	0.05	13.7	12.5	0.20	179	1.43	0.01
ZZ90531		1.19	16.6	2.66	5.26	<0.05	0.08	0.05	0.031	0.05	13.4	20.2	0.37	194	1.63	0.01
ZZ90532		1.40	30.8	2.53	5.12	<0.05	0.02	0.04	0.032	0.05	17.0	16.0	0.38	420	1.30	0.02
ZZ90533		1.15	40.7	2.74	4.35	<0.05	0.03	0.07	0.032	0.06	18.4	14.7	0.41	347	2.14	0.01
ZZ90534		1.21	14.4	1.85	4.52	<0.05	<0.02	0.03	0.022	0.05	11.4	12.7	0.24	214	1.02	0.01
ZZ90535		1.20	39.8	2.66	4.38	0.05	0.04	1.01	0.038	0.06	20.4	13.9	0.39	634	1.14	0.01
ZZ90536		1.88	11.1	2.49	5.73	<0.05	<0.02	0.14	0.025	0.05	14.1	19.2	0.35	201	1.47	0.01
ZZ90537		3.10	13.1	1.22	2.33	<0.05	0.03	0.06	0.014	0.13	14.6	12.5	0.11	367	0.32	0.01
ZZ90538		3.00	9.8	1.13	2.68	<0.05	0.04	0.04	0.013	0.10	13.9	12.6	0.14	224	0.39	0.02
ZZ90539		2.46	9.8	1.77	3.93	<0.05	0.02	0.02	0.019	0.09	17.1	16.2	0.22	379	0.80	0.01
ZZ90540		3.07	11.9	1.21	3.25	<0.05	0.03	0.04	0.016	0.07	10.6	10.4	0.18	292	0.52	0.02

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	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ90501		0.44	34.1	960	47.0	11.4	0.011	0.07	4.64	3.3	4.2	0.4	43.5	<0.01	0.06	1.1
ZZ90502		0.69	29.9	930	22.6	7.5	0.001	0.03	3.23	7.3	1.9	0.4	30.7	<0.01	0.04	2.7
ZZ90503		0.35	6.3	590	5.8	4.3	<0.001	0.04	0.82	1.2	0.8	0.2	22.5	<0.01	0.02	0.4
ZZ90504		0.35	9.7	780	9.2	3.2	<0.001	0.07	2.22	1.8	1.3	0.2	33.6	<0.01	0.04	0.4
ZZ90505		0.32	24.9	650	73.2	4.4	<0.001	0.04	9.12	7.0	2.0	0.5	21.3	<0.01	0.43	1.5
ZZ90506		0.50	11.0	490	10.9	4.8	<0.001	0.05	1.11	2.9	1.0	0.3	30.9	<0.01	0.05	0.9
ZZ90507		0.36	7.8	440	8.5	4.1	<0.001	0.03	0.49	2.0	0.6	0.2	18.0	<0.01	0.01	0.9
ZZ90508		0.25	52.4	530	88.3	4.8	<0.001	0.08	14.40	34.1	4.3	0.3	20.5	0.01	0.15	5.5
ZZ90509		0.41	10.1	630	22.4	6.6	<0.001	0.06	0.91	1.9	0.7	0.3	37.6	<0.01	0.03	0.6
ZZ90510		0.40	12.7	630	9.7	6.3	<0.001	0.05	0.50	2.2	1.0	0.3	33.8	<0.01	0.01	1.6
ZZ90511		0.38	20.7	710	103.5	8.1	0.001	0.03	1.31	3.5	1.2	0.5	37.1	<0.01	0.05	3.8
ZZ90512		0.59	9.2	710	31.4	8.9	<0.001	0.04	0.82	1.9	0.6	0.5	14.5	<0.01	0.04	1.4
ZZ90513		0.55	12.7	690	17.9	10.0	0.001	0.08	1.25	2.0	1.0	0.4	46.2	<0.01	0.02	0.9
ZZ90514		0.63	11.9	720	11.4	6.3	0.001	0.04	0.85	2.6	0.8	0.4	45.4	<0.01	0.03	1.8
ZZ90515		0.42	9.6	730	11.6	6.7	<0.001	0.04	0.95	2.2	0.4	0.3	31.9	<0.01	0.03	0.8
ZZ90516		0.43	10.5	650	8.5	12.5	<0.001	0.09	1.40	1.8	1.1	0.3	63.9	<0.01	0.02	0.7
ZZ90517		1.00	13.9	660	10.5	7.4	<0.001	0.08	1.43	3.5	1.2	0.4	68.0	<0.01	0.02	2.6
ZZ90518		0.50	6.5	530	5.7	4.6	<0.001	0.03	0.37	1.4	0.5	0.2	32.7	<0.01	0.01	0.6
ZZ90519		0.43	7.2	570	8.8	5.1	<0.001	0.04	0.41	1.3	0.8	0.2	39.3	<0.01	0.01	0.5
ZZ90520		0.29	2.8	350	5.2	3.5	<0.001	0.03	0.18	0.5	0.2	<0.2	19.1	<0.01	<0.01	0.2
ZZ90521		0.64	12.5	730	11.7	5.5	<0.001	0.06	0.76	2.7	0.9	0.4	57.9	<0.01	0.03	1.4
ZZ90522		0.62	12.5	700	11.6	8.2	<0.001	0.01	0.61	2.1	0.7	0.4	27.7	<0.01	0.04	1.4
ZZ90523		0.49	5.7	670	12.5	7.1	<0.001	0.05	0.28	0.8	0.7	0.3	34.3	<0.01	0.02	0.2
ZZ90524		0.76	7.5	720	14.5	7.9	<0.001	0.04	0.38	0.7	0.5	0.4	23.1	<0.01	0.02	0.2
ZZ90525		0.37	4.0	440	5.6	4.6	<0.001	0.03	0.21	0.3	0.4	0.2	21.4	<0.01	0.01	<0.2
ZZ90526		1.50	13.7	260	14.1	8.3	<0.001	0.01	0.66	3.2	0.6	0.6	19.3	<0.01	0.03	5.2
ZZ90527		0.52	2.7	210	10.6	3.5	<0.001	0.01	0.21	0.4	<0.2	0.3	6.9	<0.01	<0.01	<0.2
ZZ90528		0.73	4.6	200	9.3	6.7	<0.001	0.01	0.30	0.6	0.3	0.4	9.5	<0.01	0.02	0.2
ZZ90529		1.24	14.7	530	15.2	10.5	<0.001	0.01	0.88	2.1	0.4	0.5	15.4	<0.01	0.01	2.9
ZZ90530		0.75	9.6	540	15.9	11.0	<0.001	0.02	0.77	1.3	0.7	0.5	20.7	<0.01	0.02	0.9
ZZ90531		1.24	14.5	510	14.1	11.4	<0.001	0.01	1.06	2.7	0.4	0.6	16.6	<0.01	0.03	4.4
ZZ90532		1.09	19.3	570	14.6	9.7	<0.001	0.01	1.31	3.6	0.8	0.5	37.4	<0.01	0.02	3.1
ZZ90533		1.01	28.4	640	15.2	8.2	<0.001	0.01	2.12	4.5	0.9	0.5	25.2	<0.01	0.04	5.4
ZZ90534		1.00	10.9	390	11.9	11.5	<0.001	0.02	0.68	1.9	0.5	0.5	24.3	<0.01	0.02	1.9
ZZ90535		0.98	25.4	1030	16.4	8.7	<0.001	0.03	1.16	5.9	1.4	0.5	35.5	<0.01	0.02	3.2
ZZ90536		1.48	12.4	430	19.4	9.9	<0.001	0.01	0.90	2.2	0.5	0.6	13.7	<0.01	0.03	3.0
ZZ90537		0.83	5.1	570	10.6	16.1	<0.001	0.06	0.44	1.5	0.8	0.3	54.9	<0.01	0.01	1.4
ZZ90538		0.68	5.6	650	9.9	14.4	<0.001	0.05	0.34	1.6	0.8	0.3	32.0	<0.01	<0.01	1.4
ZZ90539		0.85	8.3	480	15.1	14.9	<0.001	0.01	0.45	2.0	0.4	0.4	27.6	<0.01	0.02	3.2
ZZ90540		0.82	7.1	630	12.0	15.9	<0.001	0.05	0.47	1.4	0.5	0.3	38.7	<0.01	0.01	0.9

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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 20- SEP- 2013
Account: RANSIL

Project: SNAIL

CERTIFICATE OF ANALYSIS WH13158870

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ90501		0.011	0.16	2.96	45	0.05	20.1	487	1.4
ZZ90502		0.017	0.21	1.24	50	0.15	17.55	182	1.2
ZZ90503		0.016	0.07	0.57	19	0.22	3.38	37	0.7
ZZ90504		0.017	0.08	0.75	21	0.12	6.61	61	1.7
ZZ90505		0.008	0.20	0.95	46	0.08	9.48	267	1.0
ZZ90506		0.018	0.10	0.60	26	0.13	6.43	45	1.2
ZZ90507		0.020	0.06	0.37	25	0.07	3.81	54	0.7
ZZ90508		<0.005	0.29	0.67	57	0.07	65.0	36	2.4
ZZ90509		0.010	0.11	1.08	19	0.18	7.43	130	0.8
ZZ90510		0.008	0.07	0.90	23	0.05	9.20	57	1.3
ZZ90511		0.005	0.10	1.42	36	0.08	9.34	133	1.2
ZZ90512		0.009	0.17	1.13	39	0.09	3.65	95	<0.5
ZZ90513		0.012	0.10	2.16	29	0.09	7.70	131	1.3
ZZ90514		0.018	0.08	2.81	35	0.08	6.42	77	1.2
ZZ90515		0.014	0.08	1.91	25	0.17	7.05	72	1.0
ZZ90516		0.013	0.09	6.98	22	0.07	12.90	96	1.3
ZZ90517		0.030	0.09	9.12	35	0.15	10.15	75	1.6
ZZ90518		0.019	0.06	2.51	20	0.09	5.41	53	0.7
ZZ90519		0.018	0.05	3.05	19	0.09	5.48	41	0.6
ZZ90520		0.016	0.04	0.60	15	<0.05	1.68	23	<0.5
ZZ90521		0.016	0.07	7.16	37	0.10	7.43	88	1.1
ZZ90522		0.018	0.10	1.76	31	0.20	8.37	87	<0.5
ZZ90523		0.014	0.06	3.31	22	0.12	6.02	61	<0.5
ZZ90524		0.017	0.11	2.25	29	0.15	3.96	49	<0.5
ZZ90525		0.013	0.06	1.23	16	0.08	6.53	21	<0.5
ZZ90526		0.026	0.11	1.33	47	0.20	5.07	63	1.3
ZZ90527		0.022	0.06	0.49	23	0.12	1.40	15	<0.5
ZZ90528		0.026	0.10	0.52	37	0.19	1.92	23	<0.5
ZZ90529		0.023	0.13	0.93	41	1.13	5.02	74	0.5
ZZ90530		0.011	0.11	1.05	41	0.23	5.49	68	<0.5
ZZ90531		0.016	0.16	0.75	50	0.24	4.52	70	2.9
ZZ90532		0.017	0.14	2.50	49	0.21	10.30	84	0.6
ZZ90533		0.018	0.16	2.15	49	0.22	10.65	111	1.2
ZZ90534		0.018	0.12	0.88	41	0.18	5.05	59	<0.5
ZZ90535		0.020	0.13	5.01	45	0.77	23.4	75	1.1
ZZ90536		0.022	0.16	1.08	51	0.35	4.84	64	<0.5
ZZ90537		0.007	0.10	5.83	9	0.08	11.50	28	1.3
ZZ90538		0.011	0.09	4.75	12	0.08	11.60	32	1.6
ZZ90539		0.014	0.11	3.35	28	0.40	9.33	40	0.8
ZZ90540		0.015	0.10	1.67	20	0.10	9.23	30	1.1

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VANCOUVER BC V6B 1L8

Finalized Date: 20-SEP-2013
Account: RANSIL

Project: SNAIL

CERTIFICATE OF ANALYSIS WH13158870

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ90541		0.32	0.003	0.02	1.29	7.0	<0.2	<10	130	0.48	0.18	0.09	0.12	30.8	4.8	13
ZZ90542		0.32	0.001	0.02	1.12	4.2	<0.2	<10	220	0.39	0.16	0.36	0.20	29.6	3.6	10
ZZ90543		0.28	0.002	0.14	0.87	2.9	<0.2	<10	250	0.61	0.11	1.23	0.29	19.70	4.1	9
ZZ90544		0.28	0.002	0.13	0.89	2.8	<0.2	<10	240	0.53	0.11	0.94	0.22	17.40	3.6	10
ZZ90545		0.43	0.004	0.28	1.26	7.6	<0.2	<10	360	0.97	0.22	1.07	0.31	31.4	7.0	17
ZZ90546		0.31	0.002	0.09	0.87	4.6	<0.2	<10	240	0.36	0.13	0.83	0.16	18.05	4.6	11
ZZ90547		0.27	0.003	0.02	1.12	11.2	<0.2	<10	290	0.60	0.20	0.20	0.25	41.8	8.9	14
ZZ90548		0.38	0.003	0.11	1.08	7.2	<0.2	<10	270	0.70	0.18	0.73	0.29	31.3	6.6	16
ZZ90549		0.27	0.002	0.17	0.75	8.1	<0.2	<10	180	0.31	0.10	0.45	0.40	17.70	4.3	10
ZZ90550		0.29	0.003	0.20	1.03	5.8	<0.2	<10	190	0.36	0.15	0.27	0.29	21.9	3.6	12
ZZ90551		0.24	0.002	0.15	0.83	6.3	<0.2	<10	150	0.25	0.13	0.22	0.26	20.2	2.3	9
ZZ90552		0.26	0.002	0.32	0.98	15.5	<0.2	<10	170	0.30	0.15	0.28	0.27	18.55	3.1	11
ZZ90553		0.26	0.005	0.47	0.99	9.3	<0.2	<10	240	0.50	0.13	0.87	0.86	19.20	3.4	10
ZZ90554		0.28	0.004	0.24	1.22	11.7	<0.2	<10	290	0.49	0.20	0.40	0.36	29.1	7.6	14
ZZ90555		0.18	0.003	0.31	0.97	10.4	<0.2	<10	270	0.53	0.13	0.36	0.25	21.6	7.5	10
ZZ90556		0.27	0.004	0.25	0.94	67.0	<0.2	<10	180	0.47	0.11	0.68	0.29	17.45	4.1	9
ZZ90557		0.37	0.001	0.03	1.18	7.7	<0.2	<10	180	0.25	0.17	0.20	0.15	25.5	2.7	11
ZZ90558		0.26	0.003	0.26	1.12	11.6	<0.2	<10	360	0.61	0.20	0.93	0.68	28.9	5.8	11
ZZ90559		0.31	0.003	0.02	0.57	9.4	<0.2	<10	40	0.07	0.30	0.04	0.06	26.1	1.6	8
ZZ90560		0.28	0.002	0.09	1.02	13.6	<0.2	<10	130	0.41	0.21	0.08	0.58	27.5	8.9	13
ZZ90561		0.45	0.003	0.24	1.27	13.9	<0.2	<10	430	0.72	0.23	0.38	1.07	37.8	6.0	13
ZZ90562		0.22	0.002	0.28	1.14	5.6	<0.2	<10	250	0.36	0.17	0.25	0.54	22.6	4.6	13
ZZ90563		0.30	0.006	0.74	1.06	11.9	<0.2	<10	390	0.66	0.18	0.67	1.05	32.0	6.3	18
ZZ90564		0.39	0.005	0.39	0.96	13.1	<0.2	<10	290	0.52	0.14	0.45	0.58	28.7	5.5	15
ZZ90565		0.23	0.006	0.27	1.01	8.0	<0.2	<10	270	0.47	0.14	0.71	0.40	23.7	4.5	13
ZZ90566		0.42	0.006	0.85	0.82	24.1	<0.2	<10	310	0.57	0.15	0.34	0.91	32.8	4.6	14
ZZ90567		0.24	0.003	0.36	0.93	8.3	<0.2	<10	260	0.41	0.12	0.40	0.61	20.6	4.9	12
ZZ90568		0.39	0.006	0.40	1.41	19.5	<0.2	<10	440	0.69	0.22	0.48	1.56	39.2	8.7	20
ZZ90569		0.33	0.003	0.22	0.80	13.0	<0.2	<10	350	0.51	0.17	1.14	0.86	32.4	7.7	13
ZZ90570		0.44	0.006	0.46	1.38	24.4	<0.2	<10	490	0.76	0.25	0.84	1.89	39.9	10.3	19
ZZ90571		0.43	0.007	0.38	1.07	17.0	<0.2	<10	320	0.61	0.20	0.45	1.44	42.0	7.2	16
ZZ90572		0.38	0.004	0.27	1.48	15.4	<0.2	<10	300	0.61	0.20	0.29	0.69	34.2	9.9	20
ZZ90573		0.39	0.003	0.14	1.28	10.3	<0.2	<10	330	0.54	0.18	0.39	0.48	33.5	4.8	16
ZZ90574		0.34	0.003	0.17	1.50	6.2	<0.2	<10	300	0.60	0.15	0.56	0.46	23.8	6.1	19
ZZ90575		0.28	0.003	0.12	1.83	5.9	<0.2	<10	230	0.63	0.13	0.81	0.29	18.85	7.3	19
ZZ90576		0.38	0.002	0.14	2.17	8.7	<0.2	<10	390	0.81	0.18	0.82	0.20	28.2	7.7	27
ZZ90577		0.33	0.002	0.05	1.71	12.7	<0.2	<10	240	0.61	0.19	0.34	0.18	28.5	7.6	21
ZZ90578		0.43	0.001	0.18	1.45	10.7	<0.2	<10	240	0.47	0.18	0.57	0.70	22.7	8.3	21
ZZ90579		0.35	0.005	0.55	2.14	28.4	<0.2	<10	360	0.93	0.21	0.68	2.19	32.2	10.0	27
ZZ90580		0.33	0.006	0.86	2.10	27.0	<0.2	<10	330	0.95	0.22	0.86	2.35	33.3	7.2	26

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	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ90541		3.10	9.9	2.32	5.07	<0.05	0.05	0.01	0.021	0.07	15.9	25.5	0.23	172	0.94	0.01
ZZ90542		2.09	7.7	1.61	4.01	<0.05	0.02	0.01	0.016	0.07	15.3	16.7	0.15	326	0.79	0.01
ZZ90543		1.49	16.3	1.03	2.62	<0.05	0.04	0.06	0.013	0.06	10.8	6.8	0.14	442	0.73	0.02
ZZ90544		2.52	13.3	0.93	2.76	<0.05	0.03	0.05	0.015	0.07	9.5	8.1	0.16	319	0.69	0.02
ZZ90545		1.76	24.3	1.89	3.85	<0.05	0.04	0.11	0.026	0.07	17.7	13.4	0.28	337	1.16	0.01
ZZ90546		1.02	14.8	1.26	2.89	<0.05	0.03	0.07	0.015	0.05	9.4	8.9	0.18	267	0.81	0.02
ZZ90547		1.25	21.3	2.17	3.11	<0.05	0.03	0.03	0.029	0.06	19.6	14.7	0.28	535	1.19	0.01
ZZ90548		1.99	14.1	1.91	3.39	<0.05	0.03	0.04	0.023	0.08	16.3	15.3	0.29	316	0.84	0.01
ZZ90549		1.31	10.2	1.01	2.49	<0.05	0.02	0.05	0.013	0.04	9.7	5.8	0.16	537	0.64	0.02
ZZ90550		1.98	12.9	1.29	3.62	<0.05	<0.02	0.04	0.020	0.05	11.6	10.4	0.19	156	0.91	0.01
ZZ90551		1.87	10.9	1.03	3.45	<0.05	<0.02	0.03	0.015	0.05	10.7	6.7	0.15	88	1.02	0.01
ZZ90552		2.47	10.6	1.17	3.65	<0.05	<0.02	0.04	0.019	0.06	9.8	11.2	0.19	142	1.00	0.02
ZZ90553		1.72	27.8	1.24	2.93	<0.05	0.05	0.10	0.019	0.06	12.5	11.2	0.23	189	1.42	0.02
ZZ90554		1.58	17.1	2.03	4.21	<0.05	0.03	0.05	0.030	0.08	15.0	14.9	0.38	848	2.48	0.01
ZZ90555		1.38	20.2	1.88	3.04	<0.05	0.03	0.06	0.023	0.06	11.2	8.9	0.22	320	2.44	0.02
ZZ90556		3.96	13.1	1.04	3.13	<0.05	<0.02	0.04	0.023	0.05	9.6	10.8	0.14	378	1.29	0.03
ZZ90557		1.79	12.5	1.45	4.80	<0.05	<0.02	0.01	0.021	0.04	13.6	13.2	0.15	104	1.00	0.01
ZZ90558		1.42	25.2	1.60	3.47	<0.05	0.05	0.07	0.027	0.08	15.2	13.9	0.27	647	1.32	0.02
ZZ90559		1.84	8.0	0.99	6.55	<0.05	<0.02	0.01	0.009	0.02	13.4	1.3	0.04	46	2.16	<0.01
ZZ90560		1.50	11.5	1.89	3.81	<0.05	<0.02	0.03	0.023	0.05	13.7	17.9	0.21	590	1.85	<0.01
ZZ90561		1.29	29.0	1.98	3.57	0.05	0.03	0.06	0.029	0.08	20.5	20.5	0.32	361	1.23	<0.01
ZZ90562		1.57	15.4	1.46	3.27	<0.05	0.02	0.10	0.020	0.06	11.9	19.1	0.25	236	1.52	0.02
ZZ90563		1.13	44.8	1.85	3.36	0.05	0.05	0.15	0.032	0.06	17.0	16.3	0.41	152	1.52	0.01
ZZ90564		1.79	18.3	1.64	2.94	<0.05	0.03	0.10	0.028	0.08	15.4	15.2	0.43	215	2.82	0.01
ZZ90565		1.26	17.5	1.39	2.98	<0.05	0.03	0.08	0.021	0.07	12.3	13.1	0.31	324	1.51	0.01
ZZ90566		1.00	36.2	1.79	2.48	0.05	0.05	0.20	0.044	0.07	18.4	14.0	0.34	194	5.33	0.01
ZZ90567		1.14	16.0	1.44	2.77	<0.05	0.02	0.10	0.018	0.05	11.2	12.0	0.25	666	1.12	0.01
ZZ90568		1.16	29.9	2.33	4.00	0.06	0.05	0.12	0.033	0.09	20.0	22.5	0.56	519	2.41	<0.01
ZZ90569		1.10	22.9	2.10	2.54	0.05	0.09	0.06	0.024	0.08	16.0	15.1	0.48	385	1.49	0.01
ZZ90570		1.62	42.9	2.63	3.88	0.06	0.07	0.12	0.031	0.14	20.5	24.6	0.68	615	3.41	0.01
ZZ90571		1.28	26.9	2.09	3.34	0.06	0.10	0.08	0.026	0.09	21.8	21.3	0.56	334	2.54	0.01
ZZ90572		1.48	25.2	2.23	4.41	<0.05	0.02	0.08	0.027	0.10	17.7	22.8	0.58	530	2.93	0.01
ZZ90573		1.24	18.9	1.80	3.79	<0.05	0.05	0.08	0.022	0.08	17.2	21.0	0.46	189	1.08	0.01
ZZ90574		1.34	16.7	1.72	4.49	<0.05	0.03	0.06	0.021	0.08	12.5	16.4	0.51	217	0.60	0.05
ZZ90575		1.39	12.2	1.78	5.37	<0.05	0.04	0.05	0.020	0.19	9.2	16.2	0.70	495	1.14	0.12
ZZ90576		1.47	17.6	2.46	6.58	<0.05	0.04	0.03	0.026	0.18	13.0	23.1	0.74	365	1.05	0.08
ZZ90577		1.09	17.1	2.17	4.88	<0.05	0.06	0.02	0.024	0.10	13.9	22.2	0.63	240	1.24	0.04
ZZ90578		1.61	17.1	2.04	4.71	<0.05	0.02	0.04	0.025	0.11	11.2	20.9	0.51	391	1.50	0.02
ZZ90579		2.67	34.3	2.58	5.75	0.07	0.09	0.08	0.037	0.26	17.4	23.9	0.91	360	4.58	0.09
ZZ90580		3.11	43.0	2.61	5.56	0.08	0.13	0.17	0.041	0.25	18.6	23.4	0.93	286	4.89	0.09

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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 20-SEP-2013
Account: RANSIL

Project: SNAIL

CERTIFICATE OF ANALYSIS WH13158870

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ90541		1.40	8.8	200	13.4	16.9	<0.001	0.01	0.40	1.6	0.3	0.6	8.7	<0.01	0.02	6.3
ZZ90542		0.85	5.2	180	11.8	13.5	<0.001	0.01	0.30	1.4	0.3	0.5	18.9	<0.01	0.02	5.7
ZZ90543		0.69	7.0	730	12.3	11.0	<0.001	0.07	0.85	1.4	0.8	0.2	47.5	<0.01	0.01	0.7
ZZ90544		0.70	6.6	620	12.8	13.4	<0.001	0.05	0.54	1.5	0.6	0.3	34.2	<0.01	0.01	0.8
ZZ90545		0.92	13.4	920	17.8	12.3	<0.001	0.07	1.02	2.5	1.3	0.4	46.3	<0.01	0.03	1.1
ZZ90546		0.70	8.5	600	10.8	8.9	<0.001	0.04	0.54	1.4	0.6	0.3	33.1	<0.01	0.01	0.9
ZZ90547		0.52	15.2	700	32.7	8.8	<0.001	0.01	1.25	3.2	0.8	0.3	16.5	<0.01	0.03	6.6
ZZ90548		0.93	14.2	470	14.0	11.8	<0.001	0.02	0.70	2.9	0.8	0.4	27.8	<0.01	0.02	2.7
ZZ90549		0.63	5.7	680	15.3	9.7	<0.001	0.05	0.83	1.2	0.6	0.3	20.2	<0.01	0.01	0.9
ZZ90550		0.75	8.4	560	15.4	11.5	<0.001	0.03	0.67	1.2	0.4	0.4	17.5	<0.01	0.02	1.0
ZZ90551		0.63	5.7	520	15.6	9.9	<0.001	0.02	0.81	0.9	0.3	0.4	13.9	<0.01	0.01	1.1
ZZ90552		0.75	7.9	520	24.1	11.9	<0.001	0.02	1.19	1.1	0.4	0.4	16.3	<0.01	0.01	1.0
ZZ90553		0.59	17.3	860	14.9	12.8	0.003	0.06	2.29	1.7	2.0	0.3	34.0	<0.01	0.01	1.0
ZZ90554		0.63	10.4	780	35.4	10.4	<0.001	0.04	1.72	2.4	1.0	0.4	22.4	<0.01	0.02	2.9
ZZ90555		0.58	9.2	660	25.0	7.7	<0.001	0.04	1.42	2.0	0.8	0.3	20.8	<0.01	0.02	1.7
ZZ90556		0.58	6.4	570	30.6	11.3	<0.001	0.04	0.99	0.8	0.5	0.3	21.5	<0.01	0.01	0.5
ZZ90557		0.80	5.5	440	13.4	10.2	<0.001	0.02	0.64	0.8	0.2	0.6	13.3	<0.01	0.02	1.1
ZZ90558		0.61	13.3	520	22.5	9.4	<0.001	0.05	1.58	2.8	1.1	0.4	32.3	<0.01	0.03	2.6
ZZ90559		1.08	4.8	200	6.4	6.6	<0.001	0.01	0.71	0.6	0.4	0.9	6.0	<0.01	0.02	0.7
ZZ90560		0.87	15.8	570	24.9	9.0	<0.001	<0.01	1.22	1.3	0.7	0.5	10.2	<0.01	0.02	1.7
ZZ90561		0.52	18.1	390	23.9	12.4	<0.001	<0.01	0.98	2.9	1.0	0.5	18.8	<0.01	0.02	3.2
ZZ90562		0.56	11.2	690	15.2	10.4	<0.001	0.03	0.70	1.8	0.8	0.4	16.9	<0.01	0.02	1.1
ZZ90563		1.00	24.0	790	21.0	8.3	0.002	0.02	3.17	3.3	2.6	1.0	38.2	<0.01	0.04	2.5
ZZ90564		0.78	17.9	790	21.8	8.7	0.001	0.02	3.71	2.4	1.8	1.2	31.5	<0.01	0.03	2.2
ZZ90565		0.68	12.5	710	17.1	10.2	0.001	0.04	1.26	2.0	1.1	0.4	31.6	<0.01	0.01	1.1
ZZ90566		0.63	24.2	820	40.9	5.5	0.001	0.01	7.97	3.3	2.5	2.8	31.6	<0.01	0.05	4.3
ZZ90567		0.58	12.5	750	12.6	9.7	0.001	0.03	1.40	2.0	0.9	0.6	23.4	<0.01	0.01	0.9
ZZ90568		0.78	24.7	820	33.1	8.8	0.001	0.01	3.82	4.2	1.9	1.0	33.5	<0.01	0.03	3.7
ZZ90569		0.49	21.9	780	18.8	5.5	0.002	<0.01	2.25	3.8	1.6	0.3	47.3	<0.01	0.03	4.7
ZZ90570		0.66	33.0	930	34.9	9.9	0.004	0.01	4.23	4.4	2.5	0.7	36.7	<0.01	0.03	4.9
ZZ90571		0.70	23.0	930	28.8	6.8	0.002	<0.01	3.19	3.8	1.3	0.6	27.9	<0.01	0.02	5.3
ZZ90572		0.80	18.9	950	23.1	14.4	0.002	0.02	2.12	2.7	1.9	0.6	24.8	<0.01	0.03	2.8
ZZ90573		0.80	15.2	750	19.8	10.7	0.001	0.01	1.11	2.7	1.6	0.5	24.8	<0.01	0.03	3.4
ZZ90574		1.01	15.2	660	12.4	11.5	<0.001	0.02	0.88	2.7	1.2	0.4	33.6	<0.01	0.01	1.9
ZZ90575		1.22	12.1	690	10.9	15.6	0.001	0.03	0.76	2.8	0.7	0.4	53.6	<0.01	0.01	1.9
ZZ90576		1.67	19.8	470	12.0	18.6	<0.001	<0.01	0.84	4.2	0.8	0.7	64.4	<0.01	0.02	3.9
ZZ90577		1.25	18.6	190	19.4	12.3	<0.001	<0.01	1.66	3.3	0.8	0.6	27.5	<0.01	0.03	4.4
ZZ90578		1.15	19.2	370	16.2	20.7	<0.001	<0.01	1.33	2.8	0.7	0.6	28.6	<0.01	0.02	2.0
ZZ90579		1.13	35.1	1180	41.1	22.1	0.002	0.01	9.70	4.3	1.9	1.4	59.5	<0.01	0.05	5.5
ZZ90580		1.17	37.3	1160	47.1	20.2	0.002	0.02	13.50	4.9	2.1	2.1	60.9	<0.01	0.04	6.1

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CERTIFICATE OF ANALYSIS WH13158870

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ90541		0.014	0.13	0.75	32	0.20	4.69	46	1.8
ZZ90542		0.011	0.12	0.82	26	0.14	5.11	61	0.9
ZZ90543		0.016	0.09	2.87	18	0.08	10.20	38	1.5
ZZ90544		0.013	0.10	2.60	16	0.29	8.03	47	1.3
ZZ90545		0.015	0.13	5.01	30	0.16	20.6	65	1.1
ZZ90546		0.019	0.08	2.04	23	0.09	6.48	46	1.1
ZZ90547		0.008	0.11	1.07	23	0.08	9.14	107	1.4
ZZ90548		0.018	0.10	1.99	28	0.19	12.95	57	1.0
ZZ90549		0.016	0.09	2.95	20	0.08	7.08	58	0.7
ZZ90550		0.012	0.12	1.52	25	0.15	6.44	58	<0.5
ZZ90551		0.011	0.11	0.93	25	0.13	3.80	48	<0.5
ZZ90552		0.013	0.12	1.07	22	0.22	4.90	79	<0.5
ZZ90553		0.016	0.11	3.63	26	0.13	12.55	184	1.9
ZZ90554		0.009	0.12	1.27	31	0.08	6.24	98	1.2
ZZ90555		0.011	0.10	1.15	25	0.08	7.65	62	1.3
ZZ90556		0.011	0.11	1.62	17	0.14	7.63	56	<0.5
ZZ90557		0.010	0.12	0.59	30	0.12	3.75	43	<0.5
ZZ90558		0.008	0.12	1.84	26	0.09	11.05	90	1.8
ZZ90559		0.023	0.13	0.78	53	0.40	2.75	23	<0.5
ZZ90560		0.017	0.09	0.76	32	0.17	4.10	120	<0.5
ZZ90561		0.007	0.10	1.07	28	0.12	12.85	112	0.8
ZZ90562		0.011	0.12	1.93	30	0.10	6.35	82	0.6
ZZ90563		0.025	0.13	4.06	48	0.15	14.15	99	1.6
ZZ90564		0.021	0.13	1.50	47	0.13	9.86	123	1.2
ZZ90565		0.014	0.10	1.28	27	0.13	7.54	84	1.1
ZZ90566		0.016	0.16	1.51	57	0.12	12.70	153	2.7
ZZ90567		0.015	0.11	1.40	30	0.11	8.23	88	0.8
ZZ90568		0.014	0.14	1.86	51	0.10	12.20	185	2.0
ZZ90569		0.017	0.11	0.71	30	0.11	10.35	118	4.0
ZZ90570		0.013	0.17	1.07	58	0.09	12.80	248	3.0
ZZ90571		0.015	0.11	1.14	43	0.08	11.65	187	4.8
ZZ90572		0.013	0.17	1.54	55	0.10	7.46	150	0.8
ZZ90573		0.012	0.12	1.53	36	0.11	8.07	111	1.6
ZZ90574		0.034	0.12	0.96	33	0.09	6.88	87	1.2
ZZ90575		0.051	0.10	0.80	32	0.14	4.65	65	1.5
ZZ90576		0.059	0.12	0.82	42	0.20	7.14	71	1.6
ZZ90577		0.035	0.11	0.59	36	0.15	4.20	76	2.8
ZZ90578		0.037	0.13	0.59	40	0.19	3.73	87	0.7
ZZ90579		0.058	0.24	1.46	83	0.13	11.10	265	4.5
ZZ90580		0.054	0.24	1.73	79	0.14	13.70	275	5.9

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CERTIFICATE OF ANALYSIS WH13158870

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ90581		0.39	0.006	1.20	1.19	27.5	<0.2	<10	320	0.61	0.21	0.55	1.90	36.7	6.3	18
ZZ90582		0.52	0.004	0.39	1.82	32.0	<0.2	<10	280	0.61	0.41	0.57	1.32	31.4	10.8	27
ZZ90583		0.30	0.004	0.36	1.25	17.3	<0.2	<10	270	0.52	0.16	0.49	1.88	25.2	5.2	20
ZZ90584		0.30	0.002	0.22	0.81	5.6	<0.2	<10	150	0.28	0.10	0.28	0.27	13.10	3.8	12
ZZ90585		0.33	0.004	0.18	1.28	7.5	<0.2	<10	190	0.46	0.16	0.67	0.29	19.05	6.5	16
ZZ90586		0.34	0.003	0.28	1.76	8.5	<0.2	<10	300	0.64	0.18	0.45	0.78	26.7	7.8	25
ZZ90587		0.32	0.004	0.59	1.42	18.4	<0.2	<10	250	0.49	0.20	0.70	2.21	18.30	5.2	18
ZZ90588		0.39	0.004	0.35	1.58	9.6	<0.2	<10	320	0.56	0.19	0.39	0.80	28.1	4.5	24
ZZ90589		0.26	0.001	0.11	0.62	2.5	<0.2	<10	90	0.13	0.05	0.15	0.08	6.78	1.1	10
ZZ90590		0.25	0.002	0.12	0.71	4.5	<0.2	<10	120	0.16	0.11	0.17	0.30	14.05	1.9	14
ZZ90591		0.30	0.002	0.21	1.60	11.7	<0.2	<10	190	0.40	0.17	0.57	0.47	18.90	8.6	23
ZZ90592		0.29	0.003	0.31	1.56	16.1	<0.2	<10	200	0.51	0.17	0.91	0.93	18.30	7.6	21
ZZ90593		0.24	0.009	0.32	2.01	19.5	<0.2	<10	230	0.63	0.20	1.29	0.93	18.90	6.3	24
ZZ84836		0.30	0.001	0.36	1.37	49.4	<0.2	<10	220	0.49	0.58	1.21	0.33	17.65	4.7	19
ZZ84837		0.30	0.002	0.33	0.80	88.2	<0.2	<10	200	0.51	0.49	1.56	2.25	14.10	3.3	11
ZZ84838		0.31	0.001	0.34	0.47	4.4	<0.2	<10	80	0.17	0.11	0.06	0.14	7.40	1.7	7
ZZ84839		0.31	0.002	0.51	0.85	7.2	<0.2	<10	110	0.29	0.17	0.07	0.27	16.25	3.9	13
ZZ84840		0.44	0.003	0.20	1.23	9.3	<0.2	<10	180	0.42	0.24	0.11	0.36	24.5	4.1	20
ZZ84841		0.32	0.002	0.26	1.06	8.8	<0.2	<10	130	0.39	0.24	0.20	0.47	19.85	3.2	17
ZZ84842		0.44	0.001	0.20	1.48	10.9	<0.2	<10	120	0.38	0.23	0.09	0.27	25.1	4.5	22
ZZ84843		0.32	0.003	0.35	1.22	31.3	<0.2	<10	160	0.43	0.45	0.11	0.45	20.1	4.0	21
ZZ84844		0.38	0.001	0.21	0.77	5.4	<0.2	<10	80	0.20	0.15	0.10	0.16	15.15	2.0	11
ZZ84845		0.26	0.002	0.19	0.90	7.4	<0.2	<10	110	0.28	0.17	0.08	0.25	13.95	2.5	12
ZZ84846		0.42	0.006	0.44	1.46	19.1	<0.2	<10	330	0.65	0.32	0.28	0.32	26.9	6.3	27
ZZ84847		0.32	0.006	0.49	1.44	19.4	<0.2	<10	420	0.65	0.32	0.31	0.48	30.3	7.1	27
ZZ84848		0.31	0.005	0.34	1.63	18.6	<0.2	<10	430	0.70	0.42	0.21	0.29	32.9	8.2	28
ZZ84849		0.36	0.005	0.34	1.38	17.4	<0.2	<10	380	0.63	0.31	0.20	0.67	27.5	6.5	22
ZZ84850		0.43	0.004	0.44	1.75	22.6	<0.2	<10	420	0.74	0.35	0.29	0.62	30.4	11.1	28
ZZ84851		0.42	0.004	0.41	1.63	18.2	<0.2	<10	280	0.69	0.32	0.21	0.53	23.0	7.4	25
ZZ84852		0.43	0.004	0.29	1.73	16.1	<0.2	<10	230	0.65	0.29	0.13	0.37	28.5	10.5	27
ZZ84853		0.41	0.004	0.55	1.69	17.8	<0.2	<10	270	0.63	0.37	0.44	1.08	27.7	8.2	29
ZZ84854		0.37	0.003	0.40	1.35	12.5	<0.2	<10	190	0.48	0.74	0.24	0.68	23.9	5.4	28
ZZ84855		0.45	0.016	1.36	2.80	54.6	<0.2	<10	480	1.39	0.32	1.08	3.53	28.1	10.0	90
ZZ84856		0.43	0.010	1.03	2.17	31.8	<0.2	<10	680	1.16	0.43	0.47	1.27	31.1	8.8	55
ZZ84857		0.45	0.003	0.34	1.62	17.9	<0.2	<10	200	0.60	0.30	0.22	0.31	27.4	9.4	28
ZZ84858		0.45	0.005	0.70	2.05	18.9	<0.2	<10	220	0.67	0.28	0.20	0.52	20.9	6.5	36
ZZ84859		0.57	0.007	0.65	2.16	31.1	<0.2	<10	510	0.82	0.42	0.38	0.78	28.8	8.7	44
ZZ84860		0.41	0.004	0.68	1.86	18.9	<0.2	<10	190	0.55	0.29	0.34	0.42	21.3	8.2	27
ZZ84861		0.39	0.003	0.75	1.00	13.8	<0.2	<10	120	0.26	0.21	0.12	0.26	18.35	4.1	19
ZZ84862		0.44	0.004	0.80	1.72	17.0	<0.2	<10	210	0.77	0.28	0.17	0.33	37.7	7.0	29

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 20-SEP-2013
Account: RANSIL

Project: SNAIL

CERTIFICATE OF ANALYSIS WH13158870

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ90581		1.75	43.1	2.12	3.52	0.06	0.06	0.14	0.039	0.13	20.0	18.8	0.56	240	6.10	0.02
ZZ90582		1.66	32.9	2.45	5.13	0.05	0.05	0.09	0.053	0.09	16.6	18.2	0.67	363	2.76	0.03
ZZ90583		1.77	27.9	1.68	3.82	<0.05	<0.02	0.12	0.030	0.09	13.6	13.5	0.44	176	2.30	0.01
ZZ90584		1.06	11.7	1.24	2.82	<0.05	<0.02	0.07	0.013	0.05	6.8	7.5	0.27	141	1.42	0.02
ZZ90585		1.14	12.7	1.54	3.83	<0.05	0.03	0.06	0.016	0.07	9.8	13.4	0.43	325	1.46	0.04
ZZ90586		1.73	21.1	1.82	5.05	<0.05	0.03	0.10	0.024	0.10	14.0	20.0	0.63	370	1.16	0.02
ZZ90587		1.33	30.4	1.46	3.74	<0.05	0.03	0.07	0.021	0.06	9.8	13.9	0.44	310	1.94	0.01
ZZ90588		1.93	24.5	1.65	4.68	<0.05	0.03	0.09	0.027	0.10	14.9	17.9	0.62	113	0.99	0.01
ZZ90589		0.91	8.7	0.58	2.29	<0.05	<0.02	0.03	0.008	0.05	3.3	5.2	0.39	32	0.56	0.02
ZZ90590		0.96	11.1	0.87	3.15	<0.05	<0.02	0.05	0.010	0.05	7.4	5.6	0.24	64	0.62	0.01
ZZ90591		2.21	16.6	2.15	4.98	<0.05	0.02	0.05	0.019	0.12	9.9	16.9	0.85	537	2.74	0.04
ZZ90592		1.88	23.2	2.09	4.53	<0.05	0.03	0.05	0.020	0.11	9.7	14.8	0.85	556	1.87	0.02
ZZ90593		1.83	29.9	1.96	4.94	<0.05	0.05	0.05	0.021	0.12	10.3	15.6	1.43	225	0.89	0.02
ZZ84836		1.32	24.8	1.50	3.84	<0.05	0.04	0.06	0.039	0.10	9.4	12.9	0.88	183	0.89	0.03
ZZ84837		1.02	46.0	1.43	2.46	<0.05	0.03	0.04	0.038	0.07	7.3	6.0	0.33	202	0.91	0.02
ZZ84838		0.73	14.3	0.78	2.83	<0.05	<0.02	0.02	0.012	0.02	3.9	3.5	0.06	32	1.61	0.01
ZZ84839		1.20	13.9	1.42	4.17	<0.05	<0.02	0.03	0.017	0.03	8.3	8.1	0.17	93	2.21	0.01
ZZ84840		1.66	17.5	1.58	5.17	<0.05	<0.02	0.06	0.024	0.03	12.3	9.2	0.20	99	2.31	<0.01
ZZ84841		1.57	25.6	1.34	5.70	<0.05	<0.02	0.01	0.020	0.03	11.1	9.9	0.23	92	6.18	0.01
ZZ84842		1.54	10.9	2.09	5.38	<0.05	0.02	0.05	0.025	0.04	13.3	12.4	0.29	115	1.54	<0.01
ZZ84843		2.33	23.3	2.12	7.50	<0.05	<0.02	0.02	0.035	0.06	10.7	13.4	0.24	165	6.31	<0.01
ZZ84844		0.96	12.9	1.04	3.62	<0.05	<0.02	0.03	0.014	0.03	7.8	6.0	0.15	54	1.01	0.01
ZZ84845		1.27	15.2	1.17	4.12	<0.05	<0.02	0.02	0.014	0.03	7.2	8.1	0.15	71	1.77	0.01
ZZ84846		2.43	37.7	1.96	5.44	<0.05	<0.02	0.06	0.033	0.05	13.9	20.7	0.43	168	7.25	0.02
ZZ84847		2.00	34.6	2.05	5.25	<0.05	<0.02	0.05	0.035	0.05	15.6	18.4	0.42	246	5.65	0.01
ZZ84848		2.00	33.7	2.29	5.47	<0.05	0.03	0.06	0.035	0.06	17.2	18.4	0.54	263	4.70	0.01
ZZ84849		1.98	29.9	1.90	5.31	<0.05	0.03	0.05	0.029	0.05	14.5	16.3	0.31	162	4.57	0.01
ZZ84850		2.48	34.7	2.40	5.23	0.05	0.05	0.05	0.039	0.07	15.0	19.9	0.47	338	5.79	0.01
ZZ84851		2.18	32.3	2.02	5.86	<0.05	0.02	0.04	0.031	0.07	12.0	18.7	0.36	184	5.61	0.01
ZZ84852		2.02	23.3	2.31	5.64	<0.05	0.04	0.04	0.033	0.06	14.8	17.6	0.41	242	3.94	0.01
ZZ84853		2.60	44.5	2.29	6.00	<0.05	0.03	0.05	0.038	0.06	13.2	32.8	0.44	176	4.92	0.01
ZZ84854		1.55	20.1	1.67	5.43	<0.05	<0.02	0.03	0.022	0.06	12.6	13.7	0.31	141	2.46	0.01
ZZ84855		4.47	74.0	3.07	10.10	0.11	0.14	0.05	0.050	0.16	16.5	46.3	1.71	460	9.53	0.06
ZZ84856		3.12	65.4	2.44	7.50	0.06	0.05	0.09	0.048	0.10	18.4	29.7	0.69	269	9.36	0.03
ZZ84857		1.99	20.4	2.53	5.18	<0.05	0.05	0.05	0.037	0.07	14.1	18.4	0.45	288	3.92	0.01
ZZ84858		2.47	35.3	2.06	6.42	<0.05	0.05	0.04	0.036	0.07	11.4	22.6	0.70	207	5.25	0.01
ZZ84859		2.67	47.1	2.45	6.44	0.05	0.07	0.05	0.053	0.10	14.3	26.1	0.54	239	8.37	0.02
ZZ84860		2.19	27.9	2.59	5.50	<0.05	0.04	0.05	0.040	0.07	11.1	22.0	0.43	212	7.43	0.01
ZZ84861		1.72	24.5	1.60	4.69	<0.05	<0.02	0.07	0.021	0.04	9.6	9.4	0.25	172	5.29	0.01
ZZ84862		1.89	29.1	2.68	5.37	0.05	0.04	0.10	0.033	0.06	19.5	14.1	0.43	238	6.36	0.01

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Finalized Date: 20-SEP-2013
Account: RANSIL

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CERTIFICATE OF ANALYSIS WH13158870

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ90581		0.90	30.4	980	123.5	12.0	0.001	0.02	25.8	3.6	2.6	3.2	41.4	<0.01	0.05	4.2
ZZ90582		1.62	29.2	1070	30.1	13.9	0.002	0.01	4.31	3.4	1.8	1.3	38.6	<0.01	0.03	4.2
ZZ90583		1.04	23.9	1010	42.1	13.0	0.003	0.03	8.25	2.1	2.5	1.8	34.9	<0.01	0.03	1.0
ZZ90584		0.74	9.5	650	13.2	7.3	0.001	0.02	2.26	1.2	0.9	0.5	21.1	<0.01	0.01	0.7
ZZ90585		1.01	11.4	600	9.4	12.0	0.001	0.03	1.59	2.2	1.1	0.4	36.2	<0.01	<0.01	1.7
ZZ90586		1.36	22.7	760	23.6	15.5	0.002	0.02	3.19	3.2	1.6	1.0	32.1	<0.01	0.02	2.4
ZZ90587		0.74	22.7	830	20.8	14.9	0.007	0.06	4.07	1.6	3.8	0.7	39.3	<0.01	0.02	0.8
ZZ90588		1.18	18.8	1050	21.2	15.8	0.002	0.04	2.04	2.5	1.9	0.8	31.8	<0.01	0.02	1.6
ZZ90589		0.59	5.6	460	4.4	6.0	0.001	0.01	0.63	0.5	0.5	0.2	13.5	<0.01	<0.01	<0.2
ZZ90590		0.74	6.8	540	6.4	8.2	0.001	0.02	0.77	0.9	0.9	0.4	15.2	<0.01	0.01	0.3
ZZ90591		1.26	15.5	970	18.6	17.0	0.002	0.04	3.04	2.3	1.4	0.7	38.7	<0.01	0.02	1.2
ZZ90592		1.11	18.5	910	14.4	19.0	0.003	0.05	3.29	2.3	1.9	0.6	40.7	<0.01	0.02	1.1
ZZ90593		1.20	24.3	750	15.7	21.3	0.002	0.06	3.51	2.6	2.0	0.7	46.7	<0.01	0.02	1.5
ZZ84836		0.96	17.0	700	17.5	18.0	0.002	0.05	2.95	2.1	1.2	1.0	55.1	<0.01	0.03	1.8
ZZ84837		0.55	17.7	700	14.7	12.4	0.001	0.07	2.84	1.4	1.8	0.8	55.6	<0.01	0.02	0.9
ZZ84838		0.33	6.9	270	5.6	4.4	<0.001	0.03	0.38	0.3	0.8	0.3	9.0	<0.01	0.01	<0.2
ZZ84839		0.92	10.2	240	8.4	6.8	<0.001	0.02	0.67	1.3	0.6	0.5	8.9	<0.01	0.01	1.3
ZZ84840		0.55	13.8	550	12.2	8.9	<0.001	0.03	0.72	0.6	1.7	0.6	13.0	<0.01	0.02	<0.2
ZZ84841		0.96	13.5	310	11.1	9.9	<0.001	0.03	0.83	1.2	1.3	0.6	21.2	<0.01	0.03	0.6
ZZ84842		1.53	11.6	350	13.5	11.2	<0.001	0.02	0.60	2.4	1.1	0.7	9.7	0.01	0.02	4.5
ZZ84843		1.37	18.4	1000	31.3	11.6	<0.001	0.04	2.54	1.7	1.3	1.2	18.0	<0.01	0.05	1.3
ZZ84844		0.69	6.3	380	8.1	6.7	<0.001	0.02	0.40	0.8	0.8	0.4	13.1	<0.01	0.01	0.4
ZZ84845		0.41	8.7	360	9.6	6.4	<0.001	0.03	0.65	0.4	0.7	0.4	11.8	<0.01	0.02	<0.2
ZZ84846		0.89	29.3	800	17.3	10.9	<0.001	0.04	2.19	2.3	2.6	0.7	30.7	<0.01	0.05	1.4
ZZ84847		0.82	29.4	800	20.0	9.7	0.001	0.03	2.13	2.7	2.3	0.7	29.6	<0.01	0.03	1.4
ZZ84848		1.26	30.4	590	20.2	10.5	<0.001	0.04	2.02	3.6	1.9	0.8	21.8	<0.01	0.04	5.1
ZZ84849		1.20	28.2	380	20.0	10.8	0.001	0.03	1.80	2.6	1.9	0.8	24.2	<0.01	0.04	4.3
ZZ84850		1.22	38.9	870	20.8	12.4	<0.001	0.04	2.36	3.3	1.9	0.9	30.9	<0.01	0.05	5.5
ZZ84851		1.09	27.3	670	17.6	11.3	<0.001	0.05	1.89	2.1	1.4	0.7	30.1	<0.01	0.04	1.5
ZZ84852		1.41	25.2	530	16.3	13.1	<0.001	0.03	1.46	3.2	1.7	0.7	17.9	0.01	0.03	4.9
ZZ84853		1.36	73.1	680	17.3	18.6	0.001	0.03	1.56	3.0	1.3	0.7	28.3	<0.01	0.04	3.8
ZZ84854		1.20	20.8	780	12.7	10.7	<0.001	0.03	1.05	2.2	1.0	0.8	21.7	0.01	0.03	2.7
ZZ84855		0.90	65.2	2810	32.0	20.7	0.001	0.08	7.10	7.4	5.1	1.6	115.0	<0.01	0.11	6.7
ZZ84856		1.42	44.2	1070	23.9	14.4	0.001	0.10	3.16	5.9	4.3	1.0	54.1	<0.01	0.10	4.9
ZZ84857		1.40	23.4	780	15.7	12.7	<0.001	0.04	1.54	3.6	2.7	0.7	21.5	<0.01	0.04	5.4
ZZ84858		1.48	24.7	700	15.9	11.6	<0.001	0.06	1.88	2.8	3.3	0.8	26.2	0.01	0.04	2.9
ZZ84859		1.41	36.1	950	25.2	15.3	0.001	0.10	3.36	4.2	4.7	0.9	55.0	<0.01	0.08	5.3
ZZ84860		1.52	23.8	540	14.8	12.9	0.001	0.06	1.99	3.1	3.0	0.7	30.9	0.01	0.04	4.5
ZZ84861		0.38	10.1	750	10.3	9.5	0.001	0.04	1.84	0.6	2.6	0.5	22.0	<0.01	0.03	<0.2
ZZ84862		1.48	17.1	700	15.7	12.1	0.001	0.04	3.26	4.2	4.3	0.6	20.1	0.01	0.05	5.9

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CERTIFICATE OF ANALYSIS WH13158870

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ90581		0.028	0.20	2.00	60	0.56	12.40	224	2.5
ZZ90582		0.066	0.19	2.20	82	0.46	8.28	245	1.9
ZZ90583		0.026	0.20	2.14	77	0.56	8.25	173	0.5
ZZ90584		0.031	0.10	0.76	36	0.18	2.97	67	0.6
ZZ90585		0.037	0.10	0.83	30	0.22	5.15	70	1.3
ZZ90586		0.043	0.17	1.66	54	0.14	7.57	158	1.1
ZZ90587		0.028	0.12	2.14	52	0.13	7.15	204	1.2
ZZ90588		0.030	0.18	2.01	60	0.17	8.39	127	1.0
ZZ90589		0.022	0.08	0.38	23	0.06	1.50	26	<0.5
ZZ90590		0.027	0.11	0.76	32	0.32	2.59	38	<0.5
ZZ90591		0.058	0.13	0.86	59	0.12	4.66	128	0.8
ZZ90592		0.050	0.14	1.28	71	0.11	5.94	147	1.1
ZZ90593		0.048	0.17	1.77	68	0.50	8.19	150	2.0
ZZ84836		0.035	0.13	1.48	48	0.14	6.57	80	1.8
ZZ84837		0.017	0.09	1.93	31	0.10	6.13	80	1.4
ZZ84838		0.025	0.08	0.41	25	0.26	1.42	16	<0.5
ZZ84839		0.036	0.13	0.60	39	0.73	2.77	29	<0.5
ZZ84840		0.015	0.18	1.31	39	0.30	6.26	35	<0.5
ZZ84841		0.030	0.14	0.70	45	0.30	3.57	67	<0.5
ZZ84842		0.034	0.16	0.86	45	0.43	3.83	46	0.9
ZZ84843		0.044	0.14	0.82	75	0.34	4.29	93	0.5
ZZ84844		0.025	0.11	0.48	30	0.20	2.52	20	<0.5
ZZ84845		0.019	0.11	0.53	33	0.18	2.28	28	<0.5
ZZ84846		0.036	0.25	1.84	54	0.28	8.13	94	<0.5
ZZ84847		0.035	0.24	1.99	56	0.29	9.55	104	<0.5
ZZ84848		0.040	0.23	1.68	56	0.34	10.30	86	1.3
ZZ84849		0.035	0.20	1.50	53	0.60	7.32	108	1.2
ZZ84850		0.039	0.28	1.52	56	0.29	8.27	117	2.2
ZZ84851		0.032	0.22	1.49	64	0.33	6.21	97	0.6
ZZ84852		0.039	0.22	1.23	56	0.40	5.82	70	1.3
ZZ84853		0.039	0.45	1.98	54	0.27	7.51	131	1.2
ZZ84854		0.039	0.22	0.83	52	0.30	4.94	73	0.6
ZZ84855		0.062	0.64	2.58	93	0.36	19.75	214	7.7
ZZ84856		0.062	0.54	2.63	102	0.32	17.05	130	2.3
ZZ84857		0.038	0.23	1.48	54	0.36	6.53	87	1.8
ZZ84858		0.048	0.39	1.15	77	0.30	5.11	71	1.5
ZZ84859		0.048	0.54	2.53	93	0.39	8.29	116	3.2
ZZ84860		0.037	0.43	1.10	63	0.33	4.48	68	1.8
ZZ84861		0.019	0.32	1.64	46	0.24	4.01	46	<0.5
ZZ84862		0.038	0.39	2.67	57	0.41	11.45	67	1.5

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 20-SEP-2013
Account: RANSIL

Project: SNAIL

CERTIFICATE OF ANALYSIS WH13158870

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ84863		0.45	0.014	1.59	1.33	32.3	<0.2	<10	480	0.74	0.39	0.27	0.66	24.9	5.1	37
ZZ84864		0.39	0.003	0.47	1.32	15.1	<0.2	<10	170	0.39	0.29	0.17	0.28	25.2	5.0	22
ZZ84865		0.43	0.005	0.25	2.34	26.6	<0.2	<10	280	1.78	0.20	0.17	0.81	25.9	18.4	26
ZZ84866		0.36	0.002	0.51	0.66	10.5	<0.2	<10	70	0.17	0.20	0.06	0.23	16.40	3.1	14
ZZ84867		0.34	0.001	0.07	0.35	1.2	<0.2	<10	40	0.08	0.03	0.45	0.18	4.37	1.5	4
ZZ84868		0.26	0.003	0.49	1.22	3.4	<0.2	<10	150	0.38	0.11	1.77	0.41	7.96	4.3	45
ZZ84869		0.31	0.002	0.31	0.84	2.9	<0.2	<10	120	0.30	0.08	1.90	0.97	8.22	3.1	25
ZZ84870		0.43	0.003	0.67	1.55	12.0	<0.2	<10	440	0.86	0.18	3.30	4.62	30.0	5.8	131
ZZ84871		0.33	0.004	0.52	1.07	6.3	<0.2	<10	300	0.52	0.14	2.33	2.24	18.55	4.7	49
ZZ84872		0.27	0.004	0.50	1.38	6.7	<0.2	<10	170	0.39	0.12	1.00	1.03	13.20	6.0	48
ZZ84873		0.49	0.007	0.90	2.08	10.1	<0.2	<10	130	0.72	0.14	2.20	2.87	13.80	7.9	79
ZZ84874		0.50	0.003	0.44	1.20	9.1	<0.2	<10	260	0.39	0.21	1.01	0.50	17.65	5.2	36
ZZ84875		0.57	0.007	0.71	1.40	14.8	<0.2	<10	380	0.58	0.28	0.87	1.24	23.2	6.6	43
ZZ84876		0.49	0.005	0.56	1.31	16.7	<0.2	<10	320	0.60	0.27	1.25	1.50	31.4	7.9	42
ZZ84877		0.43	0.006	1.11	1.48	13.2	<0.2	<10	430	0.74	0.22	4.04	4.69	25.0	5.2	101
ZZ84878		0.30	0.004	0.36	0.83	57.4	<0.2	<10	240	0.29	0.24	1.31	1.83	11.35	4.1	20
ZZ84879		0.50	0.005	0.86	1.62	17.2	<0.2	<10	370	0.65	0.29	1.10	1.19	23.3	6.9	49
ZZ84880		0.34	0.005	0.52	1.10	8.4	<0.2	<10	320	0.44	0.21	1.34	1.28	17.65	6.1	29
ZZ84881		0.45	0.007	0.95	1.82	23.2	<0.2	<10	410	0.85	0.40	1.42	2.38	24.7	9.3	54
ZZ84882		0.41	0.005	0.58	1.52	21.3	<0.2	<10	380	0.66	0.33	0.57	0.65	26.2	7.6	36
ZZ84883		0.26	0.004	0.93	1.40	34.2	<0.2	<10	630	0.61	0.60	0.17	0.35	29.4	53.4	23
ZZ84884		0.42	0.002	0.44	1.09	25.0	<0.2	<10	400	0.38	0.38	0.26	0.66	12.45	6.1	20
ZZ84885		0.33	0.002	0.87	0.68	17.0	<0.2	<10	430	0.31	0.36	0.23	0.09	11.95	3.4	10

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VANCOUVER BC V6B 1L8

Finalized Date: 20-SEP-2013
Account: RANSIL

Project: SNAIL

CERTIFICATE OF ANALYSIS WH13158870

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ84863		2.57	52.5	2.15	5.79	0.10	0.17	0.15	0.055	0.14	13.4	17.8	0.48	263	15.50	0.04
ZZ84864		1.78	21.4	2.05	5.49	<0.05	<0.02	0.09	0.027	0.05	13.0	11.9	0.30	146	6.70	0.01
ZZ84865		6.45	117.0	3.16	8.14	0.09	0.13	0.06	0.048	0.16	11.3	61.6	1.81	477	9.77	0.03
ZZ84866		1.29	16.9	1.49	5.18	<0.05	<0.02	0.03	0.015	0.04	8.5	5.7	0.17	100	3.07	<0.01
ZZ84867		0.31	9.3	0.38	1.48	<0.05	0.02	0.01	<0.005	0.03	2.1	1.9	0.09	81	0.60	0.04
ZZ84868		1.11	21.9	0.97	4.90	0.05	0.04	0.03	0.023	0.03	4.7	14.1	1.20	308	0.62	0.03
ZZ84869		1.22	22.5	0.74	3.10	0.05	0.06	0.03	0.017	0.05	4.8	8.1	0.66	82	0.31	0.04
ZZ84870		2.80	27.0	1.67	5.75	0.07	0.07	0.05	0.040	0.12	23.5	17.3	1.30	502	1.37	0.03
ZZ84871		1.09	27.2	1.14	3.83	<0.05	0.04	0.07	0.023	0.05	12.6	9.7	0.71	246	0.82	0.02
ZZ84872		2.17	27.4	1.32	5.53	0.05	0.05	0.05	0.027	0.06	7.3	15.4	1.40	246	4.02	0.04
ZZ84873		3.43	62.6	1.92	8.72	0.10	0.12	0.09	0.035	0.24	7.9	22.5	2.98	317	3.74	0.04
ZZ84874		1.79	18.3	1.24	4.41	<0.05	0.05	0.05	0.022	0.08	9.8	13.0	0.62	232	2.79	0.03
ZZ84875		2.38	35.6	1.57	5.29	0.05	0.05	0.07	0.029	0.10	13.4	16.3	0.66	284	4.98	0.05
ZZ84876		2.23	34.0	1.92	4.68	0.05	0.02	0.16	0.030	0.10	18.3	14.3	0.73	267	3.32	0.02
ZZ84877		3.07	37.2	1.48	5.90	0.07	0.04	0.07	0.033	0.16	19.0	15.9	0.90	204	4.49	0.06
ZZ84878		1.37	26.4	0.82	2.82	<0.05	0.05	0.04	0.017	0.05	7.4	7.8	0.35	1110	2.81	0.05
ZZ84879		2.69	32.3	1.67	6.06	0.06	0.07	0.05	0.030	0.11	13.3	19.0	1.03	313	4.42	0.08
ZZ84880		1.33	26.0	1.20	4.07	0.06	0.04	0.06	0.024	0.08	9.5	12.4	0.57	379	2.79	0.03
ZZ84881		3.54	56.0	2.01	6.68	0.07	0.08	0.07	0.035	0.17	14.1	27.1	1.11	378	4.60	0.09
ZZ84882		2.04	34.4	1.86	5.04	<0.05	0.03	0.08	0.031	0.08	14.0	15.3	0.72	339	3.07	0.04
ZZ84883		2.83	52.3	2.03	5.42	<0.05	<0.02	0.07	0.041	0.08	13.5	15.0	0.38	2840	2.85	0.01
ZZ84884		2.17	22.4	1.32	3.93	<0.05	0.02	0.03	0.024	0.11	6.7	13.1	0.38	164	1.59	0.02
ZZ84885		1.21	23.6	0.92	2.45	<0.05	<0.02	0.04	0.023	0.07	6.9	6.5	0.17	166	1.21	0.02

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 20-SEP-2013
Account: RANSIL

Project: SNAIL

CERTIFICATE OF ANALYSIS WH13158870

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ84863		0.91	23.2	860	22.2	16.2	0.001	0.26	5.40	5.1	12.1	0.9	76.8	<0.01	0.10	5.5
ZZ84864		0.91	15.4	550	16.0	11.1	0.001	0.05	3.05	1.7	3.2	0.7	29.3	<0.01	0.05	0.7
ZZ84865		1.32	62.0	770	10.1	20.4	0.002	0.21	2.44	5.2	4.2	0.8	103.0	<0.01	0.14	4.4
ZZ84866		0.94	8.0	270	8.2	9.1	0.002	0.04	1.23	1.1	2.4	0.5	12.0	<0.01	0.02	0.5
ZZ84867		0.25	3.3	390	1.2	4.4	0.001	0.04	0.27	0.4	1.2	<0.2	17.3	<0.01	<0.01	0.2
ZZ84868		0.47	16.8	960	7.4	5.0	0.001	0.07	0.53	2.2	1.6	0.3	60.7	<0.01	0.02	0.7
ZZ84869		0.60	10.6	840	4.6	7.7	0.001	0.08	0.82	2.0	2.0	0.2	61.3	<0.01	0.01	0.7
ZZ84870		0.76	36.6	>10000	12.0	20.9	<0.001	0.07	1.51	4.7	2.2	0.5	132.0	<0.01	0.03	2.4
ZZ84871		0.51	21.1	2870	8.3	9.0	0.002	0.12	1.35	1.2	3.3	0.3	77.8	<0.01	0.03	0.5
ZZ84872		0.86	25.5	1300	8.2	12.9	0.001	0.05	1.10	3.4	2.3	0.4	57.7	<0.01	0.03	2.5
ZZ84873		0.94	39.6	1420	10.4	23.5	<0.001	0.06	2.12	6.5	2.4	0.5	50.2	<0.01	0.02	3.9
ZZ84874		0.95	18.9	1440	9.5	15.2	0.004	0.07	1.01	2.3	1.9	0.5	40.3	<0.01	0.03	1.8
ZZ84875		1.15	30.3	1890	13.1	19.6	0.001	0.04	1.89	3.5	1.6	0.6	45.9	<0.01	0.04	3.3
ZZ84876		1.08	32.4	2260	15.1	16.7	0.001	0.03	2.51	4.4	1.9	0.7	53.2	<0.01	0.04	4.6
ZZ84877		1.15	37.1	5000	11.8	20.9	0.002	0.06	2.32	4.3	2.4	0.8	197.0	<0.01	0.04	2.7
ZZ84878		0.57	14.9	1120	15.8	10.3	0.001	0.07	7.64	1.5	1.5	0.3	46.2	<0.01	0.04	0.6
ZZ84879		1.24	29.0	1850	17.1	17.9	0.003	0.04	1.98	4.1	1.8	0.7	56.1	<0.01	0.06	3.6
ZZ84880		0.81	21.0	1220	9.5	14.9	0.009	0.11	1.36	2.1	8.2	0.4	57.2	<0.01	0.03	1.3
ZZ84881		1.51	43.0	1880	16.0	30.5	0.001	0.05	2.79	5.2	1.8	0.8	64.4	<0.01	0.06	4.7
ZZ84882		0.89	30.0	1180	14.5	13.8	<0.001	0.04	1.94	3.8	1.4	0.6	34.0	<0.01	0.04	2.6
ZZ84883		0.66	25.5	700	55.9	18.1	0.001	0.06	2.98	1.5	0.8	1.1	19.1	<0.01	0.05	0.3
ZZ84884		0.93	24.2	640	18.6	13.4	<0.001	0.04	1.63	2.0	0.6	0.6	19.1	<0.01	0.03	1.7
ZZ84885		0.43	11.8	430	17.6	8.0	<0.001	0.03	1.54	0.9	0.5	0.4	19.1	<0.01	0.02	0.3

***** See Appendix Page for comments regarding this certificate *****

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VANCOUVER BC V6B 1L8

Finalized Date: 20- SEP- 2013
Account: RANSIL

Project: SNAIL

CERTIFICATE OF ANALYSIS WH13158870

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ84863		0.057	1.02	2.74	110	0.30	15.70	83	9.0
ZZ84864		0.030	0.38	1.32	53	0.33	6.09	49	<0.5
ZZ84865		0.097	1.68	3.42	86	0.56	20.2	228	8.4
ZZ84866		0.036	0.18	0.53	51	0.24	2.25	32	<0.5
ZZ84867		0.018	0.08	0.33	11	<0.05	1.06	18	1.0
ZZ84868		0.034	0.19	1.11	53	0.08	4.52	64	1.7
ZZ84869		0.029	0.19	1.64	35	0.08	4.47	43	2.3
ZZ84870		0.042	0.95	2.69	76	0.21	25.7	140	2.8
ZZ84871		0.021	0.25	4.65	46	0.10	12.25	64	1.5
ZZ84872		0.045	0.40	1.68	85	0.19	7.94	109	2.2
ZZ84873		0.076	0.69	1.23	92	0.13	14.05	136	5.5
ZZ84874		0.036	0.26	1.78	50	0.28	6.79	80	1.9
ZZ84875		0.045	0.43	1.63	67	0.24	11.20	97	2.3
ZZ84876		0.040	0.44	1.39	57	0.28	13.85	107	1.2
ZZ84877		0.049	0.79	2.42	76	0.25	19.40	151	1.8
ZZ84878		0.024	0.35	2.96	30	0.09	5.72	48	1.7
ZZ84879		0.052	0.37	2.50	76	0.22	11.50	106	3.2
ZZ84880		0.028	0.25	7.29	43	0.13	7.47	78	1.9
ZZ84881		0.057	0.55	2.19	89	0.30	14.00	141	3.6
ZZ84882		0.035	0.34	1.58	60	0.25	11.65	87	1.0
ZZ84883		0.025	0.27	1.39	60	0.19	7.09	90	<0.5
ZZ84884		0.037	0.20	0.78	52	0.12	3.82	85	0.8
ZZ84885		0.022	0.11	0.86	32	0.08	4.37	48	<0.5

***** See Appendix Page for comments regarding this certificate *****

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Project: SNAIL

Finalized Date: 20-SEP-2013
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CERTIFICATE OF ANALYSIS WH13158870

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
ME-MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
LOG-22 SCR-41 WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-ICP21 ME-MS41

ALS Canada Ltd.

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Finalized Date: 19-SEP-2013
Account: RANSIL

CERTIFICATE WH13158871

Project: KEG - Vat

P.O. No.:

This report is for 12 Rock samples submitted to our lab in Whitehorse, YT, Canada on 2-SEP-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70%<2mm
CRU-QC	Crushing QC Test
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test
PUL-31	Pulverize split to 85%<75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Project: KEG - Vat

CERTIFICATE OF ANALYSIS WH13158871

Sample Description	Method	WEI-21	Au-AA24	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M676622		0.68	<0.005	0.05	2.57	1.1	40	0.58	0.30	3.80	0.02	19.45	6.1	17	0.94	13.1
M676623		0.96	0.018	0.05	2.73	0.6	140	1.51	2.98	0.18	<0.02	38.4	3.6	38	2.63	19.0
M676624		0.99	<0.005	0.03	8.57	0.6	420	2.98	0.56	0.31	<0.02	91.2	15.4	70	9.45	17.8
M676625		1.21	<0.005	0.07	6.89	0.9	130	7.46	0.65	1.51	0.02	122.5	9.1	49	3.73	40.2
M676626		1.47	<0.005	0.13	6.42	6.8	320	14.10	0.70	6.21	0.38	159.0	64.3	338	16.85	47.5
M676627		0.93	<0.005	0.11	7.30	1.2	870	4.44	0.49	0.31	0.22	171.0	4.1	18	8.57	5.4
M676628		1.03	<0.005	0.06	8.99	3.0	510	3.61	0.21	0.74	0.05	104.0	15.3	88	10.75	27.1
M676629		1.52	<0.005	0.22	1.62	0.9	90	0.86	0.61	0.04	<0.02	8.30	0.5	15	2.45	10.1
M676630		1.56	0.019	0.21	7.55	0.3	100	9.79	20.5	1.43	0.03	37.4	4.2	77	2.88	23.5
M676631		1.40	<0.005	0.52	6.82	0.3	340	2.91	3.32	0.12	0.9	17.40	1.3	3	13.00	10.7
M676632		2.03	<0.005	0.06	6.58	0.3	80	6.57	0.65	0.21	0.03	5.34	14.7	6	3.47	4.5
M896408		2.16	<0.005	0.42	0.16	<0.2	10	0.37	31.4	0.01	<0.02	0.66	0.4	25	0.21	22.1

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**
C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 19- SEP- 2013
Account: RANSIL

Project: KEG - Vat

CERTIFICATE OF ANALYSIS WH13158871

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
M676622		1.70	12.80	0.14	0.1	0.149	0.20	10.4	14.1	0.13	1720	0.38	0.09	5.1	14.7	670
M676623		2.33	10.35	0.13	0.3	0.028	0.79	18.7	35.1	0.37	198	0.66	0.40	8.3	4.5	160
M676624		5.53	26.9	0.23	0.6	0.080	2.31	46.6	92.8	1.04	461	0.35	0.62	21.8	24.6	600
M676625		2.52	19.20	0.27	1.0	0.017	0.60	60.8	15.9	0.61	164	14.15	1.30	9.6	18.2	970
M676626		9.00	22.7	0.33	1.3	0.248	2.15	89.3	108.5	6.07	3200	1.64	0.29	87.0	297	3430
M676627		1.91	22.8	0.28	3.6	0.032	4.02	81.4	53.8	0.17	325	0.80	1.78	7.9	5.8	370
M676628		6.48	28.7	0.23	1.2	0.085	2.47	50.1	146.0	1.21	815	0.73	1.34	25.6	21.5	710
M676629		0.53	8.30	0.09	0.4	0.196	0.80	4.3	13.5	0.05	39	0.43	0.17	2.0	1.1	80
M676630		3.47	20.8	0.15	1.0	0.022	0.58	18.5	18.0	0.79	362	0.46	1.83	20.6	9.6	1410
M676631		3.14	33.1	0.15	2.5	4.72	2.75	13.1	73.8	0.48	406	0.52	0.73	12.0	0.2	510
M676632		0.56	25.9	0.19	0.3	0.023	2.31	2.5	59.7	0.04	144	0.11	3.11	7.5	22.2	300
M896408		0.60	1.17	0.10	<0.1	0.019	0.09	<0.5	14.2	0.01	30	0.25	0.02	0.1	0.9	50

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Project: KEG - Vat

CERTIFICATE OF ANALYSIS WH13158871

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
M676622		3.2	11.3	<0.002	0.03	0.95	7.9	2	18.0	16.3	0.17	<0.05	1.0	0.061	0.08	0.4
M676623		6.3	50.7	<0.002	0.02	0.05	6.2	1	1.7	31.5	0.68	0.08	5.7	0.215	0.34	1.6
M676624		13.9	154.0	<0.002	0.03	<0.05	18.6	1	4.0	68.4	1.66	<0.05	12.1	0.537	0.96	3.9
M676625		22.7	39.3	<0.002	0.11	0.05	10.4	1	4.9	724	1.36	<0.05	17.4	0.345	0.24	2.3
M676626		5.3	208	<0.002	0.11	0.08	25.9	2	36.1	94.8	4.50	<0.05	8.7	1.315	1.69	2.2
M676627		81.3	207	<0.002	<0.01	0.95	5.6	1	2.8	201	0.86	<0.05	40.8	0.184	1.50	8.8
M676628		22.8	195.5	<0.002	0.06	0.18	22.6	1	4.3	199.5	1.60	<0.05	13.4	0.701	1.45	2.6
M676629		7.0	59.0	<0.002	0.01	0.20	1.2	<1	45.1	15.6	0.25	<0.05	2.8	0.039	0.46	1.1
M676630		32.7	38.1	<0.002	0.06	0.11	10.8	1	8.5	814	2.72	0.37	5.5	0.483	0.26	1.1
M676631		29.2	277	<0.002	0.06	0.13	6.5	1	123.0	40.6	0.87	<0.05	16.0	0.214	1.64	5.7
M676632		31.8	157.0	<0.002	0.02	0.05	1.0	<1	8.2	39.6	1.12	<0.05	1.6	0.020	0.87	8.1
M896408		6.7	5.6	<0.002	0.08	0.09	0.1	<1	0.6	1.4	<0.05	0.14	0.2	0.005	0.05	0.5

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Finalized Date: 19- SEP- 2013
Account: RANSIL

Project: KEG - Vat

CERTIFICATE OF ANALYSIS WH13158871

Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
M676622		17	136.0	46.9	18	4.7
M676623		44	1.0	4.5	37	9.1
M676624		104	1.3	10.9	105	20.5
M676625		50	4.1	20.1	45	34.9
M676626		218	120.5	32.2	297	46.1
M676627		39	0.8	10.9	54	130.0
M676628		125	2.4	15.8	97	44.2
M676629		9	0.8	1.6	11	12.1
M676630		57	5.1	12.2	68	34.6
M676631		33	2.5	4.7	475	90.4
M676632		4	2.3	2.8	20	6.0
M896408		1	0.1	0.4	4	0.9

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CERTIFICATE OF ANALYSIS WH13158871

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

CRU-31	CRU-QC	LOG-22	PUL-31
PUL-QC	SPL-21	WEI-21	

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-AA24	ME-MS61

ALS Canada Ltd.
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Finalized Date: 20-SEP-2013
Account: RANSIL

CERTIFICATE WH13158872

Project: KEG - Vat

P.O. No.:

This report is for 147 Soil samples submitted to our lab in Whitehorse, YT, Canada on 2-SEP-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS41	51 anal. aqua regia ICPMS	

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
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Project: KEG - Vat

CERTIFICATE OF ANALYSIS WH13158872

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ84886		0.27	0.001	0.30	0.44	69.7	<0.2	<10	20	0.94	1.45	0.17	0.30	36.6	2.0	3
ZZ84887		0.43	0.001	0.24	0.43	33.6	<0.2	<10	20	2.14	1.38	0.25	0.19	58.0	3.0	3
ZZ84888		0.38	0.002	0.10	1.33	5.9	<0.2	<10	60	2.53	0.84	0.39	0.24	89.4	7.1	21
ZZ84889		0.29	0.002	0.13	1.35	8.1	<0.2	<10	50	2.93	0.99	0.35	0.06	72.4	6.0	13
ZZ84890		0.31	0.002	0.13	1.39	3.4	<0.2	<10	70	3.05	1.10	0.31	0.23	53.5	7.3	24
ZZ84891		0.35	0.001	0.10	1.04	2.8	<0.2	<10	30	2.47	1.45	0.24	0.22	50.0	3.0	8
ZZ84892		0.41	0.003	0.18	1.32	25.1	<0.2	<10	80	2.91	4.89	0.21	0.14	62.5	5.4	13
ZZ84893		0.35	0.001	0.05	0.98	2.3	<0.2	<10	40	1.98	0.69	0.15	0.17	40.7	3.5	9
ZZ84894		0.42	0.002	0.16	1.33	12.5	<0.2	<10	80	2.91	1.17	0.24	0.11	62.6	5.7	13
ZZ84895		0.34	0.002	0.07	1.25	21.9	<0.2	<10	70	1.63	0.91	0.18	0.16	35.7	5.5	15
ZZ84896		0.42	0.002	0.13	1.86	16.6	<0.2	<10	120	2.26	1.45	0.10	0.17	44.7	8.4	28
ZZ84897		0.38	0.002	0.17	1.17	2.2	<0.2	<10	70	2.67	1.91	0.19	0.24	55.0	5.2	14
ZZ84898		0.37	0.005	0.08	1.12	18.9	<0.2	<10	60	1.36	1.47	0.19	0.26	47.0	5.4	16
ZZ84899		0.34	0.003	0.08	1.43	8.9	<0.2	<10	70	1.00	0.85	0.10	0.23	33.9	6.0	22
ZZ84900		0.31	0.002	0.11	1.33	10.9	<0.2	<10	110	1.72	1.00	0.18	0.19	43.3	6.4	21
ZZ84901		0.35	0.003	0.11	0.95	12.0	<0.2	<10	90	1.61	0.83	0.23	0.18	57.6	5.3	12
ZZ84902		0.34	0.002	0.08	1.39	7.2	<0.2	<10	70	1.19	0.92	0.10	0.26	33.7	5.4	19
ZZ84903		0.28	0.003	0.10	1.29	15.5	<0.2	<10	80	0.70	1.89	0.09	0.45	28.6	5.6	21
ZZ84904		0.33	0.003	0.10	0.83	8.2	<0.2	<10	80	0.43	0.63	0.05	0.22	25.8	3.4	12
ZZ84905		0.28	0.007	0.09	1.21	7.7	<0.2	<10	100	1.05	0.84	0.14	0.42	34.9	6.1	20
ZZ84906		0.33	0.001	0.13	1.52	8.9	<0.2	<10	80	0.89	1.15	0.10	0.21	34.5	5.7	21
ZZ84907		0.41	0.005	0.04	1.20	12.6	<0.2	<10	90	1.15	2.04	0.13	0.11	30.2	5.1	16
ZZ84908		0.21	0.002	0.15	0.88	4.6	<0.2	<10	80	0.88	0.75	0.07	0.31	23.2	3.0	11
ZZ84909		0.34	0.001	0.06	1.01	6.6	<0.2	<10	60	0.87	1.40	0.09	0.21	34.5	3.9	15
ZZ84910		0.32	0.002	0.12	0.99	6.4	<0.2	<10	80	1.16	2.00	0.14	0.20	39.5	6.5	15
ZZ84911		0.35	0.002	0.11	1.37	9.5	<0.2	<10	130	1.79	2.75	0.14	0.16	51.7	6.4	21
ZZ84912		0.39	0.002	0.15	0.88	8.0	<0.2	<10	50	0.49	1.60	0.07	0.20	28.7	4.0	17
ZZ84913		0.47	0.003	0.09	1.29	7.4	<0.2	<10	110	1.75	1.39	0.14	0.19	48.8	6.9	20
ZZ84914		0.28	0.003	0.07	1.35	7.8	<0.2	<10	120	1.40	1.03	0.18	0.22	36.5	6.4	22
ZZ84915		0.39	0.190	0.05	1.35	9.0	<0.2	<10	100	1.08	1.94	0.16	0.16	39.8	6.7	23
ZZ84916		0.23	0.003	0.16	1.01	8.1	<0.2	<10	100	0.50	1.01	0.12	0.33	26.3	4.7	20
ZZ84917		0.30	0.004	0.22	1.15	7.0	<0.2	<10	120	1.10	1.18	0.12	0.36	31.0	5.6	18
ZZ84918		0.27	0.002	0.09	0.94	4.7	<0.2	<10	70	0.62	0.41	0.08	0.17	24.8	4.1	13
ZZ84919		0.39	0.004	0.10	1.38	8.9	<0.2	<10	100	1.47	0.71	0.15	0.23	47.9	6.6	22
ZZ84920		0.25	0.009	0.05	0.56	2.9	<0.2	<10	40	0.32	0.28	0.05	0.09	15.05	2.8	8
ZZ84921		0.33	0.001	0.19	0.73	6.4	<0.2	<10	50	0.29	0.51	0.06	0.18	29.8	2.7	11
ZZ84922		0.25	0.003	0.25	1.60	8.4	<0.2	<10	100	1.05	1.41	0.09	0.35	31.9	5.2	23
ZZ84923		0.25	0.003	0.16	1.37	9.5	<0.2	<10	110	0.95	0.48	0.08	0.49	30.0	9.0	21
ZZ84924		0.30	0.002	0.33	1.35	12.7	<0.2	<10	80	1.17	0.73	0.08	0.35	28.0	5.4	22
ZZ84925		0.28	0.002	0.22	1.13	7.5	<0.2	<10	70	0.80	1.10	0.07	0.16	32.8	3.9	17

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CERTIFICATE OF ANALYSIS WH13158872

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ84886		2.27	5.1	1.10	2.28	<0.05	<0.02	0.06	0.018	0.07	16.4	7.2	0.09	173	0.26	0.01
ZZ84887		3.06	6.3	1.31	2.10	0.05	0.05	0.02	0.022	0.07	26.1	10.0	0.09	477	0.19	<0.01
ZZ84888		6.57	11.4	2.19	7.79	0.08	0.11	0.03	0.033	0.41	41.3	62.1	0.54	348	0.26	0.01
ZZ84889		5.36	15.3	2.01	6.80	0.08	0.03	0.02	0.025	0.17	36.2	39.1	0.39	265	0.31	0.01
ZZ84890		5.46	13.5	2.12	6.02	0.07	0.02	0.05	0.028	0.27	24.4	43.2	0.45	364	0.41	0.01
ZZ84891		3.92	5.7	1.33	6.02	<0.05	0.02	0.03	0.028	0.19	20.6	45.5	0.27	200	0.23	0.01
ZZ84892		5.12	16.4	2.07	6.35	<0.05	<0.02	0.03	0.022	0.09	26.1	31.1	0.29	327	0.69	0.01
ZZ84893		3.05	9.1	1.39	5.58	<0.05	<0.02	0.03	0.022	0.18	18.1	35.0	0.24	176	0.30	0.01
ZZ84894		4.88	13.6	2.04	5.60	0.05	<0.02	0.04	0.020	0.09	23.7	27.8	0.31	360	0.72	0.01
ZZ84895		4.54	13.5	1.89	5.69	<0.05	<0.02	0.03	0.023	0.12	15.9	34.3	0.31	264	0.86	0.01
ZZ84896		6.54	17.2	3.02	8.26	0.05	0.02	0.04	0.037	0.21	19.9	40.4	0.45	395	1.17	<0.01
ZZ84897		5.19	10.7	1.82	5.15	0.06	0.02	0.04	0.028	0.24	24.8	34.1	0.29	389	0.39	<0.01
ZZ84898		3.68	10.4	1.67	4.74	0.05	<0.02	0.04	0.022	0.12	19.8	30.1	0.29	299	0.71	0.01
ZZ84899		3.23	14.4	2.23	6.70	<0.05	<0.02	0.05	0.023	0.10	15.3	25.0	0.35	267	1.34	0.01
ZZ84900		4.71	14.9	2.13	6.02	0.05	<0.02	0.04	0.021	0.13	19.4	38.7	0.37	337	1.15	<0.01
ZZ84901		4.22	12.9	1.75	4.20	0.06	<0.02	0.04	0.024	0.10	25.8	24.4	0.24	358	0.74	0.01
ZZ84902		4.20	11.2	1.97	5.82	<0.05	0.02	0.07	0.023	0.15	13.8	24.6	0.30	236	0.74	0.01
ZZ84903		4.81	12.3	2.37	7.03	<0.05	<0.02	0.06	0.020	0.09	13.5	17.5	0.29	339	1.49	<0.01
ZZ84904		2.98	12.1	1.32	5.65	<0.05	<0.02	0.05	0.013	0.07	13.1	5.9	0.11	432	1.56	<0.01
ZZ84905		3.58	13.2	1.97	5.60	<0.05	<0.02	0.05	0.020	0.10	16.2	21.8	0.33	343	1.11	<0.01
ZZ84906		3.97	14.6	2.17	7.12	<0.05	<0.02	0.04	0.030	0.13	15.4	23.6	0.33	313	1.04	<0.01
ZZ84907		4.60	17.3	1.74	5.28	<0.05	<0.02	0.03	0.017	0.08	13.9	21.9	0.28	298	1.00	0.01
ZZ84908		2.92	10.8	1.27	4.31	<0.05	<0.02	0.05	0.014	0.06	12.3	10.4	0.18	138	0.80	0.01
ZZ84909		3.78	13.5	1.79	5.89	<0.05	<0.02	0.04	0.016	0.10	14.5	20.2	0.24	227	0.99	0.01
ZZ84910		5.00	25.4	1.80	4.49	<0.05	<0.02	0.03	0.021	0.08	16.9	16.3	0.27	348	1.07	0.01
ZZ84911		7.70	17.9	2.40	6.45	0.05	<0.02	0.04	0.026	0.09	23.4	22.6	0.31	383	1.32	<0.01
ZZ84912		3.12	10.8	1.75	5.31	<0.05	<0.02	0.04	0.014	0.06	12.3	10.3	0.22	168	1.06	0.01
ZZ84913		5.19	18.3	2.29	5.39	0.05	<0.02	0.03	0.022	0.09	21.5	22.1	0.34	337	1.04	<0.01
ZZ84914		3.68	15.2	2.17	5.49	<0.05	<0.02	0.04	0.021	0.09	16.7	24.0	0.41	264	1.17	<0.01
ZZ84915		3.77	18.9	2.28	6.13	0.06	<0.02	0.04	0.033	0.09	19.0	27.5	0.38	269	1.33	<0.01
ZZ84916		2.82	12.7	1.92	6.05	<0.05	<0.02	0.06	0.022	0.10	12.9	18.4	0.29	217	1.24	0.01
ZZ84917		3.65	12.6	1.93	6.04	<0.05	<0.02	0.08	0.021	0.10	14.6	22.9	0.29	488	1.23	0.01
ZZ84918		2.34	12.5	1.45	5.31	<0.05	<0.02	0.06	0.017	0.06	11.5	14.7	0.21	298	1.02	0.01
ZZ84919		3.71	14.1	2.08	6.48	0.05	<0.02	0.04	0.024	0.12	20.8	30.6	0.40	329	1.07	0.01
ZZ84920		1.55	7.1	1.14	4.44	<0.05	<0.02	0.03	0.008	0.05	7.5	4.0	0.09	179	0.66	0.01
ZZ84921		2.22	9.4	1.37	6.46	<0.05	<0.02	0.03	0.013	0.09	14.8	6.4	0.13	107	1.32	<0.01
ZZ84922		3.12	15.1	2.46	6.85	<0.05	<0.02	0.07	0.029	0.09	15.9	18.9	0.30	340	1.72	<0.01
ZZ84923		2.43	13.0	2.20	6.30	<0.05	<0.02	0.04	0.022	0.08	14.8	13.7	0.30	831	1.64	<0.01
ZZ84924		3.51	10.3	2.75	6.56	<0.05	0.02	0.04	0.021	0.09	13.9	22.2	0.36	234	1.80	<0.01
ZZ84925		3.26	11.8	1.85	6.69	<0.05	<0.02	0.05	0.017	0.11	15.8	14.7	0.24	154	1.15	<0.01

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 20-SEP-2013
Account: RANSIL

Project: KEG - Vat

CERTIFICATE OF ANALYSIS WH13158872

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ84886		0.27	3.1	760	57.0	12.7	<0.001	0.04	0.78	0.3	0.3	0.6	16.8	<0.01	<0.01	0.7
ZZ84887		0.33	4.5	700	52.3	13.3	<0.001	0.01	1.03	0.8	<0.2	0.6	14.7	<0.01	<0.01	9.2
ZZ84888		1.56	14.6	880	35.1	64.0	<0.001	0.02	0.57	3.1	0.3	2.1	21.7	<0.01	<0.01	17.1
ZZ84889		0.86	10.6	490	38.5	38.6	<0.001	0.02	0.50	1.9	0.2	1.5	26.5	<0.01	<0.01	9.7
ZZ84890		1.60	15.6	750	51.2	42.0	<0.001	0.05	0.58	2.2	<0.2	1.6	23.2	<0.01	0.02	3.4
ZZ84891		1.09	5.3	600	32.5	43.0	<0.001	0.03	0.36	0.8	0.3	2.5	14.5	<0.01	<0.01	2.1
ZZ84892		0.75	10.6	670	41.3	25.9	0.001	0.04	0.73	1.2	0.5	1.6	22.3	<0.01	0.01	2.0
ZZ84893		0.71	6.4	470	18.1	35.0	<0.001	0.03	0.24	0.8	0.2	1.5	10.3	<0.01	<0.01	1.3
ZZ84894		0.71	12.4	720	43.3	24.8	<0.001	0.04	0.67	1.1	0.4	1.2	19.7	<0.01	0.01	1.5
ZZ84895		0.82	13.5	750	25.5	26.8	0.001	0.03	0.58	1.2	0.2	1.4	13.7	<0.01	<0.01	0.9
ZZ84896		2.28	18.2	490	43.3	44.0	0.001	0.03	0.62	3.2	0.5	1.6	11.0	<0.01	0.02	2.5
ZZ84897		1.53	9.5	670	43.3	35.7	0.001	0.02	0.38	2.3	0.2	1.7	8.6	<0.01	0.01	5.0
ZZ84898		1.29	14.3	780	20.0	25.2	0.001	0.01	0.52	1.6	0.6	1.2	10.6	<0.01	0.02	2.8
ZZ84899		1.49	16.6	550	19.0	22.2	0.001	0.03	0.68	1.8	0.8	1.2	9.5	<0.01	0.04	1.4
ZZ84900		1.44	16.4	700	22.6	34.4	<0.001	0.02	0.58	2.0	0.4	1.3	13.1	<0.01	0.02	1.8
ZZ84901		0.81	12.8	830	27.3	19.1	0.001	0.02	0.66	1.3	0.4	1.2	12.5	<0.01	0.02	3.1
ZZ84902		1.28	12.2	680	19.6	27.7	0.001	0.03	0.79	1.4	0.5	0.9	9.0	<0.01	0.02	1.0
ZZ84903		0.99	13.7	540	25.5	26.2	0.001	0.03	0.99	1.1	0.6	1.1	10.8	<0.01	0.03	0.4
ZZ84904		0.53	8.2	480	10.8	21.7	0.001	0.04	0.75	0.4	0.2	1.0	6.8	<0.01	0.04	<0.2
ZZ84905		0.69	14.9	740	18.2	20.8	0.001	0.04	0.69	1.1	0.5	1.0	11.4	<0.01	0.02	0.5
ZZ84906		0.81	14.2	660	16.3	29.9	0.001	0.05	0.58	0.7	0.5	1.3	9.5	<0.01	0.02	0.2
ZZ84907		0.79	11.7	650	15.8	19.5	0.001	0.02	0.46	1.2	0.2	0.9	9.6	<0.01	0.02	0.7
ZZ84908		0.48	7.6	610	11.7	15.5	0.001	0.06	0.42	0.4	0.2	0.7	7.9	<0.01	0.02	<0.2
ZZ84909		0.79	10.1	550	17.7	27.4	0.001	0.04	0.56	0.9	0.4	1.2	9.8	<0.01	0.02	0.7
ZZ84910		0.54	12.4	660	24.5	16.4	<0.001	0.04	0.73	0.8	0.5	0.7	12.3	<0.01	0.02	0.4
ZZ84911		0.68	14.8	560	49.7	26.8	0.001	0.02	0.89	1.3	0.5	1.0	11.6	<0.01	0.04	0.8
ZZ84912		1.08	10.9	340	15.0	14.2	0.001	0.02	0.56	1.3	0.6	0.7	7.2	<0.01	0.01	1.3
ZZ84913		0.83	16.5	630	24.5	21.9	0.001	0.02	0.83	1.7	0.5	1.0	12.9	<0.01	0.02	1.6
ZZ84914		1.09	18.3	710	17.9	17.8	<0.001	0.02	0.67	1.8	0.4	0.9	16.1	<0.01	0.02	1.3
ZZ84915		1.58	17.3	640	19.0	22.5	<0.001	0.01	0.66	2.3	0.6	1.1	14.3	<0.01	0.03	3.3
ZZ84916		0.96	13.6	560	12.5	26.0	0.001	0.05	0.62	1.0	0.4	1.1	13.8	<0.01	0.02	0.4
ZZ84917		0.79	12.6	700	17.0	36.4	0.001	0.04	0.52	0.9	0.3	1.3	11.0	<0.01	0.02	0.4
ZZ84918		0.50	8.8	540	12.2	18.0	0.001	0.03	0.44	0.7	0.3	0.8	9.2	<0.01	0.02	0.3
ZZ84919		0.98	16.6	740	22.7	30.0	0.001	0.03	0.60	1.7	0.5	1.3	12.5	<0.01	0.02	1.5
ZZ84920		0.47	4.9	310	6.4	11.1	<0.001	0.02	0.31	0.5	<0.2	0.5	6.9	<0.01	0.02	0.2
ZZ84921		1.58	7.8	290	12.1	25.8	<0.001	0.02	0.59	1.3	0.3	1.1	8.1	<0.01	0.03	1.9
ZZ84922		1.08	13.2	690	91.2	24.5	<0.001	0.04	0.79	1.2	0.6	1.1	14.3	<0.01	0.04	0.6
ZZ84923		0.48	14.4	790	77.5	22.9	0.001	0.06	0.71	0.5	0.6	0.8	9.5	<0.01	0.02	<0.2
ZZ84924		1.94	15.4	420	27.6	25.9	0.001	0.02	0.86	2.0	0.4	0.8	11.4	<0.01	0.03	2.8
ZZ84925		1.12	10.8	450	15.4	24.9	<0.001	0.02	0.57	1.2	0.6	1.2	10.8	<0.01	0.02	0.8

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 20-SEP-2013
Account: RANSIL

Project: KEG - Vat

CERTIFICATE OF ANALYSIS WH13158872

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ84886		0.010	0.18	6.65	7	0.06	4.80	79	<0.5
ZZ84887		0.010	0.24	15.05	5	0.05	9.48	83	2.9
ZZ84888		0.087	0.47	10.40	25	1.06	10.50	104	5.4
ZZ84889		0.045	0.31	10.30	22	0.14	6.62	91	2.0
ZZ84890		0.070	0.33	6.59	25	1.00	6.44	99	1.2
ZZ84891		0.036	0.34	3.64	13	0.15	4.77	104	1.1
ZZ84892		0.031	0.35	12.20	25	0.15	6.44	90	<0.5
ZZ84893		0.039	0.29	2.89	18	0.14	3.49	73	0.7
ZZ84894		0.030	0.29	8.41	25	0.29	6.05	86	<0.5
ZZ84895		0.050	0.24	7.06	32	1.02	4.62	93	<0.5
ZZ84896		0.090	0.43	3.89	46	0.43	4.29	97	0.9
ZZ84897		0.050	0.32	5.30	19	0.11	6.14	111	0.9
ZZ84898		0.056	0.25	3.73	25	0.31	5.78	78	0.6
ZZ84899		0.057	0.22	2.57	39	0.31	3.75	69	0.5
ZZ84900		0.066	0.27	4.42	36	0.36	5.59	79	0.6
ZZ84901		0.035	0.24	7.19	22	0.18	7.06	80	0.7
ZZ84902		0.052	0.20	2.79	28	0.32	3.68	61	0.6
ZZ84903		0.044	0.23	4.23	44	0.32	2.54	74	<0.5
ZZ84904		0.031	0.17	1.74	37	0.30	1.98	47	<0.5
ZZ84905		0.043	0.20	4.28	36	0.25	4.35	78	<0.5
ZZ84906		0.038	0.22	2.20	35	0.29	3.81	66	<0.5
ZZ84907		0.045	0.20	4.56	32	0.26	3.53	57	<0.5
ZZ84908		0.025	0.16	3.65	22	0.17	2.93	43	<0.5
ZZ84909		0.042	0.22	2.63	29	0.20	3.28	62	0.5
ZZ84910		0.033	0.26	5.29	28	0.24	4.60	69	<0.5
ZZ84911		0.037	0.37	7.17	40	0.28	5.81	84	<0.5
ZZ84912		0.048	0.22	1.76	35	0.34	2.43	53	0.6
ZZ84913		0.041	0.34	6.62	32	0.29	5.97	84	<0.5
ZZ84914		0.054	0.22	2.48	38	0.33	4.99	77	<0.5
ZZ84915		0.067	0.22	3.22	42	0.64	4.89	74	0.6
ZZ84916		0.051	0.19	1.35	39	0.35	2.51	70	<0.5
ZZ84917		0.042	0.23	2.34	36	0.30	3.37	75	<0.5
ZZ84918		0.041	0.18	1.42	32	0.17	2.22	50	<0.5
ZZ84919		0.055	0.24	2.71	36	0.66	5.32	83	<0.5
ZZ84920		0.044	0.09	0.84	32	0.18	1.39	26	<0.5
ZZ84921		0.059	0.17	0.80	37	0.44	2.01	41	<0.5
ZZ84922		0.040	0.31	2.47	42	0.30	2.92	67	<0.5
ZZ84923		0.024	0.20	4.16	42	0.24	3.29	75	<0.5
ZZ84924		0.058	0.31	2.06	45	0.34	2.79	91	0.6
ZZ84925		0.047	0.20	1.90	34	0.33	2.72	52	<0.5

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CERTIFICATE OF ANALYSIS WH13158872

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ84926		0.32	0.002	0.20	1.38	8.3	<0.2	<10	100	2.06	1.17	0.13	0.33	39.6	7.4	19
ZZ84927		0.20	0.001	0.14	0.68	3.8	<0.2	<10	60	0.47	0.33	0.06	0.16	16.40	2.5	8
ZZ84928		0.24	0.002	0.15	0.94	3.5	<0.2	<10	70	1.26	1.32	0.09	0.32	30.1	4.1	9
ZZ84929		0.24	0.002	0.09	0.99	4.5	<0.2	<10	90	0.88	0.37	0.10	0.24	23.5	3.8	12
ZZ84930		0.26	0.002	0.17	1.24	5.7	<0.2	<10	150	1.30	0.60	0.16	0.13	38.4	4.7	17
ZZ84931		0.39	0.002	0.06	1.47	13.8	<0.2	<10	80	2.25	0.90	0.16	0.08	56.0	4.5	12
ZZ84932		0.33	0.002	0.10	1.70	13.6	<0.2	<10	110	2.95	0.89	0.27	0.14	70.9	6.5	16
ZZ84933		0.39	0.002	0.14	1.30	41.9	<0.2	<10	70	1.66	2.20	0.08	0.15	35.4	4.8	15
ZZ84934		0.35	0.002	0.07	0.64	3.5	<0.2	<10	40	1.55	0.62	0.20	0.13	86.8	4.1	7
ZZ84935		0.32	0.003	0.17	1.39	3.8	<0.2	<10	60	2.17	1.04	0.27	0.09	82.0	4.5	10
ZZ84936		0.49	0.002	0.12	1.39	8.8	<0.2	<10	110	2.40	0.89	0.30	0.26	61.2	8.2	19
ZZ84937		0.24	0.004	0.16	0.37	2.6	<0.2	<10	20	0.43	0.37	0.05	0.19	21.1	2.3	4
ZZ84938		0.38	0.002	0.32	1.64	15.3	<0.2	<10	60	3.82	1.89	0.24	0.08	104.0	6.1	11
ZZ84939		0.32	0.001	0.11	0.65	2.9	<0.2	<10	40	1.24	0.52	0.15	0.03	15.10	2.0	3
ZZ84940		0.29	0.001	0.02	0.26	0.3	<0.2	<10	10	0.08	0.05	0.04	0.04	1.77	1.2	2
ZZ84941		0.35	0.002	0.15	1.63	7.3	<0.2	<10	60	3.05	1.40	0.31	0.08	75.8	5.0	11
ZZ84942		0.29	0.002	0.20	1.53	6.1	<0.2	<10	70	3.13	1.81	0.41	0.06	69.8	4.6	10
ZZ84943		0.24	0.002	0.11	2.11	6.1	<0.2	<10	70	3.29	2.62	0.18	0.09	53.2	3.6	12
ZZ84944		0.28	0.002	0.11	1.90	9.0	<0.2	<10	80	3.77	1.75	0.29	0.13	57.4	4.7	13
ZZ84945		0.29	0.002	0.16	1.44	47.9	<0.2	<10	70	2.93	1.72	0.24	0.08	50.6	4.2	9
ZZ84946		0.49	0.004	0.19	1.41	19.9	<0.2	<10	150	1.90	0.99	0.32	0.28	60.1	7.8	21
ZZ84947		0.27	0.008	0.16	1.15	12.7	<0.2	<10	70	2.53	1.54	0.29	0.10	62.4	5.1	11
ZZ84948		0.36	0.004	0.10	1.43	17.2	<0.2	<10	130	1.43	0.73	0.22	0.08	55.2	6.4	22
ZZ84949		0.62	0.003	0.18	1.40	34.0	<0.2	<10	130	2.04	1.03	0.35	0.21	59.5	8.7	21
ZZ84950		0.37	0.004	0.09	1.16	12.1	<0.2	<10	80	1.58	0.65	0.18	0.16	42.1	5.2	14
ZZ84951		0.34	0.005	0.11	0.98	24.6	<0.2	<10	60	1.53	1.13	0.13	0.07	34.9	2.4	6
ZZ84952		0.36	0.003	0.19	1.16	9.2	<0.2	<10	60	1.84	0.89	0.14	0.17	54.8	4.1	7
ZZ84953		0.34	0.002	0.08	0.68	3.8	<0.2	<10	50	0.38	0.69	0.10	0.15	15.65	1.6	3
ZZ84954		0.38	0.002	0.40	0.92	10.4	<0.2	<10	50	1.63	1.69	0.23	0.04	31.6	2.2	4
ZZ84955		0.33	0.002	0.09	0.45	0.9	<0.2	<10	30	0.20	0.20	0.11	0.08	9.01	1.6	3
ZZ84956		0.36	0.003	0.34	1.30	5.8	<0.2	<10	60	2.77	1.69	0.64	0.18	85.5	7.1	14
ZZ84957		0.26	0.001	0.03	0.29	0.4	<0.2	<10	20	0.09	0.12	0.07	0.09	3.19	1.1	3
ZZ84958		0.29	0.003	0.22	1.06	3.3	<0.2	<10	80	2.42	1.61	0.22	0.10	41.1	3.9	8
ZZ84959		0.28	0.002	0.02	0.13	0.1	<0.2	<10	10	<0.05	0.06	0.04	0.06	1.52	1.0	2
ZZ84960		0.28	0.001	0.08	0.15	0.3	<0.2	<10	10	<0.05	0.05	0.03	0.05	1.74	0.7	2
ZZ84961		0.32	0.001	0.14	0.57	3.1	<0.2	<10	30	1.48	1.56	0.15	0.11	24.3	3.0	4
ZZ84962		0.39	0.002	0.12	1.09	4.3	<0.2	<10	60	2.66	2.07	0.25	0.05	38.8	5.3	7
ZZ84963		0.26	0.001	0.08	0.36	1.1	<0.2	<10	30	0.46	0.64	0.07	0.07	5.97	2.0	3
ZZ84964		0.35	0.002	0.20	1.61	5.2	<0.2	<10	90	2.34	1.35	0.16	0.06	35.4	10.6	19
ZZ84965		0.24	0.002	0.11	1.27	4.4	<0.2	<10	80	1.97	1.58	0.13	0.07	26.1	4.5	10

***** See Appendix Page for comments regarding this certificate *****

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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 20-SEP-2013
Account: RANSIL

Project: KEG - Vat

CERTIFICATE OF ANALYSIS WH13158872

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ84926		3.84	12.3	2.28	6.50	0.05	<0.02	0.06	0.025	0.15	17.5	23.5	0.33	591	1.06	<0.01
ZZ84927		1.45	6.7	1.01	3.65	<0.05	<0.02	0.03	0.010	0.06	8.2	8.5	0.13	101	0.52	0.02
ZZ84928		2.85	11.4	1.30	4.30	<0.05	<0.02	0.04	0.015	0.07	14.3	11.7	0.16	287	0.70	0.01
ZZ84929		2.04	10.9	1.38	4.58	<0.05	<0.02	0.04	0.013	0.07	12.4	9.9	0.18	263	0.86	0.01
ZZ84930		4.04	9.7	1.82	5.46	0.05	<0.02	0.06	0.016	0.11	19.4	19.5	0.29	256	1.01	<0.01
ZZ84931		4.07	11.4	2.06	7.23	0.06	0.02	0.03	0.026	0.14	26.8	33.6	0.33	273	0.55	0.01
ZZ84932		5.35	12.5	2.61	9.03	0.08	0.02	0.03	0.032	0.18	35.1	48.6	0.44	330	0.72	0.01
ZZ84933		3.79	11.8	2.04	5.88	<0.05	<0.02	0.03	0.024	0.11	17.4	17.7	0.23	290	1.10	0.01
ZZ84934		3.01	6.6	1.69	3.32	0.09	0.02	0.02	0.019	0.08	37.9	13.6	0.16	221	0.57	<0.01
ZZ84935		6.34	11.4	2.02	7.97	0.08	0.02	0.03	0.035	0.13	42.9	40.0	0.40	224	0.31	0.01
ZZ84936		6.84	16.1	2.47	5.91	0.08	0.03	0.02	0.025	0.16	29.0	34.6	0.45	491	0.79	0.01
ZZ84937		1.76	4.3	1.13	2.40	<0.05	<0.02	0.03	0.011	0.04	7.4	4.9	0.06	85	0.32	0.02
ZZ84938		9.09	9.7	3.03	8.82	0.10	0.05	0.03	0.049	0.10	61.4	45.6	0.42	343	0.64	<0.01
ZZ84939		2.25	7.0	0.69	2.75	<0.05	<0.02	0.02	0.009	0.03	8.5	9.6	0.09	150	0.21	0.02
ZZ84940		0.30	4.0	0.48	1.39	<0.05	<0.02	0.02	<0.005	0.02	0.9	0.5	0.02	22	0.16	0.02
ZZ84941		7.88	12.4	2.18	9.09	0.09	0.02	0.02	0.034	0.20	38.7	55.8	0.46	316	0.38	0.01
ZZ84942		6.89	12.5	1.92	8.50	0.07	0.03	0.02	0.028	0.21	35.7	52.6	0.44	256	0.23	0.01
ZZ84943		7.30	24.4	2.23	10.60	0.06	<0.02	0.02	0.037	0.14	31.4	42.8	0.47	184	0.42	0.01
ZZ84944		8.08	12.8	2.25	9.66	0.06	<0.02	0.02	0.025	0.22	29.0	61.0	0.49	326	0.36	0.01
ZZ84945		4.83	12.5	1.79	7.13	0.05	<0.02	0.03	0.022	0.08	25.5	33.5	0.31	218	0.49	0.03
ZZ84946		5.34	20.3	2.40	6.29	0.07	0.03	0.02	0.026	0.18	31.3	33.3	0.46	392	0.92	0.02
ZZ84947		6.85	14.3	1.89	6.06	0.07	<0.02	0.04	0.019	0.10	31.3	43.5	0.33	283	0.56	0.02
ZZ84948		4.18	16.1	2.36	6.09	0.07	<0.02	0.02	0.021	0.11	27.7	28.6	0.44	261	0.78	0.01
ZZ84949		5.59	19.1	2.60	6.21	0.08	0.05	0.02	0.026	0.18	30.4	33.3	0.44	486	0.89	0.01
ZZ84950		4.42	12.0	2.29	5.93	<0.05	<0.02	0.03	0.022	0.09	19.9	19.4	0.24	465	0.82	0.01
ZZ84951		3.99	10.0	1.36	4.53	<0.05	<0.02	0.02	0.017	0.06	17.2	22.2	0.20	127	0.40	0.02
ZZ84952		3.90	11.5	1.57	5.63	0.06	<0.02	0.02	0.022	0.08	26.6	26.9	0.27	295	0.36	0.02
ZZ84953		1.35	6.5	0.80	2.86	<0.05	<0.02	0.02	0.010	0.04	7.3	6.0	0.06	121	0.34	0.01
ZZ84954		2.54	8.8	1.20	3.35	<0.05	0.02	0.03	0.021	0.05	17.7	10.2	0.12	146	0.49	0.02
ZZ84955		0.93	8.3	0.66	2.67	<0.05	<0.02	0.03	0.006	0.04	4.1	3.9	0.06	58	0.25	0.03
ZZ84956		4.83	17.6	2.45	5.97	0.09	0.02	0.05	0.038	0.15	48.7	28.4	0.33	552	0.69	0.01
ZZ84957		0.40	3.9	0.48	1.59	<0.05	<0.02	0.02	<0.005	0.03	1.6	0.7	0.03	28	0.16	0.03
ZZ84958		3.76	12.1	1.50	4.27	0.05	<0.02	0.06	0.023	0.07	21.4	15.6	0.15	299	0.56	0.02
ZZ84959		0.47	2.1	0.40	0.87	<0.05	<0.02	0.02	<0.005	0.02	0.8	0.7	0.02	21	0.11	0.02
ZZ84960		0.70	2.3	0.32	0.82	<0.05	<0.02	0.02	<0.005	0.02	0.9	0.4	0.01	14	0.20	0.02
ZZ84961		4.37	6.0	1.21	3.15	<0.05	<0.02	0.04	0.014	0.07	11.4	12.6	0.08	294	0.50	0.01
ZZ84962		6.91	12.8	1.60	4.93	0.05	<0.02	0.02	0.021	0.09	19.9	34.0	0.21	378	0.43	0.01
ZZ84963		2.05	6.5	0.65	2.07	<0.05	<0.02	0.03	0.007	0.03	2.9	4.8	0.05	120	0.32	0.01
ZZ84964		8.22	23.2	2.62	7.05	0.05	<0.02	0.04	0.029	0.13	19.0	32.6	0.32	499	0.96	0.01
ZZ84965		4.62	11.7	1.64	5.82	<0.05	<0.02	0.03	0.020	0.08	12.5	24.7	0.20	295	0.62	0.01

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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
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VANCOUVER BC V6B 1L8

Finalized Date: 20-SEP-2013
Account: RANSIL

Project: KEG - Vat

CERTIFICATE OF ANALYSIS WH13158872

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ84926		0.63	13.1	900	24.7	29.0	<0.001	0.04	0.67	0.9	0.3	1.1	17.6	<0.01	0.03	0.4
ZZ84927		0.51	5.9	300	7.0	10.3	<0.001	0.02	0.29	0.6	0.3	0.5	8.3	<0.01	0.01	0.3
ZZ84928		0.23	6.6	740	20.5	19.8	<0.001	0.07	0.46	0.2	0.5	0.7	14.6	<0.01	0.01	<0.2
ZZ84929		0.44	7.6	520	11.3	20.0	0.001	0.04	0.40	0.5	0.2	0.6	11.7	<0.01	0.01	<0.2
ZZ84930		1.10	12.1	680	21.4	31.3	<0.001	0.06	0.60	1.3	0.4	1.0	19.0	<0.01	0.03	0.8
ZZ84931		0.70	8.7	560	29.7	36.2	0.001	0.03	0.47	1.5	0.5	1.6	16.5	<0.01	0.01	2.4
ZZ84932		0.92	11.8	700	30.0	47.6	<0.001	0.04	0.38	1.8	0.5	2.1	20.3	<0.01	0.02	2.7
ZZ84933		0.51	9.5	800	35.6	25.4	<0.001	0.04	0.62	0.6	0.5	1.4	12.8	<0.01	0.01	0.3
ZZ84934		0.40	6.9	960	28.0	14.9	<0.001	0.02	0.35	0.9	0.7	0.7	9.4	<0.01	<0.01	6.0
ZZ84935		0.69	6.6	590	44.3	27.5	<0.001	0.03	0.23	1.3	0.5	2.3	22.1	<0.01	<0.01	3.6
ZZ84936		1.16	18.2	940	28.1	32.0	<0.001	0.01	0.59	2.7	0.7	1.3	21.3	<0.01	0.01	6.7
ZZ84937		0.16	2.6	440	15.8	9.2	<0.001	0.04	0.10	0.2	0.3	0.5	6.2	<0.01	<0.01	<0.2
ZZ84938		0.85	6.8	520	63.9	27.0	<0.001	0.02	0.30	2.1	0.5	2.2	25.4	<0.01	<0.01	13.6
ZZ84939		0.56	2.0	380	12.7	7.3	<0.001	0.03	0.12	0.3	0.4	0.5	15.4	<0.01	0.01	0.4
ZZ84940		0.22	1.1	180	1.2	1.5	<0.001	0.02	0.06	0.1	<0.2	<0.2	7.4	<0.01	<0.01	<0.2
ZZ84941		1.10	6.8	590	44.7	43.1	<0.001	0.03	0.23	1.7	0.6	2.0	26.2	<0.01	<0.01	5.9
ZZ84942		0.94	5.7	470	43.5	40.5	<0.001	0.02	0.12	1.4	0.5	1.7	33.3	<0.01	<0.01	7.1
ZZ84943		0.60	6.3	680	45.7	40.6	<0.001	0.05	0.16	0.6	0.5	2.0	21.5	<0.01	<0.01	0.6
ZZ84944		0.99	6.5	540	34.5	49.6	<0.001	0.03	0.28	1.4	0.5	2.4	34.2	<0.01	0.01	2.7
ZZ84945		0.77	6.4	550	42.5	23.7	<0.001	0.06	0.64	0.8	0.4	1.6	22.9	<0.01	<0.01	0.9
ZZ84946		1.17	17.6	830	26.9	31.9	<0.001	0.01	0.55	3.2	0.7	1.4	24.5	<0.01	<0.01	7.3
ZZ84947		0.96	8.2	690	43.2	22.6	<0.001	0.04	0.25	1.3	0.7	1.5	24.9	<0.01	0.01	2.9
ZZ84948		1.12	15.1	600	21.8	25.4	<0.001	0.01	0.50	3.0	0.7	1.2	18.7	<0.01	0.01	5.5
ZZ84949		1.16	17.0	820	32.3	34.1	<0.001	0.01	0.52	3.5	0.6	1.4	24.3	<0.01	0.01	10.8
ZZ84950		0.89	9.3	850	27.2	21.2	<0.001	0.03	0.40	1.3	0.5	1.3	14.6	<0.01	0.01	1.4
ZZ84951		0.51	4.5	550	34.0	15.5	<0.001	0.03	0.19	0.5	0.3	0.8	18.0	<0.01	<0.01	0.6
ZZ84952		0.49	4.5	530	30.1	18.9	<0.001	0.03	0.16	0.8	0.6	0.9	20.0	<0.01	0.01	0.9
ZZ84953		0.31	1.8	540	13.5	6.8	<0.001	0.03	0.21	0.1	0.3	0.6	13.3	<0.01	<0.01	<0.2
ZZ84954		0.51	2.7	540	42.8	14.0	<0.001	0.05	0.43	0.6	0.6	0.6	19.0	<0.01	<0.01	1.5
ZZ84955		0.36	1.7	450	5.5	5.2	<0.001	0.02	0.11	0.3	<0.2	0.3	10.7	<0.01	<0.01	0.3
ZZ84956		1.06	12.0	720	44.2	26.8	<0.001	0.06	0.96	1.9	0.8	1.9	50.0	<0.01	<0.01	3.4
ZZ84957		0.23	1.4	350	2.4	2.2	<0.001	0.03	<0.05	0.1	<0.2	0.2	9.0	<0.01	<0.01	<0.2
ZZ84958		0.79	5.9	720	31.6	15.8	<0.001	0.06	0.30	0.5	0.5	1.3	20.1	<0.01	0.01	0.3
ZZ84959		0.18	0.9	170	1.2	2.1	<0.001	0.02	<0.05	0.1	<0.2	<0.2	7.0	<0.01	<0.01	<0.2
ZZ84960		0.11	1.3	290	1.7	1.8	<0.001	0.02	<0.05	<0.1	0.2	<0.2	6.3	<0.01	<0.01	<0.2
ZZ84961		0.56	3.7	620	27.3	14.6	<0.001	0.03	0.47	0.4	0.3	1.4	9.5	<0.01	<0.01	0.4
ZZ84962		0.84	6.3	480	35.8	19.6	<0.001	0.02	0.35	0.8	0.4	1.8	21.4	<0.01	<0.01	1.0
ZZ84963		0.32	2.0	390	11.0	5.8	<0.001	0.03	0.10	0.2	0.4	0.5	7.6	<0.01	<0.01	<0.2
ZZ84964		1.45	14.2	650	36.8	28.2	<0.001	0.05	0.30	1.9	0.5	1.5	15.5	<0.01	0.01	0.8
ZZ84965		0.65	7.3	580	27.8	18.5	<0.001	0.04	0.25	0.5	0.5	1.5	13.0	<0.01	0.01	0.2

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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 20- SEP- 2013
Account: RANSIL

Project: KEG - Vat

CERTIFICATE OF ANALYSIS WH13158872

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ84926		0.033	0.28	4.12	31	0.33	4.57	95	<0.5
ZZ84927		0.034	0.09	1.17	21	0.18	1.73	29	<0.5
ZZ84928		0.015	0.19	3.49	21	0.16	3.74	57	<0.5
ZZ84929		0.033	0.12	3.30	30	0.17	2.66	45	<0.5
ZZ84930		0.041	0.22	3.20	31	0.28	5.09	70	<0.5
ZZ84931		0.039	0.32	6.05	25	0.30	4.76	86	0.8
ZZ84932		0.048	0.41	6.38	34	0.11	7.10	113	1.3
ZZ84933		0.023	0.31	7.03	29	0.14	4.29	82	<0.5
ZZ84934		0.017	0.15	4.82	14	0.09	8.25	79	0.7
ZZ84935		0.041	0.38	7.95	22	0.07	6.85	95	0.9
ZZ84936		0.059	0.32	10.40	31	0.22	9.57	108	1.6
ZZ84937		0.022	0.10	1.55	20	<0.05	1.63	39	<0.5
ZZ84938		0.027	0.41	10.45	22	0.15	7.80	111	2.7
ZZ84939		0.021	0.12	4.87	11	0.05	1.95	26	<0.5
ZZ84940		0.022	0.03	0.23	15	<0.05	0.29	9	<0.5
ZZ84941		0.046	0.41	7.90	22	0.08	7.16	108	1.1
ZZ84942		0.035	0.39	7.11	19	0.05	5.56	104	1.7
ZZ84943		0.019	0.43	6.19	25	0.05	4.79	120	<0.5
ZZ84944		0.051	0.48	8.49	26	0.06	5.23	115	0.9
ZZ84945		0.023	0.36	11.90	18	0.24	5.02	90	0.7
ZZ84946		0.067	0.31	13.10	34	0.24	9.98	106	1.4
ZZ84947		0.037	0.29	24.0	19	0.16	8.21	108	0.9
ZZ84948		0.058	0.27	9.19	34	0.25	8.45	81	0.5
ZZ84949		0.062	0.34	17.20	32	0.25	10.95	104	3.1
ZZ84950		0.033	0.25	3.53	30	0.18	6.24	67	<0.5
ZZ84951		0.020	0.19	7.40	15	0.07	3.75	65	<0.5
ZZ84952		0.027	0.22	6.57	18	0.06	4.55	80	<0.5
ZZ84953		0.011	0.15	0.91	13	0.05	2.12	42	<0.5
ZZ84954		0.011	0.24	10.50	13	0.06	5.39	68	0.7
ZZ84955		0.023	0.06	0.79	15	0.05	0.99	22	<0.5
ZZ84956		0.027	0.41	17.55	22	0.19	15.15	122	0.8
ZZ84957		0.023	0.03	0.53	13	<0.05	0.54	12	<0.5
ZZ84958		0.018	0.28	18.75	14	0.13	5.33	66	<0.5
ZZ84959		0.019	0.03	0.40	14	<0.05	0.24	8	<0.5
ZZ84960		0.010	0.03	0.56	10	<0.05	0.25	7	<0.5
ZZ84961		0.013	0.26	12.20	9	0.08	4.41	61	<0.5
ZZ84962		0.024	0.33	16.20	13	0.13	5.73	79	<0.5
ZZ84963		0.016	0.11	2.81	14	<0.05	0.86	23	<0.5
ZZ84964		0.046	0.33	10.10	34	0.17	5.48	71	0.6
ZZ84965		0.019	0.25	6.60	19	0.15	3.69	67	<0.5

***** See Appendix Page for comments regarding this certificate *****

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Project: KEG - Vat

CERTIFICATE OF ANALYSIS WH13158872

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ90594		0.33	0.002	0.09	1.39	22.7	<0.2	<10	110	2.39	0.87	0.29	0.11	51.2	5.1	12
ZZ90595		0.28	0.001	0.27	1.10	17.5	<0.2	<10	90	2.19	0.62	0.24	0.09	41.8	4.0	8
ZZ90596		0.28	0.002	0.08	1.57	27.7	<0.2	<10	170	2.22	0.63	0.18	0.17	43.3	5.9	14
ZZ90597		0.35	0.003	0.12	1.41	8.5	<0.2	<10	60	0.91	0.76	0.08	0.10	40.8	3.3	13
ZZ90598		0.30	0.005	0.07	1.23	6.0	<0.2	<10	70	0.97	0.45	0.15	0.14	40.6	4.1	12
ZZ90599		0.23	0.003	0.08	0.65	2.6	<0.2	<10	30	0.28	0.12	0.09	0.10	11.00	2.1	5
ZZ90600		0.35	0.003	0.13	1.89	29.5	<0.2	<10	120	2.63	1.16	0.19	0.36	46.4	5.3	15
ZZ90601		0.28	0.002	0.20	1.69	7.5	<0.2	<10	130	1.79	0.74	0.11	0.33	37.1	5.3	16
ZZ90602		0.38	0.003	0.10	1.50	7.0	<0.2	<10	130	1.72	0.60	0.15	0.31	39.7	6.0	21
ZZ90603		0.39	0.002	0.11	1.99	18.3	<0.2	<10	210	2.55	0.82	0.30	0.27	53.1	7.9	23
ZZ90604		0.29	0.003	0.13	1.14	8.9	<0.2	<10	90	0.79	0.52	0.06	0.17	23.2	3.7	16
ZZ90605		0.31	0.002	0.10	1.67	49.2	<0.2	<10	190	2.09	0.94	0.24	0.17	41.3	6.7	19
ZZ90606		0.35	0.002	0.12	1.62	9.9	<0.2	<10	150	1.51	0.56	0.24	0.25	38.6	9.8	30
ZZ90607		0.32	0.005	0.10	1.80	8.1	<0.2	<10	130	1.52	0.74	0.17	0.21	33.4	7.9	33
ZZ90608		0.30	0.003	0.07	1.41	6.9	<0.2	<10	100	0.86	0.46	0.14	0.23	31.2	5.5	22
ZZ90609		0.26	0.003	0.16	1.13	5.6	<0.2	<10	70	0.55	0.49	0.08	0.23	24.5	4.2	23
ZZ90610		0.29	0.002	0.10	1.33	5.1	<0.2	<10	130	1.43	0.58	0.15	0.13	29.4	4.4	15
ZZ90611		0.34	0.003	0.05	1.23	6.8	<0.2	<10	110	0.96	0.32	0.25	0.36	38.2	6.7	21
ZZ90612		0.31	0.002	0.07	1.65	7.3	<0.2	<10	90	1.06	0.59	0.09	0.19	26.4	5.3	21
ZZ90613		0.33	0.003	0.07	1.63	7.1	<0.2	<10	90	1.03	0.52	0.13	0.21	32.9	6.7	26
ZZ90614		0.39	0.002	0.11	1.98	8.8	<0.2	<10	160	1.72	0.67	0.17	0.21	38.0	8.5	32
ZZ90615		0.40	0.004	0.09	1.37	5.5	<0.2	<10	140	1.21	0.45	0.26	0.24	38.4	6.6	24
ZZ90616		0.26	0.014	0.06	1.24	5.3	<0.2	<10	100	0.80	0.43	0.16	0.34	30.8	5.5	18
ZZ90617		0.27	0.003	0.15	2.28	10.7	<0.2	<10	160	1.69	0.94	0.10	0.26	33.4	9.4	34
ZZ90618		0.31	0.004	0.07	1.34	5.2	<0.2	<10	90	0.71	0.53	0.08	0.19	24.6	5.7	22
ZZ90619		0.41	0.003	0.09	1.68	7.3	<0.2	<10	140	1.54	0.84	0.22	0.35	40.0	8.3	26
ZZ90620		0.33	0.002	0.06	1.73	10.7	<0.2	<10	170	1.45	0.88	0.13	0.13	32.8	7.1	26
ZZ90621		0.35	0.002	0.06	1.35	5.0	<0.2	<10	120	1.37	0.58	0.31	0.18	43.5	6.7	23
ZZ90622		0.44	0.004	0.09	1.84	8.0	<0.2	<10	260	1.49	0.62	0.28	0.34	50.8	10.1	31
ZZ90623		0.35	0.004	0.10	1.59	6.5	<0.2	<10	120	1.68	0.71	0.18	0.19	44.6	7.8	24
ZZ90624		0.34	0.002	0.18	1.31	3.7	<0.2	<10	80	0.97	0.47	0.08	0.12	25.6	3.8	14
ZZ90625		0.28	0.001	0.05	1.09	2.3	<0.2	<10	70	0.81	0.22	0.15	0.16	22.8	3.8	9
ZZ90626		0.32	0.003	0.05	1.46	3.9	<0.2	<10	110	1.40	0.40	0.23	0.23	46.6	7.7	23
ZZ90627		0.40	0.002	0.17	2.25	5.5	<0.2	<10	190	1.87	0.61	0.29	0.10	50.3	11.2	39
ZZ90628		0.36	0.001	0.06	2.19	3.4	<0.2	<10	160	1.46	0.41	0.23	0.05	41.0	14.3	44
ZZ90629		0.49	0.002	0.05	2.47	2.1	<0.2	<10	180	1.48	0.46	0.19	0.05	55.2	12.1	46
ZZ90630		0.36	0.001	0.09	1.29	3.8	<0.2	<10	110	0.88	0.30	0.12	0.04	23.2	8.0	18
ZZ90631		0.41	0.004	0.04	3.11	8.2	<0.2	<10	300	2.44	0.66	0.24	0.17	43.5	26.5	55
ZZ90632		0.27	0.001	0.05	2.29	6.4	<0.2	<10	180	1.27	0.70	0.06	0.10	23.7	11.9	45
ZZ90633		0.25	0.004	0.11	2.10	3.3	<0.2	<10	180	1.39	0.45	0.13	0.06	29.9	15.1	34

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Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ90594		4.40	7.9	1.80	6.77	0.05	<0.02	0.02	0.020	0.21	23.8	46.0	0.39	312	0.44	0.01
ZZ90595		3.42	9.6	1.46	4.70	0.07	<0.02	0.02	0.018	0.07	23.9	17.9	0.21	264	0.42	0.01
ZZ90596		3.32	17.0	1.74	6.38	0.05	<0.02	0.02	0.023	0.10	21.3	32.9	0.33	342	0.61	0.02
ZZ90597		3.35	9.0	1.81	7.75	0.05	<0.02	0.05	0.023	0.14	19.0	28.6	0.29	163	0.63	0.01
ZZ90598		2.74	10.6	1.56	5.61	0.05	<0.02	0.03	0.018	0.16	19.1	34.4	0.30	197	0.50	0.01
ZZ90599		0.76	7.4	0.88	2.78	<0.05	<0.02	0.02	0.006	0.04	5.1	5.6	0.09	67	0.30	0.02
ZZ90600		4.24	12.2	2.26	8.39	0.05	<0.02	0.03	0.024	0.19	21.4	50.3	0.45	357	0.68	0.01
ZZ90601		3.79	11.8	2.00	7.52	<0.05	<0.02	0.06	0.024	0.12	17.5	36.4	0.37	475	0.74	0.01
ZZ90602		2.46	14.6	2.08	5.23	0.05	<0.02	0.02	0.020	0.10	18.5	28.4	0.38	349	0.88	0.01
ZZ90603		3.73	15.5	2.64	7.45	0.06	<0.02	0.03	0.030	0.15	23.5	50.5	0.55	527	0.86	0.01
ZZ90604		2.18	12.2	1.65	5.05	<0.05	<0.02	0.04	0.017	0.07	11.3	11.3	0.17	253	1.24	0.01
ZZ90605		3.33	14.5	2.17	6.17	<0.05	<0.02	0.02	0.022	0.12	20.3	37.5	0.41	429	0.80	0.01
ZZ90606		3.16	22.3	2.51	5.28	0.05	<0.02	0.03	0.025	0.14	18.2	33.1	0.50	386	1.13	0.01
ZZ90607		4.92	20.2	2.79	6.85	<0.05	<0.02	0.03	0.026	0.18	15.3	41.5	0.46	326	1.06	0.01
ZZ90608		2.46	17.2	2.18	5.05	<0.05	<0.02	0.02	0.019	0.09	14.7	22.6	0.36	227	1.17	0.01
ZZ90609		3.14	13.2	1.98	5.09	<0.05	<0.02	0.05	0.017	0.11	12.4	15.4	0.25	157	1.18	0.01
ZZ90610		2.15	15.0	1.56	3.89	<0.05	<0.02	0.04	0.016	0.07	14.7	14.5	0.25	293	0.70	0.03
ZZ90611		1.92	14.0	2.03	3.66	0.05	0.03	0.02	0.016	0.11	18.1	25.0	0.38	275	1.06	0.01
ZZ90612		2.73	14.6	2.35	6.02	<0.05	<0.02	0.04	0.021	0.08	12.8	16.4	0.29	409	1.22	0.01
ZZ90613		2.44	14.6	2.34	5.72	<0.05	<0.02	0.03	0.022	0.10	15.4	23.9	0.41	377	1.18	0.01
ZZ90614		3.25	17.6	2.80	6.06	<0.05	<0.02	0.03	0.026	0.11	18.4	25.9	0.53	426	1.13	0.01
ZZ90615		2.55	15.1	2.17	4.33	0.05	<0.02	0.03	0.019	0.11	18.8	24.7	0.44	346	0.78	0.01
ZZ90616		2.15	14.2	1.75	4.23	<0.05	<0.02	0.03	0.015	0.09	14.2	22.6	0.31	300	0.81	0.02
ZZ90617		4.38	20.0	3.00	7.50	<0.05	<0.02	0.06	0.030	0.12	16.3	34.9	0.51	509	1.41	0.01
ZZ90618		3.55	15.3	2.08	5.36	<0.05	<0.02	0.03	0.019	0.15	12.0	23.8	0.28	413	0.95	0.02
ZZ90619		4.44	15.3	2.55	5.99	0.05	0.02	0.03	0.024	0.21	18.3	43.9	0.47	425	0.91	0.01
ZZ90620		4.23	16.7	2.58	6.46	<0.05	<0.02	0.02	0.025	0.12	15.6	27.9	0.37	392	1.19	0.02
ZZ90621		3.35	12.4	2.12	4.82	0.06	0.05	0.02	0.021	0.18	21.0	35.6	0.45	336	0.68	0.01
ZZ90622		4.07	19.9	2.88	6.33	0.06	0.02	0.03	0.028	0.23	23.3	44.3	0.56	524	0.98	0.01
ZZ90623		3.93	16.7	2.36	5.74	0.05	0.02	0.02	0.027	0.16	19.8	39.4	0.43	371	0.82	0.01
ZZ90624		2.61	9.9	1.80	4.85	<0.05	<0.02	0.03	0.018	0.10	12.1	20.0	0.24	151	0.64	0.02
ZZ90625		1.59	13.6	1.34	3.85	<0.05	<0.02	0.03	0.015	0.10	10.1	17.1	0.20	248	0.45	0.03
ZZ90626		3.71	16.4	2.31	5.57	0.06	<0.02	0.02	0.026	0.24	21.7	43.0	0.45	351	0.51	0.01
ZZ90627		5.35	24.5	3.44	7.95	0.07	0.02	0.02	0.036	0.31	26.0	64.0	0.65	372	0.69	0.01
ZZ90628		7.10	31.5	4.28	8.34	0.11	0.07	0.01	0.038	0.77	20.5	75.8	0.68	365	0.50	0.01
ZZ90629		6.29	20.3	3.68	9.16	0.08	0.04	0.01	0.041	0.64	27.4	74.3	0.72	314	0.32	0.02
ZZ90630		2.35	12.1	1.71	4.47	<0.05	0.02	0.02	0.018	0.09	11.2	22.6	0.24	130	0.38	0.03
ZZ90631		8.57	29.3	4.95	10.75	0.08	0.03	0.01	0.054	0.75	17.7	107.5	0.91	1060	0.91	0.02
ZZ90632		8.82	28.2	4.49	10.95	0.09	<0.02	0.02	0.047	0.78	11.5	87.9	0.58	308	0.98	0.01
ZZ90633		5.01	14.5	3.12	8.00	0.05	0.02	0.03	0.034	0.32	15.4	57.2	0.52	496	0.59	0.01

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	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ90594		0.94	9.5	680	22.5	38.3	<0.001	0.02	0.44	1.4	0.6	1.9	59.8	<0.01	<0.01	2.3
ZZ90595		0.42	5.9	600	24.8	19.0	<0.001	0.04	0.56	0.6	0.5	0.9	38.2	<0.01	<0.01	0.4
ZZ90596		0.72	11.2	630	22.1	25.6	<0.001	0.03	0.47	1.0	0.3	1.1	23.7	<0.01	0.01	0.6
ZZ90597		0.91	7.3	730	17.4	38.5	<0.001	0.06	0.49	0.6	0.5	1.7	15.8	<0.01	0.02	0.5
ZZ90598		0.77	8.5	790	14.2	31.0	<0.001	0.04	0.45	1.0	0.4	1.2	13.9	<0.01	0.01	1.7
ZZ90599		0.33	3.1	470	3.6	7.5	<0.001	0.03	0.15	0.3	0.2	0.3	9.1	<0.01	<0.01	<0.2
ZZ90600		1.02	9.2	630	32.6	47.0	<0.001	0.04	0.37	1.1	0.5	2.0	22.0	<0.01	0.02	0.9
ZZ90601		0.97	9.3	720	22.4	43.3	<0.001	0.06	0.33	0.9	0.3	1.6	19.1	<0.01	0.01	0.4
ZZ90602		0.72	14.1	750	20.2	24.4	<0.001	0.04	0.52	1.0	0.4	0.9	13.7	<0.01	0.03	0.5
ZZ90603		0.99	17.9	890	25.1	34.5	<0.001	0.03	0.51	1.9	0.6	1.4	28.3	<0.01	0.02	1.9
ZZ90604		0.58	9.6	780	13.8	18.0	<0.001	0.08	0.59	0.3	0.5	1.0	11.0	<0.01	0.02	<0.2
ZZ90605		0.96	13.2	700	21.9	27.5	<0.001	0.03	0.41	1.3	0.6	1.3	25.5	<0.01	0.02	1.0
ZZ90606		1.60	25.2	980	19.9	22.5	<0.001	0.03	0.55	2.8	0.7	0.8	18.6	<0.01	0.03	2.8
ZZ90607		1.90	20.0	760	19.6	31.7	<0.001	0.06	0.46	1.9	0.4	1.2	21.7	<0.01	0.02	0.7
ZZ90608		0.87	16.6	730	16.3	17.4	<0.001	0.05	0.56	0.8	0.5	0.8	13.2	<0.01	0.02	0.3
ZZ90609		1.31	12.8	640	11.5	21.1	<0.001	0.06	0.49	0.9	0.3	0.9	11.6	<0.01	0.02	0.3
ZZ90610		0.64	11.4	620	21.0	13.3	<0.001	0.03	0.40	0.9	0.6	0.5	14.8	<0.01	0.02	0.3
ZZ90611		1.78	19.9	1000	13.8	17.8	<0.001	0.02	0.71	2.2	0.6	0.7	16.8	<0.01	0.03	4.2
ZZ90612		0.62	12.2	780	23.7	21.2	<0.001	0.05	0.79	0.5	0.5	0.9	9.7	<0.01	0.03	<0.2
ZZ90613		0.93	16.3	710	16.7	20.7	<0.001	0.04	0.60	1.0	0.4	1.0	10.6	<0.01	0.03	0.3
ZZ90614		1.02	19.9	850	25.4	22.6	<0.001	0.03	0.59	1.9	0.6	0.9	15.1	<0.01	0.02	0.9
ZZ90615		1.29	17.4	830	14.8	19.3	<0.001	0.02	0.51	2.4	0.6	0.8	17.2	<0.01	0.02	2.9
ZZ90616		1.04	14.2	790	12.4	16.8	<0.001	0.04	0.51	1.3	0.5	0.8	11.7	<0.01	0.01	0.7
ZZ90617		1.21	21.9	840	26.9	26.9	<0.001	0.08	0.60	1.3	0.8	1.2	14.7	<0.01	0.03	0.3
ZZ90618		1.15	12.7	680	13.5	33.7	<0.001	0.06	0.42	0.8	0.6	1.0	11.7	<0.01	0.02	0.2
ZZ90619		1.90	19.6	890	21.7	37.6	<0.001	0.03	0.52	2.5	0.6	1.3	14.5	<0.01	0.02	2.6
ZZ90620		1.21	15.2	640	25.2	31.4	<0.001	0.05	0.50	1.4	0.6	1.1	15.0	<0.01	0.02	0.6
ZZ90621		1.13	17.0	970	13.4	30.1	<0.001	0.01	0.47	3.0	0.4	1.1	17.8	<0.01	0.01	7.8
ZZ90622		1.54	23.3	1000	19.6	37.8	<0.001	0.02	0.52	4.3	0.6	1.3	20.2	<0.01	0.02	5.6
ZZ90623		1.77	18.9	760	19.6	31.7	<0.001	0.02	0.44	2.6	0.5	1.2	15.9	<0.01	0.01	2.5
ZZ90624		0.91	8.3	670	18.7	19.3	<0.001	0.05	0.30	0.9	0.3	0.8	9.1	<0.01	0.01	0.3
ZZ90625		0.68	6.3	740	12.6	15.6	<0.001	0.03	0.23	0.9	0.3	0.6	11.5	<0.01	0.01	0.3
ZZ90626		1.94	17.9	960	15.1	37.2	<0.001	0.02	0.35	3.1	0.5	1.2	12.8	<0.01	0.01	4.4
ZZ90627		1.90	24.6	880	16.6	42.9	<0.001	0.02	0.30	5.9	0.8	1.5	25.7	<0.01	0.01	6.4
ZZ90628		1.19	24.8	880	17.0	65.0	<0.001	0.01	0.26	8.6	0.7	1.8	16.1	<0.01	0.02	7.6
ZZ90629		2.10	21.2	650	14.0	61.9	<0.001	0.01	0.16	7.6	0.8	1.8	12.5	<0.01	0.01	9.2
ZZ90630		1.50	11.8	540	9.7	15.0	<0.001	0.04	0.17	2.0	0.2	0.7	11.5	<0.01	0.01	0.9
ZZ90631		2.91	61.5	830	20.9	85.7	<0.001	0.03	0.33	9.5	0.7	2.0	24.7	<0.01	0.03	5.6
ZZ90632		5.13	21.3	520	15.5	94.0	<0.001	0.04	0.25	7.5	0.4	2.6	11.5	<0.01	0.02	1.5
ZZ90633		3.34	19.7	540	13.9	43.8	<0.001	0.03	0.16	5.2	0.5	1.6	15.8	<0.01	0.01	2.1

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To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 20-SEP-2013
Account: RANSIL

Project: KEG - Vat

CERTIFICATE OF ANALYSIS WH13158872

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ90594		0.045	0.33	6.64	24	0.17	7.16	81	<0.5
ZZ90595		0.018	0.24	8.89	18	0.09	8.30	56	<0.5
ZZ90596		0.036	0.27	5.38	28	0.18	5.24	70	<0.5
ZZ90597		0.040	0.31	2.50	32	0.11	3.29	75	0.6
ZZ90598		0.058	0.24	2.42	29	0.16	5.20	65	0.7
ZZ90599		0.038	0.08	0.80	25	0.06	1.45	19	<0.5
ZZ90600		0.046	0.35	3.91	38	0.16	4.70	94	0.5
ZZ90601		0.043	0.32	3.03	37	0.12	4.10	79	0.5
ZZ90602		0.047	0.21	3.23	39	0.15	6.14	78	<0.5
ZZ90603		0.052	0.28	7.30	42	0.18	7.39	111	<0.5
ZZ90604		0.022	0.19	2.17	37	0.28	2.50	51	<0.5
ZZ90605		0.044	0.28	4.77	36	0.17	5.20	87	<0.5
ZZ90606		0.073	0.22	4.77	45	0.66	7.52	90	0.7
ZZ90607		0.077	0.27	3.31	49	2.93	4.30	84	0.7
ZZ90608		0.045	0.19	2.18	42	0.26	4.20	72	<0.5
ZZ90609		0.058	0.17	1.72	43	0.42	2.70	54	0.5
ZZ90610		0.036	0.16	5.98	27	0.26	4.90	57	<0.5
ZZ90611		0.069	0.17	2.21	38	0.29	6.94	78	1.1
ZZ90612		0.030	0.19	3.64	47	0.18	3.14	77	<0.5
ZZ90613		0.051	0.19	2.93	44	0.26	4.42	77	<0.5
ZZ90614		0.056	0.22	8.48	51	0.25	7.11	94	<0.5
ZZ90615		0.076	0.16	6.27	39	0.24	7.62	75	<0.5
ZZ90616		0.056	0.15	2.40	33	0.23	4.73	67	0.5
ZZ90617		0.051	0.33	6.49	59	0.66	5.45	86	0.6
ZZ90618		0.060	0.21	1.92	41	0.45	2.82	61	0.5
ZZ90619		0.095	0.31	4.35	43	0.29	6.51	98	0.8
ZZ90620		0.057	0.26	4.52	48	0.32	4.02	73	0.5
ZZ90621		0.095	0.25	4.73	37	0.69	8.80	77	2.7
ZZ90622		0.110	0.32	6.92	50	0.35	9.49	99	1.0
ZZ90623		0.084	0.26	5.21	40	0.23	6.53	85	0.7
ZZ90624		0.040	0.19	1.93	31	0.15	2.96	48	<0.5
ZZ90625		0.045	0.13	2.13	25	0.15	3.17	45	<0.5
ZZ90626		0.098	0.28	4.95	38	0.18	8.55	80	0.8
ZZ90627		0.148	0.32	6.89	57	0.25	10.70	115	0.8
ZZ90628		0.200	0.46	3.34	61	0.30	9.61	104	2.8
ZZ90629		0.203	0.43	3.17	61	0.28	9.16	90	1.9
ZZ90630		0.072	0.22	2.38	35	0.22	4.09	47	0.8
ZZ90631		0.235	0.50	3.10	77	0.40	7.56	189	1.3
ZZ90632		0.216	0.49	2.62	70	0.28	3.66	84	0.6
ZZ90633		0.147	0.35	2.67	53	0.30	5.41	77	0.8

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CERTIFICATE OF ANALYSIS WH13158872

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ90634		0.38	0.002	0.17	2.10	2.9	<0.2	<10	160	1.35	0.52	0.12	0.05	31.4	9.1	31
ZZ90635		0.39	0.001	0.13	2.09	3.7	<0.2	<10	170	2.28	0.70	0.16	0.07	44.4	11.5	24
ZZ90636		0.34	0.002	0.11	3.15	1.9	<0.2	<10	360	1.48	0.61	0.11	0.04	18.25	15.1	64
ZZ90637		0.31	0.002	0.08	4.07	2.5	<0.2	<10	440	1.71	0.47	0.17	0.05	21.1	21.9	83
ZZ90638		0.46	0.001	0.11	3.46	1.8	<0.2	<10	340	2.04	0.71	0.12	0.04	20.3	16.0	68
ZZ90639		0.34	0.001	0.07	3.84	5.1	<0.2	<10	380	1.89	0.62	0.29	0.05	49.8	21.1	83
ZZ90640		0.32	0.001	0.17	2.41	3.7	<0.2	<10	100	3.29	1.59	0.20	0.10	105.5	19.5	32
ZZ90641		0.36	0.003	0.08	1.46	3.4	<0.2	<10	120	1.73	0.56	0.25	0.13	44.4	5.9	14
ZZ90642		0.33	0.003	0.11	1.63	7.2	<0.2	<10	130	1.46	0.59	0.20	0.16	46.2	7.3	20
ZZ90643		0.41	0.003	0.10	1.38	5.2	<0.2	<10	130	1.27	0.57	0.20	0.20	50.1	7.0	18
ZZ90644		0.35	0.002	0.20	1.24	1.9	<0.2	<10	60	1.66	1.11	0.22	0.09	43.5	3.6	6
ZZ90645		0.35	0.002	0.12	1.69	5.6	<0.2	<10	160	1.73	0.85	0.23	0.15	54.9	7.4	19
ZZ90646		0.32	0.003	0.18	1.70	3.2	<0.2	<10	130	2.43	1.03	0.47	0.09	46.8	4.8	11
ZZ90647		0.34	0.002	0.07	2.19	12.3	<0.2	<10	190	2.11	0.75	0.15	0.13	59.0	12.0	31
ZZ90648		0.30	0.002	0.04	1.35	2.9	<0.2	<10	90	1.41	0.56	0.20	0.12	40.9	4.8	11
ZZ90649		0.30	0.001	0.12	2.13	3.4	<0.2	<10	130	3.36	1.10	0.52	0.15	50.3	6.5	11
ZZ90650		0.32	0.002	0.07	1.60	8.5	<0.2	<10	160	1.02	0.44	0.15	0.27	38.5	8.6	24
ZZ90651		0.37	0.004	0.07	1.12	4.6	<0.2	<10	130	1.12	0.36	0.29	0.26	46.9	6.7	19
ZZ90652		0.40	0.005	0.04	1.35	3.8	<0.2	<10	100	1.12	0.40	0.17	0.24	38.2	5.9	16
ZZ90653		0.39	0.004	0.13	2.23	12.0	<0.2	<10	250	2.27	0.81	0.19	0.19	56.4	13.4	27
ZZ90654		0.31	0.001	0.08	2.09	7.8	<0.2	<10	120	1.75	0.74	0.09	0.23	40.9	8.9	29
ZZ90655		0.33	0.002	0.08	1.63	5.2	<0.2	<10	170	2.06	0.63	0.27	0.27	49.6	9.4	21
ZZ90656		0.31	0.002	0.11	1.61	4.5	<0.2	<10	170	1.96	0.59	0.22	0.22	50.3	9.4	23
ZZ90657		0.34	0.002	0.07	1.65	5.6	<0.2	<10	180	1.54	0.52	0.16	0.29	53.3	8.4	23
ZZ90658		0.36	0.002	0.21	1.39	4.6	<0.2	<10	130	1.34	0.91	0.18	0.24	40.7	7.0	20
ZZ90659		0.34	0.003	0.07	1.21	4.9	<0.2	<10	120	1.34	0.38	0.22	0.20	44.7	6.2	18
ZZ90660		0.34	0.001	0.13	1.74	6.2	<0.2	<10	200	2.67	0.66	0.17	0.11	50.2	8.0	20

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Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ90634		4.49	15.6	2.74	7.86	0.05	0.02	0.03	0.034	0.24	16.7	51.3	0.48	277	0.59	0.01
ZZ90635		4.31	16.6	2.64	8.23	0.06	0.02	0.02	0.036	0.24	23.5	51.8	0.51	347	0.56	0.01
ZZ90636		8.71	61.2	5.92	12.60	0.13	0.02	0.02	0.070	1.35	9.8	96.9	0.83	386	0.98	0.04
ZZ90637		8.54	54.7	7.01	15.85	0.21	0.03	0.01	0.080	1.80	10.3	135.0	1.27	555	0.88	0.04
ZZ90638		11.75	53.7	6.16	14.35	0.17	0.02	0.01	0.077	1.53	9.7	140.5	0.99	430	0.94	0.03
ZZ90639		11.60	51.2	6.61	15.75	0.18	0.03	0.01	0.073	1.59	21.0	132.5	1.49	655	0.64	0.04
ZZ90640		6.56	44.7	4.61	9.65	0.08	0.02	0.02	0.060	0.29	32.2	72.5	0.61	661	0.84	0.01
ZZ90641		3.82	10.3	2.07	6.63	0.07	<0.02	0.02	0.026	0.21	21.8	47.7	0.46	343	0.54	0.01
ZZ90642		3.22	14.1	2.31	6.13	0.06	0.03	0.02	0.025	0.11	20.4	36.4	0.50	341	0.86	0.01
ZZ90643		3.38	12.0	2.06	5.75	0.05	0.02	0.02	0.023	0.18	22.3	38.7	0.43	354	0.61	0.01
ZZ90644		2.74	7.1	1.71	5.29	0.05	<0.02	0.02	0.023	0.07	20.8	24.0	0.31	281	0.33	0.01
ZZ90645		4.22	13.2	2.30	7.03	0.07	0.02	0.02	0.026	0.21	23.9	46.3	0.50	379	0.60	0.01
ZZ90646		3.28	11.7	1.88	6.92	0.06	<0.02	0.03	0.025	0.13	26.0	36.0	0.35	355	0.54	0.02
ZZ90647		4.58	20.5	3.09	7.76	0.07	0.02	0.02	0.035	0.16	27.5	43.9	0.62	450	1.27	0.01
ZZ90648		3.18	10.0	1.75	6.03	<0.05	<0.02	0.01	0.022	0.19	18.1	41.3	0.37	256	0.40	0.01
ZZ90649		5.06	11.6	2.48	9.11	0.06	<0.02	0.03	0.028	0.26	25.8	59.0	0.54	425	0.51	0.01
ZZ90650		2.80	19.1	2.38	5.80	<0.05	0.02	0.03	0.024	0.13	17.8	37.1	0.45	361	0.84	0.01
ZZ90651		2.82	15.0	1.95	5.11	0.06	0.05	0.02	0.021	0.17	22.7	33.4	0.40	298	0.72	0.01
ZZ90652		3.31	12.0	1.92	6.74	0.05	0.02	0.01	0.023	0.18	16.9	50.8	0.43	294	0.59	0.01
ZZ90653		4.54	22.8	3.22	8.09	0.06	<0.02	0.04	0.036	0.12	26.5	38.3	0.56	691	1.50	0.01
ZZ90654		4.50	17.2	2.92	8.18	0.05	<0.02	0.03	0.034	0.18	19.8	38.9	0.49	402	1.22	0.01
ZZ90655		4.17	15.6	2.53	7.09	0.06	0.02	0.05	0.033	0.25	22.4	47.6	0.50	522	0.79	0.01
ZZ90656		4.36	15.9	2.64	7.11	0.07	0.02	0.02	0.031	0.30	22.1	51.8	0.51	457	0.74	0.01
ZZ90657		4.87	15.2	2.38	7.34	0.07	0.02	0.06	0.025	0.26	26.0	54.5	0.51	432	0.75	0.01
ZZ90658		4.55	14.7	2.14	6.01	0.05	<0.02	0.02	0.026	0.25	20.1	42.9	0.41	346	0.65	0.01
ZZ90659		3.22	11.6	1.92	5.35	0.06	0.02	0.01	0.019	0.15	20.9	35.6	0.39	295	0.66	0.01
ZZ90660		4.45	22.4	2.23	6.74	0.06	<0.02	0.03	0.024	0.13	25.1	35.4	0.37	320	0.88	0.02

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 20-SEP-2013
Account: RANSIL

Project: KEG - Vat

CERTIFICATE OF ANALYSIS WH13158872

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ90634		3.03	16.7	560	16.7	37.1	<0.001	0.04	0.17	4.5	0.5	1.5	16.0	<0.01	0.02	1.9
ZZ90635		2.32	14.3	600	26.7	41.7	<0.001	0.01	0.27	4.8	0.7	1.7	20.9	<0.01	0.02	4.6
ZZ90636		7.93	23.9	770	15.5	99.0	<0.001	0.20	0.08	12.8	0.5	2.2	57.5	<0.01	0.03	1.8
ZZ90637		5.26	37.4	550	14.5	132.0	<0.001	0.24	0.08	18.3	0.5	2.6	63.4	<0.01	0.02	2.8
ZZ90638		6.14	27.4	640	15.3	129.0	<0.001	0.19	0.09	15.3	0.2	3.1	60.4	<0.01	0.02	2.3
ZZ90639		4.72	29.1	580	16.8	135.0	<0.001	0.20	0.06	16.0	0.6	2.6	118.0	<0.01	0.01	5.2
ZZ90640		2.08	33.1	560	75.3	44.7	<0.001	0.07	0.16	4.6	0.7	1.7	36.7	<0.01	0.01	6.0
ZZ90641		1.92	12.0	800	18.8	41.3	<0.001	0.01	0.27	3.0	0.3	1.8	20.4	<0.01	0.01	4.7
ZZ90642		2.02	18.6	620	25.3	22.6	<0.001	0.01	0.47	2.9	0.4	1.3	14.5	<0.01	0.02	6.2
ZZ90643		1.81	16.4	760	19.4	31.6	<0.001	0.01	0.37	2.8	0.4	1.3	12.9	<0.01	0.01	7.8
ZZ90644		0.59	4.7	670	41.5	16.8	<0.001	0.03	0.38	0.9	0.2	1.0	16.7	<0.01	0.01	1.0
ZZ90645		1.94	16.6	720	23.1	39.6	<0.001	0.01	0.36	3.2	0.5	1.6	16.3	<0.01	0.02	6.2
ZZ90646		1.36	8.6	720	28.2	31.9	<0.001	0.05	0.22	1.4	0.4	1.7	28.3	<0.01	0.02	0.9
ZZ90647		2.04	27.3	570	25.0	34.9	<0.001	0.02	0.62	3.5	0.5	1.4	14.7	<0.01	0.02	3.7
ZZ90648		1.64	8.8	640	15.6	31.7	<0.001	0.01	0.20	2.0	0.4	1.5	15.3	<0.01	0.02	3.6
ZZ90649		2.00	10.1	700	29.3	48.9	<0.001	0.03	0.17	2.9	0.6	2.6	38.0	<0.01	0.02	3.3
ZZ90650		2.16	23.6	650	14.6	22.8	<0.001	0.02	0.51	2.8	0.4	1.1	13.3	<0.01	0.02	3.5
ZZ90651		1.17	17.5	920	12.3	29.6	<0.001	<0.01	0.39	3.1	0.7	1.1	20.0	<0.01	0.02	8.7
ZZ90652		1.97	14.6	660	12.9	36.1	<0.001	0.01	0.31	2.4	0.4	1.7	10.8	<0.01	0.02	3.4
ZZ90653		1.21	26.8	910	32.8	30.1	<0.001	0.02	0.66	3.3	0.8	1.4	18.4	<0.01	0.04	2.0
ZZ90654		1.57	20.0	730	22.4	34.2	<0.001	0.04	0.48	2.0	0.7	1.4	10.6	<0.01	0.03	0.6
ZZ90655		1.88	19.8	850	23.5	34.9	<0.001	0.02	0.43	3.3	0.8	1.6	19.9	<0.01	0.01	3.9
ZZ90656		1.81	20.6	800	21.7	39.5	<0.001	0.01	0.42	3.7	0.5	1.6	15.6	<0.01	0.02	5.9
ZZ90657		1.77	19.7	590	16.6	46.9	<0.001	0.01	0.37	3.5	0.4	1.8	11.8	<0.01	0.02	6.2
ZZ90658		1.68	16.7	760	42.1	41.3	<0.001	0.01	0.40	2.8	0.3	1.5	11.7	<0.01	0.03	3.1
ZZ90659		1.47	15.9	790	15.0	28.8	<0.001	0.01	0.37	2.4	0.5	1.2	14.5	<0.01	0.02	6.0
ZZ90660		1.49	16.8	720	25.7	27.1	<0.001	0.04	0.38	1.8	0.8	1.2	26.9	<0.01	0.03	1.0

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Project: KEG - Vat

CERTIFICATE OF ANALYSIS WH13158872

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ90634		0.116	0.33	4.25	47	0.30	6.00	66	0.9
ZZ90635		0.096	0.36	6.69	44	0.20	7.90	76	0.8
ZZ90636		0.328	0.57	2.93	96	0.23	3.71	110	1.3
ZZ90637		0.479	0.78	2.26	130	0.27	3.68	152	1.0
ZZ90638		0.376	0.77	4.43	104	0.35	4.78	117	0.9
ZZ90639		0.441	0.82	2.34	133	0.88	5.36	131	1.6
ZZ90640		0.081	0.35	7.99	48	0.16	9.64	137	0.7
ZZ90641		0.081	0.33	3.92	32	0.28	7.90	72	0.7
ZZ90642		0.073	0.30	4.78	37	0.26	7.19	71	1.0
ZZ90643		0.077	0.27	2.83	32	0.32	7.31	73	1.0
ZZ90644		0.022	0.17	4.86	20	0.08	6.10	60	<0.5
ZZ90645		0.084	0.32	4.63	36	0.26	7.59	77	0.8
ZZ90646		0.033	0.26	9.34	27	0.23	7.41	65	0.5
ZZ90647		0.073	0.35	9.81	49	0.40	8.31	88	0.9
ZZ90648		0.061	0.25	2.27	27	0.15	5.36	61	0.5
ZZ90649		0.048	0.45	9.65	32	0.16	8.68	87	0.5
ZZ90650		0.077	0.22	2.16	38	0.70	6.23	78	0.8
ZZ90651		0.081	0.25	5.11	34	0.31	9.32	69	2.6
ZZ90652		0.085	0.28	2.37	31	0.24	6.09	75	0.8
ZZ90653		0.057	0.30	10.55	54	0.36	10.85	108	<0.5
ZZ90654		0.067	0.30	5.45	50	0.30	5.19	84	<0.5
ZZ90655		0.080	0.29	4.49	38	3.58	8.14	93	0.6
ZZ90656		0.095	0.30	3.62	39	6.22	7.68	92	0.7
ZZ90657		0.104	0.36	5.60	40	2.00	8.21	81	0.8
ZZ90658		0.091	0.33	5.55	36	0.27	7.87	81	0.5
ZZ90659		0.071	0.22	2.99	33	0.21	7.32	67	0.7
ZZ90660		0.052	0.29	9.70	36	0.27	7.25	69	0.6

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CERTIFICATE OF ANALYSIS WH13158872

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
ME-MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
LOG-22 SCR-41 WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-ICP21 ME-MS41

APPENDIX VI

GEOLOGICAL AND GEOTECHNICAL LOGS

HAM-13-022

Box Number	From (m)	To (m)
1	3.47	8.8
2	8.8	14.26
3	14.26	20
4	20	25.6
5	25.6	31.16
6	31.16	36.55
7	36.55	42.24
8	42.24	48
9	48	53.52
10	53.52	59.18
11	59.18	64
12	64	70.61
13	70.61	76.42
14	76.42	82.19
15	82.19	87.98
16	87.98	93.49
17	93.49	99.23
18	99.23	104.37
19	104.37	110
20	110	115.65
21	115.65	121.29
22	121.29	126.83
23	126.83	132.57
24	132.57	138.07
25	138.07	143.73
26	143.73	149.37
27	149.37	155.11
28	155.11	161
29	161	166.76
30	166.76	172.43
31	172.43	178.05
32	178.05	183.82
33	183.82	189.45
34	189.45	195.29
35	195.29	200.87
36	200.87	206.52
37	206.52	212.18
38	212.18	218
39	218	223.63
40	223.63	229.06
41	229.06	234.36
42	234.36	239.69
43	239.69	245.59
44	245.59	251.48
45	251.48	257
46	257	263
47	263	268.78
48	268.78	274.52
49	274.52	280.26
50	280.26	286.05
51	286.05	291.65
52	291.65	293

Box Number	From (m)	To (m)

Keg - Silver Range

Archer, Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		595653	6918318	1583	293

ZONE: Hammer

SECTION:

HOLE: HAM-13-022

CLAIM:

Contractor: Top Rank

Drill: 2

Core Size: NQ2

Casing Depth: 3.47m, Out

Drilling Dates: Jun 22 - Jun 26, 2013

Geology Logged By: C. Chung

SURVEY			
Depth (m)	Azimuth	Dip	Method
0	260	-50	Compass
293	263.8	-52.1	Ranger

TARGET:

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	3.47	3.47	CAS
3.47	66.59	63.12	GRD
66.59	157.83	91.24	DIO
157.83	169.76	11.93	DIO
169.76	293	123.24	DIO

SAMPLES	
Numbers:	K285833 to K285851
Total:	23
Batch:	H01
Certificates:	WH13124475

COMMENTS

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
HAM-13-022									
	97.64	15	NQ2	DIO	778.2	481.5	2.6	2.6	
	165.26	14.6	NQ2	DIO	767.8	478.3	2.6	2.7	

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	3.47	3.47	CAS	--	Casing/Overburden - no core recovery							
						--	--	---	---	--	--	0
3.47	4.88	1.41	GRD	MG	Unaltered diorite shows no major alteration. Phases present: Qtz 30%, K Fsp 30%, Plag 40%. No sulphides.							
						LT	GY	XL	---	--	--	0
4.88	5.12	0.24	GRD	MG	Faulted area? Heavily weathered.							
						MD	BN	EA	KAO	4I	--	0
5.12	7.21	2.09	GRD	MG	Moderate Pot alteration of GRD. To give Or-Pink colour. Large 0.4mm Mu present 20%.							
						LT	OR	XL	POT	3I	--	0
7.21	10.36	3.15	GRD	MG	Same as general.							
						LT	GY	XL	---	--	--	0
10.36	10.66	0.30	GRD	MG	Heavily kaolinised zone.							
						MD	BN	EA	KAO	3I	--	0
10.66	17.60	6.94	GRD	MG	Same as General							
						LT	GY	XL	---	--	--	0
17.60	17.88	0.28	GRD	MG	2 kinds of alteration. Orange-pink ksp replacement then clay mineral breakup. Mu and Hb unaffected, Qtz breakdown.							
						MD	OR	EA	POT	3I	--	0
									KAO	3I		
17.88	19.38	1.50	GRD	MG	Same as general.							
						LT	GY	XL	---	--	--	0
19.38	19.58	0.20	GRD	MG	Advanced Pot alt and breakdown							
						LT	OR	EA	KAO	4I	--	0
									POT	4I		
19.58	30.53	10.95	GRD	MG	Same as general							
						LT	GY	XL	---	--	--	0
30.53	33.53	3.00	GRD	MG	Section of Pot alt.Ksp. Occurs in 10-50cm section. 50%TCA.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	OR	XL	---	--	--	0
33.53	36.25	2.72	GRD	MG	Same as general.							
						LT	GY	XL	---	--	--	0
36.25	36.37	0.12	SSS	FG	Siltstone xenolith or large siliceous vein in GRD. Vuggy infill. Tiny amount of sulphide and oxidation on vein surface <5% calcite in veins.							
						LT	GY	MA	SIL	3I	Py	0.01
36.37	42.75	6.38	GRD	MG	Same as general.							
						LT	GY	XL	---	--	--	0
42.75	43.47	0.72	GRD	MG	Arg section bleaches rock.							
						LT	WH	XL	ARG	3I	--	0
43.47	46.43	2.96	GRD	MG	Same as general.							
						LT	GY	XL	---	--	--	0
46.43	49.26	2.83	GRD	MG	Heavily Kao and altered, clay earthy section. Phenocrysts appear intact . To Tca 40. Appears parallel to major joint set.							
						LT	BR	EA	KAO	4I	--	0
49.26	53.90	4.64	GRD	MG	Same as general.							
						LT	GY	XL	---	--	--	0
53.90	54.05	0.15	GRD	CG	Alteration along a vein. Iron oxide and chl. No apparent sulphides.							
						DK	BR	XL	CHL	2I	--	0
54.05	66.59	12.54	GRD	MG	Same as general.							
						LT	GY	XL	---	--	--	0
66.59	87.31	20.72	DIO	MG	Similar to general diorite with 30% biotite. No significant sulphides. @ 74.73 m silica veinlet (1.5 cm) with core band of hornblende, diffused contact at ~70° to core axis.							
						MD	GY	XL	---	--	--	0
87.31	87.87	0.56	DIO	MG	Fracture zone with granular gouge, weak moderately oxidised with minor oxides noted pervasively through the core rocks.							
						MD	GY	XL	OXI	1I	Li	1.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	OR					
87.87	91.11	3.24	DIO	MG	Similar to general description. Diffused bands show weak sericitic alteration at ~55° to core axis. No significant sulphides.							
						MD	GY	XL	SER	1I	--	0
91.11	92.63	1.52	DIO	MG	Similar to general description, matrix is weakly bleached with two large fractures at ~15° to core axis with rubbly granular gouge. No significant sulphides.							
						MD	GY					
						LT	GY	XL	BLE	1I	--	0
92.63	96.20	3.57	DIO	MG	Similar to general. Faulted(?) zone at 94.41-94.73m.							
						MD	GY	XL	---	--	--	0
96.20	98.14	1.94	DIO	MG	Bleached interval with weak-moderate chloritic and weak sericitic pervasive alt and localised potassica alteration along narrow silica veinlets at ~40° to core axis. Trace pyrite and rare sphalerite (?). Diffused contacts for this interval at ~20° to core axis.							
						LT	GY	XL	BLE	2I	Py	0.2
									POT	2I	Sp	0.1
									SER	2I		
98.14	110.26	12.12	DIO	MG	Interval of biotite-hornblende diorite with localised bleached zones making up 30-35% of the interval (potassic envelopes to very diffused/narrow veinlets?). Blocky fractured zones make up 5% of interval. Fracture surfaces are gougey with muscovite/sericite at ~20° to core axis. No significant sulphides noted.							
						MD	GY		POT	1I		
						LT	GY	XL	BLE	1I	--	0
									SER	2I		
110.26	115.19	4.93	DIO	MG	Similar to above section with more intensely bleached and clay altered localised intervals making up 40-50% of the interval. Bleached zones are unaltered diorite/granodiorite.							
						LT	GY	XL	BLE	2I	Py	0.2
						LT	GN		SER	2I		
									POT	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
115.19	118.35	3.16	DIO	MG	Diorite similar to general description with weak-moderate chlorite alteration, appears to be envelopes for very discrete/diffused veining structures (propylitic?). No significant sulphides.							
						MD	GY	XL	CHL	2I	--	0
						MD	GN					
118.35	120.40	2.05	DIO	MG	Bleached, cream/tan coloured, moderate argillic altered interval. One large fracture at ~30° to core axis, coated with orange-brown iron oxide and hematite. No other significant sulphide minerals.							
						LT	GY	XL	ARG	2I	He	0.2
						LT	CR		SER	2I		
120.40	130.17	9.77	DIO	MG	Weakly clay (argillic/sericitic?) altered diorite. No significant sulphides.							
						MD	GY	XL	ARG	1I	--	0
						LT	GN		SER	1I		
130.17	143.98	13.81	DIO	MG	Similar to general description with weak foliation (?) fabric at ~40° to core axis. Dominantly unaltered diorite/granodiorite with localised narrow bands with weak-moderate potassic alteration, appearing to be along diffused veining structures. No significant sulphide noted.							
						MD	GY	XL	POT	1I	--	0
						DK	GY		SER	1I		
143.98	157.83	13.85	DIO	MG	Similair to general with pervasive weak-moderate sericite and chl alteration. Slightly bleached matrix. No significant sulphide noted.							
						MD	GY	XL	SER	2I	--	0
						LT	GN		CHL	2I		
157.83	162.30	4.47	DIO	MG	Similar to general description. Dominantly clay and sericite altered diorite/granodiorite. No significant sulphides noted.							
						LT	GN	XL	SER	3I	--	0
						LT	CR		CLY	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
162.30	164.45	2.15	DIO	MG	Increased chlorite content as well as grain size for plagioclase phenocrysts. No significant sulphide minerals noted in the matrix. @162.57-162.69 m Rhodocrosite (?) vein 5 cm wide at ~25° to core axis. Slightly shattered core rock. Vein has semi massive black sphalerite and trace galena blebs (<0.3 cm across).							
						LT	TN	PO	SER	2I	Sp	1
						LT	GN		CHL	2I	Gn	0.2
164.45	166.76	2.31	DIO	MG	Interval of decreased alteration (chlorite and sericite) but appears weakly silicified with foliation fabric at ~60° to core axis. Quartz veins (up to 0.4 cm) noted but not carrying sulphides at ~50° to core axis.							
						MD	GY	XL	SER	1I	--	0
									SIL	2I		
166.76	169.76	3.00	DIO	MG	Similar to general description with slight decrease in pervasive sericite alteration. Weakly silicified matrix with slight foliation fabric at ~60-70° to core axis. No significant sulphides noted.							
						MD	GY		CLY	1I		
						LT	GN	XL	SER	2I	--	0
									SIL	1I		
169.76	193.53	23.77	DIO	MG	Similar to general description with decreased amounts of silica bands. Very weakly bleached matrix with very weak foliation at ~50° to core axis.							
						MD	GY	XL	BLE	1I	--	0
193.53	193.79	0.26	DIO	MG	Bleached interval with green tension gashes and large grey-green silica flooding/irregular vein zone.							
						LT	GY	XL	BLE	3I	--	0
						LT	GN					
193.79	220.58	26.79	DIO	MG	Similar to general description. Prominent silica bands in this interval decreasing moving down hole, becoming diffused bands. No significant sulphides noted.							
						MD	GY	XL	---	--	--	0

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
220.58	223.08	2.50	GRD	MG	Increasing quartz content to give granodiorite. Moderately altered diorite/granodiorite. Matrix is bleached with light green colouring (sericite alt). Fracture surfaces in this interval are coated with light gouge material. No significant sulphides noted.							
						LT	GY	XL	SER	2I	--	0
						LT	GN					
223.08	227.35	4.27	GRD	MG	Similar to general description. Unaltered to very weakly propylitic altered granodiorite/diorite. No significant sulphides.							
						MD	GY	XL	SER	1I	--	0
227.35	233.85	6.50	GRD	MG	Blocky interval of core fractures surfaces are lightly coated with fine granular gouge. Moderately chlorite and sericite alteration "contact" at ~65° to core axis.							
						MD	GY		CHL	1I		
						LT	GN	XL	SER	3I	--	0
233.85	273.00	39.15	GRD	MG	Similar to general description with localised patches of bleached sericite/argillic alteration.							
						MD	GY	XL	BLE	1I	--	0
273.00	275.14	2.14	GRD	MG	Bleached interval with increased veining/ tension fractures at ~40-50° to core axis infilled with dark-grey-green silica. Matrix appears to be weak-moderately potassic altered.							
						LT	GY	XL	BLE	2I	--	0
									POT	2I		
275.14	289.29	14.15	GRD	MG	Similar to general description with slight pale green colouring in matrix (sericite?) narrow bands of silica flooding/veinlets noted, often with weak chlorite envelopes, preferred orientation at ~60° to core axis, <0.5 cm wide.							
						MD	GY	XL	BLE	1I	--	0
289.29	293.00	3.71	GRD	MG	Similar to general description with slight pale green colouring in matrix (sericite?). Narrow bands of silica flooding/veinlets noted, often with weak chlorite envelopes, preferred orientation at ~60-70° to core axis, 0.5 cm. EOH at 293.0 m							
						MD	GY	XL	SER	1I	--	0

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GN		CHL	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	3.47	3.47	CAS	--	Casing/Overburden - no core recovery							
						--	--	---	---	--	--	0
3.47	66.59	63.12	GRD	MG	Diorite to Granodiorite igneous rock. Showing uniform phenocrysts, 0.3mm. Major variations in this section is the % of mafic phenocrysts and type of alteration. Hb present in some areas forming minor lineation in areas. Potassic, Argillic and Kaolinisation seen. Qtz 10%, Plag 40%, K-Fsp 20%, 20% Muscovite and 10% Bi + Hb.							
						LT	GY	XL	---	--	--	0
66.59	157.83	91.24	DIO	MG	Large increase in plag % from 30% to 60-70% and increase in Bi and Hb. Minor Sulphide veins see secondary strcuture mainly Hb.							
						MD	GY	XL	---	--	--	0
157.83	169.76	11.93	DIO	MG	Bleached/ Altered Diorite: Light yellow-green, weakly clay, moderately sericitic altered diorite/granodiorite. Localized patches with moderate chloritic alteration also noted. Low-Moderate veining density, generally narrow, irregular carbonate veinlets at low angles (<40°) to core axis. Quartz veining also noted, up to 4 cm wide, dominantly at 50-60° to core axis. No significant sulphide noted other than in one vein at 162.57 m bearing black sphalerite (?). Solid competent core rock with minor fracturing mostly at ~60-70° to core axis.							
									CHL	1I		
						LT	CR		CLY	1I		
						LT	GN	XL	SER	2I	Sp	0.2

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
169.76	293.00	123.24	DIO	MG	Diorite: Mottled grey diorite/granodiorite, mostly unaltered with localised weak brown bands, often orientated at ~60-70° to core axis and up to 5 cm wide. Localized patches of pale green colouring (chlorite/sericite alteration). Low-mod veining density, brown altered bands appear to be concentrated silica bands. No significant sulphides noted, blebs of dark brown-black hornblende present in trace amounts (<2 cm across). Solid competent core rock with minor fracturing at ~40° to core axis. EOH at 293.0 m							
									CHL	1I		
						MD	GY	XL	SER	1I	--	0

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	3.47	3.47	0	0	0.00	0	0R	--	--	OVB
3.47	5.00	1.53	1.39	91	0.29	19	0R	5H	2W	
5.00	8.00	3.00	2.65	88	1.58	53	0R	5H	2W	
8.00	11.00	3.00	2.87	96	2.23	74	0R	5H	2W	
11.00	14.00	3.00	2.81	94	2.58	86	0R	5H	2W	
14.00	17.00	3.00	2.95	98	2.40	80	0R	5H	2W	
17.00	20.00	3.00	2.76	92	1.59	53	0R	5H	2W	
20.00	23.00	3.00	2.95	98	2.54	85	0R	5H	2W	
23.00	26.00	3.00	3	100	2.60	87	0R	5H	2W	
26.00	29.00	3.00	3	100	2.95	98	0R	5H	2W	
29.00	32.00	3.00	2.85	95	2.74	91	0R	5H	2W	
32.00	35.00	3.00	2.92	97	1.69	56	0R	5H	2W	
35.00	38.00	3.00	2.9	97	2.24	75	0R	5H	2W	
38.00	41.00	3.00	2.89	96	2.70	90	0R	5H	2W	
41.00	44.00	3.00	3	100	2.85	95	0R	5H	2W	
44.00	47.00	3.00	2.82	94	2.46	82	0R	5H	2W	
47.00	50.00	3.00	2.71	90	1.66	55	0R	5H	2W	
50.00	53.00	3.00	3	100	2.92	97	0R	5H	2W	
53.00	56.00	3.00	3	100	2.73	91	0R	5H	2W	
56.00	59.00	3.00	2.97	99	2.96	99	0R	5H	2W	
59.00	62.00	3.00	2.83	94	2.62	87	0R	5H	1W	
62.00	65.00	3.00	3	100	2.92	97	0R	5H	1W	
65.00	68.00	3.00	3	100	2.90	97	0R	5H	1W	
68.00	71.00	3.00	3	100	2.90	97	0R	5H	1W	
71.00	74.00	3.00	3	100	2.85	95	0R	5H	1W	
74.00	77.00	3.00	3	100	2.93	98	0R	5H	1W	
77.00	80.00	3.00	2.92	97	2.85	95	0R	5H	1W	
80.00	83.00	3.00	3	100	2.94	98	0R	5H	1W	
83.00	86.00	3.00	2.85	95	2.64	88	0R	5H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
86.00	89.00	3.00	2.9	97	2.26	75	0R	5H	1W	
89.00	92.00	3.00	2.98	99	2.98	99	0R	5H	1W	
92.00	95.00	3.00	2.96	99	2.71	90	0R	5H	1W	
95.00	98.00	3.00	2.9	97	2.72	91	0R	5H	1W	
98.00	101.00	3.00	3	100	2.30	77	0R	5H	1W	
101.00	104.00	3.00	3	100	1.82	61	0R	5H	1W	
104.00	107.00	3.00	3	100	2.74	91	0R	5H	1W	
107.00	110.00	3.00	2.95	98	2.53	84	0R	5H	1W	
110.00	113.00	3.00	3	100	2.65	88	0R	5H	1W	
113.00	116.00	3.00	2.95	98	2.85	95	0R	5H	1W	
116.00	119.00	3.00	2.96	99	2.61	87	0R	5H	1W	
119.00	122.00	3.00	3	100	2.87	96	0R	5H	1W	
122.00	125.00	3.00	2.94	98	2.73	91	0R	5H	1W	
125.00	128.00	3.00	3	100	3.00	100	0R	5H	1W	
128.00	131.00	3.00	2.97	99	2.67	89	0R	5H	1W	
131.00	134.00	3.00	2.96	99	2.92	97	0R	5H	1W	
134.00	137.00	3.00	3	100	3.00	100	0R	5H	1W	
137.00	140.00	3.00	2.93	98	2.93	98	0R	5H	1W	
140.00	143.00	3.00	2.98	99	2.98	99	0R	5H	1W	
143.00	146.00	3.00	3	100	2.71	90	0R	5H	1W	
146.00	149.00	3.00	2.96	99	2.81	94	0R	5H	1W	
149.00	152.00	3.00	3	100	2.86	95	0R	5H	1W	
152.00	155.00	3.00	3	100	3.00	100	0R	5H	1W	
155.00	158.00	3.00	2.92	97	2.92	97	0R	5H	1W	
158.00	161.00	3.00	3	100	2.83	94	0R	5H	1W	
161.00	164.00	3.00	3	100	2.95	98	0R	5H	1W	
164.00	167.00	3.00	2.98	99	2.98	99	0R	5H	1W	
167.00	170.00	3.00	3	100	3.00	100	0R	5H	1W	
170.00	173.00	3.00	3	100	3.00	100	0R	5H	1W	
173.00	176.00	3.00	3	100	3.00	100	0R	5H	1W	
176.00	179.00	3.00	3	100	3.00	100	0R	5H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
179.00	182.00	3.00	3	100	3.00	100	0R	5H	1W	
182.00	185.00	3.00	3	100	2.94	98	0R	5H	1W	
185.00	188.00	3.00	2.96	99	2.96	99	0R	5H	1W	
188.00	191.00	3.00	3	100	3.00	100	0R	5H	1W	
191.00	194.00	3.00	3	100	3.00	100	0R	5H	1W	
194.00	197.00	3.00	3	100	3.00	100	0R	5H	1W	
197.00	200.00	3.00	2.98	99	2.98	99	0R	5H	1W	
200.00	203.00	3.00	3	100	3.00	100	0R	5H	1W	
203.00	206.00	3.00	3	100	3.00	100	0R	5H	1W	
206.00	209.00	3.00	2.98	99	2.98	99	0R	5H	1W	
209.00	212.00	3.00	3	100	2.96	99	0R	5H	1W	
212.00	215.00	3.00	2.99	100	2.99	100	0R	5H	1W	
215.00	218.00	3.00	2.91	97	2.88	96	0R	5H	1W	
218.00	221.00	3.00	3	100	2.92	97	0R	5H	1W	
221.00	224.00	3.00	2.99	100	2.91	97	0R	5H	1W	
224.00	227.00	3.00	2.94	98	2.68	89	0R	5H	1W	
227.00	230.00	3.00	2.6	87	1.45	48	0R	5H	1W	
230.00	233.00	3.00	2.95	98	1.32	44	0R	5H	1W	
233.00	236.00	3.00	3	100	2.69	90	0R	5H	1W	
236.00	239.00	3.00	3	100	2.86	95	0R	5H	1W	
239.00	242.00	3.00	3	100	3.00	100	0R	5H	1W	
242.00	245.00	3.00	3	100	3.00	100	0R	5H	1W	
245.00	248.00	3.00	2.97	99	2.97	99	0R	5H	1W	
248.00	251.00	3.00	3	100	3.00	100	0R	5H	1W	
251.00	254.00	3.00	2.98	99	2.98	99	0R	5H	1W	
254.00	257.00	3.00	3	100	2.98	99	0R	5H	1W	
257.00	260.00	3.00	3	100	3.00	100	0R	5H	1W	
260.00	263.00	3.00	3	100	3.00	100	0R	5H	1W	
263.00	266.00	3.00	2.99	100	2.99	100	0R	5H	1W	
266.00	269.00	3.00	2.96	99	2.68	89	0R	5H	1W	
269.00	272.00	3.00	3	100	3.00	100	0R	5H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
272.00	275.00	3.00	2.94	98	2.77	92	0R	5H	1W	
275.00	278.00	3.00	3	100	2.91	97	0R	5H	1W	
278.00	281.00	3.00	2.99	100	2.67	89	0R	5H	1W	
281.00	284.00	3.00	2.99	100	2.99	100	0R	5H	1W	
284.00	287.00	3.00	3	100	2.83	94	0R	5H	1W	
287.00	290.00	3.00	3	100	2.99	100	0R	5H	1W	
290.00	293.00	3.00	3	100	3.00	100	0R	5H	1W	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
1	0	CAS	Casing
2	0	CAS	Casing
3	0	CAS	Casing
4	0.527	GRD	
5	0.03	GRD	
6	0.296	GRD	
7	0.118	GRD	
8	0.14	GRD	
9	0.188	GRD	
10	0.429	GRD	
11	0.172	GRD	
12	0.1	GRD	
13	0.104	GRD	
14	0.116	GRD	
15	0.33	GRD	
16	0.123	GRD	
17	0.022	GRD	
18	0.177	GRD	
19	0.193	GRD	
20	0.216	GRD	
21	0.232	GRD	
22	0.199	GRD	
23	0.13	GRD	
24	0.099	GRD	
25	0.224	GRD	
26	0.24	GRD	
27	0.128	GRD	
28	0.118	GRD	
29	0.022	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
30	0.31	GRD	
31	0.183	GRD	
32	0.166	GRD	
33	0.208	GRD	
34	0.213	GRD	
35	0.25	GRD	
36	0.197	GRD	
37	0.26	GRD	
38	0.165	GRD	
39	0.276	GRD	
40	0.166	GRD	
41	0.471	GRD	
42	0.274	GRD	
43	0.103	GRD	
44	0.151	GRD	
45	0.153	GRD	
46	0.136	GRD	
47	0.049	GRD	
48	0.152	GRD	
49	0.17	GRD	
50	0.13	GRD	
51	0.196	GRD	
52	0.14	GRD	
53	0.127	GRD	
54	0.161	GRD	
55	0.148	GRD	
56	0.047	GRD	
57	0.87	GRD	
58	0.854	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
59	0.148	GRD	
60	0.161	GRD	
61	0.111	GRD	
62	0.109	GRD	
63	0.108	GRD	
64	0.125	GRD	
65	0.214	GRD	
66	0.139	GRD	
67	0.112	DIO	
68	0.13	DIO	
69	0.11	DIO	
70	0.185	DIO	
71	0.015	DIO	
72	0.051	DIO	
73	0.169	DIO	
74	0.144	DIO	
75	0.156	DIO	
76	0.176	DIO	
77	0.032	DIO	
78	0.037	DIO	
79	0.05	DIO	
80	0.172	DIO	
81	0.17	DIO	
82	0.14	DIO	
83	0.061	DIO	
84	0.079	DIO	
85	0.071	DIO	
86	0.051	DIO	
87	0.099	DIO	
88	0.074	DIO	
89	0.099	DIO	

Depth (m)	Magnetic Susceptibility	Unit	Comments
90	0.083	DIO	
91	0.058	DIO	
92	0.065	DIO	
93	0.071	DIO	
94	0.067	DIO	
95	0.068	DIO	
96	0.043	DIO	
97	0.061	DIO	
98	0.075	DIO	
99	0.075	DIO	
100	0.125	DIO	
101	0.181	DIO	
102	0.096	DIO	
103	0.075	DIO	
104	0.078	DIO	
105	0.075	DIO	
106	0.047	DIO	
107	0.051	DIO	
108	0.105	DIO	
109	0.137	DIO	
110	0.064	DIO	
111	0.094	DIO	
112	0.109	DIO	
113	0.08	DIO	
114	0.09	DIO	
115	0.076	DIO	
116	0.091	DIO	
117	0.083	DIO	
118	0.072	DIO	
119	0.152	DIO	
120	0.078	DIO	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
121	0.05	DIO	
122	0.077	DIO	
123	0.031	DIO	
124	0.084	DIO	
125	0.056	DIO	
126	0.031	DIO	
127	0.063	DIO	
128	0.103	DIO	
129	0.092	DIO	
130	0.074	DIO	
131	0.112	DIO	
132	0.068	DIO	
133	0.109	DIO	
134	0.12	DIO	
135	0.088	DIO	
136	0.249	DIO	
137	0.125	DIO	
138	0.181	DIO	
139	0.15	DIO	
140	0.074	DIO	
141	0.07	DIO	
142	0.083	DIO	
143	0.07	DIO	
144	0.138	DIO	
145	0.069	DIO	
146	0.068	DIO	
147	0.065	DIO	
148	0.052	DIO	
149	0.038	DIO	
150	0.09	DIO	
151	0.08	DIO	

Depth (m)	Magnetic Susceptibility	Unit	Comments
152	0.061	DIO	
153	0.053	DIO	
154	0.076	DIO	
155	0.06	DIO	
156	0.168	DIO	
157	0.088	DIO	
158	0.053	DIO	
159	0.134	DIO	
160	0.157	DIO	
161	0.106	DIO	
162	0.227	DIO	
163	0.214	DIO	
164	0.177	DIO	
165	0.154	DIO	
166	0.17	DIO	
167	0.213	DIO	
168	0.075	DIO	
169	0.107	DIO	
170	0.129	DIO	
171	0.065	DIO	
172	0.116	DIO	
173	0.12	DIO	
174	0.082	DIO	
175	0.044	DIO	
176	0.117	DIO	
177	0.139	DIO	
178	0.06	DIO	
179	0.111	DIO	
180	0.117	DIO	
181	0.049	DIO	
182	0.112	DIO	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
183	0.107	DIO	
184	0.075	DIO	
185	0.071	DIO	
186	0.12	DIO	
187	0.081	DIO	
188	0.111	DIO	
189	0.181	DIO	
190	0.074	DIO	
191	0.068	DIO	
192	0.077	DIO	
193	0.079	DIO	
194	0.034	DIO	
195	0.08	DIO	
196	0.08	DIO	
197	0.068	DIO	
198	0.043	DIO	
199	0.064	DIO	
200	0.072	DIO	
201	0.062	DIO	
202	0.048	DIO	
203	0.08	DIO	
204	0.148	DIO	
205	0.039	DIO	
206	0.021	DIO	
207	0.113	DIO	
208	0.057	DIO	
209	0.07	DIO	
210	0.035	DIO	
211	0.053	DIO	
212	0.067	DIO	
213	0.071	DIO	

Depth (m)	Magnetic Susceptibility	Unit	Comments
214	0.044	DIO	
215	0.019	DIO	
216	0.05	DIO	
217	0.059	DIO	
218	0.05	DIO	
219	0.099	DIO	
220	0.021	DIO	
221	0.05	DIO	
222	0.028	DIO	
223	0.032	DIO	
224	0.081	DIO	
225	0.05	DIO	
226	0.037	DIO	
227	0.049	DIO	
228	0.07	DIO	
229	0.011	DIO	
230	0.095	DIO	
231	0.04	DIO	
232	0.013	DIO	
233	0.113	DIO	
234	0.072	DIO	
235	0.04	DIO	
236	0.03	DIO	
237	0.044	DIO	
238	0.063	DIO	
239	0.037	DIO	
240	0.028	DIO	
241	0.072	DIO	
242	0.034	DIO	
243	0.037	DIO	
244	0.069	DIO	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
245	0.062	DIO	
246	0.029	DIO	
247	0.063	DIO	
248	0.042	DIO	
249	0.024	DIO	
250	0.031	DIO	
251	0.021	DIO	
252	0.039	DIO	
253	0.072	DIO	
254	0.059	DIO	
255	0.024	DIO	
256	0.109	DIO	
257	0.05	DIO	
258	0.065	DIO	
259	0.018	DIO	
260	0.104	DIO	
261	0.04	DIO	
262	0.069	DIO	
263	0.133	DIO	
264	0.058	DIO	
265	0.128	DIO	
266	0.088	DIO	
267	0.077	DIO	
268	0.055	DIO	
269	0.052	DIO	
270	0.092	DIO	
271	0.049	DIO	
272	0.022	DIO	
273	0.078	DIO	
274	0.043	DIO	
275	0.081	DIO	
276	0.031	DIO	
277	0.034	DIO	
278	0.077	DIO	
279	0.099	DIO	
280	0.054	DIO	
281	0.073	DIO	
282	0.02	DIO	
283	0.082	DIO	
284	0.016	DIO	
285	0.111	DIO	
286	0.047	DIO	
287	0.031	DIO	
288	0.012	DIO	
289	0.016	DIO	
290	0.018	DIO	
291	0.026	DIO	
292	0.07	DIO	
293	0.021	DIO	EOH

Sample Log

HAM-13-022

Silver Range
Hammer Zone

Archer,Cathro & Associates (1981) Limited

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	K285845	13-H01	Core	K-3	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K285849	13-H01	Core		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K285836	13-H01	Core	K-3	☐	☐	☐
96.00	96.65	0.65	DIO	0.64	98	K285833	13-H01	Core		☐	☐	☐
96.65	97.29	0.64	DIO	0.64	100	K285834	13-H01	Core		☐	☐	☐
97.29	98.14	0.85	DIO	0.78	92	K285835	13-H01	Core		☐	☐	☐
110.26	111.36	1.10	DIO	1.10	100	K285837	13-H01	Core		☐	☐	☐
111.36	112.07	0.71	DIO	0.71	100	K285838	13-H01	Core		☐	☐	☐
112.07	114.47	2.40	DIO	2.08	87	K285839	13-H01	Core		☐	☐	☐
114.47	115.32	0.85	DIO	0.78	92	K285840	13-H01	Core		☐	☐	☐
115.32	118.30	2.98	DIO	2.93	98	K285841	13-H01	Core		☐	☐	☐
115.32	118.30	2.98	DIO	2.93	98	K285842	13-H01	Core		☐	☑	☐
118.30	120.39	2.09	DIO	2.06	99	K285843	13-H01	Core		☐	☐	☐
120.39	122.35	1.96	DIO	1.93	98	K285844	13-H01	Core		☐	☐	☐
160.00	161.46	1.46	DIO	1.46	100	K285846	13-H01	Core		☐	☐	☐
161.46	162.44	0.98	DIO	0.98	100	K285847	13-H01	Core		☐	☐	☐
162.44	162.93	0.49	DIO	0.49	100	K285848	13-H01	Core		☐	☐	☐
162.93	164.00	1.07	DIO	1.04	97	K285850	13-H01	Core		☐	☐	☐
164.00	165.00	1.00	DIO	1.00	100	K285851	13-H01	Core		☐	☐	☐

Sample Results

Batch	Sample	From (m)	To (m)	Ag g/t	Pb ppm	Zn ppm	Cu ppm	In ppm	Sn ppm	Au g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
13-H01	K285836	0.00	0.00	23.80	1500	14400	1880	26.1	268	0.02	☐	☐	☐	☑ K-3	
13-H01	K285849	0.00	0.00	0.35	5	47	3	0.0	3	0.00	☐	☐	☑	☐	
13-H01	K285845	0.00	0.00	23.00	1430	14550	1780	24.8	275	0.02	☐	☐	☐	☑ K-3	
13-H01	K285833	96.00	96.65	0.08	46	40	2	0.0	5	0.00	☐	☐	☐	☐	
13-H01	K285834	96.65	97.29	0.71	98	172	4	0.0	15	0.00	☐	☐	☐	☐	
13-H01	K285835	97.29	98.14	0.10	45	43	2	0.0	9	0.00	☐	☐	☐	☐	
13-H01	K285837	110.26	111.36	0.18	49	69	3	0.0	7	0.00	☐	☐	☐	☐	
13-H01	K285838	111.36	112.07	0.11	44	53	7	0.0	8	0.00	☐	☐	☐	☐	
13-H01	K285839	112.07	114.47	0.08	45	52	7	0.0	11	0.00	☐	☐	☐	☐	
13-H01	K285840	114.47	115.32	0.14	46	55	8	0.0	7	0.00	☐	☐	☐	☐	
13-H01	K285842	115.32	118.30	0.05	44	59	8	0.0	10	0.00	☑	☐	☐	☐	
13-H01	K285841	115.32	118.30	0.07	45	60	7	0.0	10	0.00	☐	☐	☐	☐	
13-H01	K285843	118.30	120.39	11.20	167	435	18	0.0	17	0.01	☐	☐	☐	☐	
13-H01	K285844	120.39	122.35	0.36	51	169	2	0.0	9	0.00	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Ag g/t	Pb ppm	Zn ppm	Cu ppm	In ppm	Sn ppm	Au g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
13-H01	K285846	160.00	161.46	0.21	41	56	4	0.0	9	0.00	☐	☐	☐	☐	
13-H01	K285847	161.46	162.44	0.23	37	64	3	0.0	6	0.00	☐	☐	☐	☐	
13-H01	K285848	162.44	162.93	337.00	4870	45900	204	0.1	58	0.05	☐	☐	☐	☐	
13-H01	K285850	162.93	164.00	0.76	74	127	4	0.0	11	0.00	☐	☐	☐	☐	
13-H01	K285851	164.00	165.00	0.67	43	114	9	0.0	16	0.00	☐	☐	☐	☐	

Box Log

HAM-13-023

Silver Range
Hammer Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	6.15	11
2	11	15.39
3	15.39	20
4	20	24.77
5	24.77	30.59
6	30.59	36.21
7	36.21	41.87
8	41.87	47.44
9	47.44	52.82
10	52.82	58.14
11	58.14	63.99
12	63.99	68

Box Number	From (m)	To (m)

Box Number	From (m)	To (m)

Keg - Silver Range

Archer, Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		595455	6918532	1443.3	68

ZONE: Hammer

SECTION:

HOLE: HAM-13-023

CLAIM:

Contractor: Top Rank

Drill: 2

Core Size: NQ2

Casing Depth: 6.15m, Out

Drilling Dates: Jun 26 - Jun 28, 2013

Geology Logged By: L. Pryer

SURVEY			
Depth (m)	Azimuth	Dip	Method
0	0	-90	Compass
0	0	-90	Compass

TARGET: water table level

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	6.15	6.15	CAS
6.15	26	19.85	GRD
26	68	42	GRD

SAMPLES	
Numbers:	K285852
Total:	3
Batch:	H01
Certificates:	WH13124475

COMMENTS
Water well test hole. No downhole survey.

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
HAM-13-023									
	57.16	15	NQ2	GRD	794.9	495.4	2.6	2.7	

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	6.15	6.15	CAS	--	Casing							
						--	--	---	---	--	--	0
6.15	10.62	4.47	GRD	MG	Buff orange area with patches of complete core disintegration.							
						LT	OR	EA	KAO	4I	--	0
10.62	16.60	5.98	GRD	MG	Less intense arg alteration bleaches the rock. More competent and coherent. Some chl and ser present. Mu 10%. Little obvious K-Fsp <10%. Phenocrysts up to 3mm. Greenish tint from chl (bi to chl), no obvious Bi.							
						LT	GY	EA	ARG	2I	--	0
16.60	17.55	0.95	GRD	MG	Orange- brown alteration appears to be K-Fsp, although Iron oxide could be present. Section also contains numerous vuggy openings. With Si infill in 50% of vugs. Mu content 30%. Colour looks like dolomite but no HCL reaction.							
						MD	OR	XL	POT	3I	--	0
17.55	18.98	1.43	GRD	MG	Similar initial alteration to previous section but igneous rock has broken further due to clay minerals. Vugs filled with chert/ chalcedony still intact.							
						DK	OR	XL	POT	3I	--	0
									KAO	3I		
18.98	21.68	2.70	GRD	MG	Almost unaltered GRD minor orange-brown areas and some 0.7mm Quartz veins.							
						LT	GY	XL	POT	2I	--	0
21.68	23.00	1.32	GRD	MG	Chocolate brown Bi rich unaltered GRD. Possibly a sill/dyke. Bi form a foliation. 15-20%							
						LT	GY	XL	---	--	--	0
23.00	26.00	3.00	GRD	MG	Heavily bleached and incoherent GRD. Minor dark phenocrysts.							
						LT	WH	EA	ARG	3I	--	0
26.00	52.33	26.33	GRD	MG	Same as general.							
						LT	GY	XL	---	--	--	0
52.33	54.26	1.93	GRD	MG	A more heavily splintered (jointed) area showing 0.3mm distal potassic alteration along a series of veinlets. No pervasive alteration.							
						LT	OR	XL	POT	3I	--	0

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
54.26	57.96	3.70	GRD	MG	Same as General.							
						LT	GY	XL	---	--	--	0
57.96	62.12	4.16	GRD	MG	More pervasive Pot alteration with 35-60% of core matrix showing k-Fsp increases. Associated with carbonate vein containing Gn and Py.							
						MD	OR				Py	0.01
						LT	GY	XL	POT	3I	Gn	0.01
62.12	68.00	5.88	GRD	MG	Same as general.							
						LT	GY	XL	---	--	--	0

HAM-13-023

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	6.15	6.15	CAS	--	Casing							
						--	--	---	---	--	--	0
6.15	26.00	19.85	GRD	MG	Heavily weathered and decomposed granodiorite. Originally appears Bi + Mu rich but varying degrees of kao + arg have changed minerals. Large amounts of clay minerals and section of arg bleaching. Due to alteration mineral % not assigned.							
									ARG	3I		
						LT	GY	XL	KAO	3I	--	0
26.00	68.00	42.00	GRD	MG	GRD. Minor alt.Minor Pot around veins, 2cm proximal. Average composition: Mu 15%, Qtz 20%, Plag Fsp 60%, K-Fsp Minimal. Bi+ hb varies from 0-10%.							
											Py	0.01
						LT	GY	XL	POT	1I	Gn	0.01

HAM-13-023

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	6.15	6.15	0	0	0.00	0	0R	--	--	OVB
6.15	8.00	1.85	1.85	100	0.39	21	0R	2H	4W	
8.00	11.00	3.00	2.49	83	0.14	5	0R	1H	5W	
11.00	14.00	3.00	2.79	93	0.93	31	0R	2H	4W	
14.00	17.00	3.00	3	100	2.08	69	0R	3H	3W	
17.00	20.00	3.00	3	100	0.56	19	0R	3H	4W	
20.00	23.00	3.00	2.56	85	0.88	29	0R	4H	3W	
23.00	26.00	3.00	2.04	68	0.00	0	0R	1H	5W	
26.00	29.00	3.00	3	100	2.95	98	0R	5H	2W	
29.00	32.00	3.00	2.83	94	2.50	83	0R	5H	2W	
32.00	35.00	3.00	2.99	100	2.03	68	0R	5H	2W	
35.00	38.00	3.00	2.9	97	2.30	77	0R	5H	2W	
38.00	41.00	3.00	2.75	92	1.61	54	0R	5H	3W	
41.00	44.00	3.00	2.92	97	2.24	75	0R	5H	2W	
44.00	47.00	3.00	2.97	99	2.22	74	0R	5H	2W	
47.00	50.00	3.00	3	100	2.70	90	0R	5H	2W	
50.00	53.00	3.00	2.88	96	2.25	75	1R	5H	2W	
53.00	56.00	3.00	2.84	95	1.65	55	0R	5H	3W	
56.00	59.00	3.00	2.87	96	2.07	69	1R	5H	2W	
59.00	62.00	3.00	2.97	99	2.93	98	0R	5H	2W	
62.00	65.00	3.00	2.98	99	2.88	96	0R	5H	2W	
65.00	68.00	3.00	2.92	97	2.73	91	0R	5H	2W	EOH

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
1	0	CAS	OVB
2	0	CAS	OVB
3	0	CAS	OVB
4	0	CAS	OVB
5	0	CAS	OVB
6	0	CAS	OVB
7	0.141	GRD	
8	0.056	GRD	
9	0.065	GRD	
10	0.077	GRD	
11	0.105	GRD	
12	0.087	GRD	
13	0.065	GRD	
14	0.022	GRD	
15	0.039	GRD	
16	0.058	GRD	
17	0.028	GRD	
18	0.037	GRD	
19	0.052	GRD	
20	0.093	GRD	
21	0.044	GRD	
22	0.074	GRD	
23	0.111	GRD	
24	0.078	GRD	
25	0	GRD	No MagSus taken due to low recovery
26	0.027	GRD	
26	0.027	GRD	
27	0.036	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
28	0.037	GRD	
29	0.079	GRD	
30	0.085	GRD	
31	0.085	GRD	
32	0.098	GRD	
33	0.106	GRD	
34	0.074	GRD	
35	0.079	GRD	
36	0.183	GRD	
37	0.095	GRD	
38	0.094	GRD	
39	0.091	GRD	
40	0.08	GRD	
41	0.072	GRD	
42	0.105	GRD	
43	0.086	GRD	
44	0.098	GRD	
45	0.107	GRD	
46	0.082	GRD	
47	0.077	GRD	
48	0.068	GRD	
49	0.044	GRD	
50	0.114	GRD	
51	0.063	GRD	
52	0.041	GRD	
53	0.06	GRD	
54	0.107	GRD	
55	0.095	GRD	
56	0.118	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
57	0.058	GRD	
58	0.05	GRD	
59	0.107	GRD	
60	0.051	GRD	
61	0.136	GRD	
62	0.094	GRD	
63	0.096	GRD	
64	0.05	GRD	
65	0.017	GRD	
66	0.024	GRD	
67	0.017	GRD	
68	0.026	GRD	EOH

Depth (m)	Magnetic Susceptibility	Unit	Comments

HAM-13-023

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
57.92	59.56	1.64	GRD	1.40	85	K285852	13-H01	Core		☐	☐	☐

Sample Results

Batch	Sample	From (m)	To (m)	Ag g/t	Pb ppm	Zn ppm	Cu ppm	In ppm	Sn ppm	Au g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
13-H01	K285852	57.92	59.56	9.59	491	381	6	0.0	17	0.00	☐	☐	☐	☐	

Box Log

OSW-13-003

Silver Range
Southwest Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	3.86	8.1
2	8.1	13.36
3	13.36	19.04
4	19.04	24.49
5	24.49	29.75
6	29.75	35.28
7	35.28	40.79
8	40.79	45.6
9	45.6	50.32
10	50.32	55.08
11	55.08	59.4
12	59.4	64.86
13	64.86	69.64
14	69.64	74.74
15	74.74	79.65
16	79.65	84.23
17	84.23	89.66
18	89.66	94.75
19	94.75	99.7
20	99.7	107
21	107	119

Box Number	From (m)	To (m)

Box Number	From (m)	To (m)

Keg - Silver Range

Archer, Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		581605	6946191	1353.22	119

ZONE: Owl Southwest

SECTION:

HOLE: OSW-13-003

CLAIM:

Contractor: Top Rank

Drill: 1

Core Size: NQ2

Casing Depth: 3.86m, Out

Drilling Dates: Jun 15 - Jun 17, 2013

Geology Logged By: C. Chung

SURVEY			
Depth (m)	Azimuth	Dip	Method
0	312	-50	Compass
0	312	-50	Compass

TARGET: 130

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	3.86	3.86	CAS
3.86	47.73	43.87	SLT
47.73	63.76	16.03	SSS
63.76	90.34	26.58	SLT
90.34	100.43	10.09	SLT
100.43	119	18.57	SLT

SAMPLES	
Numbers:	K285751 to K285754
Total:	6
Batch:	O01
Certificates:	WH13129420, WH13137971

COMMENTS

Hole terminated due to broken off core barrel. Redrilled as OSW-13-004.
No downhole survey.

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
OSW-13-003									
	20.16	14.8	NQ2	SLT	809.8	491.8	2.7	2.6	
	28.79	15	NQ2	SLT	814.4	501.5	2.7	2.6	
	50.92	15.3	NQ2	SSS	807	493.6	2.6	2.6	
	73.21	14.6	NQ2	SLT	783.1	475	2.7	2.5	
	84.51	14.8	NQ2	SLT	792.6	482.2	2.7	2.6	
	87.31	14.8	NQ2	SLT	783.8	487.4	2.6	2.6	
	97.34	15.1	NQ2	SLT	814.3	520.9	2.7	2.8	
	101.98	14.8	NQ2	SLT	758.8	479.1	2.5	2.7	

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	3.86	3.86	CAS	--	Casing/Overburden; no core recovery							
						--	--	---	---	--	--	0
3.86	5.86	2.00	SLT	VF	Similar to general description; much more blocky core rock with limonite and iron oxide staining. Rare sulphide stringers							
						MD	GY	BK	OXI	2I	Li	0.5
						LT	BF					
5.86	18.35	12.49	SLT	VF	Similar to general description. Narrow silica +/- pyrite veinlets noted throughout the interval (<0.1cm wide)							
						MD	GY	BD	SIL	2I	Py	0.2
18.35	19.21	0.86	SSS	VF	Weakly bleached, moderate-strongly silicified interval. Very weak brecciate textures noted, open space appears to be infilled with dark grey-black crushed pyrite(?). Sub-euhedral pyrite grains (<0.5cm) also noted. Gradational contact zone over ~7m at ~25° to core axis.							
						LT	GY	---	SIL	3I	Py	0.7
19.21	27.69	8.48	SLT	VF	Similar to general description. Narrow pyrite veinlets present (<0.1cm wide) at varying angles to core axis (~25-60°)							
						DK	GY	---	SIL	1I	Py	0.1
											Li	0.2
27.69	30.07	2.38	SLT	VF	Similar to general description with increased size of quartz-carbonate veinlets (up to 2.0cm). Preferred orientation at ~50° to core axis. Irregular and disrupted pyrite veinlets also noted throughout. One sheared/tension crack vein noted at ~30-30.7m.							
						LT	GY				Po	0.1
						DK	GY	BD	SIL	3I	Py	0.5
30.07	35.78	5.71	SLT	VF	Similar to general description. Core rock is blocky and fractured. Limonite seen on some fracture surfaces. Possible cholorite noted in veinlets.							
						DK	GY	BK	SIL	1I	Li	0.2
									CHL	1I	Py	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
35.78	36.85	1.07	CSL	FG	Light grey, moderately calcareous siltstone. Weak-moderate banding/bedding at ~40' to core axis. Narrow, irregular blebby pyrite veinlets common. "Contacts" at ~40° to core axis.							
						LT	GY	BD	CAR	2I	Py	0.2
36.85	46.08	9.23	SLT	VF	Similar to general decripition. Narrow carbonate veinlets (<0.2cm) commonly at ~50° to core axis. Rare-trace fine grained pyrite, mostly noted in veinlets.							
						MD	GY	BN	SIL	1I	Py	0.1
46.08	46.51	0.43	SLT	FG	Mottled pale-medium green-grey, weakly silicified interval. Possible sericite. Subhedral pyrite grains noted in the matrix							
						LT	GY	MO	SIL	2I	Py	0.2
						LT	GN		CHL	1I		
46.51	47.73	1.22	SLT	VF	Similar to general description, but blocky/shattered core							
						MD	GY	BD	SIL	1I	Py	0.1
47.73	50.92	3.19	SSS	VF	Similar to general description, with dominantly lower angled fractures, which are all coated with limonite and iron oxides. Trace pyrite throughout interval. @~49.75-49.85m; Semi-massive/massive sulphide vein at ~40° to core axis.							
						LT	GY	FR	OXI	2I	Li	0.5
						--	WH				Py	0.1
50.92	51.45	0.53	SSS	FG	Interval with slightly decreased silicification and increased sulphid content. Pyrite and galena infilling fracture space. @~51m; Galena veinlet (<0.2 cm) at ~45° to core axis.							
						MD	GY	BD	SIL	3I	Py	0.5
											Gn	0.3
51.45	55.08	3.63	SSS	FG	Similar to general description with increased oxidation on fracture surface. Rare-trace amounts of granular clay noted.							
						LT	GY	---	OXI	2I	Li	0.3
						--	WH					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
55.08	55.81	0.73	FLR	--	Possible fault zone. Rubble section with granular gouge/clay matrix infill. Orientation at ~45° to core axis. No significant sulphides.							
						MD	TN	BN	---	--	--	0
						MD	GY					
55.81	57.30	1.49	SSS	FG	Similar to general description, possible fault zone. Granular clay/gouge on fracture. Blocky and shattered core rock. Trace sulphides.							
						LT	GY	BK	OXI	1I	Py	0.1
57.30	57.97	0.67	SSS	FG	Similar to general description with decreased silicification, slight green colouring, possible chlorite?							
						LT	GY	MO	SIL	2I	--	0
						LT	GN		CHL	1I		
57.97	63.76	5.79	SSS	FG	Similar to general description. Trace amounts of disseminated sulphides (appears to be mostly pyrite) in the matrix. Becomes rubbly moving downhole.							
						LT	GY	---	SIL	3I	Py	0.1
						--	WH				Li	0.3
63.76	67.83	4.07	SLT	FG	Blocky core rock, likely contact zone. Decreased silicification. All fracture surfaces coated with brown-yellow limnoitic granular gouge. No significant sulphides.							
						MD	GY	BK	OXI	2I	Li	0.5
									SIL	3I	Py	0.1
67.83	71.28	3.45	SLT	VF	Similar to 63.76-67.83 with decreased blockiness and limonite staining. Increasing sulphides in veinlets and fractures.							
						MD	GY	BK	OXI	1I	Py	0.5
									SIL	2I	Po	0.1
71.28	86.96	15.68	SLT	VF	Similar to general description with increasing silicification of the matrix moving downhole. Core rock also becomes more competent. Sulphide content increases with increased veining density (pyrite and pyrrhotite +/- sphalerite). Calcite veinlets (<0.1cm) also increases.							
						DK	GY	FR	SIL	3I	Py	0.7

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
											Sp	0.1
											Po	0.2
86.96	90.34	3.38	SSS	FG	Likely contact zone. Slightly bleached to a medium grey, moderate-strongly silicified. Weak foliation noted at ~35° to core axis. Sulphide stringers present with possible chlorite envelopes(?). Contact/bedding at ~35° to core axis.							
						MD	GY	FO	SIL	4I	Py	0.5
									CHL	1I	Po	0.2
90.34	93.00	2.66	SLT	FG	Similar to general description. Blocky, broken, shattered core rock. Increased pervasive chlorite noted, likely "contact" zone.							
						LT	GY					
						DK	GY	BK	CHL	2I	Py	0.3
93.00	95.89	2.89	SLT	FG	Similar to general description. Bedding orientation at ~40° to core axis.							
						LT	GY	BD				
						DK	GY	BN	CHL	2I	Py	0.2
95.89	96.38	0.49	SLT	FG	Light grey band of chloritic altered siltstone with disrupted matrix, likely due to carbonate veinlets, bearing minor sulphides.							
						LT	GY	---	CHL	3I	Py	0.2
96.38	100.43	4.05	SLT	FG	Similar to general description. Pyrite and pyrrhotite noted in veinlets, oriented at ~60° to core axis.							
						LT	GY	BD	CHL	1I		
						DK	GY	BN	SIL	2I	Py	0.2
100.43	106.00	5.57	SLT	FG	Fractured but competent core rock. Open spaces infilled with narrow white carbonate veinlets. Sericite altered matrix and irregular bands, generally at ~65° to core axis, <1.0cm wide. Slight increase in pyrite.							
						MD	GY				Po	0.1
						LT	GY	FR	SER	2I	Py	0.3
106.00	119.00	13.00	CHT	--	Medium brown-maroon silicified siltstone/chert. Fracture and shattered core rock. Decreased sulphides (becomes more localized) with pyrite and pyrrhotite present in veinlets.							
						MD	BN	FR	SIL	3I	Py	0.1
								BK	HEM	2I	Po	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	3.86	3.86	CAS	--	Casing/Overburden; no core recovery							
						--	--	---	---	--	--	0
3.86	47.73	43.87	SLT	VF	Siltstone; Medium-dark grey, fine-bery fine grained siltstone, weakly silicified matrix. Low-moderate veining density, dominatnly narrow pyrite-only veinlets (<0.5cm), irregular in shape with preferred orientation at ~35-45° to core axis. Narrow irregular calcite veinlets (<0.3CM) also seen. Quartz (+/- carbonate) veinlets (up to ~1.5cm) occur in minro amounts, preferred orientation at ~45° to core axis, bearing sulphides (pyrite +/- pyrrhotite) cores. Competant core rock with minor fraacutring, generally at ~50° to core axis. Occasional zones (10%) with blocky, strongly fractured core. Fracture surfaces moderate-strongly oxidized and coated with limonite.							
											Li	0.5
									SIL	2I	Po	0.1
						MD	GY	BD	OXI	1I	Py	0.2
47.73	63.76	16.03	SSS	VF	Silicified Siltstone/Quartzite. White-light grey, moderately-strongly silicified siltstone/possible quartzite. Trace amounts of veining, dominantly narrow quartz/silica veinlets (<0.3cm wide), no preferred orientation noted. Rare-trace sulphides noted. Pyrite occurs as small (<0.2cm) disseminations within the matrix and seen as smeared blebs on fracture surfaces. Blocky, shattered core rock. Fracture surfaces vary from being clean to moderately coated with limonite and iron oxides. General orientation of fractures at ~20-35° and ~60-70° to core axis.							
						--	WH		OXI	1I	Li	0.1
						LT	GY	---	SIL	5I	Py	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
63.76	90.34	26.58	SLT	VF	Carbonaceous Siltstone. Dark grey fine grained siltstone/argillite(?). Moderately silicified matrix, increasing downhole. Pervasive graphitic matrix. Sulphides are commonly present as narro, irregular and discontinuous veinlets (<0.5cm). Dominantly pyrite with trace pyrrhotite and localized sphalerite. Limnoite noted on some fracture surfaces but disappears after ~74.5m. Narrow calcite veinlets also present. Fairly competent core rock with fractured texture. Some intervals (35%) of strongly fractured/blocky core rock. Preferred orientation of fractures along bedding at ~60° to core axis.							
											Sp	0.2
											Po	0.2
									OXI	1I	Py	1
						DK	GY	FR	SIL	2I	Gr	25
90.34	100.43	10.09	SLT	FG	Banded/Bedded Siltstone. Banded/bedded, dark and light grey, fine to very fine grained siltstone. Matrix is weakly silicified with trace locallized green colouring (possible chlorite?). Patchy calcareous zone. Low-moderate veining density, dominantly pyrite bearing carbonate veinlets (<0.7cm) generally following bedding orientation at ~30-40° to core axis. Small irregular carbonate stringers also present in locallized zones. Pyrite and pyrrhotite occurs in veinlets and blebs in these veinlets. Competent core rock with localized zones of blocky/fractured core rock. Breaks generally along bedding at ~40° to core axis.							
						LT	GY	BD	CHL	1I	Po	0.2
						DK	GY	BN	SIL	2I	Py	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
100.43	119.00	18.57	SLT	FG	Intercalated Siltstone and Maroon Chert(?). Intercalated/mixed interval of grey siltstone and brown-maroon chert (or silicified siltstone). Weak-moderately calcareous matrix. Low-moderate veining density, generally irregular narrow white carbonate stringers. Sulphides occur in narrow veinlets in trace amounts with rare pyrrhotite. Core rock is fractured and shattered, increasing moving downhole.							
									SER	1I		
						MD	BN	FR	CHL	2I	Po	0.1
						MD	GY	BN	SIL	2I	Py	0.2

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From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	3.86	3.86	0	0	0.00	0	0R	--	--	OVB
3.86	5.00	1.14	1	88	0.00	0	0R	4H	3W	
5.00	8.00	3.00	2.85	95	1.25	42	0R	4H	3W	
8.00	11.00	3.00	3	100	2.07	69	0R	4H	3W	
11.00	14.00	3.00	2.92	97	1.97	66	0R	4H	3W	
14.00	17.00	3.00	2.98	99	2.53	84	0R	4H	3W	
17.00	20.00	3.00	2.81	94	2.48	83	0R	4H	2W	
20.00	23.00	3.00	3	100	2.60	87	0R	4H	3W	
23.00	26.00	3.00	2.88	96	1.98	66	0R	4H	3W	
26.00	29.00	3.00	2.93	98	2.20	73	0R	4H	3W	
29.00	32.00	3.00	2.71	90	1.84	61	0R	4H	2W	
32.00	35.00	3.00	2.08	69	0.50	17	1R	4H	2W	
35.00	38.00	3.00	2.6	87	1.34	45	1R	4H	2W	
38.00	41.00	3.00	2.85	95	1.49	50	0R	4H	2W	
41.00	44.00	3.00	2.89	96	1.59	53	0R	4H	2W	
44.00	47.00	3.00	3	100	1.46	49	1R	4H	2W	
47.00	50.00	3.00	2.16	72	0.58	19	0R	5H	3W	
50.00	53.00	3.00	2.4	80	0.35	12	0R	5H	3W	
53.00	56.00	3.00	2.52	84	0.24	8	0R	5H	3W	
56.00	59.00	3.00	2.61	87	0.33	11	0R	5H	3W	
59.00	62.00	3.00	2.48	83	0.27	9	0R	5H	3W	
62.00	65.00	3.00	2.02	67	0.57	19	0R	5H	3W	
65.00	68.00	3.00	2.68	89	0.12	4	0R	5H	3W	
68.00	71.00	3.00	2.36	79	0.13	4	0R	5H	3W	
71.00	74.00	3.00	2.49	83	1.96	65	0R	5H	3W	
74.00	77.00	3.00	2.65	88	1.29	43	0R	5H	2W	
77.00	80.00	3.00	2.36	79	1.06	35	0R	5H	2W	
80.00	83.00	3.00	2.92	97	1.44	48	0R	5H	2W	
83.00	86.00	3.00	2.84	95	2.28	76	0R	5H	2W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
86.00	89.00	3.00	3	100	2.27	76	1R	5H	2W	
89.00	92.00	3.00	2.51	84	0.84	28	1R	5H	2W	
92.00	95.00	3.00	2.5	83	1.56	52	3R	5H	2W	
95.00	98.00	3.00	2.89	96	1.60	53	1R	5H	2W	
98.00	101.00	3.00	2.71	90	1.95	65	0R	5H	3W	
101.00	104.00	3.00	2.76	92	1.60	53	1R	5H	3W	
104.00	107.00	3.00	0.91	30	0.13	4	0R	5H	4W	
107.00	110.00	3.00	1.3	43	0.51	17	1R	5H	2W	
110.00	113.00	3.00	0.38	13	0.00	0	0R	5H	2W	
113.00	116.00	3.00	0.4	13	0.00	0	0R	5H	2W	
116.00	119.00	3.00	0.35	12	0.12	4	0R	5H	2W	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
1	0	CAS	OVB
2	0	CAS	OVB
3	0	CAS	OVB
4	0.279	SLT	
5	0.688	SLT	
6	0.55	SLT	
7	0.934	SLT	
8	0.46	SLT	
9	2.696	SLT	
10	4.985	SLT	
11	0.992	SLT	
12	2.203	SLT	
13	0.836	SLT	
14	1.708	SLT	
15	0.952	SLT	
16	1.652	SLT	
17	0.252	SLT	
18	1.906	SLT	
19	4.09	SLT	
20	1.828	SLT	
21	0.812	SLT	
22	1.073	SLT	
23	0.969	SLT	
24	1.219	SLT	
25	1.659	SLT	
26	0.856	SLT	
27	1.445	SLT	
28	1.106	SLT	
29	1.142	SLT	

Depth (m)	Magnetic Susceptibility	Unit	Comments
30	1.246	SLT	
31	2.043	SLT	
32	0.848	SLT	
33	2.583	SLT	
34	1.562	SLT	
35	0.508	SLT	
36	9.197	SLT	
37	1.077	SLT	
38	0.431	SLT	
39	0.231	SLT	
40	0.51	SLT	
41	1.305	SLT	
42	1.923	SLT	
43	0.46	SLT	
44	1.503	SLT	
45	1.183	SLT	
46	1.844	SLT	
47	1.903	SLT	
48	0.005	SSS	
49	0.003	SSS	
50	0.004	SSS	
51	0.011	SSS	
52	0.009	SSS	
53	0.009	SSS	
54	0.007	SSS	
55	0.011	SSS	
56	0.005	SSS	
57	0.003	SSS	
58	0.011	SSS	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
59	0.005	SSS	
60	0.004	SSS	
61	0.179	SSS	
62	0.023	SSS	
63	0.008	SSS	
64	0.02	SLT	
65	0.01	SLT	
66	0.005	SLT	
67	0.003	SLT	
68	0.025	SLT	
69	0.002	SLT	
70	0.041	SLT	
71	0.013	SLT	
72	0.397	SLT	
73	0.382	SLT	
74	0.687	SLT	
75	0.126	SLT	
76	0.289	SLT	
77	0.026	SLT	
78	0.019	SLT	
79	0.308	SLT	
80	0.152	SLT	
81	0.669	SLT	
82	0.247	SLT	
83	0.403	SLT	
84	1.682	SLT	
85	1.197	SLT	
86	1.579	SLT	
87	3.478	SLT	
88	3.122	SLT	
89	0.489	SLT	
90	0.178	SLT	
91	5.178	SLT	
92	1.643	SLT	
93	3.276	SLT	
94	0.993	SLT	
95	1.582	SLT	
96	0.343	SLT	
97	0.364	SLT	
98	1.266	SLT	
99	2.571	SLT	
100	1.302	SLT	
101	1.304	SLT	
102	2.712	SLT	
103	1.954	SLT	
104	3.818	SLT	
105	1.101	SLT	
106	0	SLT	No MagSus taken due to low recovery
107	1.993	SLT	
108	0.64	SLT	
109	0	SLT	No MagSus taken due to low recovery
110	1.175	SLT	
111	0.21	SLT	
112	0	SLT	No MagSus taken due to low recovery
113	9.996	SLT	
114	13.23	SLT	
115	0	SLT	No MagSus taken due to low recovery
116	5.724	SLT	
117	0	SLT	No MagSus taken due to low recovery

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
118	0	SLT	No MagSus taken due to low recovery
119	31.07	SLT	EOH

Depth (m)	Magnetic Susceptibility	Unit	Comments

OSW-13-003

Silver Range
Southwest Zone

Archer,Cathro & Associates (1981) Limited

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	K285754	13-O01	Core		☑	☐	☐
49.45	50.00	0.55	SSS	0.55	100	K285751	13-O01	Core		☐	☐	☐
50.00	50.92	0.92	SSS	0.92	100	K285752	13-O01	Core		☐	☐	☐
50.92	51.45	0.53	SSS	0.46	87	K285753	13-O01	Core		☐	☐	☐

Sample Results

Batch	Sample	From (m)	To (m)	Ag g/t	Pb ppm	Zn ppm	Cu ppm	In ppm	Sn ppm	Au g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
13-O01	K285754	0.00	0.00	0.14	7	26	5	0.0	3	0.00	☐	☐	☑	☐	
13-O01	K285751	49.45	50.00	17.35	1605	82	29	0.0	6	0.01	☐	☐	☐	☐	Semi-massive/massive sulphide vein at ~40° to core axis.
13-O01	K285752	50.00	50.92	2.62	68	1860	46	0.6	3	0.00	☐	☐	☐	☐	
13-O01	K285753	50.92	51.45	78.60	2860	3110	166	0.9	11	0.01	☐	☐	☐	☐	Galena veinlet (<0.2 cm) at ~45° to core axis.

Box Log

OSW-13-004

Silver Range
Southwest Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	4.13	9.01
2	9.01	14.36
3	14.36	19.53
4	19.53	25.05
5	25.05	30.18
6	30.18	35.23
7	35.23	40.63
8	40.63	45.33
9	45.33	50.53
10	50.53	59.47
11	59.47	67.78
12	67.78	72.69
13	72.69	83.08
14	83.08	88.25
15	88.25	93.56
16	93.56	98.47
17	98.47	104
18	104	108.99
19	108.99	114.02
20	114.02	119.3
21	119.3	124.6
22	124.6	129.82
23	129.82	135.1
24	135.1	140.63
25	140.63	146.78
26	146.78	152

Box Number	From (m)	To (m)

Box Number	From (m)	To (m)

Keg - Silver Range

Archer, Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		581605	6946191	1353.22	152

ZONE: Owl Southwest

SECTION:

HOLE: OSW-13-004

CLAIM:

Contractor: Top Rank

Drill: 1

Core Size: NQ2

Casing Depth: 4.13m, Out

Drilling Dates: Jun 17 - Jun 19, 2013

Geology Logged By: C. Chung

SURVEY			
Depth (m)	Azimuth	Dip	Method
0	312	-45	Compass
149	315.1	-42.4	Ranger

TARGET: 130

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	4.13	4.13	CAS
4.13	50	45.87	SLT
50	72.53	22.53	SSS
72.53	74.22	1.69	SLT
74.22	104.9	30.68	SLT
104.9	128.33	23.43	SSS
128.33	131.6	3.27	SLT
131.6	141.29	9.69	SSS
141.29	152	10.71	SSS

SAMPLES	
Numbers:	K285757 to K285783
Total:	38
Batch:	O01
Certificates:	WH13129420, WH13137971

COMMENTS
Redrill of OSW-13-003

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
OSW-13-004									
	26.06	15	NQ2	SLT	798.8	498	2.6	2.7	
	46.8	14.9	NQ2	SLT	805.1	508.6	2.7	2.7	
	72.81	14.7	NQ2	SLT	727.3	448.4	2.5	2.6	
	81.55	14.8	NQ2	SLT	783.9	482.6	2.6	2.6	
	91.43	13.8	NQ2	SLT	731.6	449.8	2.6	2.6	
	108.2	15	NQ2	SSS	823.5	520.2	2.7	2.7	
	132.1	14.8	NQ2	SSS	777.7	482.5	2.6	2.6	

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	4.13	4.13	CAS	--	Casing/Overburden; no core recovery							
						--	--	---	---	--	--	0
4.13	17.00	12.87	SLT	VF	Similar to general description; weakly siliceous siltstone with narrow pyritic and calcareous veinlets. Moderately oxidized fracture surfaces ands some vuggy veinlets. Possible arsenopyrite(?),							
						MD	GY	BD	OXI	3I	Li	1
									SIL	1I	Py	0.3
											As	0.1
17.00	19.53	2.53	SLT	VF	Slightly increased weathering with blocky/shattered core rock. One semi-massive sulphide veinlet (<1.0cm) noted at ~30° to core axis.							
						MD	GY	BK	OXI	3I	Li	1
						DK	OR				Py	0.2
19.53	30.34	10.81	SLT	VF	Similar to general description. Weakly siliceous siltstone with pyrite and calcite veinlets. Weak-moderately oxidized fracture surfaces.							
						MD	GY	BN	OXI	1I	Py	0.2
									SIL	1I	Li	0.2
30.34	31.37	1.03	SSS	FG	Interval of increased silicification. Increased grain size with slight green colouring of matrix (sericite?). Increased calcareous veinlets, cross-cutting throughout the matrix. Pyrite and pyrrhotite present as small disseminations and in veinlets.							
						LT	GY	---	SIL	2I	Py	0.3
									SER	2I	Po	0.1
31.37	37.13	5.76	SLT	VF	Similar to general description but more broken/shattered core rock. Yellow-orange granular gouge coating fracture surfaces - possible fault zone? @31.69m - 1cm veinlet with semi massive pyrite at ~35° to core axis. @33.52-34.10m - brecciated section with calcareous infill							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY	FR	OXI	3I	Li	0.5
						MD	OR	BX	SIL	1I	Py	0.5
											Po	0.2
37.13	38.76	1.63	SSS	FG	Increased silicification with slight brecciated or strained textures. Weakly bleached, possible vein(?) at ~30° to core axis. Moderate oxidation noted on fracture surfaces. Trace disseminated pyrite noted.							
						LT	GY	---	OXI	2I	Li	0.5
						DK	GY		SIL	2I	Py	0.2
38.76	46.66	7.90	SLT	VF	Similar to general description, decreasing oxidation moving downhole. Slight increase in pyrite/carbonate veinlets, generally at ~40° to core axis. Pyrite filled tension gashes noted. @42.31-42.42m - mixed band/diffused vein at ~45° to core axis. Wispy/semi massive pyrite with trace sphalerite (?) [pink-red metallic sulphide]							
						MD	GY	BD	OXI	1I	Py	0.2
									SIL	1I	Po	0.1
											Sp	0.1
46.66	50.00	3.34	SLT	FG	Contact zone to lower contact. Weakly siliceous siltstone with localized calcareous zone (increased carbonate veining?). Several diffused carbonate veins noted (<1.5cm) bearing polymetallic sulphides at ~25° to core axis (pyrite, pyrrhotite and sphalerite, possible rare arsenopyrite). Euhedral pyrite grains also noted.							
						MD	GY		CAR	1I	Po	0.1
						LT	GY	BD	SIL	2I	Py	0.5
											Sp	0.2
											As	0.01
50.00	63.84	13.84	SSS	FG	Blocky, shattered core rock, fracture surfaces coated with yellow-orange-brown limonite. Rare-trace disseminated pyrite noted.							
						LT	GY	BK	OXI	1I	Li	0.4
						--	CR				Py	0.1
63.84	66.48	2.64	SSS	FG	Similar to general description. Interval of intact core. Trace disseminated pyrite.							
						LT	GY	BD	OXI	1I	Py	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
66.48	69.37	2.89	SSS	FG	Broken, shattered core rock. The first metre appears to be more intensely silicified with fine disseminated pyrite in the matrix. Following is silicified siltstone with rare-trace amounts of disseminated pyrite.							
						MD	GY	BK	SER	1I		
						LT	GY	FR	SIL	2I	Py	0.1
69.37	71.90	2.53	SSS	VF	Interval of increased silicification, possible quartzite(?). Crosscut by abundant narrow dark grey veinlets, dominantly at ~60° to core axis. Trace sulphides. @71.49m - 3 cm band of brecciated vein at ~40° to core axis.							
						LT	GY	MA	SIL	3I	Py	0.1
								FR				
71.90	72.53	0.63	SSS	VF	Contact zone: similar to general description with slight increased silicification of matrix and veining/fracturing at ~40° to core axis. One rusty, vuggy veinlet seen at 72.38m.							
						LT	GY	MA	SIL	3I	Py	0.1
								BN				
72.53	74.22	1.69	SLT	VF	Contact zone/Siltstone - Medium grey, fine-very fine grained siliceous siltstone similar to 4.13-50.0m. Rusty red sulphide noted on veining higher in the interval (hematite?). Blocky broken core rock with 7-10% granular gouge.							
						MD	GY	BD	SIL	2I	He	0.2
								BK				
74.22	76.93	2.71	SLT	VF	Similar to general description with a slight brecciate/fracture texture and more intense silicification. Fracture surfaces coated with minor amounts of limonite and iron oxide. Trace pyrite, generally occurring in veinlets.							
						DK	GY	FR	SIL	2I	Py	0.1
									OXI	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
76.93	80.07	3.14	SLT	VF	Interval of moderate-strongly silicified siltstone with crackle breccia/mixed matrix. Increased carbonate veinlets, often disrupted and irregular (<1.5 cm wide). Preferred orientation at ~50° to core axis. Weakly oxidized fracture surface, decreasing downhole. Trace sulphide, mostly pyrite in veinlets.							
						MD	GY	BX	SIL	3I	Py	0.2
						DK	GY		OXI	1I		
80.07	90.50	10.43	SLT	VF	Moderately silicified dark grey siltstone with weak bedding/banding at ~45-50° to core axis. Decreased amounts of carbonate veinlets, through localized wispy stringers noted. Fairly competent core rock with minor zones of fracturing or rubbly core. Fracture surfaces show minor limonite coating. Fracturing dominantly at ~35° to core axis. Increasing graphitic content moving downhole. Trace pyrite noted in narrow veinlets.							
						DK	GY	BN	SIL	2I	Py	0.1
						--	BK				Gr	20
90.50	94.81	4.31	SLT	VF	Similar to unite above at 80.07-90.50 m with decreasing silicification and increasing graphit content. Matrix has a mixed textures. Increas in irregular and wispy carobnate veinlets (<0.1 cm), generally at ~40° to core axis. Increased sulphide content, mostly within veinlets (pyrite and pyrrhotite) @91.88-91.93m - semi massive band of pyrrhotite at ~50° to core axis. @92.07-92.09m - 2 cm wide varbonate vein with blebby sulphides.							
						DK	GY	---	SIL	2I	Py	0.2
						--	BK				Po	0.5
94.81	99.97	5.16	SLT	VF	Dark grey-black graphitic siltstone. Core rock is blocky and crumbly. Fracture surfaces are often smooth with slcknslide features. Rubble zones make up ~20% of interval. Patchy gouge zone appear weakly pyritic. White carbonate veinlets are irregular and often offset and disrupted. Weak shear(?) fabric at ~45° to core axis.							
						DK	GY	EA	SIL	1I	Py	1
											Po	0.2

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
99.97	100.29	0.32	SLT	VF	interval of increased silicification. Narrow carbonate veinlets have dark green chlorite envelopes at ~55° to core axis.							
						MD	GY	---	SIL	2I	Py	0.2
									CHL	1I	Po	0.2
100.29	102.05	1.76	SLT	VF	Dark grey-black silicified siltstone. Decreased veining density. Blebby discontinuous carbonate veinlets (<1 cm) carrying trace-minor amounts of pyrite and pyrrhotite. Weakly chlorite altered along fractures and veinlets.							
						DK	GY	---	SIL	2I	Py	0.2
						--	BK		CHL	1I	Pb	0.1
102.05	102.58	0.53	SLT	VF	Variably silicified banded siltstone with fabric generally at ~70° to core axis. Weakly convoluted bedding. Pyrite present along irregular calcareous veinlets							
						MD	GY	BN	SIL	3I	Py	0.3
						DK	GY					
102.58	103.58	1.00	SLT	VF	Similar to 100.29-102.05m. Dark grey-black siliceous siltstone with wispy, discontinuous carbonate veinlets carrying sulphides (pyrite). Chlorite seen on fracture surfaces.							
						DK	GY	---	SIL	2I	Py	0.2
						--	BK		CHL	1I		
103.58	104.90	1.32	SLT	FG	Contact zone. Strongly fractured matrix with ~50% of interval rubble and gouge. Moderately silicified. Increased veining, generally at higher angles (>60°) to core axis. Lower half of this interval is rubble, shattered core with granular gouge. Trace-minor pyrite, mostly in carbonate veinlets.							
						MD	GY	FR	SIL	3I	Py	0.2
									CHL	1I		
104.90	115.67	10.77	SSS	VF	Similar to general description. Fairly competent siliceous siltstone with small/narrow zones with calcareous matrix. These bands are often oriented at ~60° to core axis. Trace sulphides noted, increasing downhill (veinlet pyrite while pyrrhotite is occurring as blebs).							
						MD	GY	BD	SIL	2I	Py	0.2
						MD	TN		SER	1I	Po	0.2

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
115.67	124.60	8.93	SSS	VF	Increased veining density. Veining structures often have large bleached envelopes, giving the matrix a mottled/mixed appearance. Veining generally at ~30-40° to core axis and carrying sulphides (pyrite/pyrrhotite). Blocky core rock with minor zones of shattered rock. Increasing chlorite moving downhole. Sulphides occur mostly in veinlets but also as disseminated grains in the matrix. @124.41m - one <0.5cm veinlet noted with rar-trace sphalerite specks at ~60° to core axis.							
						MD	GN	MO	SIL	3I	Py	0.2
						--	CR		BLE	2I	Po	0.2
									SER	2I	Sp	0.1
124.60	128.33	3.73	SSS	VF	Similar to 104.9-115.67 m with decreased silicification. Banded dark brown and grey-green matrix, oriented at ~65° to core axis. Chlorite and sericite noted on fracture surfaces. Trace pyrite in narrow calcific veinlets (<0.1 cm).							
						MD	TN	BN	SIL	1I	Py	0.1
						MD	GN		CHL	2I		
128.33	131.60	3.27	SLT	VF	Graphitic Siltstone. Variably silicified graphitic siltstone, similar to 80.07-90.50 m. Decreasing silicification moving downhole. Irregular, shattered/disrupted carbonate veining structures present and often contain sulphides, dominantly pyrite. Narrow veinlets (<0.5 cm) also noted at ~50° to core axis. Blocky shattered core rock, fracturing generally at ~50° to core axis.							
						DK	GY	BN	SIL	2I	Py	0.5
						--	BK					
131.60	134.25	2.65	SLT	FG	Sheared/mixed siliceous siltstone, slight decrease in silicification. High carbonate content, generally oriented at ~30° to core axis. Sulphides present along carbonate veiling structures with minor amounts of chlorite.							
						MD	GY	SH	SIL	1I	Py	0.5
									SER	1I	Po	0.2
									CHL	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
134.25	137.37	3.12	SSS	VF	Hematite(?) altered silicified siltstone, weak fabric at ~45° to core axis becoming bleached and more calcareous moving downhole. Dark green chlorite rich bands noted (veinlets? at ~60° to core axis, <0.5 cm wide). Decreased sulphides, dominantly pyrite in narrow veinlets. Rare pyrrhotite.							
						MD	TN	BN	SIL	3I	Py	0.1
						MD	GY		CHL	1I	Po	0.1
137.37	141.29	3.92	SLT	FG	Similar to 131.60-134.25 m. Decreased silicification of the matrix. Core rock is blocky and has weak faulted appearance. Banding noted locally at ~30° to core axis. Locally calcareous matrix, possibly due to irregular carbonate veining structures. Blocky, shattered core rock. Pyrite present as blebs throughout the interval.							
						MD	GY	FR	SIL	2I	Py	0.3
						LT	TN	GN	SER	3I		
141.29	144.56	3.27	SLT	VF	interval of shattered/broken core rock, appears to have increased sericite alteration of the matrix. Trace disseminated sulphides.							
						MD	BN	BK	SIL	2I	Py	0.1
						MD	GY		SER	2I		
									CHL	1I		
144.56	145.06	0.50	SSS	VF	interval with calcareous matrix, increased carbonate veining structures at ~40° to core axis. Pyrite and pyrrhotite present in blebs within veining.							
						MD	BN	BN	SIL	3I	Py	0.2
						LT	GY		CHL	2I	Po	0.1
145.06	147.93	2.87	SSS	VF	Similar to general description. Weak banding at ~65° to core axis. Chlorite noted on some fracture surfaces and along narrow carbonate veinlets as envelopes. Trace pyrite, present in narrow veinlets (<0.2 cm).							
						MD	BN	BN	SIL	3I	Py	0.1
									CHL	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
147.93	152.00	4.07	SSS	VF	slight decrease in pervasive hematite alteration (matrix colouring becoming grey), otherwise similar to general description. Trace sulphides. EOH at 152.0 m							
						MD	GY	BN	SIL	3I	Py	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	4.13	4.13	CAS	--	Casing/Overburden; no core recovery.							
						--	--	---	---	--	--	0
4.13	50.00	45.87	SLT	VF	Siltstone; Medium-dark grey, fine-very fine grained siltstone. Weak pervasive silicification of matrix with localized patches with bleached matrix (~8% of interval). Moderate oxidation is noted dominantly on fracture surfaces. Localized zones of moderately weathered rock (<2%). Low veining density, dominantly narrow white calcareous veinlet (<0.5cm) some carrying minor-moderate amounts of sulphides (generally pyrite with trace pyrrhotite and rare arsenopyrite?). Competent core cork with minor intervals of blocky/broken core (~15%). Fractures dominantly at ~35° and ~50° to core axis. Surfaces coated with iron oxides and limonite, decreasing downhole.							
						MD	GY	BD	OXI	2I	Py	0.3
									SIL	1I	Po	0.1
											As	0.1
											Li	0.7
50.00	72.53	22.53	SSS	FG	Siliceous Siltstone/Quartzite(?). Light cream-grey fine grained siliceous siltstone/quartzite(?). Strongly silicified matrix with weak-moderate oxidation noted mainly on fracture surfaces. Moderate veining density, generally narrow white weakly calcareous veinlets at ~30-35° to core axis or vuggy silica veinlets. Trace amounts of sulphides, dominantly finely disseminated pyrite. Blocky, broken, shattered core rock (~20% solids/intact). Fracture surfaces are weakly coated with limonite.							
						LT	GY	BN	SIL	3I	Li	0.3
								MA	OXI	1I	Py	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
72.53	74.22	1.69	SLT	VF	Contact zone/Siltstone - Medium grey, fine-very fine grained siliceous siltstone similar to 4.13-50.0m. Rusty red sulphide noted on veining higher in the interval (hematite?). Blocky broken core rock with 7-10% granular gouge.							
						MD	GY	BD	SIL	2I	He	0.2
								BK				
74.22	104.90	30.68	SLT	VF	Siltstone. Dark grey-black very fine grained weak-modestly silicified siltstone. Very faintly banded at ~45° to core axis. Interval has sooty appearance with weak-moderate pervasive graphite. Moderate veining density in localized intervals, dominantly narrow and irregular carbonate veinlets. Pyritic veinlet also noted. Fairly soft but competent core rock with zones of blocky core or rubble. Fractures generally at ~45-60° to core axis.							
						DK	GY	BD	SIL	1I	--	0
						LT	GY					
						--	BK					
104.90	128.33	23.43	SSS	VF	Siliceous Siltstone; medium grey brown siliceous siltstone. Matrix appears to have weak pervasive hematite alteration (tan-brown colouring). Low-moderate veining density, increasing downhole, preferred orientation at ~40° to core axis. Quartz carbonate veinlets with trace sulphides (mostly pyrite). Veinlets often show weak chlorite on sericite envelopes or cores. Blocky, fractured core rock with ~35-40% intact core rock. Fracturing generally at ~60-70° to core axis. Very minor rubble zones.							
						MD	GY	BN	SIL	2I	Py	0.3
						MD	TN	BD	CHL	1I	Po	0.1
									SER	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
128.33	131.60	3.27	SLT	VF	Graphitic Siltstone. Variably silicified graphitic siltstone, similar to 80.07-90.50 m. Decreasing silicification moving downhole. Irregular, shattered/disrupted carbonate veining structures present and often contain sulphides, dominantly pyrite. Narrow veinlets (<0.5 cm) also noted at ~50° to core axis. Blocky shattered core rock, fracturing generally at ~50° to core axis.							
						DK	GY	BN	SIL	2I	Py	0.5
						--	BK					
131.60	141.29	9.69	SSS	FG	Siliceous Siltstone. Medium grey and tan siliceous siltstone with sheared/"mixed" matrix fabric at ~35° to core axis. Weak-moderate pervasive sericite alteration also noted. Moderate-high veining density. Interval flooded with narrow, wispy carbonate veinlets and are often offset and discontinuous. No preferred orientation noted. Trace-minor pyrite, generally present in veinlets and as fine disseminations Rare pyrrhotite also noted. Blocky, fractured core rock, fractures generally at ~60° to core axis. Rubble and shattered rock make up ~30% of the interval, minimal gouge noted.							
						MD	GY	SH	SIL	2I	Py	0.3
						--	TN	BN	SER	2I	Po	0.1
									CHL	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
141.29	152.00	10.71	SSS	VF	Siliceous Siltstone. Similar to 104.9-128.33 m. Medium brown=grey siliceous siltstone with weak pervasive hematite alteration(?) Low veining density, dominantly quartz carbonate veinlets (<1 cm wide) at ~25° to core axis, which are often disrupted/discontinuous. Trace amounts of pyrite noted as narrow veinlets. Fairly hard, mostly competent core rock with minor rubble/shattered zones (~10%).							
						MD	GY		CHL	1I		
						MD	TN	BN	SIL	3I	Py	0.1

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From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	4.13	4.13	0	0	0.00	0	0R	--	--	OVB
4.13	5.00	0.87	0.81	93	0.26	30	0R	5H	3W	
5.00	8.00	3.00	2.73	91	1.40	47	0R	5H	3W	
8.00	11.00	3.00	2.75	92	1.38	46	0R	5H	3W	
11.00	14.00	3.00	2.95	98	2.58	86	0R	5H	2W	
14.00	17.00	3.00	2.92	97	1.99	66	0R	5H	3W	
17.00	20.00	3.00	2.29	76	1.06	35	0R	5H	3W	
20.00	23.00	3.00	2.85	95	2.44	81	0R	5H	2W	
23.00	26.00	3.00	3	100	1.64	55	0R	5H	2W	
26.00	29.00	3.00	3	100	2.00	67	0R	5H	2W	
29.00	32.00	3.00	2.99	100	1.49	50	1R	5H	2W	
32.00	35.00	3.00	2.39	80	0.86	29	1R	4H	3W	
35.00	38.00	3.00	2.23	74	1.12	37	1R	4H	3W	
38.00	41.00	3.00	3	100	1.69	56	0R	4H	2W	
41.00	44.00	3.00	3	100	2.22	74	1R	4H	2W	
44.00	47.00	3.00	2.72	91	0.76	25	1R	4H	2W	
47.00	50.00	3.00	2	67	0.65	22	0R	4H	2W	
50.00	53.00	3.00	1.04	35	0.00	0	0R	5H	3W	
53.00	56.00	3.00	1.48	49	0.12	4	0R	5H	3W	
56.00	59.00	3.00	1.07	36	0.00	0	0R	5H	3W	
59.00	62.00	3.00	0.73	24	0.00	0	0R	5H	3W	
62.00	65.00	3.00	1.9	63	0.99	33	0R	5H	3W	
65.00	68.00	3.00	2.51	84	0.83	28	0R	5H	2W	
68.00	71.00	3.00	2.54	85	0.24	8	0R	5H	2W	
71.00	74.00	3.00	2.35	78	0.38	13	0R	5H	2W	
74.00	77.00	3.00	2.8	93	1.47	49	0R	5H	2W	
77.00	80.00	3.00	2.96	99	1.61	54	0R	5H	2W	
80.00	83.00	3.00	3	100	2.44	81	0R	4H	2W	
83.00	86.00	3.00	2.86	95	1.51	50	0R	4H	2W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
86.00	89.00	3.00	2.88	96	1.47	49	0R	5H	2W	
89.00	92.00	3.00	2.94	98	2.43	81	1R	5H	2W	
92.00	95.00	3.00	2.85	95	1.50	50	1R	5H	2W	
95.00	98.00	3.00	2.97	99	0.82	27	1R	1H	1W	
98.00	101.00	3.00	2.21	74	0.61	20	1R	3H	1W	
101.00	104.00	3.00	2.97	99	1.59	53	1R	3H	1W	
104.00	107.00	3.00	2.75	92	0.66	22	0R	3H	1W	
107.00	110.00	3.00	2.55	85	1.88	63	0R	3H	1W	
110.00	113.00	3.00	2.78	93	0.99	33	0R	3H	2W	
113.00	116.00	3.00	3	100	1.86	62	0R	5H	3W	
116.00	119.00	3.00	2.69	90	1.62	54	0R	5H	2W	
119.00	122.00	3.00	3	100	0.94	31	0R	5H	1W	
122.00	125.00	3.00	2.73	91	0.99	33	0R	3H	1W	
125.00	128.00	3.00	2.48	83	0.84	28	0R	5H	1W	
128.00	131.00	3.00	2.66	89	0.38	13	0R	5H	1W	
131.00	134.00	3.00	2.78	93	1.42	47	0R	4H	1W	
134.00	137.00	3.00	2.77	92	1.61	54	0R	4H	1W	
137.00	140.00	3.00	2.13	71	0.43	14	0R	4H	2W	
140.00	143.00	3.00	1.74	58	0.80	27	1R	4H	1W	
143.00	146.00	3.00	2.75	92	0.91	30	1R	4H	1W	
146.00	149.00	3.00	3	100	1.42	47	1R	4H	1W	
149.00	152.00	3.00	2.7	90	1.34	45	1R	4H	1W	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
1	0	CAS	OVB
2	0	CAS	OVB
3	0	CAS	OVB
4	0	CAS	OVB
5	0.447	SLT	
6	0.515	SLT	
7	0.679	SLT	
8	0.48	SLT	
9	0.968	SLT	
10	2.902	SLT	
11	2.16	SLT	
12	1.417	SLT	
13	0.637	SLT	
14	0.921	SLT	
15	0.841	SLT	
16	0.722	SLT	
17	0.716	SLT	
18	0.711	SLT	
19	0.682	SLT	
20	0.713	SLT	
21	1.409	SLT	
22	2.251	SLT	
23	0.536	SLT	
24	0.855	SLT	
25	2.76	SLT	
26	1.045	SLT	
27	0.628	SLT	
28	0.626	SLT	
29	0.707	SLT	

Depth (m)	Magnetic Susceptibility	Unit	Comments
30	1.368	SLT	
31	0.439	SLT	
32	1.687	SLT	
33	0.242	SLT	
34	0.034	SLT	
35	0.096	SLT	
36	1.396	SLT	
37	1.433	SLT	
38	0.054	SLT	
39	0.675	SLT	
40	1.121	SLT	
41	1.54	SLT	
42	0.424	SLT	
43	1.125	SLT	
44	0.92	SLT	
45	1.032	SLT	
46	1.774	SLT	
47	8.799	SLT	
48	0.109	SLT	
49	0.184	SLT	
50	0.215	SLT	
50	0.215	SSS	
51	0.321	SSS	
52	0	SSS	No MagSus taken due to low recovery
53	0.071	SSS	
54	0.159	SSS	
55	0	SSS	No MagSus taken due to low recovery

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
56	0.021	SSS	
57	0.084	SSS	
58	0	SSS	No MagSus taken due to low recovery
59	0.036	SSS	
60	0	SSS	No MagSus taken due to low recovery
61	0	SSS	No MagSus taken due to low recovery
62	0.03	SSS	
63	0	SSS	No MagSus taken due to low recovery
64	0.062	SSS	
65	0.024	SSS	
66	0.016	SSS	
67	0.052	SSS	
68	0.028	SSS	
69	0.031	SSS	
70	0.022	SSS	
71	0.027	SSS	
72	0.005	SSS	
73	0.053	SLT	
74	0.069	SLT	
75	1.472	SLT	
76	0.895	SLT	
77	0.486	SLT	
78	0.858	SLT	
79	1.474	SLT	
80	0.392	SLT	
81	0.079	SLT	
82	0.336	SLT	
83	0.471	SLT	

Depth (m)	Magnetic Susceptibility	Unit	Comments
84	0.626	SLT	
85	0.224	SLT	
86	0.129	SLT	
87	0.485	SLT	
88	0.405	SLT	
89	0.483	SLT	
90	0.572	SLT	
91	0.934	SLT	
92	1.042	SLT	
93	2.649	SLT	
94	2.342	SLT	
95	0.264	SLT	
96	0.384	SLT	
97	0.672	SLT	
98	0.585	SLT	
99	0.265	SLT	
100	0.627	SLT	
101	0.503	SLT	
102	0.63	SLT	
103	0.129	SLT	
104	0.058	SLT	
105	0.686	SSS	
106	0.193	SSS	
107	0.66	SSS	
108	3.128	SSS	
109	2.017	SSS	
110	0.47	SSS	
111	0.196	SSS	
112	0.815	SSS	
113	0.199	SSS	
114	0.421	SSS	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
115	4.146	SSS	
116	3.041	SSS	
117	0.237	SSS	
118	0.621	SSS	
119	0.638	SSS	
120	0.657	SSS	
121	0.594	SSS	
122	0.173	SSS	
123	0.71	SSS	
124	0.192	SSS	
125	37.59	SSS	
126	10.71	SSS	
127	0.574	SSS	
128	0.551	SSS	
129	1.045	SLT	
130	10.39	SLT	
131	2.934	SLT	
132	4.308	SSS	
133	0.47	SSS	
134	0.033	SSS	
135	1.273	SSS	
136	0.506	SSS	
137	0.456	SSS	
138	0.43	SSS	
139	0.011	SSS	
140	0.064	SSS	
141	0.424	SSS	
142	0	SSS	No MagSus taken due to low recovery
143	0.359	SSS	
144	0.487	SSS	
145	2.308	SSS	
146	2.199	SSS	
147	1.023	SSS	
148	0.291	SSS	
149	0.27	SSS	
150	0.929	SSS	
151	0.87	SSS	
152	0.221	SSS	EOH

OSW-13-004

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	K285769	13-O01	Core	K-4	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K285776	13-O01	Core		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K285764	13-O01	Core	K-4	☐	☐	☐
13.24	14.00	0.76	SLT	0.73	96	K285757	13-O01	Core		☐	☐	☐
18.00	18.80	0.80	SLT	0.80	100	K285758	13-O01	Core		☐	☐	☐
18.00	18.80	0.80	SLT	0.80	100	K285759	13-O01	Core		☐	☑	☐
42.05	42.56	0.51	SLT	0.51	100	K285760	13-O01	Core		☐	☐	☐
46.66	47.40	0.74	SLT	0.72	97	K285761	13-O01	Core		☐	☐	☐
47.40	48.00	0.60	SLT	0.40	67	K285762	13-O01	Core		☐	☐	☐
48.00	50.00	2.00	SLT	1.21	61	K285763	13-O01	Core		☐	☐	☐
71.90	72.53	0.63	SSS	0.63	100	K285765	13-O01	Core		☐	☐	☐
91.61	92.26	0.65	SLT	0.64	98	K285766	13-O01	Core		☐	☐	☐
92.26	93.04	0.78	SLT	0.72	92	K285767	13-O01	Core		☐	☐	☐
93.04	95.24	2.20	SLT	1.24	56	K285768	13-O01	Core		☐	☐	☐
99.57	100.29	0.72	SLT	0.70	97	K285770	13-O01	Core		☐	☐	☐
115.88	117.33	1.45	SSS	1.41	97	K285771	13-O01	Core		☐	☐	☐
117.33	118.11	0.78	SSS	0.78	100	K285772	13-O01	Core		☐	☐	☐
118.11	121.00	2.89	SSS	2.53	88	K285773	13-O01	Core		☐	☐	☐
121.00	123.86	2.86	SSS	2.29	80	K285774	13-O01	Core		☐	☐	☐
123.86	124.60	0.74	SSS	0.71	96	K285775	13-O01	Core		☐	☐	☐
124.60	125.50	0.90	SSS	0.86	96	K285777	13-O01	Core		☐	☐	☐
131.60	132.80	1.20	SLT, SSS	1.18	98	K285778	13-O01	Core		☐	☐	☐
132.80	134.88	2.08	SSS	1.78	86	K285779	13-O01	Core		☐	☐	☐
134.88	135.89	1.01	SSS	1.01	100	K285780	13-O01	Core		☐	☐	☐
134.88	135.89	1.01	SSS	1.01	100	K285781	13-O01	Core		☐	☐	☑
144.39	145.06	0.67	SSS	0.66	99	K285782	13-O01	Core		☐	☐	☐
145.06	146.55	1.49	SSS	1.22	82	K285783	13-O01	Core		☐	☐	☐

Sample Results

Batch	Sample	From (m)	To (m)	Ag g/t	Pb ppm	Zn ppm	Cu ppm	In ppm	Sn ppm	Au g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
13-O01	K285764	0.00	0.00	14.10	1075	3200	778	2.2	170	0.00	☐	☐	☐	☑ K-4	
13-O01	K285776	0.00	0.00	0.02	2	19	2	0.0	3	0.00	☐	☐	☑	☐	
13-O01	K285769	0.00	0.00	14.95	1110	3290	811	2.2	168	0.00	☐	☐	☐	☑ K-4	
13-O01	K285757	13.24	14.00	1.52	64	70	12	0.0	6	0.00	☐	☐	☐	☐	
13-O01	K285758	18.00	18.80	1.65	37	466	34	0.0	11	0.00	☐	☐	☐	☐	
13-O01	K285759	18.00	18.80	0.99	12	279	33	0.0	12	0.00	☑	☐	☐	☐	
13-O01	K285760	42.05	42.56	0.88	17	1080	26	0.2	3	0.00	☐	☐	☐	☐	
13-O01	K285761	46.66	47.40	1.65	48	386	85	0.1	22	0.00	☐	☐	☐	☐	
13-O01	K285762	47.40	48.00	0.55	14	287	38	0.0	18	0.00	☐	☐	☐	☐	
13-O01	K285763	48.00	50.00	1.61	27	1620	19	0.2	47	0.00	☐	☐	☐	☐	
13-O01	K285765	71.90	72.53	0.20	5	135	8	0.0	5	0.00	☐	☐	☐	☐	
13-O01	K285766	91.61	92.26	0.76	13	35	40	0.0	3	0.00	☐	☐	☐	☐	
13-O01	K285767	92.26	93.04	1.01	19	142	85	0.0	3	0.00	☐	☐	☐	☐	
13-O01	K285768	93.04	95.24	1.04	24	247	89	0.1	5	0.01	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Ag g/t	Pb ppm	Zn ppm	Cu ppm	In ppm	Sn ppm	Au g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
13-O01	K285770	99.57	100.29	0.64	16	526	66	0.1	3	0.01	☐	☐	☐	☐	
13-O01	K285771	115.88	117.33	0.53	6	17	56	0.0	12	0.00	☐	☐	☐	☐	
13-O01	K285772	117.33	118.11	0.51	6	17	43	0.0	3	0.00	☐	☐	☐	☐	
13-O01	K285773	118.11	121.00	0.25	5	22	67	0.0	7	0.00	☐	☐	☐	☐	
13-O01	K285774	121.00	123.86	0.27	6	106	137	0.0	3	0.00	☐	☐	☐	☐	
13-O01	K285775	123.86	124.60	0.30	9	338	96	0.1	5	0.01	☐	☐	☐	☐	
13-O01	K285777	124.60	125.50	0.32	5	72	101	0.0	3	0.00	☐	☐	☐	☐	
13-O01	K285778	131.60	132.80	0.61	6	80	75	0.0	3	0.00	☐	☐	☐	☐	
13-O01	K285779	132.80	134.88	0.54	4	18	111	0.0	3	0.00	☐	☐	☐	☐	
13-O01	K285780	134.88	135.89	0.25	2	21	81	0.0	3	0.00	☐	☐	☐	☐	
13-O01	K285781	134.88	135.89	0.26	2	19	83	0.0	3	0.00	☐	☑	☐	☐	
13-O01	K285782	144.39	145.06	0.18	3	32	50	0.0	7	0.00	☐	☐	☐	☐	
13-O01	K285783	145.06	146.55	0.23	3	47	62	0.0	3	0.00	☐	☐	☐	☐	

Box Log

OSW-13-005

Silver Range
Southwest Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	3	8.66
2	8.66	13.64
3	13.64	18.52
4	18.52	23.82
5	23.82	30.49
6	30.49	35.91
7	35.91	40.92
8	40.92	47.07
9	47.07	52.4
10	52.4	53

Box Number	From (m)	To (m)

Box Number	From (m)	To (m)

Keg - Silver Range

Archer, Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		581712	6946229	1349.73	53

ZONE: Owl Southwest

SECTION:

HOLE: OSW-13-005

CLAIM:

Contractor: Top Rank

Drill: 1

Core Size: NQ2

Casing Depth: 3m, Out

Drilling Dates: Jun 19 - Jun 20, 2013

Geology Logged By: L. Pryer

SURVEY			
Depth (m)	Azimuth	Dip	Method
0	312	-50	Compass
43	317.4	-50.4	Ranger

TARGET: 30

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	3	3	CAS
3	17.57	14.57	SLT
17.57	20.86	3.29	SSS
20.86	22.95	2.09	SLT
22.95	29.56	6.61	SSS
29.56	31.64	2.08	SLT
31.64	34.08	2.44	MX
34.08	36.9	2.82	SLT
36.9	41.8	4.9	SLT
41.8	47	5.2	SLT
47	49.8	2.8	SLT
49.8	52.05	2.25	SLT
52.05	53	0.95	SLT

SAMPLES	
Numbers:	K285755 to K285756
Total:	4
Batch:	O01
Certificates:	WH13129420, WH13137971

COMMENTS

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
OSW-13-005									
	12.24	14.7	NQ2	SLT	780.1	480.2	2.6	2.6	
	18.84	15.2	NQ2	SSS	803.6	498.4	2.6	2.6	
	42.8	15.2	NQ2	SLT	782.1	464.6	2.6	2.5	

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	3.00	3.00	CAS	--	Casing							
						--	--	---	---	--	--	0
3.00	17.57	14.57	SLT	VF	Same as general							
						MD	GY	MA	OXI	2I	Py	0.01
									SIL	1I		
17.57	18.52	0.95	SSS	FG	Same as general							
						MD	GY	---	---	--	--	0
18.52	19.58	1.06	SLT	VF	Area shows less complete alteration. Vuggy with crackle breccia veining.							
						MD	GY	MA	ALT	2I	Py	0.01
									SIL	2I	Gn	0.01
19.58	20.86	1.28	SSS	FG	Same as general							
						MD	GY	---	ALT	3I	--	0
20.86	22.95	2.09	SLT	VF	Same as general							
						MD	GY	BD	SIL	2I	Py	0.01
								SU				
22.95	23.82	0.87	SSS	FG	Highly altered band. See general.							
						MD	GY	SU	ALT	4I	--	0
23.82	26.94	3.12	SSS	FG	Less altered band. See general.							
						MD	GY	SU	ALT	2I	--	0
26.94	28.80	1.86	SSS	FG	Heavily altered band. See general.							
						MD	GY	BD	ALT	4I	--	0
								SU				
28.80	29.56	0.76	SSS	FG	Less altered band. See general.							
						MD	GY	SU	ALT	2I	--	0
29.56	31.64	2.08	SLT	VF	Same as general.							
						LT	GY	MA	SIL	2I	Gn	0.1
											Py	1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
31.64	32.20	0.56	MX	MG	First altered vein. Starts vuggy with open cavities and botryoidal siderite, gn and py. 20cm of 15% py and 10%Gn in highly SSS							
						DK	GY	XL	HYD	4I	Py	3
											Gn	1
											As	1
32.20	33.50	1.30	SLT	FG	Siltstone seperating veins. See general.							
						MD	GY	BD	ALT	2I	Py	3
33.50	34.08	0.58	MX	MG	Heavily mineralised vein with 20cm of coarse grained sulphide rich replacement.							
						DK	GY	BD	HYD	4I	Gn	2
											Py	3
34.08	36.90	2.82	SLT	VF	Same as general.							
						LT	GY	MA	ALT	2I	Py	0.01
								BD				
36.90	41.80	4.90	SLT	VF	Same as General.							
						MD	GY	MA	ALT	2I	Py	0.2
41.80	47.00	5.20	SLT	VF	Same as general							
						MD	GY	MA	CLS	2I	Py	0.1
47.00	49.80	2.80	SLT	VF	Same as general.							
						LT	GY	BD	KAO	3I	Py	0.1
49.80	52.05	2.25	SLT	VF	Same as general.							
						MD	GY	MA	ALT	2I	Gr	1
52.05	53.00	0.95	SLT	VF	Same as general.							
						LT	GY	BD	SER	1I	--	0

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	3.00	3.00	CAS	--	Casing							
						--	--	---	---	--	--	0
3.00	17.57	14.57	SLT	VF	Massive or very weakly bedded siltstone oxidation on joint surfaces. Slight silicification (very minor) with py. Uniform colour and texture.							
						MD	GY	MA	OXI	2I	Py	0.01
									SIL	1I		
17.57	20.86	3.29	SSS	FG	Increase in alteration wirth larger concentraion of sulphide minerals. Moderate (40%) replacement of siltstone to crystalline alt rock.							
						MD	GY	MA	ALT	3I	Py	0.01
						LT	BF				Gn	0.01
20.86	22.95	2.09	SLT	VF	HYD alt siltstone to give textures ranging from quartose to cherty. Heavily veined but minor sulphide phases.							
						MD	GY	BD	ALT	2I	Py	0.01
								SU	SIL	2I		
22.95	29.56	6.61	SSS	FG	Variable degrees of alt siltstone. From complete replacement to <40%.Crystalline replacement is fine grained restructing sulphide mineral I.D but py seen. More altered areas show vitreous lustre with white and darker bands (relict bedding?).							
						MD	GY	BD	ALT	2I	Py	0.01
								SU	ALT	4I		
29.56	31.64	2.08	SLT	VF	Minor <10% alteration of siltstone matrix but large amounts of silicic veining contains py and gn. Bedding present in places.							
											Py	1
						LT	GY	MA	SIL	2I	Gn	0.1
31.64	34.08	2.44	MX	MG	2 heavily mineralised veins separated by minorly altered bedded grey siltstone. At edges of veins alteration appears to have been vuggy but becomes complete replacement in denser zones. Chl, epi and possible alb present.							
									HYD	4I	Gn	1
											As	1
						DK	GY	XL	SIL	3I	Py	3

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
34.08	36.90	2.82	SLT	VF	Altered siltstone showing quartz replacement and veining. Joint surfaces oxidised red rust colour.							
						LT	GY	MA	ALT	2I	Py	0.01
								BD				
36.90	41.80	4.90	SLT	VF	Siliceous siltstone with py veinlets.							
						MD	GY	MA	ALT	2I	Py	0.2
41.80	47.00	5.20	SLT	VF	Similar lithology to above. Change in joint weathering from rust brown to black. With Chl and sericite. Also cherty texture not sucrosic leading to increased conchoidal fracturing.							
						MD	GY	MA	CLS	2I	Py	0.1
									ALT	2I		
47.00	49.80	2.80	SLT	VF	rock becomes more crumbly. Clay minerals present. Minor Py. Minor graphitisation.							
						LT	GY	BD	KAO	2I	Py	0.1
											Py	0.1
49.80	52.05	2.25	SLT	VF	Graphitisation increases. Leading to a darker colour. Minor py. Crackled breccia appearance. Siltstone not replaced.							
						MD	GY	MA	ALT	2I	Gr	1
											Py	0.1
52.05	53.00	0.95	SLT	VF	Cherty siltstone with serecite.							
						LT	GY	BD	SER	1I	--	0

OSW-13-005

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	3.00	3.00	0	0	0.00	0	0R	--	--	Casing 3m
3.00	5.00	2.00	1.73	87	0.71	36	0R	4H	2W	
5.00	8.00	3.00	2.3	77	0.78	26	1R	4H	2W	
8.00	11.00	3.00	2.14	71	1.36	45	0R	4H	2W	
11.00	14.00	3.00	2.67	89	1.79	60	0R	4H	2W	
14.00	17.00	3.00	2.95	98	2.09	70	0R	4H	2W	
17.00	20.00	3.00	2.57	86	1.57	52	0R	4H	3W	
20.00	23.00	3.00	2.23	74	1.15	38	0R	5H	3W	
23.00	26.00	3.00	1.51	50	0.76	25	0R	5H	3W	
26.00	29.00	3.00	1.45	48	0.41	14	0R	5H	2W	
29.00	32.00	3.00	2.9	97	1.24	41	0R	5H	2W	
32.00	35.00	3.00	2.27	76	0.15	5	0R	5H	3W	
35.00	38.00	3.00	2.78	93	1.36	45	0R	5H	2W	
38.00	41.00	3.00	2.86	95	1.42	47	0R	5H	2W	
41.00	44.00	3.00	2.68	89	1.28	43	0R	5H	1W	
44.00	47.00	3.00	1.49	50	0.60	20	0R	5H	1W	
47.00	50.00	3.00	2.44	81	0.59	20	0R	3H	1W	
50.00	53.00	3.00	2.9	97	1.71	57	0R	4H	1W	

OSW-13-005

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
1	0	CAS	casing
2	0	CAS	casing
3	1.094	CAS	
3	1.094	SLT	
4	0.068	SLT	
5	0.029	SLT	
6	1.667	SLT	
7	1.667	SLT	
8	0.605	SLT	
9	1.674	SLT	
10	1.164	SLT	
11	0.674	SLT	
12	0.123	SLT	
13	2.456	SLT	
14	1.808	SLT	
15	0.869	SLT	
16	0.163	SLT	
17	0.064	SLT	
18	0.018	SSS	
19	0.283	SSS	
20	0.012	SSS	
21	0.023	SLT	
22	0.017	SLT	
23	0.012	SSS	
24	0.019	SSS	
25	0	SSS	No MagSus taken due to low recovery
26	0.011	SSS	
27	0.016	SSS	

Depth (m)	Magnetic Susceptibility	Unit	Comments
28	0.041	SSS	
29	0.033	SSS	
30	0.033	SLT	
31	0.113	SLT	
32	0.311	MX	
33	0.05	MX	
34	0.012	MX	
35	0.025	SLT	
36	0.021	SLT	
37	0	SLT	
38	0.013	SLT	
39	0.013	SLT	
40	0.016	SLT	
41	0.018	SLT	
42	2.377	SLT	
43	0.023	SLT	
44	0.267	SLT	
45	0.422	SLT	
46	0	SLT	No MagSus taken due to low recovery
47	0.369	SLT	
47	0.369	SLT	
48	0.491	SLT	
49	0.113	SLT	
50	0.097	SLT	
51	0.912	SLT	
52	0.858	SLT	EOH

OSW-13-005

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
31.52	32.48	0.96	SLT	0.94	98	K285755	13-O01	Core		☐	☐	☐
32.48	34.13	1.65	MX	1.10	67	K285756	13-O01	Core		☐	☐	☐

Sample Results

Batch	Sample	From (m)	To (m)	Ag g/t	Pb ppm	Zn ppm	Cu ppm	In ppm	Sn ppm	Au g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
13-O01	K285755	31.52	32.48	172.00	9250	1820	279	0.4	58	0.03	☐	☐	☐	☐	
13-O01	K285756	32.48	34.13	141.00	7140	1070	102	0.1	92	0.01	☐	☐	☐	☐	

Box Log

OSW-13-006

Silver Range
Southwest Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	2.64	8
2	8	13.84
3	13.84	19.4
4	19.4	24.63
5	24.63	30.01
6	30.01	34.54
7	34.54	39.43
8	39.43	44.73
9	44.73	50.46
10	50.46	56.33
11	56.33	62.23
12	62.23	68
13	68	73.28
14	73.28	78.28
15	78.28	83.07
16	83.07	88.13
17	88.13	92.88
18	92.88	97.88
19	97.88	103.35
20	103.35	108.9
21	108.9	114.52
22	114.52	120.2
23	120.2	125.81
24	125.81	131.34
25	131.34	137
26	137	142.46
27	142.46	147.93
28	147.93	153.41
29	153.41	159
30	159	164.66
31	164.66	169.72
32	169.72	175.71
33	175.71	180.74
34	180.74	185.97
35	185.97	190.79
36	190.79	191.44

Box Number	From (m)	To (m)

Keg - Silver Range

Archer, Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		581715	6946163	1358.03	191.44

ZONE: Owl Southwest

SECTION:

HOLE: OSW-13-006

CLAIM:

Contractor: Top Rank

Drill: 1

Core Size: NQ2

Casing Depth: 2.64m, Out

Drilling Dates: Jun 21 - Jun 23, 2013

Geology Logged By: C. Chung

SURVEY			
Depth (m)	Azimuth	Dip	Method
0	312	-50	Compass
191	322.1	-44.6	Ranger

TARGET: 250

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	2.64	2.64	CAS
2.64	10.89	8.25	CSL
10.89	14.21	3.32	SSS
14.21	71.13	56.92	SLT
71.13	73.73	2.6	SSS
73.73	93.43	19.7	SSS
93.43	100.83	7.4	CHT
100.83	104.39	3.56	SSS
104.39	114.66	10.27	SLT
114.66	129.36	14.7	SSS
129.36	137.29	7.93	SSS
137.29	145.42	8.13	SSS
145.42	160.68	15.26	SSS
160.68	166.64	5.96	SLT
166.64	191.44	24.8	FLR

SAMPLES	
Numbers:	K285785 to K285800, K285853 to K285867
Total:	40
Batch:	O01, O02
Certificates:	WH13129420, WH13129421, WH13137971, WH13137972

COMMENTS

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
OSW-13-006									
	7.56	15.2	NQ2	CSL	825.2	522.3	2.7	2.7	
	21.5	15	NQ2	SLT	813.4	512.2	2.7	2.7	
	39.99	14.5	NQ2	SLT	805.2	514.8	2.8	2.8	
	50.05	15.1	NQ2	SLT	830.2	527.6	2.7	2.7	
	83.19	13.8	NQ2	SSS	730.5	451.8	2.6	2.6	
	105.41	14.9	NQ2	SLT	813.8	514.9	2.7	2.7	
	128.09	15.1	NQ2	SSS	824.2	520.8	2.7	2.7	

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	2.64	2.64	CAS	--	Casing/Overburden. No core recovery.							
						--	--	---	---	--	--	0
2.64	3.13	0.49	CSL	FG	Similar go general description - top of hole. Decreased dark banding with increased narrow, irregular carbonate filled fractures - crackle breccia like textures. Limonite on fracture surfaces. No significant sulphides noted.							
						LT	GY	BN	OXI	2I	Li	0.3
						DK	GY	SH				
								BX				
3.13	4.73	1.60	SLT	VF	Dark grey, banded, non-calcareous siltstone, banded/bedding at ~30° to core axis. Narrow, broken white carbonate veinlets present. Weakly silicified matrix with small disseminated-euhedral (<0.2 cm) pyrite grains. Approximately 40% of the interval is blocky rubble.							
						DK	GY	BN	SIL	2I	Py	0.2
4.73	8.46	3.73	CSL	FG	Similar to general description. Banding/shearing "fabric" at ~35-40° to core axis. Weak-moderately silicified matrix. Bands created a weak sheared/brecciated texture. Rare-trace very fine grained pyrite noted.							
						LT	GY	BN	OXI	1I	Py	0.1
						DK	GY	SH	SIL	1I		
								BX				
8.46	9.02	0.56	SSS	FG	Siliceous/strongly silicified siltstone/quartzite. Increased oxidized carbonate veinlets seen. Slight increase in blebby sulphides, mostly pyrrhotite.							
						LT	GY	BD	SIL	3I	Py	0.1
									OXI	2I	Po	0.1
9.02	9.78	0.76	CSL	FG	Similar to general description. Finely disseminated pyrite noted.							
						LT	GY	BN	OXI	1I	Py	0.1
						DK	GY	SH				
9.78	10.89	1.11	SLT	VF	banded, silicified siltstone. Fabric at ~40° to core axis. This interval is dark grey-black with bands of light grey. Fine disseminated pyrite present. Contact with lower unit gradational over ~5 cm at ~45° to core axis.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						DK	GY	SH	SIL	2I	Py	0.2
10.89	12.67	1.78	SSS	FG	Similar to general description. Blocky, fractured core rock.							
						LT	GY	FR	SIL	3I	Py	0.1
									OXI	2I	Po	0.1
12.67	13.53	0.86	SLT	VF	Interval of medium grey, very fine grained siltstone, crosscut by sulphide bearing carbonate veinlets. Decreased silicification.							
						MD	GY	BD	OXI	1I	Py	0.3
									SIL	1I	Po	0.2
13.53	14.21	0.68	SSS	FG	Similar to general description. Interval of shattered/fragmented core rock.							
						LT	GY	FR	SIL	3I	Py	0.1
											Po	0.1
14.21	24.57	10.36	SLT	VF	Similar to general description with increased light grey calcareous bands and small light grey calcareous blebs. Bedding fabric more visible at ~40° to core axis. Weak oxidation noted in carbonate veinlets as well as on fracture surfaces. Finely disseminated sulphides seen throughout matrix as well as carried in carbonate veinlets (pyrite, pyrrhotite).							
						MD	GY	BD	CAR	1I	Py	0.1
						LT	GY	BN	SIL	1I	Po	0.2
									OXI	2I		
24.57	25.55	0.98	SLT	VF	Similar to general description with increased sulphide bearing carbonate veinlets and blebs (<1.0 cm across). Some veinlets appear to be weakly sericite altered. Veining generally at ~40° to core axis.							
						DK	GY	BN	SIL	1I	Py	1
									OXI	1I	Po	1.5
25.55	30.49	4.94	SLT	VF	Similar to general description with increased narrow sulphide veinlets (<0.2 cm wide) at ~30° to core axis, along weak matrix fabric. Slight increase in low angle fracturing. @27 m - two silica veinlets (<1.5 cm wide) noted with sulphides.							
						DK	GY	BN	SIL	1I	Py	0.3
											Po	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
30.49	34.04	3.55	SLT	VF	Similar to above at 25.55-30.49 m with sulphide carrying carbonate veinlets with several larger veins and zones of granular gouge (fault zones?). Increased sulphides, mostly in veinlets. Minor zones of shattered core rock. @31.03 m - Zone of shattered core with minor medium grey gouge, no orientation measured (fault?) @32.07 m - ~1.5 cm band of grey granular gouge at ~35° to core axis (fault?) @33.33 m - Smeared sulphide-silica vein with rare sphalerite, generally oriented at ~60° to core axis. @33.95 m - silica-sulphide vein with sphalerite at ~65° to core axis, ~3 cm wide.							
						MD	GY				Po	0.1
						DK	GY	---	SIL	1I	Py	0.5
											Sp	0.1
34.04	38.00	3.96	SLT	VF	Similar to general description with decreased carbonate veinlets, dominantly quartz-carbonate veinlets present, carrying trace amounts of sulphides (<0.5 cm wide), preferred orientation at ~35° and ~50° to core axis.							
						DK	GY	BN	SIL	1I	Py	0.1
									OXI	1I		
38.00	40.12	2.12	CSL	FG	Interval of calcareous siltstone. Dappled matrix with increased narrow and irregular carbonate veinlets and blebs. Increased sulphides scattered throughout the matrix as wisps and disseminations.							
						MD	GY	BN	SIL	1I	Py	0.5
									CAR	2I	Po	0.3

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
40.12	46.46	6.34	SLT	VF	Similar to general description with quartz-carbonate veinlets carrying sulphides. Veinlets up to ~1 cm wide and dominantly at ~50° to core axis. @43.34 m - Approximately 1 cm wide quartz-carbonate veinlets with ~30% blebby sulphides at ~40° to core axis, dominantly pyrite. @43.62 m - Patch with vuggy carbonate veinlets at ~45° to core axis, <1 cm wide. @45.76 m - Two quartz-carbonate veinlets with ~30-40% sulphides at ~50° to core axis.							
						DK	GY	BN	SIL	1I	Py	0.5
											Po	0.2
46.46	55.20	8.74	SLT	VF	Similar to general description. Slightly lighter in colour and decreased silicification of the matrix. Rusty red iron oxides are present on all fracture surfaces. Minor amounts of quartz-carbonate veinlets with sulphides noted.							
						MD	GY	BN	SIL	1I	Py	0.3
						DK	GY		OXI	2I	Po	0.1
55.20	61.10	5.90	SLT	VF	Similar to 46.46-55.20 m with decreased oxidation on fracture surfaces. Core rock is blocky and fractured, generally at ~50° to core axis. Chlorite noted associated with carbonate veining structures. Low angle carbonate veinlets (<20° to core axis, <0.5 cm wide) with minor sulphides.							
						MD	GY	BN	SIL	1I	Py	0.2
						DK	GY		OXI	1I	Po	0.1
									CHL	1I		
61.10	61.80	0.70	SLT	FG	interval of lighter grey, very weakly silicified, moderately sericite altered siltstone. Faint banding of the matrix at ~40° to core axis. Sulphides present in veinlets as well as euhedral grains in the matrix. Quartz-carbonate veinlets (<1.0 cm) noted with weak chlorite.							
						MD	GY		SER	2I	Py	0.5
						LT	GY	BN	CHL	1I	Py	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
61.80	68.43	6.63	SLT	VF	Similar to general description, core rock is blocky with fractures commonly at ~40° to core axis. Minor amounts of carbonate veinlets (<0.5 cm). Trace sulphides, dominantly as disseminated grains throughout the matrix.							
						DK	GY	BN	SIL	1I	Py	0.1
									CHL	1I	Po	0.1
68.43	70.02	1.59	CSL	FG	Interval of calcareous siltstone with faint fabric at ~35° to core axis. Rare-trace sulphides, possible sphalerite/siderite(?)							
						MD	GY		CHL	1I	Sp	0.1
						LT	GY	BN	SIL	1I	Po	0.1
70.02	71.13	1.11	SLT	VF	Contact zone. Strongly silicified interval of siltstone with increased silica veinlets and fracturing, preferred orientation at ~50° to core axis. Blebby sulphides noted, dominantly pyrite with possible sphalerite. Contact to mineralized unit downhole at ~60° to core axis.							
						MD	GY	FO	SIL	3I	Py	0.3
											Sp	0.1
71.13	73.73	2.60	SSS	FG	Mineralized Siliceous Siltstone. White-light grey, moderately foliated mineralized siliceous siltstone. Strongly silicified and bleached matrix. Weak-moderately oxidized along veinlets and fractures. Moderate veining density with sulphide veinlets and silica flooded bands (veins?) (<1.5 cm wide), generally oriented at ~50° to core axis. One set of low angled (<20° to core axis) veinlets also noted. Silica veinlets/veins are generally vuggy or have open spaces with euhedral quartz crystals. Polymetallic sulphide veinlets (pyrite, sphalerite, arsenopyrite, galena) present. Competent core rock with minor amounts of fracturing at ~50-60° to core axis.							
						LT	GY	FO	SIL	4I	Li	0.1
						--	WH		OXI	1I	Py	0.7
						--	CR		BLE	3I	Sp	1.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
											As	0.2
											Gn	0.1
73.73	77.12	3.39	SSS	FG	Similar to general description with increased narrow, diffused carbonate veinlets at ~30° to core axis and decreased silica veinlets. Finely disseminated pyrite noted throughout matrix, possibly rare-trace arsenopyrite. Core rock becomes blocky after 76.58 m.							
						MD	GY	FR	SIL	3I	Py	0.2
									CAR	1I	As	0.1
77.12	77.42	0.30	SSS	VF	Strongly bleached and fractured interval, appears strongly silicified. No significant sulphides noted.							
						LT	GY	---	SIL	3I	--	0
						--	WH		BLE	4I		
77.42	79.50	2.08	SSS	FG	Similar to general description with moderate oxidation (iron oxides on fracture surfaces). Vuggy/open space quartz-carbonate veinlets common (<1 cm). Blocky and fractured core rock, dominantly at ~60° to core axis. Polymetallic sulphides present. Pyrite and galena occur as bands and veinlets while arsenopyrite and sphalerite are present as disseminations/blebs.							
						MD	GY	FR	SIL	3I	Py	0.5
									OXI	1I	Gn	0.3
											As	0.2
											Sp	0.1
79.50	80.55	1.05	SSS	FG	Similar to general description but with increased mineralization, generally carried in quartz-carbonate veinlets. Polymetallic sulphides occur mostly as semi-massive blebs in/along irregular veining structures. Preferred orientation appears to be at ~30° to core axis.							
						MD	GY	MO	SIL	3I	Py	0.7
						--	WH				Sp	0.7
											As	0.1
											Gn	0.3

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
80.55	84.48	3.93	SSS	FG	Similar to general description, decreased oxidation of fracture surfaces. Numerous narrow, irregular white quartz-carbonate veinlets (<0.1 cm wide). Trace narrow pyrite veinlets. @81.85 m - Diffused (~2.5 cm) silica flooded zone with semi-massive pyrite at ~35° to core axis.							
						MD	GY	FR	SIL	3I	Py	0.5
									OXI	1I	Gn	0.1
											As	0.1
84.48	85.33	0.85	SLT	VF	Interval with decreased silicification of the matrix and increased oxidation of fracture surfaces. Faintly bedded at ~40° to core axis. Increased sericite alteration(?). Rusty brown granular gouge on fractures. No significant sulphides noted.							
						MD	TN	BD	SIL	1I	--	0
									OXI	3I		
85.33	88.45	3.12	SLT	VF	Interval with decreased fracturing and veining structures. Matrix is weak-moderately silicified. Narrow pyrite veinlets present (<0.1 cm) and one localized band at 86.15 m with euhedral pyrite. Core rock is blocky and shattered.							
						MD	GY	BN	SIL	1I	Py	0.2
									OXI	1I		
88.45	93.43	4.98	SSS	FG	Strongly silicified interval, similar to general description with numerous tan-brown narrow, wispy and irregular bands, generally at ~50-60° to core axis. Sericite altered carbonate veinlets(?). Weak chlorite noted. Finely disseminated sulphides noted throughout the matrix.							
						MD	GY	MO	SIL	3I	Py	0.2
						DK	GY	SD	SER	2I	Po	0.3
								BN	CHL	1I		
									OXI	1I		
93.43	95.38	1.95	SSS	VF	Contact zone of siltstone with increasing silicification and medium brown/tan chert. "Fabric" at ~25° to core axis. Increased sulphide stringers. Chlorite noted associated with veinlets.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	TN	BN	SIL	3I	Py	0.2
						MD	BN		HEM	2I	Po	0.2
95.38	97.31	1.93	CHT	--	Similar to general description. Interval of blocky, shattered core rock. Iron oxide noted on all fracture surfaces. No preferred orientation measured. Rare-trace pyrite veinlets.							
						MD	BN	MA	OXI	3I	Py	0.1
						DK	BN	BK	HEM	3I		
97.31	100.83	3.52	CHT	--	Similar to general description, strongly silicified siltstone or chert. Patchy white silica flooded/bleached zones. Narrow pyritic veinlets appear to be associated to these. @99.71-99.76 m - Bleached silica band with blebby sulphides at ~60° to core axis.							
						MD	BN	MA	HEM	3I	Py	0.3
						DK	BN		SIL	4I	Po	0.1
100.83	104.39	3.56	SSS	FG	Siliceous Siltstone. Mottled light and medium grey, fine grained siliceous siltstone. Matrix is strongly silicified and weakly mixed with maroon cherty unit from uphole at ~102.5 m. Also appears to be weak chlorite and sericite altered. Moderate veining density, dominantly narrow, wispy, irregular carbonate veinlets, preferred orientation at ~40° to core axis. One quartz veinlet (~0.8 cm wide) noted. Trace amounts of sulphides, carried in narrow veinlets or as small blebs. Solid, competent core rock.							
						MD	GY	SD	SER	1I	Po	0.2
						LT	GY	BN	SIL	4I	Py	0.1
								MO	CHL	1I		
104.39	105.71	1.32	SLT	VF	Similar to general description with a greater percentage of the light grey siltstone bands. Slight increase in sulphide content.							
						LT	GY	BN	SIL	2I	Py	0.7
						DK	GY		CHL	1I	Po	1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
105.71	106.12	0.41	SSS	VF	Interval of mixed matrix, increased chlorite alteration (grey-green coloured matrix with white/cream quartz bands, at ~40° to core axis).							
						MD	GY	BN	CHL	2I	Py	0.3
						MD	GN				Po	0.3
106.12	106.88	0.76	SLT	VF	Similar to general description, interval of light-medium grey siltstone with "fabric" at ~40° to core axis. Trace pyrite and pyrrhotite in veinlets and in matrix.							
						MD	GY		CHL	1I	Po	0.1
						LT	GY	BN	SIL	2I	Py	0.2
106.88	109.79	2.91	SLT	VF	Similar to general description, interval of dark grey-black siltstone. Faint fabric at ~50° to core axis. Pyrite common as discontinuous wisps, while pyrrhotite is present as disseminated grains.							
						DK	GY	BN	SIL	2I	Py	1
						--	BK				Po	0.5
109.79	110.97	1.18	SLT	FG	Similar to general description, interval of light-medium grey siltstone.							
						MD	GY		CHL	1I	Po	0.5
						LT	GY	BN	SIL	2I	Py	0.7
110.97	112.06	1.09	SLT	VF	Similar to 106.88-109.79 m. Interval of dark grey-black siltstone, with wispy sulphides.							
						DK	GY	BN	SIL	2I	Py	0.7
						--	BK				Po	0.7
112.06	112.90	0.84	SLT	VF	Similar to general description, interval of light-medium grey siltstone, crosscut by sulphide bearing quartz-carbonate veinlets (<2 cm wide) at ~40° to core axis. Sulphides are blebby within veinlets.							
						MD	GY	BN	SIL	3I	Py	1
											Sp	0.1
									CHL	1I	Po	0.7
112.90	114.66	1.76	SLT	VF	Similar to general description, banded dark and light grey siltstone with wispy sulphides and weakly chlorite altered carbonate veinlets. Minor zones of blocky rubble.							
						MD	GY		CHL	1I	Po	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						DK	GY	BN	SIL	2I	Py	1
114.66	115.20	0.54	SLT	VF	Interval of blocky, rubbly dark grey siltstone, weak granular gouge with chlorite and weakly sericite. No significant sulphides.							
						DK	GY	EA	CHL	2I	--	0
								RB				
115.20	121.25	6.05	SSS	VF	Similar to general description. Banded siliceous siltstone with grey-green veinlets, generally at ~50° to core axis. Trace sulphides. @119.83-119.92 m - Band of silica flooding at ~60° to core axis with tension gashes and a core of the tan-grey-green mineral (stained quartz?)							
						MD	GY	---	SIL	1I	Py	0.1
									SER	1I	Po	0.1
121.25	121.77	0.52	CSL	FG	interval of light green-grey calcareous siltstone. Increased chlorite alteration of the matrix. No increase in sulphides.							
						MD	GY	---	SIL	3I	Py	0.1
						LT	GN		CAR	2I	Po	0.1
									CHL	2I		
121.77	125.03	3.26	SSS	VF	Similar to general with increased veining density of grey-green veinlets at ~55° to core axis. Pyrite and pyrrhotite occur as narrow discontinuous veinlets and as fine disseminations in the matrix.							
						MD	GY		CHL	1I	Po	0.1
						LT	GY	BN	SIL	4I	Py	0.1
									SER	1I		
125.03	129.36	4.33	SSS	FG	Possible "contact zone'. Interval of mottled siliceous siltstone, similar to 100.83-104.39 m. Matrix is strongly silicified with a mixed appearance with patchy sections of maroon chert/hematite alteration. Locally brecciated. Narrow tan-green veinlets become irregular and wispy. Disseminated sulphides throughout matrix.							
						MD	GY	MO	CHL	1I	Po	0.5
						LT	GY	SD	SIL	3I	Py	0.5
								BX				
								BN	SER	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
129.36	137.29	7.93	SSS	VF	Siliceous Siltstone. Dark grey-black, fine-very fine grained siliceous siltstone. Strongly silicified matrix with weak chlorite alteration. Low-moderate veining density with narrow quartz-carbonate veinlets and sulphide wisps and stringers. Preferred orientation at ~35° to core axis. Sulphides generally in veinlets and present in discontinuous wisps. Competent core rock with minor-moderate fracturing at ~40-50° to core axis. @136.53 m - Approximately 1.7 cm wide light grey zone of silica flooding/vein at ~20° to core axis.							
						DK	GY	BN	SIL	4I	Py	0.7
						--	BK		CHL	1I	Po	0.3
137.29	138.96	1.67	SSS	VF	Similar to general description, slightly les disrupted matrix, weak fabric can be noted at ~40° to core axis. Discontinuous sulphide bands noted.							
						MD	GY	MO	SIL	3I	Py	0.5
								BN			Po	0.7
138.96	139.12	0.16	SSS	VF	Band of light grey-cream siliceous siltstone, slight increase in sulphide content. Finely disseminated arsenopyrite(?) noted. "Contact" for interval at ~70° to core axis (vein?).							
						LT	GY	MO	SIL	4I	Py	0.5
											Po	0.7
											As	0.1
139.12	139.85	0.73	SSS	VF	Similar to general description, narrow chlorite altered quartz-carbonate veinlets present at ~50° to core axis.							
						MD	GY	BX	SIL	3I	Py	0.3
						DK	GY		CHL	1I	Po	0.5
139.85	140.11	0.26	SSS	VF	Light grey interval of siliceous siltstone, highly fractured with narrow quartz-carbonate veinlets. Contact at ~50° to core axis. Rare, finely disseminated arsenopyrite noted.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GY	MO	SIL	4I	Py	0.7
								FR	CHL	1I	Po	0.5
											As	0.1
140.11	143.57	3.46	SSS	VF	Similar to general , with much or intense mixing of the matrix. Preferred orientation appears to be at ~40° to core axis. Matrix textures are very mixed and disrupted. Bands are irregular and can be wispy or blebby, infilled with sericite. Polymetallic sulphides present.							
						LT	GY	MO	SIL	3I	Py	0.3
						DK	GY		SER	2I	As	0.1
						--	TN	SD	CHL	1I	Po	0.3
											Sp	0.1
143.57	145.42	1.85	SSS	VF	Similar to general description, mixed with bands of hematite altered chert(?). "Fabric" at ~40° to core axis. Decreased veining density with only one quartz-carbonate veinlet present. Blebby pyrite and pyrrhotite. Contact at ~50° to core axis.							
						MD	TN	MO	CHL	1I	Po	0.5
						DK	GY	BN	SIL	3I	Py	0.3
									SER	1I		
145.42	148.10	2.68	SSS	FG	Similar to general description, matrix is weakly bleached and strongly silicified. A "mixed" zone with patchy zones of tan-brown (hematite chert?) and has a weak brecciated appearance. Finely disseminated sulphides.							
						MD	GY	FR	HEM	1I	Po	0.1
						MD	TN	BN	SER	1I		
						LT	GY	MO	SIL	3I	Py	0.1
148.10	151.70	3.60	SSS	VF	Interval of interbedded siliceous units (siltstone and cherts) with maroon chert making up at ~40% of this interval. Beds are at ~30° to core axis. Contacts are weakly wavy with tan coloured alteration envelopes (sericite?). Slightly blocky core rock with fractures along bedding. No change in sulphide content.							
						MD	BN		HEM	2I	Po	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GY	BN	SIL	4I	Py	0.1
									CHL	1I		
151.70	154.04	2.34	SSS	FG	Similar to general description. Siliceous siltstone with bands of brown chert (~10% of the interval) and tan-green bands at ~35° to core axis with weak chlorite. Rare-trace finely disseminated sulphides.							
						MD	BN		SER	1I		
						MD	GY		HEM	1I	Po	0.1
						LT	GY	BN	SIL	3I	Py	0.1
									CHL	1I		
154.04	155.96	1.92	SSS	FG	Similar to 148.10-151.70 m. Interval with increased bands of maroon chert. Banding is not as clear in this interval, much more of a mottled appearance. Trace disseminated sulphides.							
						MD	BN	MO	HEM	2I	Po	0.1
						MD	GY	BN	SIL	3I	Py	0.1
									SER	1I		
155.96	160.68	4.72	SSS	FG	Similar to general description. Weakly bleached (?) light-medium, grey siliceous siltstone. Moderately fractured infilled with grey silica bands (<0.5 cm) at ~45° to core axis. These grey silica bands are cross-cut by wispy band of tan green (<0.7 cm) at 20³ to core axis (sericite or carbonate?). Finely blebby sulphides present throughout the matrix @156.67-156.79 m - medium green band of chlorite-sericite with increased pyrrhotite at ~65° to core axis. Weakly patchy textures. @158.39-158.46 m - Dark green chloritic band with carbonate veinlets and minor increase in pyrrhotite at ~70° to core axis.							
						MD	GY	FR	CHL	1I	Po	0.2
						LT	GY	BN	SIL	3I	Py	0.2
									SER	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
160.68	166.64	5.96	SLT	FG	Siltstone. Medium maroon, weak--moderately silicified siltstone. Faint banding/bedding present at ~35° to core axis. Brown colouring possibly due to moderate pervasive hematite alteration of the matrix. Low-moderate veining density, dominantly narrow white quartz-carbonate veinlets. Minor carbonate only clots also present scattered throughout the matrix. Trace amounts of blebby/disseminated sulphides, mostly along veining structures. Fairly competent core rock with blocky sections.							
						MD	TN	BN	SIL	2I	Py	0.1
						MD	BN		HEM	2I	Po	0.2
									CHL	1I		
									SER	1I		
166.64	167.90	1.26	FLR	--	Fault rock, matrix is soft and clay altered. Chlorite is present on fracture surfaces. Matrix appears to be brecciated and matrix supported. Lower contact at ~50° to core axis. No significant sulphides.							
						LT	GY	RB	CLY	1I	--	0
						LT	TN	BX	CHL	2I		
167.90	170.70	2.80	SSS	FG	Shattered zone of maroon, weakly silicified and chlorite altered siltstone. No significant sulphides.							
						MD	BN	BN	SIL	2I	--	0
								FR	CHL	2I		
170.70	173.00	2.30	SSS	VF	Interval of mostly shattered light grey siliceous siltstone with moderate localized chlorite alteration. Chlorite rich sections has slight increase in sulphide content and is strongly magnetic.							
						LT	GY	BN	SIL	3I	Py	0.2
						DK	GN	FR	CHL	2I	Po	0.2
173.00	177.16	4.16	FLR	--	Shattered core rock and rubble, host rock appears to be clay altered siliceous siltstone. Fragments show rare-disseminated sulphides.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY	RB	SIL	2I	Py	0.1
						DK	GY		CLY	2I		
177.16	179.33	2.17	SLT	VF	Interval of shattered siltstone, blocky and fragmented rock. Rare-trace disseminated pyrite.							
						DK	GY	FR	SIL	1I	Py	0.1
									SER	1I		
									CHL	3I		
179.33	186.60	7.27	SLT	FG	Faulted interval of mixed grey and maroon siltstone, weakly silicified matrix with localized moderate clay alteration. Blocky and shattered core rock, ~30% intact. Localized brecciated textures with weak clay matrix. Rare-trace blebby sulphides. @182.89-183.41 m - patch of increased sulphides, wispy, irregular bands at ~50° to core axis.							
						MD	GY	BN	SIL	2I	Py	0.2
						MD	BN	BK	HEM	1I	Po	0.2
						DK	TN	FR	SER	2I	Mg	0.1
								BX	CHL	1I		
186.60	187.80	1.20	FLR	--	Shattered, rubbly, gougey section. No significant sulphides noted. Lower contact at ~20° to core axis.							
						MD	TN	RB	SER	2I	--	0
									CHL	1I		
187.80	191.44	3.64	SLT	FG	Dark grey-black siltstone. Wispy pyritic veinlets noted at ~25° to core axis. Shattered core rock with ~40% intact. EOH at 191.44 m							
						DK	GY	RB	SER	1I	Py	0.5
						--	BK	BK	CHL	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	2.64	2.64	CAS	--	Casing/Overburden. No core recovery							
						--	--	---	---	--	--	0
2.64	10.89	8.25	CSL	FG	Banded Calcareous Siltstone. Light grey, moderate-strongly banded/sheared calcareous siltstone. Dark grey-black shears at ~40° to core axis and are non-calcareous. Matrix is very weakly silicified and oxidized on fractures. Low-moderate veining density, often narrow, irregular, oxidized carbonate veinlets, preferred orientation at ~45° to core axis. Rare-trace amounts of small blebby sulphides (pyrite and pyrrhotite noted) in localized zone. Core rock is competent with minor fracturing at ~30° to core axis.							
						LT	GY	BN	OXI	1I	Li	0.3
						DK	GY	SH	SIL	1I	Py	0.01
											Po	0.01
10.89	14.21	3.32	SSS	VF	Siliceous Siltstone. Contact zone(?). Light grey, strongly siliceous siltstone with localized patches of calcareous matrix. Strongly fractured and crosscut with narrow oxidized carbonate veinlets, no preferred orientation. Rare-trace disseminated sulphide (pyrite, pyrrhotite). Blocky, shattered core rock. No preferred fracturing orientation.							
						LT	GY	BD	SIL	3I	Py	0.1
						MD	GY	FR	OXI	2I	Po	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
14.21	71.13	56.92	SLT	VF	Siltstone. Medium-dark grey, very fine-fine grained siltstone. Weakly silicified matrix with faint fabric at ~40° to core axis. Localized bands (<4 cm) of lighter coloured calcareous matrix present. ~1-3% of the interval. Decreasing oxidation moving downhole. Low-moderate veining density, dominantly carbonate veinlets (<1.5 cm), preferred orientation at ~30-40° to core axis. Trace sulphides, generally pyrite carried in carbonate veinlets. Competent core rock with minor zones of fractured/blocky core (~10% of interval). Fracture dominantly at ~30° and ~60° to core axis.							
						DK	GY		OXI	1I		
						MD	GY	BD	SIL	1I	Py	0.1
71.13	73.73	2.60	SSS	FG	Mineralized Siliceous Siltstone. White-light grey, moderately foliated mineralized siliceous siltstone. Strongly silicified and bleached matrix. Weak-moderately oxidized along veinlets and fractures. Moderate veining density with sulphide veinlets and silica flooded bands (veins?) (<1.5 cm wide), generally oriented at ~50° to core axis. One set of low angled (<20° to core axis) veinlets also noted. Silica veinlets/veins are generally vuggy or have open spaces with euhedral quartz crystals. Polymetallic sulphide veinlets (pyrite, sphalerite, arsenopyrite, galena) present. Competent core rock with minor amounts of fracturing at ~50-60° to core axis.							
						--	WH		OXI	1I	Py	0.7
						--	CR		BLE	3I	Sp	1.5
											As	0.2
											Gn	0.1
						LT	GY	FO	SIL	4I	Li	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
73.73	93.43	19.70	SSS	FG	Siliceous Siltstone. Medium grey, fine grained siliceous siltstone. Moderately silicified matrix with weak-moderate oxidation noted on fracture surfaces. Weak chlorite alteration also seen. Moderate veining density, dominantly quartz veinlets with minor carbonates, often vuggy or with open space, preferred orientation at ~45-50° to core axis. Some lower angled veinlets also present. Polymetallic sulphides are present, mostly carried in quartz-carbonate veinlets or as semi-massive blebs. Core rock is hard but blocky with fractures commonly at ~40° to core axis and blocky rubble zones make up ~5-7% of this interval.						Gn	0.3
						MD	GY	FR	SIL	3I	Py	0.7
									OXI	1I	Po	0.5
											As	0.1
											Sp	0.5
93.43	100.83	7.40	CHT	--	Chert. Dark brown-maroon chert. Weak-moderately oxidized (mostly along fracture surfaces-iron oxides.) Possibly strongly silicified siltstone. Pervasive hematite alteration to give maroon colouring(?). Low veining density, generally narrow pyritic veinlets (<0.1 cm wide) at ~40° to core axis. Diffused white-light grey silica flooded/bleached bands also present at ~30° to core axis. Rare-trace sulphides, mostly occurring as narrow veinlets or as disseminated grains in silica banding. Hard, fairly competent core rock with one blocky/shattered zone at ~96.0-97.3 m.							
						MD	BN		OXI	1I	Po	0.1
						DK	BN	MA	HEM	3I	Py	0.1
						MD	TN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
100.83	104.39	3.56	SSS	FG	Siliceous Siltstone. Mottled light and medium grey, fine grained siliceous siltstone. Matrix is strongly silicified and weakly mixed with maroon cherty unit from uphole at ~102.5 m. Also appears to be weak chlorite and sericite altered. Moderate veining density, dominantly narrow, wispy, irregular carbonate veinlets, preferred orientation at ~40° to core axis. One quartz veinlet (~0.8 cm wide) noted. Trace amounts of sulphides, carried in narrow veinlets or as small blebs. Solid, competent core rock.							
						MD	GY	SD	SER	1I	Po	0.2
								MO	CHL	1I		
						LT	GY	BN	SIL	4I	Py	0.1
104.39	114.66	10.27	SLT	VF	Siltstone. Banded dark and medium grey-black siltstone, moderately silicified matrix. Banding "fabric" at ~35° to core axis. Weakly chlorite altered, mostly along veinlets. Low-moderate veining density, dominantly narrow, irregular while carbonate veinlets. Wispy, discontinuous pyritic stringer are also present. Sulphides occur as narrow, wispy veinlets or as disseminated blebs. Dominantly pyrite and pyrrhotite. Possible sphalerite(?). Competent, solid core rock with minor fracturing at ~25-35° to core axis.							
						DK	GY	BN	SIL	2I	Py	0.3
						LT	GY		CHL	1I	Po	0.2
											Sp	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
114.66	129.36	14.70	SSS	VF	Banded Siliceous Siltstone. Light-medium grey, siliceous siltstone. Matrix is moderate-strongly silicified with very weak hematite, and weak chlorite and sericite alteration. Faint fabric at ~55° to core axis. Moderate-high veining density, dominantly grey-green veinlets of varying thickness (<2 cm wide) at ~50-55° to core axis. Possibly sericite or stained silica(?). Trace sulphides present, generally occurring in narrow quartz-carbonate veinlets or rarely as finely disseminated grains in the matrix. Solid, competent core rock with minor fracturing at ~30° to core axis.							
						LT	GY	BN	SIL	4I	Py	0.1
						MD	GY		CHL	1I	Po	0.1
									SER	1I		
129.36	137.29	7.93	SSS	VF	Siliceous Siltstone. Dark grey-black, fine-very fine grained siliceous siltstone. Strongly silicified matrix with weak chlorite alteration. Low-moderate veining density with narrow quartz-carbonate veinlets and sulphide wisps and stringers. Preferred orientation at ~35° to core axis. Sulphides generally in veinlets and present in discontinuous wisps. Competent core rock with minor-moderate fracturing at ~40-50° to core axis.							
						--	BK		CHL	1I	Po	0.3
						DK	GY	BN	SIL	4I	Py	0.7

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
137.29	145.42	8.13	SSS	VF	Mixed Siliceous Siltstone. Similar to 100.83-104.39 m. Mottled and mixed siliceous siltstone. Strongly silicified matrix with localized sericite and chlorite alteration, mostly associated with veining structures. Moderate veining density, narrow white quartz-carbonate veinlets (<0.3 cm) common at ~35-40° to core axis. Tan-green irregular fracture infill also noted (sericite altered bands?) with no preferred orientation. Trace sulphides, generally occurring with veining structures. Competent core rock with minor fracturing at ~55-60° to core axis.							
						MD	TN	BX	SER	1I	As	0.1
						DK	GY	SD	CHL	1I	Po	1
						MD	GY	MO	SIL	3I	Py	0.5
145.42	160.68	15.26	SSS	FG	Bleached(?) Siliceous Siltstone. Light grey-white (bleached?) siliceous siltstone /quartzite(?) with minor sections of maroon chert. Strongly silicified matrix with localized pervasive hematite alteration (chert bands). Weak sericite alteration also noted, associated to veining structures. Moderate veining density with white quartz-carbonate veinlets (<0.3 cm) and irregular tan coloured bands (<2 cm). Preferred orientation for both at ~40-50° to core axis. Rare-trace disseminated pyrrhotite and pyrite noted. Hard and fairly competent core rock with minor fracturing at ~50° to core axis.							
						LT	GY	BN	SIL	3I	Py	0.1
						MD	GY	MO	HEM	1I	Po	0.1
									SER	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
160.68	166.64	5.96	SLT	FG	Siltstone. Medium maroon, weak--moderately silicified siltstone. Faint banding/bedding present at ~35° to core axis. Brown colouring possibly due to moderate pervasive hematite alteration of the matrix. Low-moderate veining density, dominantly narrow white quartz-carbonate veinlets. Minor carbonate only clots also present scattered throughout the matrix. Trace amounts of blebby/disseminated sulphides, mostly along veining structures. Fairly competent core rock with blocky sections.							
									CHL	1I		
						MD	BN		HEM	2I	Po	0.2
									SER	1I		
						MD	TN	BN	SIL	2I	Py	0.1
166.64	191.44	24.80	FLR	FG	Fault hosted in Siltstone. Strongly blocky, fractured, shattered core rock, likely fault zone. Host rock appears to be banded weak-moderately silicified/siliceous siltstone, similar to 145.42-160.68 m. Localized patches of hematite alteration present but decreases downhole. Weak-moderate pervasive chlorite and sericite noted. Bleached(?) light grey siltstone also seen. Core rock appears strongly fractured with irregular infill by tan coloured mineral (sericite or iron carbonate?). Rare-trace finely disseminated sulphides noted. Core rock is strongly shattered with ~20% of the interval being intact. EOH at 191.44 m.							
						MD	GY	BN	SIL	2I	Py	0.1
						MD	BN	FR	CHL	2I	Po	0.1
						LT	GY	BK	SER	2I		
								RB	HEM	1I		

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	2.64	2.64	0	0	0.00	0	0R	--	--	casing
2.64	5.00	2.36	2.28	97	0.98	42	1R	4H	3W	
5.00	8.00	3.00	2.9	97	2.43	81	3R	4H	2W	
8.00	11.00	3.00	3	100	1.91	64	1R	4H	3W	
11.00	14.00	3.00	2.22	74	0.75	25	1R	4H	3W	
14.00	17.00	3.00	2.54	85	1.55	52	1R	4H	3W	
17.00	20.00	3.00	3	100	2.49	83	1R	4H	2W	
20.00	23.00	3.00	3	100	2.68	89	1R	4H	2W	
23.00	26.00	3.00	2.77	92	2.35	78	1R	4H	2W	
26.00	29.00	3.00	2.83	94	1.93	64	1R	4H	3W	
29.00	32.00	3.00	3	100	2.07	69	1R	4H	3W	
32.00	35.00	3.00	2.84	95	1.97	66	1R	4H	3W	
35.00	38.00	3.00	3	100	2.33	78	1R	4H	2W	
38.00	41.00	3.00	3	100	2.98	99	1R	4H	2W	
41.00	44.00	3.00	2.91	97	2.75	92	1R	4H	2W	
44.00	47.00	3.00	2.97	99	2.45	82	0R	4H	2W	
47.00	50.00	3.00	2.89	96	2.89	96	0R	4H	2W	
50.00	53.00	3.00	2.64	88	2.16	72	0R	4H	2W	
53.00	56.00	3.00	2.73	91	2.02	67	0R	4H	2W	
56.00	59.00	3.00	2.73	91	1.82	61	0R	4H	1W	
59.00	62.00	3.00	2.45	82	0.90	30	0R	4H	1W	
62.00	65.00	3.00	2.36	79	0.89	30	0R	4H	1W	
65.00	68.00	3.00	2.85	95	1.73	58	0R	4H	1W	
68.00	71.00	3.00	2.88	96	2.08	69	1R	4H	1W	
71.00	74.00	3.00	2.95	98	1.99	66	0R	5H	2W	
74.00	77.00	3.00	2.95	98	1.25	42	0R	5H	3W	
77.00	80.00	3.00	3	100	1.13	38	0R	5H	3W	
80.00	83.00	3.00	3	100	2.07	69	0R	5H	2W	
83.00	86.00	3.00	2.83	94	1.87	62	0R	5H	3W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
86.00	89.00	3.00	2.74	91	1.13	38	0R	5H	3W	
89.00	92.00	3.00	2.99	100	1.46	49	0R	5H	3W	
92.00	95.00	3.00	2.87	96	1.96	65	0R	5H	3W	
95.00	98.00	3.00	3	100	1.36	45	0R	5H	3W	
98.00	101.00	3.00	2.87	96	2.58	86	0R	5H	2W	
101.00	104.00	3.00	2.52	84	2.66	89	0R	5H	1W	
104.00	107.00	3.00	2.93	98	2.38	79	0R	4H	1W	
107.00	110.00	3.00	3	100	2.40	80	0R	5H	1W	
110.00	113.00	3.00	2.89	96	2.65	88	0R	5H	1W	
113.00	116.00	3.00	2.9	97	1.73	58	0R	5H	1W	
116.00	119.00	3.00	3	100	2.95	98	0R	5H	1W	
119.00	122.00	3.00	2.99	100	2.56	85	1R	5H	1W	
122.00	125.00	3.00	2.94	98	2.56	85	1R	5H	1W	
125.00	128.00	3.00	2.96	99	2.87	96	0R	5H	1W	
128.00	131.00	3.00	2.98	99	2.46	82	0R	5H	1W	
131.00	134.00	3.00	2.96	99	2.45	82	0R	5H	1W	
134.00	137.00	3.00	2.94	98	2.86	95	0R	5H	1W	
137.00	140.00	3.00	2.96	99	2.92	97	0R	5H	2W	
140.00	143.00	3.00	2.97	99	2.92	97	0R	5H	1W	
143.00	146.00	3.00	2.99	100	2.57	86	1R	5H	1W	
146.00	149.00	3.00	3	100	2.96	99	0R	5H	1W	
149.00	152.00	3.00	2.82	94	1.90	63	0R	5H	1W	
152.00	155.00	3.00	2.97	99	2.59	86	0R	5H	1W	
155.00	158.00	3.00	3	100	2.58	86	1R	5H	1W	
158.00	161.00	3.00	2.96	99	2.20	73	1R	5H	1W	
161.00	164.00	3.00	2.89	96	2.43	81	1R	5H	1W	
164.00	167.00	3.00	3	100	0.92	31	0R	5H	1W	
167.00	170.00	3.00	2.42	81	0.59	20	0R	3H	4W	
170.00	173.00	3.00	2.95	98	0.65	22	0R	5H	3W	
173.00	176.00	3.00	1.21	40	0.00	0	0R	3H	5W	
176.00	179.00	3.00	2.53	84	0.12	4	0R	3H	4W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
179.00	182.00	3.00	1.82	61	0.56	19	0R	3H	3W	
182.00	185.00	3.00	2.92	97	0.83	28	1R	3H	3W	
185.00	188.00	3.00	2.9	97	0.51	17	1R	4H	3W	
188.00	191.00	3.00	2.48	83	1.11	37	1R	4H	3W	
191.00	191.44	0.44	0.42	95	0.00	0	0R	4H	3W	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
1	0	CAS	casing
2	0	CAS	casing
3	0.039	CSL	
4	0.292	CSL	
5	0.052	CSL	
6	0.136	CSL	
7	0.182	CSL	
8	0.162	CSL	
9	0.15	CSL	
10	0.259	CSL	
11	0.401	SSS	
12	0.265	SSS	
13	1.331	SSS	
14	0.017	SSS	
15	0.134	SLT	
16	2.871	SLT	
17	2.673	SLT	
18	0.695	SLT	
19	2.928	SLT	
20	0.663	SLT	
21	2.142	SLT	
22	0.925	SLT	
23	2.369	SLT	
24	2.247	SLT	
25	2.815	SLT	
26	3.465	SLT	
27	1.384	SLT	
28	1.472	SLT	
29	1.779	SLT	

Depth (m)	Magnetic Susceptibility	Unit	Comments
30	1.209	SLT	
31	1.201	SLT	
32	0.751	SLT	
33	0.45	SLT	
34	0.583	SLT	
35	0.67	SLT	
36	0.431	SLT	
37	1.056	SLT	
38	1.713	SLT	
39	4.195	SLT	
40	0.786	SLT	
41	1.662	SLT	
42	0.947	SLT	
43	1.091	SLT	
44	1.122	SLT	
45	2.028	SLT	
46	1.06	SLT	
47	1.238	SLT	
48	2.467	SLT	
49	1.163	SLT	
50	3.047	SLT	
51	2.169	SLT	
52	3.335	SLT	
53	1.056	SLT	
54	1.368	SLT	
55	1.875	SLT	
56	1.441	SLT	
58	0.492	SLT	
59	0.838	SLT	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
60	1.711	SLT	
61	5.568	SLT	
62	0.517	SLT	
63	2.733	SLT	
64	2.126	SLT	
65	1.322	SLT	
66	1.13	SLT	
67	1.078	SLT	
68	1.448	SLT	
69	6.793	SLT	
70	1.937	SLT	
71	0.435	SLT	
72	0.029	SSS	
73	0.099	SSS	
74	0.024	SSS	
75	0.007	SSS	
76	0.022	SSS	
77	0.01	SSS	
78	0.013	SSS	
79	0.01	SSS	
80	0.363	SSS	
81	0.011	SSS	
82	0.016	SSS	
83	0.007	SSS	
84	0.009	SSS	
85	0.036	SSS	
86	0.571	SSS	
87	1.206	SSS	
88	2.945	SSS	
89	0.068	SSS	
90	5.36	SSS	

Depth (m)	Magnetic Susceptibility	Unit	Comments
91	0.756	SSS	
92	4.069	SSS	
93	7.114	SSS	
94	1.976	CHT	
95	2.47	CHT	
96	0.367	CHT	
97	0.3	CHT	
98	0.279	CHT	
99	0.625	CHT	
100	2.399	CHT	
101	2.264	SSS	
102	2.857	SSS	
103	5.415	SSS	
104	8.868	SSS	
105	4.481	SLT	
106	4.892	SLT	
107	4.457	SLT	
108	3.975	SLT	
109	3.528	SLT	
110	5.23	SLT	
111	4.549	SLT	
112	3.547	SLT	
113	6.029	SLT	
114	5.453	SLT	
115	0.067	SSS	
116	1.183	SSS	
117	1.332	SSS	
118	1.819	SSS	
119	4.617	SSS	
120	1.802	SSS	
121	1.153	SSS	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
122	1.961	SSS	
123	1.765	SSS	
124	4.331	SSS	
125	2.906	SSS	
126	0.526	SSS	
127	1.745	SSS	
128	1.108	SSS	
129	3.122	SSS	
130	5.385	SSS	
131	4.125	SSS	
132	2.09	SSS	
133	3.66	SSS	
134	6.418	SSS	
135	1.39	SSS	
136	4.933	SSS	
137	6.687	SSS	
138	1.477	SSS	
139	2.928	SSS	
140	0.569	SSS	
141	7.064	SSS	
142	7.49	SSS	
143	8.639	SSS	
144	6.396	SSS	
145	6.557	SSS	
146	5.561	SSS	
147	5.96	SSS	
148	1.518	SSS	
149	1.275	SSS	
150	0.649	SSS	
151	0.104	SSS	
152	0.639	SSS	
153	0.131	SSS	
154	0.227	SSS	
155	0.164	SSS	
156	0.326	SSS	
157	1.221	SSS	
158	0.726	SSS	
159	2.234	SSS	
160	3.704	SSS	
161	1.018	SLT	
162	4.285	SLT	
163	0.897	SLT	
164	0.67	SLT	
165	0.493	SLT	
166	0.842	SLT	
167	0.214	FLR	
168	0.16	FLR	
169	0.083	FLR	
170	0.277	FLR	
171	1.073	FLR	
172	1.275	FLR	
173	146.8	FLR	
174	0	FLR	No MagSus taken due to low recovery
175	0.104	FLR	
176	0.077	FLR	
177	0.225	FLR	
178	0.343	FLR	
179	0.229	FLR	
180	0.316	FLR	
181	0.124	FLR	
182	0.188	FLR	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
183	0.223	FLR	
184	1.172	FLR	
185	1.409	FLR	
186	0.945	FLR	
187	0.048	FLR	
188	0.199	FLR	
189	0.124	FLR	
190	0.106	FLR	
191	0.044	FLR	EOH

Depth (m)	Magnetic Susceptibility	Unit	Comments

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Silver Range
Southwest Zone

Archer,Cathro & Associates (1981) Limited

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	K285799	13-O02	Core		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K285856	13-O02	Core		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K285795	13-O02	Core	K-2	☐	☐	☐
24.47	25.60	1.13	SLT	1.13	100	K285785	13-O01	Core		☐	☐	☐
30.49	33.22	2.73	SLT	2.73	100	K285786	13-O01	Core		☐	☐	☐
33.22	34.04	0.82	SLT	0.82	100	K285787	13-O02	Core		☐	☐	☐
38.00	40.12	2.12	SLT	2.12	100	K285788	13-O02	Core		☐	☐	☐
40.12	41.86	1.74	SLT	1.74	100	K285789	13-O02	Core		☐	☐	☐
41.86	43.24	1.38	SLT	1.32	96	K285790	13-O02	Core		☐	☐	☐
41.86	43.24	1.38	SLT	1.32	96	K285791	13-O02	Core		☐	☑	☐
43.24	45.12	1.88	SLT	1.88	100	K285792	13-O02	Core		☐	☐	☐
45.12	46.46	1.34	SLT	1.32	99	K285793	13-O02	Core		☐	☐	☐
65.58	68.43	2.85	SLT	2.52	88	K285794	13-O02	Core		☐	☐	☐
68.43	70.02	1.59	SLT	1.39	87	K285796	13-O02	Core		☐	☐	☐
70.02	71.13	1.11	SLT	1.10	99	K285797	13-O02	Core		☐	☐	☐
71.13	73.73	2.60	SSS, SLT	2.60	100	K285798	13-O02	Core		☐	☐	☐
73.73	75.41	1.68	SSS, SSS	1.68	100	K285800	13-O02	Core		☐	☐	☐
75.41	77.12	1.71	SSS	1.65	96	K285853	13-O02	Core		☐	☐	☐
77.12	79.50	2.38	SSS	2.38	100	K285854	13-O02	Core		☐	☐	☐
79.50	80.55	1.05	SSS	1.05	100	K285855	13-O02	Core		☐	☐	☐
80.55	82.31	1.76	SSS	1.75	99	K285857	13-O02	Core		☐	☐	☐
82.31	84.48	2.17	SSS	2.17	100	K285858	13-O02	Core		☐	☐	☐
103.35	104.39	1.04	SSS	1.04	100	K285859	13-O02	Core		☐	☐	☐
104.39	105.71	1.32	SLT, SSS	1.32	100	K285860	13-O02	Core		☐	☐	☐
111.71	113.00	1.29	SLT	1.28	99	K285861	13-O02	Core		☐	☐	☐
111.71	113.00	1.29	SLT	1.28	99	K285862	13-O02	Core		☐	☐	☑

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
138.96	140.11	1.15	SSS	1.13	98	K285863	13-O02	Core		☐	☐	☐
140.11	142.46	2.35	SSS	2.30	98	K285864	13-O02	Core		☐	☐	☐
142.46	143.57	1.11	SSS	1.09	98	K285865	13-O02	Core		☐	☐	☐
170.70	173.00	2.30	FLR	1.79	78	K285866	13-O02	Core		☐	☐	☐
189.56	191.44	1.88	FLR	1.71	91	K285867	13-O02	Core		☐	☐	☐

Sample Results

Batch	Sample	From (m)	To (m)	Ag g/t	Pb ppm	Zn ppm	Cu ppm	In ppm	Sn ppm	Au g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
13-O02	K285799	0.00	0.00	0.10	5	21	2	0.0	3	0.00	☐	☐	☑	☐	
13-O02	K285856	0.00	0.00	0.33	10	31	1	0.0	3	0.00	☐	☐	☑	☐	
13-O02	K285795	0.00	0.00	38.30	2790	9150	1060	9.2	171	0.01	☐	☐	☐	☑ K-2	
13-O01	K285785	24.47	25.60	1.31	42	12	83	0.0	7	0.00	☐	☐	☐	☐	
13-O01	K285786	30.49	33.22	0.54	9	81	14	0.0	6	0.00	☐	☐	☐	☐	
13-O02	K285787	33.22	34.04	0.45	8	358	16	0.0	3	0.00	☐	☐	☐	☐	
13-O02	K285788	38.00	40.12	0.78	9	266	14	0.0	8	0.00	☐	☐	☐	☐	
13-O02	K285789	40.12	41.86	0.28	4	18	9	0.0	7	0.00	☐	☐	☐	☐	
13-O02	K285791	41.86	43.24	0.31	4	51	11	0.0	8	0.00	☑	☐	☐	☐	
13-O02	K285790	41.86	43.24	0.30	4	22	12	0.0	8	0.00	☐	☐	☐	☐	
13-O02	K285792	43.24	45.12	0.35	4	16	13	0.0	9	0.00	☐	☐	☐	☐	
13-O02	K285793	45.12	46.46	0.32	4	15	16	0.0	9	0.00	☐	☐	☐	☐	
13-O02	K285794	65.58	68.43	0.30	5	17	10	0.0	6	0.00	☐	☐	☐	☐	
13-O02	K285796	68.43	70.02	3.67	131	232	62	0.1	18	0.00	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Ag g/t	Pb ppm	Zn ppm	Cu ppm	In ppm	Sn ppm	Au g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
13-O02	K285797	70.02	71.13	1.01	41	182	27	0.0	26	0.00	☐	☐	☐	☐	
13-O02	K285798	71.13	73.73	67.80	1980	4420	110	0.6	22	0.01	☐	☐	☐	☐	Mineralized zone
13-O02	K285800	73.73	75.41	0.63	14	32	20	0.0	21	0.00	☐	☐	☐	☐	
13-O02	K285853	75.41	77.12	1.26	6	35	13	0.0	8	0.00	☐	☐	☐	☐	
13-O02	K285854	77.12	79.50	49.20	1630	84	12	0.0	22	0.01	☐	☐	☐	☐	
13-O02	K285855	79.50	80.55	147.00	4860	14200	114	2.1	43	0.01	☐	☐	☐	☐	Mineralized zone
13-O02	K285857	80.55	82.31	14.25	374	59	40	0.0	3	0.00	☐	☐	☐	☐	
13-O02	K285858	82.31	84.48	1.76	24	118	22	0.0	11	0.00	☐	☐	☐	☐	
13-O02	K285859	103.35	104.39	0.84	14	193	79	0.0	10	0.00	☐	☐	☐	☐	
13-O02	K285860	104.39	105.71	0.85	17	433	83	0.1	6	0.00	☐	☐	☐	☐	
13-O02	K285862	111.71	113.00	0.84	20	424	79	0.1	7	0.00	☐	☑	☐	☐	
13-O02	K285861	111.71	113.00	0.83	20	424	79	0.1	8	0.00	☐	☐	☐	☐	
13-O02	K285863	138.96	140.11	0.49	8	16	51	0.0	16	0.00	☐	☐	☐	☐	
13-O02	K285864	140.11	142.46	0.79	13	2140	117	0.5	23	0.00	☐	☐	☐	☐	
13-O02	K285865	142.46	143.57	0.55	8	25	82	0.0	13	0.00	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Ag g/t	Pb ppm	Zn ppm	Cu ppm	In ppm	Sn ppm	Au g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
13-O02	K285866	170.70	173.00	0.33	5	116	96	0.0	5	0.01	☐	☐	☐	☐	
13-O02	K285867	189.56	191.44	0.92	6	52	56	0.0	5	0.00	☐	☐	☐	☐	EOH at 191.44 m

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Box Number	From (m)	To (m)
1	4.05	9.52
2	9.52	15.03
3	15.03	26

Box Number	From (m)	To (m)

Box Number	From (m)	To (m)

Keg - Silver Range

Archer, Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		581715	6946163	1358.03	26

ZONE: Owl Southwest

SECTION:

HOLE: OSW-13-007

CLAIM:

Contractor: Top Rank

Drill: 1

Core Size: NQ2

Casing Depth: 4m, Out

Drilling Dates: Jun 23 - Jun 25, 2013

Geology Logged By: C. Chung

SURVEY			
Depth (m)	Azimuth	Dip	Method
0	345	-50	Compass
0	345	-50	Compass

TARGET:

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	4	4	CAS
4	5.06	1.06	SLT
5.06	8.23	3.17	SLT
8.23	12.49	4.26	SLT
12.49	19.56	7.07	FLR
19.56	26	6.44	SLT

SAMPLES	
Numbers:	K285784
Total:	3
Batch:	O01
Certificates:	WH13129420, WH13137971

COMMENTS

Hole terminated due to stuck core barrel. Not redrilled

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	4.00	4.00	CAS	--	Casing/Overburden; no core recovery							
						--	--	---	---	--	--	0
4.00	5.06	1.06	SLT	FG	Mixed Rubble Zone. Likely not bedrock; interval of mixed rock fragments including dark grey siltstone and light grey/white strongly silicified siltstone/quartzite. Moderate-strongly weathered and oxidized. Fracture surfaces show weak-moderate limonite and iron oxide staining. Block, rubble core rock, mostly chips and redrilled fragments.							
						MD	GY	BK	OXI	2I	Li	1
						LT	GY	FR				
5.06	8.23	3.17	SLT	VF	Siltstone; Dark grey-black, very fine grained siltstone. Matrix is weakly silicified. Localized bands (<5 cm wide) of lighter grey colouring with a calcareous matrix makes up ~5% of the interval. Bands at ~60° to core axis. Moderate veining density, dominantly oxidized carbonate veinlets (<1 cm) noted, at ~30° and ~50° to core axis. Narrow oxidized brown-orange veinlets (<0.3 cm) seen, likely oxidized sulphide veinlets(?). Blebby pyrite present in most carbonate veinlets as well as finely disseminated grains throughout the matrix. Blocky core rock, fractures generally at ~50° to core axis and fracture surfaces are orange with limonite coating.							
						DK	GY	BD	OXI	3I	Py	0.5
						--	BK		SIL	1I	Li	1
8.23	12.49	4.26	SLT	VF	Core rock is soft and falls apart easily. Slightly blocky core. Fracture surfaces are irregular but are generally at ~60° to core axis.							
						DK	GY	BD	OXI	1I	Py	0.1
						--	BK	FR	CAR	2I		
						--	WH					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
12.49	19.56	7.07	FLR	FG	Fault hosted in Siltstone. Dark grey-black gougey, rubbly faulted rock. Host rock likely siltstone unit from uphole at 8.23-12.49 m. Matrix is weak-moderately calcareous. Matrix appears to have had moderate veining density, similar to unit uphole. White carbonate stringers are wispy, irregular and sheared. Rare-trace disseminated pyrite grains noted in matrix, decreasing downhole. Core rock is rubble and falls apart easily. One fracture/veining structure runs sub parallel to core axis for ~1 m. Gougey, clast supported becoming more matrix supported moving downhole (may be drilling related). Upper contact at ~60° to core axis while lower contact at ~40° to core axis.							
						DK	GY	SH	CAR	2I	Py	0.1
						--	BK	EA	OXI	1I		
19.56	20.00	0.44	SLT	VF	Similar to general description.							
						LT	GY		SIL	2I	Po	0.1
						DK	GY	BN	OXI	1I	Py	0.1
20.00	26.00	6.00	SLT	VF	Very poor recovery interval with only rock chips and no intact core rock.							
						DK	GY	FR	OXI	1I	Li	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	4.00	4.00	CAS	--	Casing/Overburden; no core recovery							
						--	--	---	---	--	--	0
4.00	5.06	1.06	SLT	FG	Mixed Rubble Zone. Likely not bedrock; interval of mixed rock fragments including dark grey siltstone and light grey/white strongly silicified siltstone/quartzite. Moderate-strongly weathered and oxidized. Fracture surfaces show weak-moderate limonite and iron oxide staining. Block, rubble core rock, mostly chips and redrilled fragments.							
						LT	GY	FR				
						MD	GY	BK	OXI	2I	Li	1
5.06	8.23	3.17	SLT	VF	Siltstone; Dark grey-black, very fine grained siltstone. Matrix is weakly silicified. Localized bands (<5 cm wide) of lighter grey colouring with a calcareous matrix makes up ~5% of the interval. Bands at ~60° to core axis. Moderate veining density, dominantly oxidized carbonate veinlets (<1 cm) noted, at ~30° and ~50° to core axis. Narrow oxidized brown-orange veinlets (<0.3 cm) seen, likely oxidized sulphide veinlets(?). Blebby pyrite present in most carbonate veinlets as well as finely disseminated grains throughout the matrix. Blocky core rock, fractures generally at ~50° to core axis and fracture surfaces are orange with limonite coating.							
						--	BK		SIL	1I	Li	1
						DK	GY	BD	OXI	3I	Py	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
8.23	12.49	4.26	SLT	VF	Siltstone. Dark grey-black, very fine grained siltstone, similar to 5.06-8.23 m, but much more fractured and cross-cut by narrow, wispy carbonate veinlets (tension gashes?). One large low angle vein appears to run approximately parallel to core axis (~2 cm wide). Multiple narrow stringer run perpendicular to that at ~50° to core axis Trace disseminated pyrite grains in matrix noted, but decreased amounts carried in veinlets. Core rock is soft and falls apart easily,. Slightly blocky core. Fracture surfaces are irregular but are generally at ~60° to core axis.							
						--	WH					
						--	BK	FR	CAR	2I		
						DK	GY	BD	OXI	1I	Py	0.1
12.49	19.56	7.07	FLR	FG	Fault hosted in Siltstone. Dark grey-black gougey, rubbly faulted rock. Host rock likely siltstone unit from uphole at 8.23-12.49 m. Matrix is weak-moderately calcareous. Matrix appears to have had moderate veining density, similar to unit uphole. White carbonate stringers are wispy, irregular and sheared. Rare-trace disseminated pyrite grains noted in matrix, decreasing downhole. Core rock is rubble and falls apart easily. One fracture/veining structure runs sub parallel to core axis for ~1 m. Gougey, clast supported becoming more matrix supported moving downhole (may be drilling related). Upper contact at ~60° to core axis while lower contact at ~40° to core axis.							
						--	BK	EA	OXI	1I		
						DK	GY	SH	CAR	2I	Py	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
19.56	26.00	6.44	SLT	VF	Banded Siltstone; Similar to siltstone unit at 5.06-8.23 m. Banded, dark grey-black siliceous siltstone and light grey calcareous siltstone. Calcareous bands make up ~35-40% of this interval. Bands are oriented at ~60° to core axis. Low-moderate veining density, narrow oxidized carbonate veinlets at ~40° to core axis, <0.5 cm wide). Trace disseminated to blebby sulphides, dominantly pyrite with minor pyrrhotite noted. Solid competent core rock, intact until ~20 m, minor fracturing along veining structures.							
						LT	GY		SIL	2I	Po	0.1
						DK	GY	BN	OXI	1I	Py	0.1

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From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	4.05	4.05	0	0	0.00	0	0R	--	--	Casing
4.05	5.00	0.95	0.95	100	0.00	0	0R	5H	3W	
5.00	8.00	3.00	2.13	71	0.85	28	1R	4H	3W	
8.00	11.00	3.00	2.82	94	1.66	55	3R	4H	3W	
11.00	14.00	3.00	2.85	95	1.96	65	1R	3H	4W	
14.00	17.00	3.00	1.66	55	0.66	22	1R	1H	5W	
17.00	20.00	3.00	0.89	30	0.28	9	1R	1H	5W	
20.00	23.00	3.00	0.09	3	0.00	0	1R	4H	4W	
23.00	26.00	3.00	0.09	3	0.00	0	1R	4H	4W	EOH

OSW-13-007

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
1	0	CAS	OVB
2	0	CAS	OVB
3	0	CAS	OVB
4	0	CAS	OVB
4	0	SLT	OVB
5	0.187	SLT	
6	0.258	SLT	
7	0.898	SLT	
8	0.29	SLT	
9	0.119	SLT	
10	0.06	SLT	
11	0.069	SLT	
12	0.081	SLT	
13	0.032	FLR	
14	0.037	FLR	
15	0.035	FLR	
16	0	FLR	No MagSus taken due to low recovery
17	0.037	FLR	
18	0	FLR	No MagSus taken due to low recovery
19	0	FLR	No MagSus taken due to low recovery
20	1.333	SLT	
21	0	SLT	No MagSus taken due to low recovery
22	0	SLT	No MagSus taken due to low recovery
23	0.364	SLT	
24	0	SLT	No MagSus taken due to low recovery
25	0	SLT	No MagSus taken due to low recovery
26	0.035	SLT	EOH

OSW-13-007

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
19.56	20.00	0.44	FLR, SLT	0.43	98	K285784	13-O01	Core		☐	☐	☐

Sample Results

Batch	Sample	From (m)	To (m)	Ag g/t	Pb ppm	Zn ppm	Cu ppm	In ppm	Sn ppm	Au g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
13-O01	K285784	19.56	20.00	3.42	129	35	49	0.0	7	0.00	☐	☐	☐	☐	

Box Log

VEN-13-001

Silver Range
Vent Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	7.87	13.42
2	13.42	19.24
3	19.24	23.78
4	23.78	29.77
5	29.77	35
6	35	43.87
7	43.87	50.99
8	50.99	59.67
9	59.67	65.2
10	65.2	73.66
11	73.66	79.1
12	79.1	84.77
13	84.77	90.4
14	90.4	100.29
15	100.29	106.2
16	106.2	111.28
17	111.28	116
18	116	121.24
19	121.24	125

Box Number	From (m)	To (m)

Box Number	From (m)	To (m)

Keg - Silver Range

Archer, Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		605673	6932114	1694.78	125

ZONE: Vent

SECTION:

HOLE: VEN-13-001

CLAIM:

Contractor: Top Rank

Drill: 2

Core Size: NQ2

Casing Depth: 7.87m, Out

Drilling Dates: Jun 16 - Jun 18, 2013

Geology Logged By: I. Ames

SURVEY			
Depth (m)	Azimuth	Dip	Method
0	325	-50	Compass
125	326.9	-52.8	Ranger

TARGET: ~80m

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	7.87	7.87	CAS
7.87	104.7	96.83	SLT
104.7	110.6	5.9	SSS
110.6	125	14.4	SLT

SAMPLES	
Numbers:	K285801 to K285819
Total:	21
Batch:	V01
Certificates:	WH13121814

COMMENTS

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
VEN-13-001									
	42.45	14.9	NQ2	SLT	657.1	405.4	2.2	2.6	
	87.92	14.4	NQ2	SLT	664	414	2.3	2.7	
	105.28	15	NQ2	SSS	760.1	463.4	2.5	2.6	

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	7.87	7.87	CAS	--	Casing							
						--	--	---	---	--	--	0
7.87	71.00	63.13	SLT	VF	Highly fractured medium grey bedded/laminated (30%) to massive (70%) siltstone. Beds/lamina are defined by planar to slightly anastomizing medium to dark grey layers that are oriented between 30-40 degrees TCA. Siliceous veinlets are pervasive throughout the unit, are milllimetric in width, and range from planar to undulating. These veinlets often show a prefered orientation 30-40 degrees to the core axis, not necessarily parallel with the bedding planes. These veinlets sporadically define a crackle breccia where their frequency and irregular shape permits. Sparse siliceous veins are 1-1.5 cm in width, vuggy, and share the same orientation as the thinner veinlets. Sparse sub-mm irregular shaped calcite veinlets can be found variably throughout the interval. Oxidation is most prevelent within siliceous veinlets and along fracture surfaces. Disseminated pyrite can be found within less oxidized siliceous veinlets. Evidence of strain is indicated by the undulating nature of lamina, as well as the offset of strata (lamina/beds) that is visible along sil.iceous veinlets.							
						MD	GY	BD	OXI	2I	Py	0.01
								ST				
								LA				
								FR				
71.00	90.00	19.00	SLT	VF	Same lithology as siltstone from 7.87-71 m. Differences arise in that this unit is much less oxidized along fracture surfaces and siliceous veinlets. There is also an increase in pyrite within the siliceous veinlets (most likely because it has not been weathered as strongly). There is an increase in the degree of deformation, as well as siliceous veining (irregular to undulating in shape, strongly oxidized) from 89-90 m, adjacent to contact with silicified siltstone.							
						MD	GY	BD	OXI	1I	Py	0.1
								SN				

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
								LA				
90.00	104.70	14.70	SSS	VF	Silicified very fine grained siltstone. Millimetric planar to highly irregular (especially noted in sub-mm veinlets) siliceous veinlets are present throughout. Beds/lamina occur intermittently, range from 0.1-2.0 cm in width, and show a preferential orientation approximately 40 degrees to the core axis. A 10 cm interval of silicified pebble conglomerate is present from 101.4-101.5 m. Oxidation is prevelent along siliceous veinlets and is most notable between 90-100 m. Disseminated pyrite is found throughout the silstone and within less oxidized siliceous veinlets. Evidence of strain is present, and is denoted by displacement along siliceous veinlets, undulating beds/lamina, and the presence of fault gouge/rubble between 90-93 m.							
						LT	GY	FR	SIL	3I	Py	0.1
								RB	OXI	2I		
104.70	110.60	5.90	SSS	VF	Discrete vuggy quartz veins (30%) enveloping cm-dm scale intervals/fragments of intensely silicified siltstone (70%). In some cases, the distinction between vein and host rock is difficult to make due to the extensiveness of silicification. Oxidation is prevelent along fracture surfaces, as well as within siliceous veinlets contained by the silstone intervals. Disseminated pyrite can be found throughout, cubic voids are also abundant and may be an indication of a weathered pyritic host silstone.							
						LT	GY	BX	SIL	5I	Py	0.1
								VU	OXI	3I		
110.60	125.00	14.40	SLT	VF	Moderately fractured, strained to brecciated siltstone. Siliceous veinlets are 1-5 mm thick, and range from planar to highly irregular in shape a distribution. Oxidation is prevelent along fracture surfaces and siliceous veinlets. Disseminated pyrite is found sporadically throughout the unit.							
						MD	GY	SN	OXI	1I	Py	0.1
								LA				
								BD				

VEN-13-001

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	7.87	7.87	CAS	--	Casing							
						--	--	---	---	--	--	0
7.87	104.70	96.83	SLT	VF								
								SN				
								FR	SIL	2I		
						MD	GY	BD	OXI	2I	Py	0.1
104.70	110.60	5.90	SSS	VF								
									OXI	3I		
						LT	GY	BX	SIL	5I	Py	0.1
110.60	125.00	14.40	SLT	VF								
								LA				
								BD				
						MD	GY	SN	OXI	1I	Py	0.1

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	7.87	7.87	0	0	0.00	0	0R	--	--	
7.87	8.00	0.13	0.11	85	0.00	0	0R	4H	4W	
8.00	11.00	3.00	1.26	42	0.12	4	0R	4H	4W	
11.00	14.00	3.00	2.32	77	1.05	35	0R	4H	3W	
14.00	17.00	3.00	2.25	75	0.95	32	0R	4H	3W	
17.00	20.00	3.00	2.16	72	1.10	37	0R	4H	3W	
20.00	23.00	3.00	2.64	88	0.16	5	0R	4H	4W	
23.00	26.00	3.00	1.86	62	0.28	9	0R	4H	4W	
26.00	29.00	3.00	1.64	55	0.51	17	0R	5H	4W	
29.00	32.00	3.00	1.64	55	0.32	11	0R	4H	4W	
32.00	35.00	3.00	2.55	85	0.33	11	0R	4H	4W	
35.00	38.00	3.00	1.13	38	0.00	0	0R	4H	3W	
38.00	41.00	3.00	0.52	17	0.00	0	0R	4H	3W	
41.00	44.00	3.00	1.92	64	0.81	27	0R	3H	3W	
44.00	47.00	3.00	0.62	21	0.15	5	0R	1H	3W	
47.00	50.00	3.00	2.34	78	1.20	40	0R	1H	3W	
50.00	53.00	3.00	2	67	0.21	7	0R	1H	4W	
53.00	56.00	3.00	1.04	35	0.13	4	0R	2H	4W	
56.00	59.00	3.00	1.13	38	0.62	21	0R	2H	2W	
59.00	62.00	3.00	2.68	89	2.00	67	0R	2H	3W	
62.00	65.00	3.00	2.35	78	1.41	47	0R	4H	4W	
65.00	68.00	3.00	1.43	48	1.27	42	0R	4H	2W	
68.00	71.00	3.00	1.9	63	1.49	50	0R	4H	3W	
71.00	74.00	3.00	2.09	70	1.22	41	0R	4H	3W	
74.00	77.00	3.00	3	100	2.53	84	0R	3H	2W	
77.00	80.00	3.00	2.97	99	2.61	87	0R	3H	3W	
80.00	83.00	3.00	2.77	92	2.38	79	1R	3H	2W	
83.00	86.00	3.00	3	100	3.00	100	1R	3H	2W	
86.00	89.00	3.00	2.92	97	2.52	84	0R	3H	3W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
89.00	92.00	3.00	1.43	48	0.78	26	0R	4H	4W	
92.00	95.00	3.00	1.38	46	0.54	18	0R	4H	4W	
95.00	98.00	3.00	1.1	37	0.14	5	0R	4H	4W	
98.00	101.00	3.00	1.31	44	0.11	4	0R	1H	3W	
101.00	104.00	3.00	3	100	2.65	88	0R	4H	2W	
104.00	107.00	3.00	2.87	96	2.07	69	0R	5H	3W	
107.00	110.00	3.00	2.73	91	0.69	23	0R	5H	3W	
110.00	113.00	3.00	3	100	1.32	44	0R	4H	4W	
113.00	116.00	3.00	2.7	90	0.70	23	1R	3H	4W	
116.00	119.00	3.00	2.68	89	1.06	35	1R	3H	4W	
119.00	122.00	3.00	3	100	1.87	62	1R	3H	2W	
122.00	125.00	3.00	3	100	2.47	82	1R	3H	2W	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
1	0	CAS	
2	0	CAS	
3	0	CAS	
4	0	CAS	
5	0	CAS	
6	0	CAS	
7	0	CAS	
8	0.205	SLT	
9	0.426	SLT	
10	0.151	SLT	
11	0.057	SLT	
12	0.054	SLT	
13	0.1	SLT	
14	0.074	SLT	
15	0.013	SLT	
16	0.022	SLT	
17	0.027	SLT	
18	0.034	SLT	
19	0.188	SLT	
20	0.669	SLT	
21	0.009	SLT	
22	0.007	SLT	
23	0.133	SLT	
24	0.203	SLT	
25	0.149	SLT	
26	0.012	SLT	
27	0.016	SLT	
28	0.007	SLT	
29	0.134	SLT	

Depth (m)	Magnetic Susceptibility	Unit	Comments
30	0.196	SLT	
31	0.014	SLT	
32	0.136	SLT	
33	0.107	SLT	
34	0.161	SLT	
35	0.005	SLT	
36	0.016	SLT	
37	0.015	SLT	
38	0.019	SLT	
39	0.105	SLT	
40	0	SLT	low recovery - no magsus measured
41	0.1	SLT	
42	1.073	SLT	
43	0.189	SLT	
44	0.355	SLT	
45	0	SLT	low recovery - no magsus measured
46	0.468	SLT	
47	0.313	SLT	
48	0.107	SLT	
49	0.157	SLT	
50	0.242	SLT	
51	0.528	SLT	
52	0.102	SLT	
53	0.017	SLT	
54	0.129	SLT	
55	0	SLT	low recovery - no magsus measured
56	0.252	SLT	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
57	0.157	SLT	
58	0	SLT	low recovery - no magsus measured
59	0.227	SLT	
60	0.136	SLT	
61	0.223	SLT	
62	0.122	SLT	
63	0.347	SLT	
64	0.231	SLT	
65	0.315	SLT	
66	0.073	SLT	
67	0	SLT	No MagSus taken due to low recovery
68	0.145	SLT	
69	0.127	SLT	
70	0	SLT	No MagSus taken due to low recovery
71	0.637	SLT	
72	0.153	SLT	
73	0.145	SLT	
74	0.393	SLT	
75	0.481	SLT	
76	0.086	SLT	
77	0.174	SLT	
78	0.19	SLT	
79	0.628	SLT	
80	0.17	SLT	
81	0.885	SLT	
82	0.095	SLT	
83	0.665	SLT	
84	0.5	SLT	
85	0.631	SLT	

Depth (m)	Magnetic Susceptibility	Unit	Comments
86	0.3	SLT	
87	1.027	SLT	
88	0.12	SLT	
89	0.884	SLT	
90	0.388	SLT	
91	0	SLT	No MagSus taken due to low recovery
92	0.243	SLT	
93	0.264	SLT	
94	0	SLT	No MagSus taken due to low recovery
95	0.004	SLT	
96	0.626	SLT	
97	0	SLT	No MagSus taken due to low recovery
98	0.074	SLT	
99	0.03	SLT	
100	0	SLT	No MagSus taken due to low recovery
101	0.283	SLT	
102	0.744	SLT	
103	0.553	SLT	
104	0.158	SLT	
105	0.184	SSS	
106	0.131	SSS	No MagSus taken due to low recovery
107	0.208	SSS	
108	0.127	SSS	
109	0.099	SSS	
110	0.363	SSS	
111	0.169	SLT	
112	0.725	SLT	
113	0.126	SLT	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
114	0.167	SLT	
115	0.247	SLT	
116	0.105	SLT	
117	0.674	SLT	
118	0.376	SLT	
119	0.113	SLT	
120	0.481	SLT	
121	0.331	SLT	
122	0.55	SLT	
123	0.094	SLT	
124	0.148	SLT	
125	0.886	SLT	EOH

Depth (m)	Magnetic Susceptibility	Unit	Comments

Sample Log

VEN-13-001

Silver Range
Vent Zone

Archer,Cathro & Associates (1981) Limited

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	K285814	13-V01	Core	K-3	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K285810	13-V01	Core		☑	☐	☐
86.00	89.00	3.00	SLT	2.92	97	K285801	13-V01	Core		☐	☐	☐
89.00	92.00	3.00	SLT	1.43	48	K285802	13-V01	Core		☐	☐	☐
92.00	95.00	3.00	SLT	1.38	46	K285803	13-V01	Core		☐	☐	☐
95.00	98.00	3.00	SLT	1.10	37	K285804	13-V01	Core		☐	☐	☐
98.00	101.00	3.00	SLT	1.31	44	K285805	13-V01	Core		☐	☐	☐
101.00	104.00	3.00	SLT	3.00	100	K285806	13-V01	Core		☐	☐	☐
104.00	104.80	0.80	SLT	0.80	100	K285807	13-V01	Core		☐	☐	☐
104.00	104.80	0.80	SLT	0.80	100	K285808	13-V01	Core		☐	☑	☐
104.80	106.20	1.40	SSS	1.34	96	K285809	13-V01	Core		☐	☐	☐
106.20	108.00	1.80	SSS	1.40	78	K285811	13-V01	Core		☐	☐	☐
108.00	110.00	2.00	SSS	1.63	82	K285812	13-V01	Core		☐	☐	☐
110.00	110.80	0.80	SSS	0.64	80	K285813	13-V01	Core		☐	☐	☐
110.80	112.00	1.20	SLT	1.16	97	K285815	13-V01	Core		☐	☐	☐
112.00	113.00	1.00	SLT	0.91	91	K285816	13-V01	Core		☐	☐	☐
113.00	116.00	3.00	SLT	2.70	90	K285817	13-V01	Core		☐	☐	☐
116.00	119.00	3.00	SLT	2.68	89	K285818	13-V01	Core		☐	☐	☐
119.00	121.00	2.00	SLT	1.86	93	K285819	13-V01	Core		☐	☐	☐

Sample Results

Batch	Sample	From (m)	To (m)	Ag g/t	Pb ppm	Zn ppm	Cu ppm	In ppm	Sn ppm	Au g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
13-V01	K285810	0.00	0.00	0.02	4	21	2	0.0	3	0.00	☐	☐	☑	☐	
13-V01	K285814	0.00	0.00	25.30	1500	14400	1860	27.3	273	0.02	☐	☐	☐	☑ K-3	
13-V01	K285801	86.00	89.00	0.46	22	317	36	0.0	3	0.00	☐	☐	☐	☐	
13-V01	K285802	89.00	92.00	13.50	2380	1350	74	0.6	30	0.00	☐	☐	☐	☐	
13-V01	K285803	92.00	95.00	8.39	1190	654	62	0.6	44	0.00	☐	☐	☐	☐	
13-V01	K285804	95.00	98.00	11.45	1425	867	52	0.2	21	0.00	☐	☐	☐	☐	
13-V01	K285805	98.00	101.00	2.20	74	273	11	0.0	3	0.00	☐	☐	☐	☐	
13-V01	K285806	101.00	104.00	1.19	45	1320	39	0.1	3	0.00	☐	☐	☐	☐	
13-V01	K285807	104.00	104.80	0.75	46	2420	34	0.0	11	0.00	☐	☐	☐	☐	
13-V01	K285808	104.00	104.80	0.82	45	2380	46	0.0	11	0.00	☑	☐	☐	☐	
13-V01	K285809	104.80	106.20	32.80	4490	787	83	0.2	16	0.00	☐	☐	☐	☐	
13-V01	K285811	106.20	108.00	1.04	124	493	20	0.0	3	0.00	☐	☐	☐	☐	
13-V01	K285812	108.00	110.00	1.44	115	174	15	0.1	5	0.00	☐	☐	☐	☐	
13-V01	K285813	110.00	110.80	3.17	213	466	51	0.3	14	0.00	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Ag g/t	Pb ppm	Zn ppm	Cu ppm	In ppm	Sn ppm	Au g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
13-V01	K285815	110.80	112.00	0.64	16	910	27	0.2	5	0.00	☐	☐	☐	☐	
13-V01	K285816	112.00	113.00	0.88	14	598	33	0.1	3	0.00	☐	☐	☐	☐	
13-V01	K285817	113.00	116.00	0.64	12	1550	33	0.1	3	0.00	☐	☐	☐	☐	
13-V01	K285818	116.00	119.00	0.47	10	813	22	0.0	3	0.00	☐	☐	☐	☐	
13-V01	K285819	119.00	121.00	0.58	15	1970	16	0.1	3	0.00	☐	☐	☐	☐	

Box Log

VEN-13-002

Silver Range Vent Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	7.72	12.64
2	12.64	17.32
3	17.32	22.06
4	22.06	26.79
5	26.79	31.9
6	31.9	36.58
7	36.58	41.4
8	41.4	46.82
9	46.82	51.96
10	51.96	57.74
11	57.74	63.03
12	63.03	67.73
13	67.73	73.37
14	73.37	78.48
15	78.48	83.93
16	83.93	89.26
17	89.26	94.86
18	94.86	100.61
19	100.61	106.21
20	106.21	111.81
21	111.81	117.48
22	117.48	123.21
23	123.21	128.66
24	128.66	134
25	134	139.44
26	139.44	144.88
27	144.88	150.41
28	150.41	155

Box Number	From (m)	To (m)

Box Number	From (m)	To (m)

Keg - Silver Range

Archer, Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		605657	6932132	1693.44	155

ZONE: Vent

SECTION:

HOLE: VEN-13-002

CLAIM:

Contractor: Top Rank

Drill: 2

Core Size: NQ2

Casing Depth: 7.72m, Out

Drilling Dates: Jun 19 - Jun 21, 2013

Geology Logged By: L. Pryer

SURVEY			
Depth (m)	Azimuth	Dip	Method
0	145	-50	Compass
155	249.7	-38.6	Ranger

TARGET: 125

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	7.72	7.72	CAS
7.72	8.07	0.35	SLC
8.07	22.85	14.78	SLT
22.85	29.05	6.2	SLT
29.05	52.52	23.47	SLT
52.52	59	6.48	SLT
59	67.24	8.24	SLT
67.24	77	9.76	SLT
77	93.78	16.78	SLT
93.78	95.18	1.4	SLT
95.18	111.34	16.16	SLT
111.34	122.4	11.06	SLT
122.4	128.41	6.01	SLT
128.41	130.79	2.38	CGL
130.79	140.98	10.19	SSS
140.98	144.95	3.97	SLT

SAMPLES	
Numbers:	K285820 to K285832
Total:	17
Batch:	V01
Certificates:	WH13121814

COMMENTS

144.95	149.53	4.58	CGL
149.53	155	5.47	SLT

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
VEN-13-002									
	42.85	15	NQ2	SLT	746	446.5	2.5	2.5	
	59.28	15.3	NQ2	SLT	781.6	475.2	2.5	2.6	
	116.63	14.8	NQ2	SLT	821.3	519.9	2.8	2.7	
	130.71	14.7	NQ2	CGL	806.7	511.1	2.7	2.7	
	150.28	14.8	NQ2	SLT	797.1	500.8	2.7	2.7	

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	7.72	7.72	CAS	--	Casing							
						--	--	---	---	--	--	0
7.72	8.07	0.35	SLC	FG	Same as general.							
						LT	GY	SU	ALT	4I	Py	0.1
8.07	22.85	14.78	SLT	FG	Same as general.							
						MD	BK	MA	OXI	2I	Li	1
22.85	24.90	2.05	SLT	FG	Highly oxi fracture surfaces. Show buff-yellow (limonite) gouge. Rock shows remnants of Silicic clasts up to 1cm.							
						MD	BK	MA	OXI	3I	Li	3
						LT	BF		CLY	2I		
24.90	26.79	1.89	CGL	MG	Pebble conglomerate. 5cm sub spherical angular clasts, which have undergone silicic replacement. Area shows a lot of jointing and 0.5cm Si veins.							
						MD	BK	BD	SIL	3I	--	0
									OXI	2I		
26.79	27.25	0.46	SLT	FG	Unaltered SLT with Carbonate nodules (3mm) and some 2cm vugs,							
						MD	BK	MA	---	--	--	0
27.25	29.05	1.80	SLT	FG	Same as general.							
						MD	BK	MA	OXI	2I	Li	2
									SIL	2I		
29.05	40.48	11.43	SLT	FG	Same as general.							
						MD	BK	BD	OXI	2I	--	0
									SIL	2I		
40.48	40.63	0.15	CGL	FG	1cm Pebble clasts. 5% of core.							
						MD	BK	BD	SIL	2I	--	0
40.63	41.40	0.77	SLT	FG	Same as general.							
						MD	BK	BD	SIL	2I	--	0
									OXI	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
41.40	43.45	2.05	SLT	FG	Heavily Si veined area (60%) forming a brecciated appearance. Veins stained red brown- iron Carbonate or oxidation. One 6cm section of 100% iron oxide appears to be an old iron rich bed.							
						MD	BK	BD	SIL	2I	Li	5
									OXI	2I		
43.45	49.20	5.75	SLT	FG	Same as general.							
						MD	BK	BD	SIL	2I	--	0
									OXI	2I		
49.20	49.88	0.68	SLT	FG	3mm deep vugs at 0TCA. Show Si, Fe Oxide, Chl and Albite infill.							
						MD	BK	BD	SER	2I	--	0
									CHL	3I		
49.88	52.52	2.64	SLT	FG	Same as general.							
						MD	BK	BD	SIL	2I	--	0
									OXI	2I		
52.52	56.96	4.44	SLT	FG	Same as general.							
						MD	GY	FR	---	--	--	0
56.96	57.74	0.78	MST	FG	Earthy granular gouge. Showing clay minerals and mud consistancy with some limonite.							
						MD	GY	EA	CLY	5I	Li	2
						LT	YW	RB				
57.74	59.00	1.26	SLT	FG	Same as general.							
						MD	GY	FR	---	--	--	0
59.00	61.48	2.48	SLT	FG	Same as general.							
						MD	BK	BD	OXI	2I	--	0
									SIL	2I		
61.48	61.78	0.30	SLT	FG	Large area of 80% silica and iron carbonate veinlets and veins forming a breccia with 20TCA preferred orientation. Pink-orange large Euhedral quartz (5cm).							
						MD	BK	FR	OXI	2I	He	2
61.78	64.64	2.86	SLT	FG	Same as general.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	BK	BD	OXI	2I	--	0
									SIL	2I		
64.64	65.07	0.43	SLT	FG	Veinletted area 1mm to give crackle breccia with Vugs at 30 TCA. Fine grained Limonite present. Vugs 1cm wide and pervasive. Very minor (0.1%) euhedral blebby py on joint surfaces in Iron oxide infill.							
						DK	GY	BD	OXI	2I	Li	3
								VU			Py	0.1
65.07	67.24	2.17	SLT	FG	Sane as general.							
						MD	BK	BD	OXI	2I	--	0
									SIL	2I		
67.24	71.36	4.12	SLT	VF	Same as general.							
						DK	BK	BD	OXI	1I	Py	0.01
											Li	0.01
71.36	71.42	0.06	SLT	VF	6cm broken up area showing slaty cleavage and laminations. Fracturing along these laminations.							
						DK	BK	LA	---	--	--	0
71.42	75.31	3.89	SLT	VF	Same as general.							
						DK	BK	BD	---	--	--	0
75.31	75.80	0.49	SLT	VF	More altered area showing Hematite, Limonite and euhedral pyrite. Also a white powdery mineral that expands with water but no HCL reaction.							
						MD	BK	BD	OXI	2I	Li	0.1
											Py	0.01
75.80	77.00	1.20	SLT	VF	Same as general.							
						DK	BK	BD	---	--	--	0
77.00	82.90	5.90	SLT	VF	Same as general.							
						DK	BK	BD	SER	2I	--	0
82.90	84.18	1.28	SLT	VF	More heavily altered area showing 60% Carbonate infill with euhedral pyrite and very minor galena.							
						DK	BK	BD	CAR	3I	Py	0.1
						DK	GN		SER	3I	Gn	0.01
84.18	93.78	9.60	SLT	VF	Same as general							
						DK	BK	BD	SER	2I	--	0
93.78	93.87	0.09	SLT	VF	Same as general.							
						DK	BK	BD	---	--	--	0

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
93.87	93.91	0.04	SLT	VF	Mottled 4cm patches at 65 TCA. Shows yellow-brown metallic siderite (white streak) altered to brown-red goethite (yellow-brown streak). 10% carbonate and minor euhedral pyrite.							
						DK	OR	MO	CAR	2I	Go	5
						DK	BK	BD	SID	4I	Si	10
											Py	0.1
93.91	95.00	1.09	SLT	VF	Same as general.							
						DK	BK	BD	---	--	--	0
95.00	95.18	0.18	SLT	VF	Same as previous (Mottled 4cm patches at 65 TCA. Shows yellow- brown metallic siderite (white streak) altered to brown-red goethite (yellow-brown streak). 10% carbonate and minor euhedral pyrite). Two 3cm thick separated by low angle goethite stringers.							
						DK	BK	BD	SID	4I	Si	10
						DK	OR		CAR	2I	Go	10
95.18	103.71	8.53	SLT	VF	Same as general.							
						MD	BK	BD	SIL	2I	--	0
								MA	CAR	2I		
103.71	104.44	0.73	SLT	VF	Extensive network of carbonate 60%, sericite 10%,pyrite 5% and silica 25% in siltstone. Possibly strain fracture infill							
						MD	BK	MA	SIL	3I	Py	0.1
									CAR	3I		
104.44	111.34	6.90	SLT	VF	Same as general.							
						MD	BK	MA	SIL	2I	--	0
									CAR	2I		
111.34	122.40	11.06	SLT	VF	Same as general.							
						MD	BK	BD	CAR	2I	Py	0.1
								SD	OXI	2I		
122.40	123.00	0.60	SLT	VF	40% silica replacement flooding.							
						MD	BK	SU				
						LT	GY	BD	SIL	2I	--	0
123.00	125.19	2.19	SLT	VF	<10% silica replacement.							
						MD	BK	SU				

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GY	BD	SIL	1I	--	0
125.19	127.12	1.93	SLT	VF	40% silica replacement/ flooding to give speckled appearance to the core.							
						MD	BK	SU				
						LT	GY	BD	SIL	3I	--	0
127.12	128.41	1.29	SLT	VF	Nearly 100% silica flooding. Quartzite like rock. Pale white.							
						LT	GY	SU	SIL	5I	--	0
128.41	130.79	2.38	CGL	MG	Same as general.							
						MD	BK	GR	CHL	2I	--	0
130.79	133.27	2.48	SSS	VF	Same as general.							
						LT	GY	SU	SIL	4I	Po	0.1
133.27	134.00	0.73	SSS	VF	Fractured area of siliceous flooded siltstone. Shows limonite on fractures.							
						LT	GY	SU	SIL	4I	Li	1
134.00	140.98	6.98	SSS	VF	Same as general.							
						LT	GY	SU	SIL	4I	--	0
140.98	142.57	1.59	SLT	MG	Same as general.							
						MD	BK	BD	SID	3I	--	0
142.57	142.80	0.23	SLT	MG	First sulphide rich zone. 3 x 7-10mm calcite veins with euhedral galena and arsenopyrite. Silica and goethite rich veins all at 50TCA.							
						MD	BK	BD	SID	3I	Si	1
									SIL	2I	Go	1
											Gn	0.5
											As	0.1
142.80	143.65	0.85	SLT	MG	Same as general.							
						MD	BK	BD	SID	3I	--	0
143.65	143.81	0.16	SLT	MG	Siderite, Goethite and galena rich. Preferred orientation 30TCA but non linear/planar. A veinlet web.							
						MD	BK	BD	---	--	Si	1
											Go	1
											Gn	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
143.81	144.88	1.07	SLT	MG	Same as general.							
						MD	BK	BD	SID	3I	--	0
144.88	144.95	0.07	SLT	MG	Final siderite vein at 65TCA.							
						MD	BL	BD	SID	3I	Si	1
											Go	1
144.95	146.33	1.38	CGL	MG	Same as general.							
						MD	GY	BD	SIL	2I	Si	1
											Po	1
146.33	146.63	0.30	CGL	MG	Siderite rich vein at 70TCA with parallel 1mm 100% po stringers.							
						MD	GY	BD	SID	3I	Si	2
											Po	2
146.63	149.53	2.90	CGL	MG	Same as general.							
						MD	GY	BD	SIL	2I	Py	1
											Po	1
149.53	154.05	4.52	SLT	FG	Same as general.							
						MD	BK	BD	---	--	Py	3
154.05	154.27	0.22	SLT	FG	Blebby Pyrrhotite stringers, 1cm. Cross cut carbonate veins. Same lithology as general. Pyrite also present in stringers.							
						MD	BK	BD	---	--	Py	5
											Py	1
154.27	155.00	0.73	SLT	FG	Same as general.							
						MD	BK	BD	---	--	Py	3

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	7.72	7.72	CAS	--	Casing							
						--	--	---	---	--	--	0
7.72	8.07	0.35	SLC	FG	30cm area of heavy replacement and recrystallization. Quartz dominant 60% but other phases ser/chl and py also present. Too FG to identify other phases.							
						LT	GY	SU	ALT	4I	Py	0.1
						LT	WH					
8.07	22.85	14.78	SLT	FG	Mainly unaltered black siltstone showing oxidation along joint surfaces and fractures, in rust brown colours, non-pervasive. No visible bedding. Yellow limonite present on fracture surfaces.							
						MD	BK	MA	OXI	2I	Li	1
22.85	29.05	6.20	SLT	FG	Same black siltstone lithology but showing more alteration than shallower section. Fracture surfaces are a paler yellow/ buff colour and more Si veining is present.							
						MD	BK	MA	OXI	2I	Li	2
									SIL	2I		
29.05	52.52	23.47	SLT	FG	Slt bedded on 1cm scale. Core shows some cherty texture. Si flooding. Oxidation on fracture surfaces, Lim (yellow buff orange). Some areas show mm scale laminations parallel to bedding. Bedding shows slight deformation.							
									SIL	2I		
						MD	BK	BD	OXI	2I	Li	1
52.52	59.00	6.48	SLT	FG	Similair bedded black siltstone with minor oxi on joints but highly fractured.							
						MD	BR					
						MD	OR	EA	CLY	3I		
						MD	GY	FR	OXI	2I	--	0

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
59.00	67.24	8.24	SLT	FG	bedded medium grey-black siltstone. Shows 1-5cm scale bedding. Fracture and joints show oxide coloured infill with some siliceous patches. Competent core. Fractures show some conchoidal nature suggesting minor chert presence 25%.							
						MD	BK	BD	OXI	2I	--	0
									SIL	2I		
67.24	77.00	9.76	SLT	VF	Siltstone with darker colour. Appears finer grained and with an increased carbon content. Veinlets minor with fine grained oxides and pyrite infill. Bedded on cm scale. Unaltered siltstone matrix. Some joints show up to 7mm vuggy iron oxide gouge.							
						DK	BK	BD	OXI	1I	Py	0.01
											Li	0.01
77.00	93.78	16.78	SLT	VF	Same siltstone with dark colour. Different to previous lithology as veinlets are primarily carbonate and unoxidised. Veinlets are 0.1mm. Lithology is bedded on cm scale and shows relict soft sediment deformation. Sericite and/ or chlorite alteration present on joints throughout section. Minor vuggy pyrite infill. Also 2-3mm carbon rich bands (beds?).							
						DK	BK	BD	SIL	1I	Py	0.01
									SER	2I		
									CHL	2I		
									CAR	2I		
93.78	95.18	1.40	SLT	VF	Siltstone with <1cm beds and carbon rich laminations. Rare (2%) 5-8mm rounded sub angular pebble clasts. Vuggy pyrite in veinlets. 2 areas of siderite veining (see detailed).							
						DK	BK	BD	---	--	Py	0.01
											Si	1
95.18	111.34	16.16	SLT	VF	Black siltstone with 10cm scale bedding tending towards massive. Shows 70% carbonate veinlets, 30% silica. Larger veinlets up to 7mm show blebs of euhedral pyrite and rare galena and minor sericite. Some soft sediment deformation seen. Very rare 1mm clasts.							
								MA	CAR	2I	Gn	0.01
						MD	BK	BD	SIL	2I	Py	0.01

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
111.34	122.40	11.06	SLT	VF	Black siltstone with cm scale bedding. Shows intense soft sediment deformation. Rare relict clasts. Veinlets 90%+ Carbonate with euhedral pyrite concretions. Minor oxidation on some joint surfaces.							
								SD	OXI	1I		
						MD	BK	BD	CAR	2I	Py	0.1
122.40	128.41	6.01	SLT	VF	Cm scale bedded siltstone showing extensive silicic flooding to give sucrosic texture and complete replacement in the most altered areas. Veinlets Carbonate. Pyrite grains scattered throughout core.							
						LT	GY	BD	SIL	3I	Py	0.1
						MD	BK	SU	OXI	2I		
128.41	130.79	2.38	CGL	MG	Heavily altered siltstone conglomerate with 40% (up to 2cm) pebble clasts. Silica flooding with extensive chlorite bands and possibly albite (propylitic alt?). Carbonate in veinlets and veins forming some vugs. 1mm Carbonate laminations.							
						MD	BK	GR	CHL	3I	--	0
						MD	GN		SIL	2I		
130.79	140.98	10.19	SSS	VF	Area of pervasive siliceous flooding and near complete replacement. Silica and oxide rich (<20% carbonate) veins and veinlets crosscut core. Relict bedding clear in some areas but mainly overprinted by sucrosic texture. Pyrrhotite occurs as 1mm aggregations in patches throughout the core. Highest concentration at 131.15m.							
											Py	0.1
						LT	GY	SU	SIL	4I	Po	0.1
140.98	144.95	3.97	SLT	MG	Bedded siltstone with 2% pebble conglomerate beds. Bedding on cm scale. Veining primarily carbonate and chlorite. Numerous sulphides present throughout. Galena and arsenopyrite occur as blebs in carbonate veinlets. Siderite and goethite occur in 2 areas @ 142.80m and 143.70m also shows galena crystals. Whole rock shows minor silica flooding and carbon rich laminations.							
											Py	0.5
											As	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
											Gn	0.5
						MD	BK	BD	SID	3I	Si	1
									SIL	2I	Go	1
144.95	149.53	4.58	CGL	MG	Bedded pebble conglomerate siltstone showing pyrite in conglomerate matrix and as a blebby massive phase. Minor (20%) silicic flooding. Pyrrhotite stringers present throughout the conglomerate. Some carbonate veining but dominantly siliceous.							
						MD	GY	BD	SIL	2I	Py	1
											Si	1
											Po	1
149.53	155.00	5.47	SLT	FG	Mm scale bedded siltstone with pyrite rich beds (80% of bed). Dark carbon rich laminations. Carbonate veinlets 0.1-0.3mm. 2% conglomerate beds. Unlatered.							
						MD	BK	BD	---	--	Py	3

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	7.72	7.72	0	0	0.00	0	0R	--	--	casing
7.72	8.00	0.28	0.27	96	0.00	0	0R	5H	3W	
8.00	11.00	3.00	1.91	64	0.33	11	0R	4H	3W	
11.00	14.00	3.00	2.93	98	0.93	31	0R	4H	3W	
14.00	17.00	3.00	2.73	91	1.71	57	0R	4H	3W	
17.00	20.00	3.00	1.93	64	1.26	42	0R	4H	3W	
20.00	23.00	3.00	2.99	100	0.50	17	0R	4H	3W	
23.00	26.00	3.00	2.74	91	0.60	20	0R	5H	3W	
26.00	29.00	3.00	2.48	83	0.69	23	0R	4H	3W	
29.00	32.00	3.00	2.57	86	0.49	16	0R	4H	3W	
32.00	35.00	3.00	2.9	97	1.00	33	0R	5H	3W	
35.00	38.00	3.00	2.88	96	0.39	13	0R	4H	3W	
38.00	41.00	3.00	2.91	97	0.84	28	0R	4H	3W	
41.00	44.00	3.00	3	100	2.14	71	0R	4H	3W	
44.00	47.00	3.00	3	100	1.74	58	0R	4H	3W	
47.00	50.00	3.00	2.42	81	1.53	51	0R	4H	3W	
50.00	53.00	3.00	2.89	96	1.03	34	0R	4H	3W	
53.00	56.00	3.00	1.53	51	0.12	4	0R	4H	4W	
56.00	59.00	3.00	2.51	84	0.11	4	0R	4H	5W	
59.00	62.00	3.00	3	100	2.37	79	0R	4H	3W	
62.00	65.00	3.00	2.96	99	2.38	79	0R	4H	2W	
65.00	68.00	3.00	2.97	99	0.68	23	0R	4H	3W	
68.00	71.00	3.00	2.94	98	2.48	83	0R	4H	2W	
71.00	74.00	3.00	2.99	100	2.51	84	0R	4H	2W	
74.00	77.00	3.00	3	100	1.66	55	0R	4H	2W	
77.00	80.00	3.00	3	100	2.45	82	1R	4H	2W	
80.00	83.00	3.00	2.86	95	2.55	85	1R	4H	1W	
83.00	86.00	3.00	2.92	97	1.08	36	1R	3H	1W	
86.00	89.00	3.00	3	100	2.47	82	1R	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
89.00	92.00	3.00	3	100	2.48	83	1R	3H	1W	
92.00	95.00	3.00	3	100	3.00	100	1R	3H	1W	
95.00	98.00	3.00	2.94	98	2.92	97	1R	3H	1W	
98.00	101.00	3.00	2.96	99	2.78	93	1R	3H	1W	
101.00	104.00	3.00	3	100	2.80	93	1R	3H	1W	
104.00	107.00	3.00	2.94	98	2.94	98	1R	3H	1W	
107.00	110.00	3.00	2.98	99	2.52	84	1R	3H	1W	
110.00	113.00	3.00	3	100	2.95	98	1R	3H	1W	
113.00	116.00	3.00	3	100	2.95	98	1R	3H	2W	
116.00	119.00	3.00	2.99	100	2.23	74	1R	3H	2W	
119.00	122.00	3.00	2.97	99	2.88	96	1R	3H	2W	
122.00	125.00	3.00	2.97	99	2.21	74	1R	3H	2W	
125.00	128.00	3.00	2.96	99	2.52	84	1R	3H	2W	
128.00	131.00	3.00	2.94	98	2.80	93	3R	5H	2W	
131.00	134.00	3.00	3	100	1.31	44	1R	5H	3W	
134.00	137.00	3.00	2.89	96	2.82	94	1R	5H	2W	
137.00	140.00	3.00	3	100	2.11	70	1R	5H	2W	
140.00	143.00	3.00	3	100	2.75	92	1R	5H	2W	
143.00	146.00	3.00	3	100	3.00	100	1R	5H	1W	
146.00	149.00	3.00	2.97	99	2.97	99	1R	5H	1W	
149.00	152.00	3.00	2.92	97	2.92	97	1R	5H	1W	
152.00	155.00	3.00	3	100	3.00	100	1R	5H	1W	EOH

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
1	0	CAS	casing
2	0	CAS	casing
3	0	CAS	casing
4	0	CAS	casing
5	0	CAS	casing
6	0	CAS	casing
7	0	CAS	casing
8	2.096	SLC	
9	0.141	SLT	
10	0.052	SLT	
11	0.061	SLT	
12	0.029	SLT	
13	0.046	SLT	
14	0.314	SLT	
15	0.061	SLT	
16	0.068	SLT	
17	0.071	SLT	
18	0.073	SLT	
19	0.053	SLT	
20	0.198	SLT	
21	0.154	SLT	
22	0.57	SLT	
23	0.049	SLT	
24	0.053	SLT	
25	0.042	SLT	
26	0.016	SLT	
27	0.07	SLT	
28	0.158	SLT	
29	0.048	SLT	

Depth (m)	Magnetic Susceptibility	Unit	Comments
30	0.235	SLT	
31	0.034	SLT	
32	0.118	SLT	
33	0.101	SLT	
34	0.174	SLT	
35	0.112	SLT	
36	0.109	SLT	
37	0.229	SLT	
38	0.139	SLT	
39	0.118	SLT	
40	0.055	SLT	
41	0.123	SLT	
42	0.079	SLT	
43	0.063	SLT	
44	0.191	SLT	
45	0.089	SLT	
46	0.199	SLT	
47	0.278	SLT	
48	0.208	SLT	
49	0.061	SLT	
50	0.045	SLT	
51	0.107	SLT	
52	0.206	SLT	
53	0.106	SLT	
54	0.02	SLT	
55	0.152	SLT	
56	0.123	SLT	
57	0.054	SLT	
58	0.045	SLT	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
59	0.152	SLT	
59	0.152	SLT	
60	0.191	SLT	
61	0.105	SLT	
62	0.134	SLT	
63	0.08	SLT	
64	1.035	SLT	
65	0.17	SLT	
66	0.114	SLT	
67	0.144	SLT	
68	0.131	SLT	
69	0.242	SLT	
70	0.169	SLT	
71	0.198	SLT	
72	0.913	SLT	
73	0.419	SLT	
74	0.284	SLT	
75	0.345	SLT	
76	0.462	SLT	
77	0.536	SLT	
77	0.536	SLT	
78	0.537	SLT	
79	0.7	SLT	
80	0.9	SLT	
81	2.157	SLT	
82	1.272	SLT	
83	0.492	SLT	
84	0.607	SLT	
85	3.306	SLT	
86	0.904	SLT	
87	1.566	SLT	

Depth (m)	Magnetic Susceptibility	Unit	Comments
88	0.61	SLT	
89	1.395	SLT	
90	1.502	SLT	
91	2.37	SLT	
92	0.465	SLT	
93	1.215	SLT	
94	0.476	SLT	
95	0.329	SLT	
96	0.751	SLT	
97	0.622	SLT	
98	0.878	SLT	
99	1.25	SLT	
100	1.128	SLT	
101	0.964	SLT	
102	0.848	SLT	
103	0.711	SLT	
104	0.251	SLT	
105	0.377	SLT	
106	1.02	SLT	
107	0.585	SLT	
108	1.048	SLT	
109	1.188	SLT	
110	1.172	SLT	
111	1.042	SLT	
112	0.82	SLT	
113	0.172	SLT	
114	1.276	SLT	
115	0.264	SLT	
116	0.833	SLT	
117	0.836	SLT	
118	0.501	SLT	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
119	0.677	SLT	
120	1.432	SLT	
121	4.048	SLT	
122	1.755	SLT	
123	1.955	SLT	
124	1.074	SLT	
125	1.442	SLT	
126	0.906	SLT	
127	1.003	SLT	
128	2.498	SLT	
129	7.169	CGL	
130	4.133	CGL	
131	1.22	SSS	
132	0.428	SSS	
133	0.024	SSS	
134	0.051	SSS	
135	0.193	SSS	
136	0.032	SSS	
137	0.668	SSS	
138	2.529	SSS	
139	0.037	SSS	
140	0.017	SSS	
141	0.054	SLT	
142	0.033	SLT	
143	3.028	SLT	
144	4.723	SLT	
145	5.069	CGL	
146	0.053	CGL	
147	0.603	CGL	
148	2.869	CGL	
149	7.054	CGL	
150	0.809	SLT	
151	1.877	SLT	
152	7.684	SLT	
153	1.31	SLT	
154	10.51	SLT	
155	1.213	SLT	EOH

Sample Log

VEN-13-002

Silver Range
Vent Zone

Archer,Cathro & Associates (1981) Limited

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	K285824	13-V01	Core		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K285822	13-V01	Core	K-4	☐	☐	☐
93.69	95.22	1.53	SLT	1.53	100	K285820	13-V01	Core		☐	☐	☐
131.02	131.64	0.62	SSS	0.62	100	K285821	13-V01	Core		☐	☐	☐
142.43	143.00	0.57	SLT	0.57	100	K285823	13-V01	Core		☐	☐	☐
143.00	144.00	1.00	SLT	0.98	98	K285825	13-V01	Core		☐	☐	☐
144.00	145.04	1.04	SLT	1.04	100	K285826	13-V01	Core		☐	☐	☐
145.04	146.27	1.23	CGL	1.23	100	K285827	13-V01	Core		☐	☐	☐
146.27	146.67	0.40	CGL	0.40	100	K285828	13-V01	Core		☐	☐	☐
146.67	148.74	2.07	CGL	2.03	98	K285829	13-V01	Core		☐	☐	☐
146.67	148.74	2.07	CGL	2.03	98	K285830	13-V01	Core		☐	☐	☑
148.74	149.00	0.26	CGL	0.26	100	K285831	13-V01	Core		☐	☐	☐
154.00	155.00	1.00	SLT	1.00	100	K285832	13-V01	Core		☐	☐	☐

Sample Results

Batch	Sample	From (m)	To (m)	Ag g/t	Pb ppm	Zn ppm	Cu ppm	In ppm	Sn ppm	Au g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
13-V01	K285822	0.00	0.00	15.55	1030	3250	801	2.3	170	0.00	☐	☐	☐	☑ K-4	
13-V01	K285824	0.00	0.00	0.01	1	21	2	0.0	3	0.00	☐	☐	☑	☐	
13-V01	K285820	93.69	95.22	2.42	44	18800	36	0.2	3	0.01	☐	☐	☐	☐	
13-V01	K285821	131.02	131.64	0.27	41	680	10	0.0	3	0.00	☐	☐	☐	☐	
13-V01	K285823	142.43	143.00	1.14	166	8400	18	0.1	3	0.01	☐	☐	☐	☐	
13-V01	K285825	143.00	144.00	1.01	10	17800	23	0.1	3	0.01	☐	☐	☐	☐	
13-V01	K285826	144.00	145.04	0.74	16	4470	17	0.0	3	0.01	☐	☐	☐	☐	
13-V01	K285827	145.04	146.27	0.38	12	295	11	0.0	3	0.00	☐	☐	☐	☐	
13-V01	K285828	146.27	146.67	0.23	12	4000	8	0.1	3	0.00	☐	☐	☐	☐	
13-V01	K285830	146.67	148.74	0.54	20	723	14	0.0	3	0.00	☐	☑	☐	☐	
13-V01	K285829	146.67	148.74	0.52	20	750	14	0.0	3	0.00	☐	☐	☐	☐	
13-V01	K285831	148.74	149.00	1.06	96	544	36	0.0	3	0.00	☐	☐	☐	☐	
13-V01	K285832	154.00	155.00	0.61	16	20	12	0.0	3	0.00	☐	☐	☐	☐	

APPENDIX VII

WATER QUALITY AND CLIMATE REPORTS – J. GIBSON ENVIRONMENTAL CONSULTING

Silver Range Resources

KEG PROJECT

Baseline Water Quality / Hydrology Survey

Environmental Data Update

December, 2013

J.Gibson Env. Consulting ***Whitehorse, Yukon***

KEG Project December 2013

Silver Range Resources baseline water quality / hydrology surveys of the KEG Claims surface waters continued in December 2013 at monthly stations. Keg stations were scheduled for "quarterly" sampling in December but this was delayed to January due to poor weather and low daylight hours in December.

KEG stations #1, #2, #3, #4, #5, #6 and #9 are on a monthly frequency as of November 2012. All other stations remain on a quarterly sampling frequency.

The sites are located in the Anvil Range approximately 30 kilometers north of Faro, Yukon and 15 kilometers north of the former Faro Mine.

The KEG Claims are located on tributaries to the Tay River.

All surface waters are tributaries to the Pelly River.

All survey sites were accessed by helicopter.

The baseline survey consisted of water quality samples for routine chemistry, total metals, dissolved metals, total organic carbon, total cyanide and total mercury with field measurements for pH, water temperature and flow volume measurements.

Sample Locations

Nine water quality sample sites were established on the KEG Claims during the initial survey in August 2010.

Four sites were added in October 2010 on the eastern limits of the expanded claim block.

All sites are on the attached location map.

Sample Analysis Parameters

KEG stations were sampled for total metals, dissolved metals, routine chemistry, total organic carbon, total cyanide and total mercury.

Dissolved metals samples were filtered onsite using disposable 60 ml syringes and 0.45 micron filters. New syringes and filters were used for each station.

Total and Dissolved metal samples were preserved with nitric acid, Total Organic Carbon with HCL and Total Cyanide with NA0H immediately after sampling.

New B.C. Ministry of Environment protocols require total mercury to be sampled in a 125 ml glass bottle with a Teflon lid and be preserved with HCL. The new protocol was initiated in November Keg sampling.

All samples were stored in coolers, kept at 4 Celsius and shipped by air cargo to the Exova Canada Inc. laboratory in Surrey B.C. for analysis within recommended holding times.

Field measurements for pH and conductivity were taken with an Oakton PCS TestR 35, water temperatures with a digital thermometer.

Flow Volume Measurements

One flow measurement (KEG #1) was done in December 2013.

All stream channels were under total ice cover.

In December, Stations KEG#2 and #5 had no flow with ice to the channel base.

A summary of KEG stream flow volumes for 2012 and 2013 are in Table 4.

Stream flow volumes data / calculations are attached in Appendix 2.

Keg Weather Station

An operational check in December showed all sensors operating. There was heavy frost on the sensors.

Analysis Results

Laboratory analysis and field measurement results are listed in the following tables:

Table 1.December 2013 KEG Monthly Stations Routine Chemistry – Laboratory Analytical results and field measurements

Table 2.December 2013 KEG Monthly Stations Total Metals ICP–MS Laboratory Analytical results

Table 3.December 2013 KEG Monthly Stations Dissolved Metals ICP–MS Laboratory Analytical results

Table 4.KEG Stations Flow Volume Summary 2012 and 2013.

Table 5. December 2013 Quality Control Sample Analytical Results at KEG #1

As a guide for reviewing site water quality, the Maximum Acceptable Concentration (MAC) according to ***Canadian Drinking Water Quality*** are listed along with the Aquatic Guidelines for the protection of aquatic life in water with a pH of > 6.5 and a total hardness as CaC03 > 180 mg/L according to ***CCME – Canadian Water Quality Guidelines.***
All water quality ***Guideline*** concentrations are based on total metal values.

All laboratory analysis was done by Exova Canada Inc of Surrey B.C.

Laboratory Analytical Reports are attached in Appendix 1.

Data Summaries for each station are on the attached Excel disc.

Quality Control

Total and dissolved metals duplicate samples were taken at KEG #1 for quality control.in December 2013.

Quality control analysis results are listed in Table 5.

Table 1.Silver Range Resources - KEG Claims December, 2013.
Routine Chemistry and Field Measurement Results

Parameter	Unit	STATIONS KEG #1	KEG #2	KEG #3	KEG #4	KEG #5	KEG #6	KEG #7	DWQ* G.lines	Aquatic** G.lines
Monitoring Frequency		***Monthly***	***Monthly***	***Monthly***	***Monthly***	***Monthly***	***Monthly***	***Quarterly***		
pH (field)	ru	7.9		7.92	8.10		6.9			
pH (lab)	ru	7.82		7.84	7.91		6.56		6.5-8.5	6.5-9
Electrical Conductivity (lab)		399	No	164	398	No	391			
Water temperature	C	0	Flow	0	-0.1	Flow	0.2			
Flow Volume(field)	cms	0.178								
Organic Carbon Total	mg/L	3.3		2.8	3.3		3.4			
Cyanide Total	mg/L	<0.002		<0.002	<0.002		<0.002		0.2	0.005
Phosphorus Total	mg/L	0.007		<0.003	0.011		0.004			
Ammonia - N	mg/L	<0.05		<0.05	<0.05		<0.05			1.37-2.2
Nitrate - N	mg/L	0.19		0.09	0.17		0.13		10	
Nitrite - N	mg/L	<0.01		<0.01	<0.01		<0.01		1	0.06
T-Alkalinity	mg/L	143		86	164		39			
Chloride	mg/L	0.32		0.1	0.26		0.2		<250	
Sulfate (SO4)	mg/L	88.2		9.5	74		177			
Hardness	mg CaCO3/L	242		97	245		229		<500	
Total Suspended Solids	mg/L	<2		<2	<2		12			
Total Dissolved Solids	mg/L	298		124	292		322		<500	

All results and limits in mg/L unless noted otherwis. Nr = no sample/reading

DWQ* Guidelines are Maximum Acceptable Concentrations according to
Canadian Drinking Water Quality

Aquatic** Guidelines are for protection of aquatic life in waters with pH >6.5 and Hardness as CaC03 >180 mg/L
Canadian Water Quality Guidelines

Table 1.Silver Range Resources - KEG Claims December, 2013.
Routine Chemistry and Field Measurement Results

Parameter	Unit	STATIONS KEG#8	KEG#9	KEG#10	KEG#11	KEG#12	KEG#13	DWQ* G.lines	Aquatic** G.lines
Monitoring Frequency		***Quarterly***	***Monthly***	***Quarterly***	***Quarterly***	***Quarterly***	***Quarterly***		
pH (field)	ru		7.7						
pH (lab)	ru		7.27					6.5-8.5	6.5-9
Electrical Conductivity (lab)	uS/cm		354						
Water temperature	C		-0.3						
Flow Volume(field)	cms								
Organic Carbon Total	mg/L		3.9						
Cyanide Total	mg/L		<0.002					0.2	0.005
Phosphorus Total	mg/L		0.012						
Ammonia - N	mg/L		<0.05						1.37-2.2
Nitrate - N	mg/L		0.18					10	
Nitrite - N	mg/L		<0.01					1	0.06
T-Alkalinity	mg/L		154						
Chloride	mg/L		0.26					<250	
Sulfate (SO4)	mg/L		54.3						
Hardness	mg CaCO3/L		217					<500	
Total Suspended Solids	mg/L		<2						
Total Dissolved Solids	mg/L		258					<500	

All results and limits in mg/L unless noted otherwis. Nr = no sample/reading

DWQ* Guidelines are Maximum Acceptable Concentrations according to
Canadian Drinking Water Quality

Aquatic** Guidelines are for protection of aquatic life in waters with pH >6.5 and Hardness as CaC03 >180 mg/L
Canadian Water Quality Guidelines

Table 2.Silver Range Resources - KEG Claims December, 2013.

Total Metals Analysis Results.

Parameter	Units	KEG #1	KEG #2	KEG #3	KEG #4	KEG #5	KEG #6	KEG #7	DWQ* G.Lines	Aquatic** G.Lines
Calcium	mg/L	78.4		29.4	78.2		79.2			
Iron	mg/L	0.18		0.033	0.208		7.08		0.3	0.3
Magnesium	mg/L	9.07		4.42	9.64		5.64			
Manganese	mg/L	0.0135		0.0034	0.0366		0.121		0.05	
Potassium	mg/L	2.4		0.9	2.7		1.3			
Silicon	mg/L	6.23		7.22	6.54		6.07			
Sulfur	mg/L									
Sodium	mg/L	4.1		3.2	4.8		1.4		<200	
Titanium	mg/L	0.0009		<0.0005	0.0006		<0.0005			
Aluminum	mg/L	0.024		0.01	0.02		0.336			0.1
Antimony	mg/L	0.0002		<0.0001	0.0002		0.0006		0.006	
Arsenic	mg/L	0.0016		0.00091	0.00187		0.00237		0.01	
Barium	mg/L	0.0725		0.0548	0.0815		0.0828		1	
Beryllium	mg/L	<0.00005		<0.00005	<0.00005		0.00011			
Bismuth	mg/L	<0.0001		<0.0001	<0.0001		<0.0001			
Boron	mg/L	0.01		0.004	0.012		0.004			
Cadmium	mg/L	0.00009		0.00002	0.00008		0.00021		0.005	0.0018
Chromium	mg/L	<0.0005		<0.0005	<0.0005		<0.0005		0.05	0.002
Cobalt	mg/L	0.0001		<0.0001	<0.0001		0.0035			
Copper	mg/L	0.0016		0.0009	0.002		0.0064		1	0.004
Lead	mg/L	0.0002		<0.0001	0.0002		0.0001			
Lithium	mg/L	0.0055		0.0081	0.006		0.0073			
Molybdenum	mg/L	0.00213		0.00116	0.00252		0.00032			
Nickel	mg/L	0.0034		0.0005	0.0008		0.037			0.15
Selenium	mg/L	0.0017		0.0003	0.0016		0.0011		0.01	0.001
Silver	mg/L	<0.00005		<0.00005	<0.00005		<0.00005			0.0001
Strontium	mg/L	0.309		0.0952	0.227		0.132			
Thallium	mg/L	<0.00001		<0.00001	<0.00001		0.00003			
Tin	mg/L	<0.0001		<0.0001	<0.0001		<0.0001			
Uranium	mg/L	0.00326		0.00619	0.00388		0.00011		0.02	
Vanadium	mg/L	0.0003		0.0002	0.0004		0.0004			
Zinc	mg/L	0.0085		0.0014	0.0026		0.0881		<5	0.03
Zirconium	mg/L	0.0022		<0.0005	<0.0005		<0.0005			
Mercury	mg/L	<0.00001		<0.00001	<0.00001		<0.00001		0.001	

indicates levels equal or exceed Guideline Limits

Table 2.Silver Range Resources - KEG Claims December, 2013.
Total Metals Analysis Results.

Parameter	Units	KEG#8	KEG#9	KEG#10	KEG#11	KEG#12	KEG#13	DWQ* G.Lines	Aquatic** G.Lines
Calcium	mg/L		66.6						
Iron	mg/L		0.36					0.3	0.3
Magnesium	mg/L		9.86						
Manganese	mg/L		0.0717					0.05	
Potassium	mg/L		1.6						
Silicon	mg/L		6.12						
Sulfur	mg/L								
Sodium	mg/L		3.9					<200	
Titanium	mg/L		0.0008						
Aluminum	mg/L		0.014						0.1
Antimony	mg/L		0.0002					0.006	
Arsenic	mg/L		0.00153					0.01	
Barium	mg/L		0.0917					1	
Beryllium	mg/L		<0.00005						
Bismuth	mg/L		<0.0001						
Boron	mg/L		0.008						
Cadmium	mg/L		0.00015					0.005	0.0018
Chromium	mg/L		<0.0005					0.05	0.002
Cobalt	mg/L		<0.0001						
Copper	mg/L		0.0013					1	0.004
Lead	mg/L		0.0002						
Lithium	mg/L		0.0069						
Molybdenum	mg/L		0.0017						
Nickel	mg/L		0.0012						0.15
Selenium	mg/L		0.0008					0.01	0.001
Silver	mg/L		<0.00005						0.0001
Strontium	mg/L		0.201						
Thallium	mg/L		<0.00001						
Tin	mg/L		<0.0001						
Uranium	mg/L		0.0027					0.02	
Vanadium	mg/L		0.0002						
Zinc	mg/L		0.0055					<5	0.03
Zirconium	mg/L		<0.0005						
Mercury	mg/L							0.001	

indicates levels equal or exceed Guideline Limits

Table 3.Silver Range Resources - KEG Claims December, 2013.
Dissolved Metals Analysis Results

Parameter	Units	KEG #1	KEG #2	KEG #3	KEG #4	KEG #5	KEG #6	KEG #7
Calcium	mg/L	81		31	81.3		81.8	
Iron	mg/L	0.051		0.029	0.062		5.48	
Magnesium	mg/L	9.56		4.8	10.2		6.05	
Manganese	mg/L	0.006		<0.001	0.03		0.118	
Potassium	mg/L	2.5		1.1	2.9		1.5	
Silicon	mg/L	5.68		6.52	5.86		5.48	
Sodium	mg/L	3.9		3.3	4.5		1.6	
Sulfur	mg/L	28.5		3.1	23.5		55.2	
Aluminum	mg/L	0.007		0.005	<0.005		0.228	
Antimony	mg/L	0.0002		<0.0002	0.0002		0.0006	
Arsenic	mg/L	0.0013		0.0009	0.0014		0.0017	
Barium	mg/L	0.073		0.055	0.081		0.08	
Beryllium	mg/L	<0.00004		<0.00004	<0.00004		0.00009	
Bismuth	mg/L	<0.001		<0.001	<0.001		<0.001	
Boron	mg/L	0.009		<0.004	0.01		<0.004	
Cadmium	mg/L	0.00009		0.00002	0.00006		0.00018	
Chromium	mg/L	<0.0004		<0.0004	<0.0004		<0.0004	
Cobalt	mg/L	0.00018		0.00004	0.00012		0.00343	
Copper	mg/L	0.001		<0.001	0.001		0.005	
Lead	mg/L	<0.0001		<0.0001	0.0001		<0.0001	
Lithium	mg/L	0.006		0.01	0.006		0.007	
Molybdenum	mg/L	0.00196		0.00103	0.00232		0.00027	
Nickel	mg/L	0.005		0.001	0.002		0.036	
Selenium	mg/L	0.0016		<0.0006	0.0016		0.0008	
Silver	mg/L	<0.00001		<0.00001	<0.00001		<0.00001	
Strontium	mg/L	0.173		0.093	0.177		0.13	
Titanium	mg/L	<0.010		<0.010	<0.010		<0.010	
Thallium	mg/L	<0.00001		<0.00001	<0.00001		0.00003	
Tin	mg/L	<0.0001		0.0004	<0.0001		<0.0001	
Uranium	mg/L	0.0034		0.0061	0.0039		<0.0004	
Vanadium	mg/L	0.0002		0.00021	0.00041		0.00028	
Zinc	mg/L	0.007		0.002	0.004		0.087	
Zirconium	mg/L	0.0002		0.00015	0.00019		0.00024	

Table 3.Silver Range Resources - KEG Claims December, 2013.
Dissolved Metals Analysis Results

Parameter	Units	KEG#8	KEG#9	KEG#10	KEG#11	KEG#12	KEG#13
Calcium	mg/L		69.6				
Iron	mg/L		0.167				
Magnesium	mg/L		10.5				
Manganese	mg/L		0.064				
Potassium	mg/L		1.7				
Silicon	mg/L		5.58				
Sodium	mg/L		3.9				
Sulfur	mg/L		17				
Aluminum	mg/L		<0.005				
Antimony	mg/L		<0.0002				
Arsenic	mg/L		0.0011				
Barium	mg/L		0.089				
Beryllium	mg/L		<0.00004				
Bismuth	mg/L		<0.001				
Boron	mg/L		0.004				
Cadmium	mg/L		0.00007				
Chromium	mg/L		<0.0004				
Cobalt	mg/L		0.00013				
Copper	mg/L		0.001				
Lead	mg/L		<0.0001				
Lithium	mg/L		0.007				
Molybdenum	mg/L		0.00149				
Nickel	mg/L		0.005				
Selenium	mg/L		<0.0006				
Silver	mg/L		<0.00001				
Strontium	mg/L		0.197				
Titanium	mg/L		<0.010				
Thallium	mg/L		<0.00001				
Tin	mg/L		<0.0001				
Uranium	mg/L		0.0026				
Vanadium	mg/L		0.00029				
Zinc	mg/L		0.004				
Zirconium	mg/L		0.00016				

Table 4. Silver Range Resources - Summary of KEG Project Stations Flow Volumes 2012 to 2013

	Date															
Station	**Mar-12**	**May-12**	**Jul-12**	**Oct-12**	**Nov-12**	**Dec-12**	**Mar-13**	**Apr-13**	**May-13**	**Jun-13**	**Jul-13**	**Aug-13**	**Sep-13**	**Oct-13**	**Nov-13**	**Dec-13**
KEG #1	0.057	0.6995	1.270	0.312	0.215	0.114	0.12	0.077	2.131	1.181	nr	1.439	1.233	0.468	0.203	0.178
KEG #2	Dry	1.1247 0.0015 E	1.3736	0.0005 E	dry	dry	dry	dry	0.002	0.002	0.003	nr	nr	nr	nr	
KEG #3	nr	0.6237	0.9296	0.328	nr	nr	0.053	nr	2.285	0.6018	nr	0.8387	nr	0.2875	nr	
KEG #4	0.012	0.7403	1.206	0.323	nr	nr	0.069	nr	2.074	nr	nr	nr	nr	nr	nr	
KEG #5	Dry	0.0253	0.013	0.004 E	dry	dry	dry	dry	0.003	0.0046	0.0981	0.0796	nr	nr	nr	
KEG #6	Dry	0.0163	0.0269	0.006	<0.001 e	<0.001 e	<0.001e	<0.001e	0.057	0.0688	0.0332	0.0289	0.0269	0.0138	nr	
KEG #7	Overflow	0.0787	0.0485	0.031	nr	nr	dry	nr	nr	0.0324	nr	nr	0.0865	nr	nr	
KEG #8	nr	0.0787	0.0764	0.049	nr	nr	nr	nr	nr	nr	nr	nr	0.1046	nr	nr	
KEG #10	Dry	0.7094	0.3262	0.107	nr	nr	dry	nr	nr	0.7732	nr	nr	0.6279	nr	nr	
KEG #11	0.035	0.4049	0.751	0.288	nr	nr	0.044	nr	1.737	0.839	0.7657	1.0245	0.6447	nr	nr	
KEG #12	0.007 E	0.5426 0.2044	0.7974 0.4203	0.035	nr	nr	nr	nr	nr	0.3087	nr	nr	0.2566	nr	nr	
KEG #13	0.002 E	0.2423	0.7296	0.185	nr	nr	nr	nr	nr	0.6587	nr	nr	0.4218	nr	nr	

Table 8.Silver Range Resources - KEG Claims December, 2013.
Quality Control Total and Dissolved Metals Analysis Results.

Parameter	Units	Keg # 1 Total Metals	Keg # 1 Total Metals Duplicate	Keg # 1 Diss.Metals	Keg # 1 Diss.Metals Duplicate
Calcium	mg/L	78.4	77.7	81	81.6
Iron	mg/L	0.18	0.163	0.051	0.076
Magnesium	mg/L	9.07	9.01	9.56	9.61
Manganese	mg/L	0.0135	0.0128	0.006	0.007
Potassium	mg/L	2.4	2.4	2.5	2.6
Silicon	mg/L	6.23	6.23	5.68	5.66
Sodium	mg/L	4.1	3.9	3.9	4
Titanium	mg/L	0.0009	0.0006	<0.010	<0.010
Aluminum	mg/L	0.024	0.019	0.007	0.007
Antimony	mg/L	0.0002	0.0002	0.0002	0.0002
Arsenic	mg/L	0.0016	0.00161	0.0013	0.0013
Barium	mg/L	0.0725	0.0738	0.073	0.073
Beryllium	mg/L	<0.00005	<0.00005	<0.00004	<0.00004
Bismuth	mg/L	<0.0001	<0.0001	<0.001	<0.001
Boron	mg/L	0.01	0.01	0.009	0.008
Cadmium	mg/L	0.00009	0.00009	0.00009	0.00009
Chromium	mg/L	<0.0005	<0.0005	<0.0004	<0.0004
Cobalt	mg/L	0.0001	0.0001	0.00018	0.00017
Copper	mg/L	0.0016	0.0017	0.001	0.001
Lead	mg/L	0.0002	0.0002	<0.0001	0.0001
Lithium	mg/L	0.0055	0.0059	0.006	0.006
Molybdenum	mg/L	0.00213	0.00216	0.00196	0.00195
Nickel	mg/L	0.0034	0.0031	0.005	0.004
Selenium	mg/L	0.0017	0.0018	0.0016	0.0013
Silver	mg/L	<0.00005	<0.00005	<0.00001	<0.00001
Strontium	mg/L	0.309	0.176	0.173	0.175
Thallium	mg/L	<0.00001	<0.00001	<0.00001	<0.00001
Tin	mg/L	<0.0001	<0.0001	<0.0001	<0.0001
Uranium	mg/L	0.00326	0.00326	0.0034	0.0034
Vanadium	mg/L	0.0003	0.0003	0.0002	0.00029
Zinc	mg/L	0.0085	0.0078	0.007	0.008
Zirconium	mg/L	0.0022	<0.0005	0.0002	0.00016
Mercury	mg/L				

indicates >10% variation between samples

Discussion

Laboratory Analytical Results

Parameters that equal or exceed either ***Drinking Water or Aquatic Guidelines*** are highlighted in yellow.

Station KEG#1 results exceed the ***Aquatic Guidelines*** for selenium.

Station KEG#3 met all ***Aquatic*** and the ***Drinking Water Guidelines***.

Station KEG#4 results exceed ***Aquatic Guidelines*** for selenium.

Station KEG#6 results exceed ***Aquatic Guidelines*** for aluminum, iron, copper, selenium and zinc; the ***Drinking Water MAC*** for iron and manganese.

Station KEG#9 (receiving waters) results exceed the ***Aquatic Guidelines*** for iron; and the ***Drinking Water MAC*** for iron and manganese.

In December 2013, Total Mercury concentrations were below detection limits at all Stations (KEG#9 not sampled for total mercury).

In December 2013, Total Cyanide concentrations were below detection limits at all Stations.

APPENDIX 1

LABORATORY ANALYTICAL REPORTS

KEG PROJECT

December 2013

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Report Transmission Cover Page

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**978903**
Report To:	J. Gibson & Associates	ID:	SilverRange Resources	Control Number:	B14659
	Box 20913	Name:	KEG Project	Date Received:	Dec 27, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Jan 3, 2014
	Y1A 6P2	LSD:		Report Number:	1886173
Attn:	John Gibson	P.O.:			
Sampled By:	R. Gibson	Acct code:			
Company:					

Contact & Affiliation	Address	Delivery Commitments
John Gibson J. Gibson & Associates	, Box 20913 Whitehorse, Yukon Territory Y1A 6P2 Phone: (867) 633-4522 Fax: (867) 668-6895 Email: ludditegibson@gmail.com	On [Lot Verification] send (COA) by Email - Single Report On [Report Approval] send (COC, Test Report) by Email - Merge Reports On [Report Approval] send (Test Report) by Email - Single Report On [Lot Approval and Final Test Report Approval] send (Invoice) by Email - Single Report On [Lot Creation] send (COR) by Email - Single Report

Notes To Clients:

- Analysis was performed on samples 978903-1 to 5 that exceeded the recommended holding time for Total Phosphorus analysis.
- An appropriately preserved sample was not received for Total Phosphorus analysis of samples 978903-1 to 5. Analysis was performed on unpreserved sample.

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: R. Gibson
Company:

Project:
ID: SilverRange Resources
Name: KEG Project
Location:
LSD:
P.O.:
Acct code:

Lot ID: **978903**
Control Number: B14659
Date Received: Dec 27, 2013
Date Reported: Jan 3, 2014
Report Number: 1886173

			Reference Number	978903-1	978903-2	978903-3	
			Sample Date	Dec 22, 2013	Dec 22, 2013	Dec 22, 2013	
			Sample Time	NA	NA	NA	
			Sample Location	Surface	Surface	Surface	
			Sample Description	KEG #1	KEG #3	KEG #4	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Inorganic Nonmetallic Parameters							
Ammonium - N		mg/L		<0.05	<0.05	<0.05	0.05
Organic Carbon	Total Nonpurgeable	mg/L		3.3	2.8	3.3	0.5
Cyanide	Total	mg/L		<0.002	<0.002	<0.002	0.002
Phosphorus	Total	mg/L		0.007	<0.003	0.011	0.003
Metals Dissolved							
Sulfur	Dissolved	mg/L		28.5	3.1	23.5	0.2
Aluminum	Dissolved	mg/L		0.007	0.005	<0.005	0.005
Antimony	Dissolved	mg/L		0.0002	<0.0002	0.0002	0.0002
Arsenic	Dissolved	mg/L		0.0013	0.0009	0.0014	0.0002
Barium	Dissolved	mg/L		0.073	0.055	0.081	0.001
Beryllium	Dissolved	mg/L		<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Dissolved	mg/L		<0.001	<0.001	<0.001	0.001
Boron	Dissolved	mg/L		0.009	<0.004	0.010	0.004
Cadmium	Dissolved	mg/L		0.00009	0.00002	0.00006	0.00001
Chromium	Dissolved	mg/L		<0.0004	<0.0004	<0.0004	0.0004
Cobalt	Dissolved	mg/L		0.00018	0.00004	0.00012	0.00002
Copper	Dissolved	mg/L		0.001	<0.001	0.001	0.001
Lead	Dissolved	mg/L		<0.0001	<0.0001	0.0001	0.0001
Lithium	Dissolved	mg/L		0.006	0.01	0.006	0.001
Molybdenum	Dissolved	mg/L		0.00196	0.00103	0.00232	0.0001
Nickel	Dissolved	mg/L		0.005	0.001	0.002	0.001
Selenium	Dissolved	mg/L		0.0016	<0.0006	0.0016	0.0006
Silver	Dissolved	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Titanium	Dissolved	mg/L		<0.010	<0.010	<0.010	0.01
Strontium	Dissolved	mg/L		0.173	0.093	0.177	0.001
Tellurium	Dissolved	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Thallium	Dissolved	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Thorium	Dissolved	mg/L		<0.0004	<0.0004	<0.0004	0.0004
Tin	Dissolved	mg/L		<0.0001	0.0004	<0.0001	0.0001
Uranium	Dissolved	mg/L		0.0034	0.0061	0.0039	0.0004
Vanadium	Dissolved	mg/L		0.00020	0.00021	0.00041	0.0001
Zinc	Dissolved	mg/L		0.007	0.002	0.004	0.001
Zirconium	Dissolved	mg/L		0.00020	0.00015	0.00019	0.0001
Metals Total							
Mercury	Total	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Aluminum	Total	mg/L		0.024	0.010	0.020	0.005

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: R. Gibson
Company:

Project:
ID: SilverRange Resources
Name: KEG Project
Location:
LSD:
P.O.:
Acct code:

Lot ID: **978903**
Control Number: B14659
Date Received: Dec 27, 2013
Date Reported: Jan 3, 2014
Report Number: 1886173

			Reference Number	978903-1	978903-2	978903-3	
			Sample Date	Dec 22, 2013	Dec 22, 2013	Dec 22, 2013	
			Sample Time	NA	NA	NA	
			Sample Location	Surface	Surface	Surface	
			Sample Description	KEG #1	KEG #3	KEG #4	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Total - Continued							
Antimony	Total	mg/L		0.0002	<0.0001	0.0002	0.0001
Arsenic	Total	mg/L		0.00160	0.00091	0.00187	0.00005
Barium	Total	mg/L		0.0725	0.0548	0.0815	0.00005
Beryllium	Total	mg/L		<0.00005	<0.00005	<0.00005	0.00005
Bismuth	Total	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Boron	Total	mg/L		0.010	0.004	0.012	.002
Cadmium	Total	mg/L		0.00009	0.00002	0.00008	0.00001
Calcium	Total	mg/L		78.4	29.4	78.2	0.05
Chromium	Total	mg/L		<0.0005	<0.0005	<0.0005	0.0005
Cobalt	Total	mg/L		0.0001	<0.0001	<0.0001	0.0001
Copper	Total	mg/L		0.0016	0.0009	0.0020	0.0001
Iron	Total	mg/L		0.180	0.033	0.208	0.002
Lead	Total	mg/L		0.0002	<0.0001	0.0002	0.0001
Lithium	Total	mg/L		0.0055	0.0081	0.0060	0.0005
Magnesium	Total	mg/L		9.07	4.42	9.64	0.04
Manganese	Total	mg/L		0.0135	0.0034	0.0366	0.001
Molybdenum	Total	mg/L		0.00213	0.00116	0.00252	0.00005
Nickel	Total	mg/L		0.0034	0.0005	0.0008	0.0002
Potassium	Total	mg/L		2.4	0.9	2.7	0.1
Selenium	Total	mg/L		0.0017	0.0003	0.0016	0.0001
Silicon	Total	mg/L		6.23	7.22	6.54	0.02
Silver	Total	mg/L		<0.00005	<0.00005	<0.00005	0.00005
Sodium	Total	mg/L		4.1	3.2	4.8	0.1
Strontium	Total	mg/L		0.309	0.0952	0.227	0.0001
Thallium	Total	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Thorium	Total	mg/L		<0.00001	0.00001	<0.00001	0.00001
Tin	Total	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Titanium	Total	mg/L		0.0009	<0.0005	0.0006	0.0005
Uranium	Total	mg/L		0.00326	0.00619	0.00388	0.00001
Vanadium	Total	mg/L		0.0003	0.0002	0.0004	0.0001
Zinc	Total	mg/L		0.0085	0.0014	0.0026	0.0005
Zirconium	Total	mg/L		0.0022	<0.0005	<0.0005	0.0005
Hardness	as CaCO3	mg/L		233	92	235	1
Physical and Aggregate Properties							
Solids	Total Suspended	mg/L		<2	<2	<2	1
Solids	Total Dissolved	mg/L		298	124	292	5

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**978903**
Report To:	J. Gibson & Associates	ID:	SilverRange Resources	Control Number:	B14659
	Box 20913	Name:	KEG Project	Date Received:	Dec 27, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Jan 3, 2014
	Y1A 6P2	LSD:		Report Number:	1886173
Attn:	John Gibson	P.O.:			
Sampled By:	R. Gibson	Acct code:			
Company:					

		Reference Number	978903-1	978903-2	978903-3	
		Sample Date	Dec 22, 2013	Dec 22, 2013	Dec 22, 2013	
		Sample Time	NA	NA	NA	
		Sample Location	Surface	Surface	Surface	
		Sample Description	KEG #1	KEG #3	KEG #4	
		Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Routine Water						
pH	at 25 °C		7.82	7.84	7.91	
Electrical Conductivity		µS/cm at 25 C	399	164	398	1
Calcium	Dissolved	mg/L	81.0	31.0	81.3	0.1
Iron	Dissolved	mg/L	0.051	0.029	0.062	0.005
Magnesium	Dissolved	mg/L	9.56	4.80	10.2	0.1
Manganese	Dissolved	mg/L	0.006	<0.001	0.030	0.001
Potassium	Dissolved	mg/L	2.5	1.1	2.9	0.1
Silicon	Dissolved	mg/L	5.68	6.52	5.86	0.05
Sodium	Dissolved	mg/L	3.9	3.3	4.5	0.1
Bicarbonate		mg/L	174	105	199	5
Carbonate		mg/L	<6	<6	<6	6
Hydroxide		mg/L	<5	<5	<5	5
P-Alkalinity	as CaCO3	mg/L	<5	<5	<5	5
T-Alkalinity	as CaCO3	mg/L	143	86	164	5
Chloride	Dissolved	mg/L	0.32	0.10	0.26	0.05
Nitrate - N	Dissolved	mg/L	0.19	0.09	0.17	0.01
Nitrite - N	Dissolved	mg/L	<0.01	<0.01	<0.01	0.01
Sulfate (SO4)	Dissolved	mg/L	88.2	9.5	74.0	0.5
Hardness	as CaCO3	mg/L	242	97	245	5

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**978903**
Report To:	J. Gibson & Associates	ID:	SilverRange Resources	Control Number:	B14659
	Box 20913	Name:	KEG Project	Date Received:	Dec 27, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Jan 3, 2014
	Y1A 6P2	LSD:		Report Number:	1886173
Attn:	John Gibson	P.O.:			
Sampled By:	R. Gibson	Acct code:			
Company:					

			Reference Number	978903-4	978903-5		
			Sample Date	Dec 22, 2013	Dec 22, 2013		
			Sample Time	NA	NA		
			Sample Location	Surface	Surface		
			Sample Description	KEG #6	KEG #9		
			Matrix	Water	Water		
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Inorganic Nonmetallic Parameters							
Ammonium - N		mg/L		<0.05	<0.05		0.05
Organic Carbon	Total Nonpurgeable	mg/L		3.4	3.9		0.5
Cyanide	Total	mg/L		<0.002	<0.002		0.002
Phosphorus	Total	mg/L		0.004	0.012		0.003
Physical and Aggregate Properties							
Solids	Total Suspended	mg/L		12	<2		1
Solids	Total Dissolved	mg/L		322	258		5

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Exova

Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: R. Gibson
Company:

Project:
ID: SilverRange Resources
Name: KEG Project
Location:
LSD:
P.O.:
Acct code:

Lot ID: **978903**
Control Number: B14659
Date Received: Dec 27, 2013
Date Reported: Jan 3, 2014
Report Number: 1886173

			Reference Number	978903-4	978903-5	978903-6	
			Sample Date	Dec 22, 2013	Dec 22, 2013	Dec 22, 2013	
			Sample Time	NA	NA	NA	
			Sample Location	Surface	Surface	Surface	
			Sample Description	KEG #6	KEG #9	KEG #1 - duplicate	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Dissolved							
Sulfur	Dissolved	mg/L		55.2	17.0	28.2	0.2
Aluminum	Dissolved	mg/L		0.228	<0.005	0.007	0.005
Antimony	Dissolved	mg/L		0.0006	<0.0002	0.0002	0.0002
Arsenic	Dissolved	mg/L		0.0017	0.0011	0.0013	0.0002
Barium	Dissolved	mg/L		0.080	0.089	0.073	0.001
Beryllium	Dissolved	mg/L		0.00009	<0.00004	<0.00004	0.00004
Bismuth	Dissolved	mg/L		<0.001	<0.001	<0.001	0.001
Boron	Dissolved	mg/L		<0.004	0.004	0.008	0.004
Cadmium	Dissolved	mg/L		0.00018	0.00007	0.00009	0.00001
Chromium	Dissolved	mg/L		<0.0004	<0.0004	<0.0004	0.0004
Cobalt	Dissolved	mg/L		0.00343	0.00013	0.00017	0.00002
Copper	Dissolved	mg/L		0.005	0.001	0.001	0.001
Lead	Dissolved	mg/L		<0.0001	<0.0001	0.0001	0.0001
Lithium	Dissolved	mg/L		0.007	0.007	0.006	0.001
Molybdenum	Dissolved	mg/L		0.00027	0.00149	0.00195	0.0001
Nickel	Dissolved	mg/L		0.036	0.005	0.004	0.001
Selenium	Dissolved	mg/L		0.0008	<0.0006	0.0013	0.0006
Silver	Dissolved	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Titanium	Dissolved	mg/L		<0.010	<0.010	<0.010	0.01
Strontium	Dissolved	mg/L		0.130	0.197	0.175	0.001
Tellurium	Dissolved	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Thallium	Dissolved	mg/L		0.00003	<0.00001	<0.00001	0.00001
Thorium	Dissolved	mg/L		<0.0004	<0.0004	<0.0004	0.0004
Tin	Dissolved	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Uranium	Dissolved	mg/L		<0.0004	0.0026	0.0034	0.0004
Vanadium	Dissolved	mg/L		0.00028	0.00029	0.00029	0.0001
Zinc	Dissolved	mg/L		0.087	0.004	0.008	0.001
Zirconium	Dissolved	mg/L		0.00024	0.00016	0.00016	0.0001
Metals Total							
Mercury	Total	mg/L		<0.00001			0.00001
Aluminum	Total	mg/L		0.336	0.014	0.019	0.005
Antimony	Total	mg/L		0.0006	0.0002	0.0002	0.0001
Arsenic	Total	mg/L		0.00237	0.00153	0.00161	0.00005
Barium	Total	mg/L		0.0828	0.0917	0.0738	0.00005
Beryllium	Total	mg/L		0.00011	<0.00005	<0.00005	0.00005
Bismuth	Total	mg/L		<0.0001	<0.0001	<0.0001	0.0001

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
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Attn: John Gibson
Sampled By: R. Gibson
Company:

Project:
ID: SilverRange Resources
Name: KEG Project
Location:
LSD:
P.O.:
Acct code:

Lot ID: **978903**
Control Number: B14659
Date Received: Dec 27, 2013
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Report Number: 1886173

			Reference Number	978903-4	978903-5	978903-6	
			Sample Date	Dec 22, 2013	Dec 22, 2013	Dec 22, 2013	
			Sample Time	NA	NA	NA	
			Sample Location	Surface	Surface	Surface	
			Sample Description	KEG #6	KEG #9	KEG #1 - duplicate	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Total - Continued							
Boron	Total	mg/L		0.004	0.008	0.010	.002
Cadmium	Total	mg/L		0.00021	0.00015	0.00009	0.00001
Calcium	Total	mg/L		79.2	66.6	77.7	0.05
Chromium	Total	mg/L		<0.0005	<0.0005	<0.0005	0.0005
Cobalt	Total	mg/L		0.0035	<0.0001	0.0001	0.0001
Copper	Total	mg/L		0.0064	0.0013	0.0017	0.0001
Iron	Total	mg/L		7.08	0.360	0.163	0.002
Lead	Total	mg/L		0.0001	0.0002	0.0002	0.0001
Lithium	Total	mg/L		0.0073	0.0069	0.0059	0.0005
Magnesium	Total	mg/L		5.64	9.86	9.01	0.04
Manganese	Total	mg/L		0.121	0.0717	0.0128	0.001
Molybdenum	Total	mg/L		0.00032	0.00170	0.00216	0.00005
Nickel	Total	mg/L		0.0370	0.0012	0.0031	0.0002
Potassium	Total	mg/L		1.3	1.6	2.4	0.1
Selenium	Total	mg/L		0.0011	0.0008	0.0018	0.0001
Silicon	Total	mg/L		6.07	6.12	6.23	0.02
Silver	Total	mg/L		<0.00005	<0.00005	<0.00005	0.00005
Sodium	Total	mg/L		1.4	3.9	3.9	0.1
Strontium	Total	mg/L		0.132	0.201	0.176	0.0001
Thallium	Total	mg/L		0.00003	<0.00001	<0.00001	0.00001
Thorium	Total	mg/L		<0.00001	<0.00001	0.00001	0.00001
Tin	Total	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Titanium	Total	mg/L		<0.0005	0.0008	0.0006	0.0005
Uranium	Total	mg/L		0.00011	0.00270	0.00326	0.00001
Vanadium	Total	mg/L		0.0004	0.0002	0.0003	0.0001
Zinc	Total	mg/L		0.0881	0.0055	0.0078	0.0005
Zirconium	Total	mg/L		<0.0005	<0.0005	<0.0005	0.0005
Hardness	as CaCO3	mg/L		221	207		1
Routine Water							
pH	at 25 °C			6.56	7.27		
Electrical Conductivity		µS/cm at 25 C		391	354		1
Calcium	Dissolved	mg/L		81.8	69.6	81.6	0.1
Iron	Dissolved	mg/L		5.48	0.167	0.076	0.005
Magnesium	Dissolved	mg/L		6.05	10.5	9.61	0.1
Manganese	Dissolved	mg/L		0.118	0.064	0.007	0.001
Potassium	Dissolved	mg/L		1.5	1.7	2.6	0.1

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: R. Gibson
Company:

Project:
ID: SilverRange Resources
Name: KEG Project
Location:
LSD:
P.O.:
Acct code:

Lot ID: **978903**
Control Number: B14659
Date Received: Dec 27, 2013
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Report Number: 1886173

		Reference Number	978903-4	978903-5	978903-6	
		Sample Date	Dec 22, 2013	Dec 22, 2013	Dec 22, 2013	
		Sample Time	NA	NA	NA	
		Sample Location	Surface	Surface	Surface	
		Sample Description	KEG #6	KEG #9	KEG #1 - duplicate	
		Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Routine Water - Continued						
Silicon	Dissolved	mg/L	5.48	5.58	5.66	0.05
Sodium	Dissolved	mg/L	1.6	3.9	4.0	0.1
Bicarbonate		mg/L	47	188		5
Carbonate		mg/L	<6	<6		6
Hydroxide		mg/L	<5	<5		5
P-Alkalinity	as CaCO3	mg/L	<5	<5		5
T-Alkalinity	as CaCO3	mg/L	39	154		5
Chloride	Dissolved	mg/L	0.20	0.26		0.05
Nitrate - N	Dissolved	mg/L	0.13	0.18		0.01
Nitrite - N	Dissolved	mg/L	<0.01	<0.01		0.01
Sulfate (SO4)	Dissolved	mg/L	177	54.3		0.5
Hardness	as CaCO3	mg/L	229	217	243	5

Approved by:

Mathieu Simoneau
Operations Manager

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Methodology and Notes

Bill To:	J. Gibson & Associates	Project:	
Report To:	J. Gibson & Associates	ID:	SilverRange Resources
	Box 20913	Name:	KEG Project
	Whitehorse, YT, Canada	Location:	
	Y1A 6P2	LSD:	
Attn:	John Gibson	P.O.:	
Sampled By:	R. Gibson	Acct code:	
Company:			

Lot ID:	**978903**
Control Number:	B14659
Date Received:	Dec 27, 2013
Date Reported:	Jan 3, 2014
Report Number:	1886173

Method of Analysis

Method Name	Reference		Method	Date Analysis Started	Location
Alk, pH, EC, Turb in water (Surrey)	APHA	*	Alkalinity - Titration Method, 2320 B	28-Dec-13	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	*	Conductivity, 2510 B	28-Dec-13	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	*	pH - Electrometric Method, 4500-H+ B	28-Dec-13	Exova Surrey
Ammonium-N in Water	APHA	*	Automated Phenate Method, 4500-NH3 G	31-Dec-13	Exova Edmonton
Anions by IEC in water (Surrey)	APHA	*	Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	28-Dec-13	Exova Surrey
BC ICP-MS Total Metals in Water	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	30-Dec-13	Exova Edmonton
BC Trace Total Metals in Water	APHA	*	Inductively Coupled Plasma (ICP) Method, 3120 B	30-Dec-13	Exova Edmonton
Carbon Organic (Total) in water (TOC)	APHA		High-Temperature Combustion Method, 5310 B	30-Dec-13	Exova Edmonton
Cyanide (Total) in water	US EPA	*	US EPA method, 335.3	30-Dec-13	Exova Edmonton
Mercury Low Level (Total) in water (Surrey)	EPA	*	Mercury in Water by Cold Vapor Atomic Fluorescence Spectrometry, 245.7	30-Dec-13	Exova Surrey
Metals SemiTrace (Dissolved) in water (Surrey)	US EPA	*	Metals & Trace Elements by ICP-AES, 6010C	30-Dec-13	Exova Surrey
Phosphorus - total by Smartchem (Surrey)	APHA	*	Preliminary Acid Hydrolysis, Ascorbic Acid Reduction Method, 4500-P B,E	03-Jan-14	Exova Surrey
Solids Dissolved (Total, Fixed and Volatile) - Surrey	APHA	*	Total Dissolved Solids Dried at 180 C, 2540 C	28-Dec-13	Exova Surrey
Solids Suspended (Total, Fixed and Volatile)	APHA	*	Total Suspended Solids Dried at 103-105'C, 2540 D	28-Dec-13	Exova Surrey
Trace Metals (dissolved) in Water (Surrey)	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	30-Dec-13	Exova Surrey
Trace Metals (dissolved) in Water (Surrey)	US EPA	*	Metals & Trace Elements by ICP-AES, 6010C	30-Dec-13	Exova Surrey

** Reference Method Modified*

References

APHA	Standard Methods for the Examination of Water and Wastewater
US EPA	US Environmental Protection Agency Test Methods

Comments:

Stage Discharge Calculations

Project: Silver Range - Keg Claims **Date:** 22-Dec-13

Site: Keg #1

Point (m)	Depth (meters)	Width (meters)	Velocity (m/sec)	Area (m sq)	Volume (cms)
2	0	0.05	0	0	0.0000
2.1	0.18	0.15	0.464	0.027	0.0125
2.3	0.2	0.2	0.509	0.04	0.0204
2.5	0.2	0.2	0.554	0.04	0.0222
2.7	0.24	0.2	0.59	0.048	0.0283
2.9	0.16	0.2	0.341	0.032	0.0109
3.1	0.14	0.2	0.522	0.028	0.0146
3.3	0.2	0.2	0.453	0.04	0.0181
3.5	0.18	0.2	0.409	0.036	0.0147
3.7	0.18	0.2	0.417	0.036	0.0150
3.9	0.16	0.2	0.245	0.032	0.0078
4.1	0.16	0.2	0	0.032	0.0000
4.3	0.14	0.2	0.14	0.028	0.0039
4.5	0.12	0.2	0.251	0.024	0.0060
4.7	0.08	0.2	0.082	0.016	0.0013
4.9	0.08	0.2	0.121	0.016	0.0019
5.1	0.05	0.125	0	0.00625	0.0000
5.15	0	0.025	0	0	0.0000
3.15		**3.15**			**0.178**

All velocity readings at 0.6 depth

Staff Gauge No reading - under ice

Data logger reading: pulled late September

Channel under ice? Complete ice cover

Method: Price Velocity meter#2/ TS Wading Rod

Measurement By: R.Gibson

Silver Range Resources

KEG CLAIMS

Baseline Water Quality / Hydrology Survey

Environmental Data Update

January and March, 2013

J.Gibson Env. Consulting *Whitehorse, Yukon*

KEG Claims January and March 2013

Silver Range Resources baseline water quality / hydrology surveys of the KEG Claims surface waters continued in January 2013 at stations identified for monthly surveillance and in March 2013 for monthly and quarterly stations.

Monthly stations are KEG #1, #2, #3, #4, #5, #6 and receiving waters station #9. Quarterly stations are Keg #7, #8, #10, #11, #12, #13.

The sites are located in the Anvil Range approximately 30 kilometers north of Faro, Yukon and 15 kilometers north of the former Faro Mine.

The KEG Claims are located on tributaries to the Tay River.

All surface waters are tributaries to the Pelly River.

The KEG exploration project was closed for the season in September 2012.

The exploration camp and all survey sites were accessed by helicopter.

The baseline survey consisted of water quality samples for routine chemistry, total metals, dissolved metals, total organic carbon, total cyanide and total mercury with field measurements for pH, water temperature and flow volume measurements.

Water level data loggers installed May 2012 at Stations KEG#1 and KEG#11 were removed in October 2012 at close of open water season.

An Onset Weather Station was installed in November 2012 and was operational November through March.

Sample Locations

Nine water quality sample sites were established on the KEG Claims during the initial survey in August 2010.
Four sites were added in October 2010 on the eastern limits of the expanded claim block.

All sites are on the attached location map.

Sample Frequency

KEG stations #1, #2, #3, #4, #5, #6 and #9 are on a monthly frequency as of November 2012. All other stations remain on a quarterly sampling frequency.

KEG Claim sample station designations and coordinates (updated March 2012) are:

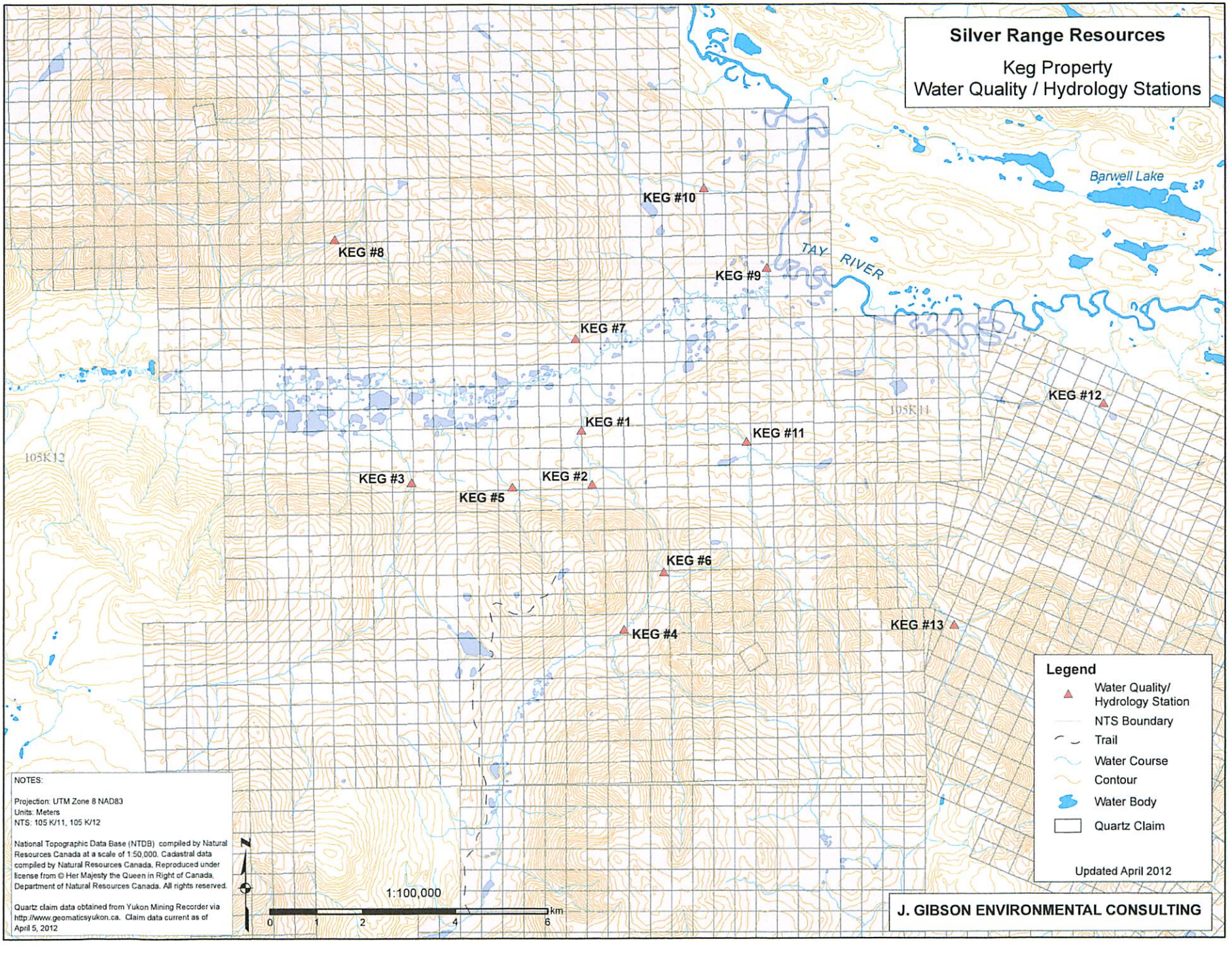
Station #	Lat/Long Coordinates	Elevation(m)
KEG #1	62 36 8.26 / 133 19 58.3	787
KEG #2	62 35 29.8 / 133 19 44.2	818
KEG #3	62 35 34.4 / 133 24 18.1	865
KEG #4	62 33 46.9 / 133 19 48	970
KEG #5	62 35 29.3 / 133 21 45.3	833
KEG #6	62 34 26.4 / 133 17 59.1	940
KEG #7	62 37 12.9 / 133 20 43	833
KEG #8	62 38 26.8 / 133 26 5.3	1152
KEG #9	62 37 59.2 / 133 15 9.9	750
KEG #10	62 38 56.3 / 133 16 41.9	850
KEG #11	62 35 57.1 / 133 15 48.3	880
KEG #12	62 36 16.9 / 133 06 45.8	820
KEG #13	62 33 43.7 / 133 10 41.6	1020
*Updated March 2012		

Station coordinates and elevations are for helicopter landing sites. Due to the topography and vegetation it was often necessary to located landing sites up to100 meter distance from sample sites.

Sample Analysis Parameters

All KEG stations were sampled for total metals, dissolved metals and routine chemistry, total organic carbon, total cyanide and total mercury.

Dissolved metals samples were filtered onsite using disposable 60 ml syringes and 0.45 micron filters. New syringes and filters were used for each station.


Silver Range Resources
Keg Property
Water Quality / Hydrology Stations
Barwell Lake
TAY RIVER
KEG #10
KEG #8
KEG #9
KEG #7
KEG #12
KEG #1
KEG #11
105K11
105K12
KEG #3
KEG #2
KEG #5
KEG #6
KEG #4
KEG #13
Legend
Water Quality/ Hydrology Station
NTS Boundary
Trail
Water Course
Contour
Water Body
Quartz Claim
Updated April 2012
NOTES:
Projection: UTM Zone 8 NAD83
Units: Meters
NTS: 105 K/11, 105 K/12
National Topographic Data Base (NTDB) compiled by Natural Resources Canada at a scale of 1:50,000. Cadastral data compiled by Natural Resources Canada. Reproduced under license from © Her Majesty the Queen in Right of Canada, Department of Natural Resources Canada. All rights reserved.
Quartz claim data obtained from Yukon Mining Recorder via http://www.geomaticsyukon.ca. Claim data current as of April 5, 2012
N
1:100,000
0 1 2 4 6 km
J. GIBSON ENVIRONMENTAL CONSULTING

Total and dissolved metal samples were preserved with nitric acid immediately after sampling.

All samples were stored in coolers, kept at 4 Celsius and shipped by air cargo to the Exova Canada Inc. laboratory in Surrey B.C. for analysis within recommended holding times.

Field measurements for pH and conductivity were taken with an Oakton PCS TestR 35, water temperatures with a digital thermometer.

Flow Volume Measurements

Stream flow volumes were measured in March 2013 at KEG #1, #3, #4, #11 with a Price AA velocity meter and cross sectional area calculations. All channels had complete ice cover.
Stations KEG#2, #5, #7 and #10 were dry with ice to the channel base.

KEG #6 flows were estimated at less than 1 liter per second.

A summary of KEG stream flow volumes from 2010 to 2013 are in Table 7.

Stream flow volume data/calculations are attached in Appendix 2.

Keg Weather Station

An Onset/Hobo weather station was installed in November 2012. Data downloads for the remainder of the winter have not been possible due to cold weather.

Analysis Results

Laboratory analysis and field measurement results are listed in the following tables:

Table 1. January 2013 KEG Monthly Stations Routine Chemistry – laboratory analysis and field measurements

Table 2. January 2013 KEG Monthly Stations Total Metals ICP–MS laboratory analysis results

Table 3. January 2013 KEG Monthly Stations Dissolved Metals ICP–MS laboratory analysis results

Table 4. March 2013 KEG Monthly and Quarterly Stations Routine Chemistry – laboratory analysis and field measurements

Table 5. March 2013 KEG Monthly and Quarterly Stations Total Metals ICP-MS laboratory analysis results

Table 6. March 2013 KEG Monthly and Quarterly Stations Dissolved Metals ICP-MS laboratory analysis results

Table 7. KEG Stations Flow Volume Summary to March 2013.

As a guide for reviewing site water quality, the Maximum Acceptable Concentration (MAC) according to ***Canadian Drinking Water Quality*** are listed along with the Aquatic Guidelines for the protection of aquatic life in water with a pH of > 6.5 and a total hardness as CaC03 > 180 mg/L according to ***CCME – Canadian Water Quality Guidelines.***
All water quality ***Guideline*** concentrations are based on total metal values.

All laboratory analysis was done by Exova Canada Inc of Surrey B.C.

Laboratory Analytical Reports are attached in Appendix 1.

Data Summaries for each station are on the attached Excel disc.

Quality Control

There were no quality control samples taken in January or March 2013.

Table 1.Silver Range Resources - KEG Claims January, 2013.
Routine Chemistry and Field Measurement Results

Parameter	Unit	STATIONS KEG #1	KEG #2	KEG #3	KEG #4	KEG #5	KEG #6	KEG #7	DWQ* G.lines	Aquatic** G.lines
Monitoring Frequency		***Monthly***	***Monthly***	***Monthly***	***Monthly***	***Monthly***	***Monthly***	***Quarterly***		
pH (field)	ru	7.75		7.77	7.84		7.11			
pH (lab)	ru	7.92	No Surface	7.99	8.02	No Surface	6.05		6.5-8.5	6.5-9
Electrical Conductivity (lab)		436	Flow	196	441	Flow	498			
Water temperature	C	-0.9		0.1	-0.4		-0.3			
Flow Volume(field)	cms									
Organic Carbon Total	mg/L	3.7		2.9	3.2		3.5			
Cyanide Total	mg/L	<0.002		<0.002	<0.002		<0.002		0.2	0.005
Phosphorus Total	mg/L	0.007		<0.003	0.015		<0.003			
Ammonia - N	mg/L	0.09		0.08	0.09		0.24			1.37-2.2
Nitrate - N	mg/L	0.26		0.16	0.22		0.04		10	
Nitrite - N	mg/L	<0.01		<0.01	<0.01		<0.01		1	0.06
T-Alkalinity	mg/L	159		98	174		11			
Chloride	mg/L	0.32		0.1	0.28		0.19		<250	
Sulfate (SO4)	mg/L	83.6		9.6	68.4		252			
Hardness	mg CaCO3/L	244		104	239		241		<500	
Total Suspended Solids	mg/L	<2		<2	<2		10			
Total Dissolved Solids	mg/L	302		132	296		378		<500	

All results and limits in mg/L unless noted otherwis. Nr = no sample/reading

DWQ* Guidelines are Maximum Acceptable Concentrations according to

Canadian Drinking Water Quality

Aquatic** Guidelines are for protection of aquatic life in waters with pH >6.5 and Hardness as CaC03 >180 mg/L

Canadian Water Quality Guidelines

Table 1.Silver Range Resources - KEG Claims January, 2013.
Routine Chemistry and Field Measurement Results

		STATIONS							
Parameter	**Unit**	**KEG#8**	**KEG#9**	**KEG#10**	**KEG#11**	**KEG#12**	**KEG#13**	**DWQ* G.lines**	**Aquatic** G.lines**
Monitoring Frequency		***Quarterly***	***Monthly***	***Quarterly***	***Quarterly***	***Quarterly***	***Quarterly***		
pH (field)	ru		7.52						
pH (lab)	ru		7.31					6.5-8.5	6.5-9
Electrical Conductivity (lab)	uS/cm		404						
Water temperature	C		0.3						
Flow Volume(field)	cms		nr						
Organic Carbon Total	mg/L		3.4						
Cyanide Total	mg/L		<0.002					0.2	0.005
Phosphorus Total	mg/L		0.012						
Ammonia - N	mg/L		<0.01						1.37-2.2
Nitrate - N	mg/L		0.2					10	
Nitrite - N	mg/L		<0.01					1	0.06
T-Alkalinity	mg/L		172						
Chloride	mg/L		0.22					<250	
Sulfate (SO4)	mg/L		55.2						
Hardness	mg CaCO3/L		222					<500	
Total Suspended Solids	mg/L		<2						
Total Dissolved Solids	mg/L		270					<500	

All results and limits in mg/L unless noted otherwis. Nr = no sample/reading

DWQ* Guidelines are Maximum Acceptable Concentrations according to
Canadian Drinking Water Quality

Aquatic** Guidelines are for protection of aquatic life in waters with pH >6.5 and Hardness as CaC03 >180 mg/L
Canadian Water Quality Guidelines

Table 2.Silver Range Resources - KEG Claims January, 2013.

Total Metals Analysis Results.

Parameter	Units	KEG #1	KEG #2	KEG #3	KEG #4	KEG #5	KEG #6	KEG #7	DWQ* G.Lines	Aquatic** G.Lines
Calcium	mg/L	83.8		33.7	81.7		85.6			
Iron	mg/L	0.143	No Surface	0.031	0.314	No Surface	17.9	No	0.3	0.3
Magnesium	mg/L	10.1	Flow	5.11	10.5	Flow	8.52	Sample		
Manganese	mg/L	0.0094		0.0042	0.0376		0.363		0.05	
Potassium	mg/L	2.8		1.2	3		1.8			
Silicon	mg/L	6.36		7.4	6.69		5.53			
Sulfur	mg/L									
Sodium	mg/L	4.5		3.8	5		1.5		<200	
Titanium	mg/L	0.0012		<0.0005	0.0021		<0.0005			
Aluminum	mg/L	0.027		0.007	0.039		0.537			0.1
Antimony	mg/L	0.0002		<0.0001	0.0002		0.0003		0.006	
Arsenic	mg/L	0.00205		0.00105	0.00222		0.0053		0.01	
Barium	mg/L	0.0805		0.062	0.0916		0.0337		1	
Beryllium	mg/L	<0.00005		<0.00005	<0.00005		0.00023			
Bismuth	mg/L	<0.0001		<0.0001	<0.0001		<0.0001			
Boron	mg/L	0.012		0.007	0.012		0.008			
Cadmium	mg/L	0.00008		0.00003	0.00005		0.00023		0.005	0.0018
Chromium	mg/L	<0.0005		<0.0005	<0.0005		<0.0005		0.05	0.002
Cobalt	mg/L	<0.0001		<0.0001	<0.0001		0.0111			
Copper	mg/L	0.0013		0.0007	0.0009		0.0075		1	0.004
Lead	mg/L	0.0002		0.0001	0.0002		0.0002			
Lithium	mg/L	0.0062		0.011	0.0066		0.0163			
Molybdenum	mg/L	0.00247		0.00136	0.00266		0.00012			
Nickel	mg/L	0.0023		0.0004	0.0008		0.103			0.15
Selenium	mg/L	0.0016		0.0002	0.0015		0.0009		0.01	0.001
Silver	mg/L	<0.00005		<0.00005	<0.00005		<0.00005			0.0001
Strontium	mg/L	0.204		0.11	0.204		0.0817			
Thallium	mg/L	<0.00001		<0.00001	<0.00001		0.00004			
Tin	mg/L	<0.0001		<0.0001	<0.0001		0.00004			
Uranium	mg/L	0.00341		0.0097	0.00373		0.00003		0.02	
Vanadium	mg/L	0.0004		0.0002	0.0005		0.0002			
Zinc	mg/L	0.006		0.0011	0.0016		0.24		<5	0.03
Zirconium	mg/L	<0.0005		<0.0005	<0.0005		<0.0005			
Mercury	mg/L	<0.0001		<0.0001	<0.0001		<0.0001		0.001	

indicates levels equal or exceed Guideline Limits

Table 2.Silver Range Resources - KEG Claims January, 2013.
Total Metals Analysis Results.

Parameter	Units	KEG#8	KEG#9	KEG#10	KEG#11	KEG#12	KEG#13	DWQ* G.Lines	Aquatic** G.Lines
Calcium	mg/L		75						
Iron	mg/L		0.342					0.3	0.3
Magnesium	mg/L		10.9						
Manganese	mg/L		0.0706					0.05	
Potassium	mg/L		1.7						
Silicon	mg/L		6.14						
Sulfur	mg/L								
Sodium	mg/L		3.9					<200	
Titanium	mg/L		<0.0005						
Aluminum	mg/L		0.009						0.1
Antimony	mg/L		0.0002					0.006	
Arsenic	mg/L		0.00131					0.01	
Barium	mg/L		0.0984					1	
Beryllium	mg/L		<0.00005						
Bismuth	mg/L		<0.0001						
Boron	mg/L		0.007						
Cadmium	mg/L		0.00006					0.005	0.0018
Chromium	mg/L		<0.0005					0.05	0.002
Cobalt	mg/L		<0.0001						
Copper	mg/L		0.0009					1	0.004
Lead	mg/L		0.0003						
Lithium	mg/L		0.0071						
Molybdenum	mg/L		0.00184						
Nickel	mg/L		0.001						0.15
Selenium	mg/L		0.0005					0.01	0.001
Silver	mg/L		<0.00005						0.0001
Strontium	mg/L		0.226						
Thallium	mg/L		<0.00001						
Tin	mg/L		<0.0001						
Uranium	mg/L		0.00257					0.02	
Vanadium	mg/L		0.0001						
Zinc	mg/L		0.0026					<5	0.03
Zirconium	mg/L		<0.0005						
Mercury	mg/L		<0.0001					0.001	

indicates levels equal or exceed Guideline Limits

Table 3.Silver Range Resources - KEG Claims January, 2013.

Dissolved Metals Analysis Results

Parameter	Units	KEG #1	KEG #2	KEG #3	KEG #4	KEG #5	KEG #6	KEG #7
Calcium	mg/L	81.1		33.1	78.8		82.6	
Iron	mg/L	0.032		0.043	0.039		16.3	
Magnesium	mg/L	10.1	No Surface	5.14	10.3	No Surface	8.49	
Manganese	mg/L	0.004	Flow	0.006	0.03	Flow	0.328	
Potassium	mg/L	2.9		1.2	3		1.8	
Silicon	mg/L	5.69		6.67	5.92		4.89	
Sodium	mg/L	4.3		3.5	4.5		1.4	
Sulfur	mg/L	28.2		3.3	22.6		76.8	
Aluminum	mg/L	<0.005		0.009	<0.005		0.341	
Antimony	mg/L	0.0005		0.0002	0.0002		0.0003	
Arsenic	mg/L	0.0017		0.001	0.0017		0.0034	
Barium	mg/L	0.079		0.071	0.085		0.032	
Beryllium	mg/L	<0.00004		<0.00004	<0.00004		0.00021	
Bismuth	mg/L	<0.001		<0.001	<0.001		<0.001	
Boron	mg/L	0.013		0.006	0.012		0.007	
Cadmium	mg/L	0.00008		0.00003	0.00004		0.00023	
Chromium	mg/L	0.0005		<0.0004	0.0006		<0.0004	
Cobalt	mg/L	0.00097		0.00049	0.00076		0.011	
Copper	mg/L	<0.001		<0.001	<0.001		0.006	
Lead	mg/L	<0.0001		<0.0001	<0.0001		<0.0001	
Lithium	mg/L	0.007		0.011	0.008		0.019	
Molybdenum	mg/L	0.00211		0.00117	0.00221		<0.00010	
Nickel	mg/L	0.003		<0.001	0.001		0.094	
Selenium	mg/L	0.0013		<0.0006	0.0013		<0.0006	
Silver	mg/L	0.00001		<0.00001	<0.00001		<0.00001	
Strontium	mg/L	0.198		0.111	0.191		0.078	
Titanium	mg/L	<0.010		<0.010	<0.010		<0.010	
Thallium	mg/L	0.00003		0.00001	<0.00001		0.00004	
Tin	mg/L	<0.0001		<0.0001	<0.0001		<0.0001	
Uranium	mg/L	0.0039		0.0096	0.0041		<0.0004	
Vanadium	mg/L	0.00026		0.00022	0.00031		<0.00010	
Zinc	mg/L	0.005		0.005	<0.001		0.242	
Zirconium	mg/L	<0.00010		<0.00010	<0.00010		0.00015	

Table 3.Silver Range Resources - KEG Claims January, 2013.
Dissolved Metals Analysis Results

Parameter	Units	KEG#8	KEG#9	KEG#10	KEG#11	KEG#12	KEG#13
Calcium	mg/L		71.3				
Iron	mg/L		0.115				
Magnesium	mg/L		10.7				
Manganese	mg/L		0.061				
Potassium	mg/L		1.7				
Silicon	mg/L		5.42				
Sodium	mg/L		3.5				
Sulfur	mg/L		17.7				
Aluminum	mg/L		<0.005				
Antimony	mg/L		<0.0002				
Arsenic	mg/L		0.0008				
Barium	mg/L		0.095				
Beryllium	mg/L		<0.00004				
Bismuth	mg/L		<0.001				
Boron	mg/L		0.007				
Cadmium	mg/L		0.00006				
Chromium	mg/L		0.0016				
Cobalt	mg/L		0.00066				
Copper	mg/L		<0.001				
Lead	mg/L		<0.0001				
Lithium	mg/L		0.008				
Molybdenum	mg/L		0.00148				
Nickel	mg/L		0.002				
Selenium	mg/L		<0.0006				
Silver	mg/L		<0.00001				
Strontium	mg/L		0.22				
Titanium	mg/L		<0.010				
Thallium	mg/L		<0.00001				
Tin	mg/L		<0.0001				
Uranium	mg/L		0.0029				
Vanadium	mg/L		0.0002				
Zinc	mg/L		0.006				
Zirconium	mg/L		<0.00010				

Table 4.Silver Range Resources - KEG Claims March, 2013.
Routine Chemistry and Field Measurement Results

Parameter	Unit	STATIONS KEG #1	KEG #2	KEG #3	KEG #4	KEG #5	KEG #6	KEG #7	DWQ* G.lines	Aquatic** G.lines
Monitoring Frequency		***Monthly***	***Monthly***	***Monthly***	***Monthly***	***Monthly***	***Monthly***	***Quarterly***		
pH (field)	ru	8.38		8.5	8.10		7.55			
pH (lab)	ru	7.66	No	7.83	7.81	No	5.71	No	6.5-8.5	6.5-9
Electrical Conductivity (lab)		465	Surface	220	458	Surface	521	Surface		
Water temperature	C	0.1	Flow	0.4	0.1	Flow	0.2	Flow		
Flow Volume(field)	cms	0.12		0.053	0.069		0.0001			
Organic Carbon Total	mg/L	3.2		2.7	3.2		3.2			
Cyanide Total	mg/L	<0.002		<0.002	<0.002		<0.002		0.2	0.005
Phosphorus Total	mg/L	0.009		<0.003	0.016		<0.003			
Ammonia - N	mg/L	0.03		0.02	0.04		0.18			1.37-2.2
Nitrate - N	mg/L	0.3		0.17	0.28		0.05		10	
Nitrite - N	mg/L	0.1		0.06	0.11		0.03		1	0.06
T-Alkalinity	mg/L	162		106	175		12			
Chloride	mg/L	0.35		0.12	0.34		0.24		<250	
Sulfate (SO4)	mg/L	89.8		10.2	72.9		255			
Hardness	mg CaCO3/L	245		111	240		246		<500	
Total Suspended Solids	mg/L	<2		<2	<2		8			
Total Dissolved Solids	mg/L	316		132	324		388		<500	

All results and limits in mg/L unless noted otherwis. Nr = no sample/reading

DWQ* Guidelines are Maximum Acceptable Concentrations according to

Canadian Drinking Water Quality

Aquatic** Guidelines are for protection of aquatic life in waters with pH >6.5 and Hardness as CaC03 >180 mg/L

Canadian Water Quality Guidelines

Table 4.Silver Range Resources - KEG Claims March, 2013.
Routine Chemistry and Field Measurement Results

		STATIONS							
Parameter	**Unit**	**KEG#8**	**KEG#9**	**KEG#10**	**KEG#11**	**KEG#12**	**KEG#13**	**DWQ* G.lines**	**Aquatic** G.lines**
Monitoring Frequency		*Quarterly*	*Monthly*	*Quarterly*	*Quarterly*	*Quarterly*	*Quarterly*		
pH (field)	ru	8.34	8.24		8.35	8.4	8.35		
pH (lab)	ru	7.31	7.34	No	7.72	7.72	7.47	6.5-8.5	6.5-9
Electrical Conductivity (lab)	uS/cm	500	756	Surface	693	734	745		
Water temperature	C	0	0.7	Flow	0.2	0	0.1		
Flow Volume(field)	cms	nr	nr		0.044	nr	nr		
Organic Carbon Total	mg/L	2.9	8.7		2.6	3	2.1		
Cyanide Total	mg/L	<0.002	<0.002		<0.002	<0.002	<0.002	0.2	0.005
Phosphorus Total	mg/L	0.012	0.038		0.016	0.004	0.007		
Ammonia - N	mg/L	<0.01	0.09		<0.01	<0.01	0.03		1.37-2.2
Nitrate - N	mg/L	0.04	0.34		0.23	0.27	0.25	10	
Nitrite - N	mg/L	0.11	0.09		0.11	0.13	0.11	1	0.06
T-Alkalinity	mg/L	174	294		163	207	172		
Chloride	mg/L	0.14	1.99		0.22	0.18	0.35	<250	
Sulfate (SO4)	mg/L	95	126		218	201	241		
Hardness	mg CaCO3/L	269	343		378	408	413	<500	
Total Suspended Solids	mg/L	4	<2		<2	<2	<2		
Total Dissolved Solids	mg/L	344	524		504	514	548	<500	

All results and limits in mg/L unless noted otherwis. Nr = no sample/reading

DWQ* Guidelines are Maximum Acceptable Concentrations according to
Canadian Drinking Water Quality

Aquatic** Guidelines are for protection of aquatic life in waters with pH >6.5 and Hardness as CaC03 >180 mg/L
Canadian Water Quality Guidelines

Table 5.Silver Range Resources - KEG Claims March, 2013.

Total Metals Analysis Results.

Parameter	Units	KEG #1	KEG #2	KEG #3	KEG #4	KEG #5	KEG #6	KEG #7	DWQ* G.Lines	Aquatic** G.Lines
Calcium	mg/L	83.3		36.8	83.6		87.4			
Iron	mg/L	0.134	No	0.034	0.262	No	17.5	No	0.3	0.3
Magnesium	mg/L	9.76	Surface	5.45	10.4	Surface	8.63	Surface		
Manganese	mg/L	0.0067	Flow	0.0052	0.0327	Flow	0.387	Flow	0.05	
Potassium	mg/L	2.8		1.3	3.2		1.8			
Silicon	mg/L	6.1		7.4	6.59		5.48			
Sulfur	mg/L									
Sodium	mg/L	4.6		4.6	5.2		1.7		<200	
Titanium	mg/L	0.0008		<0.0005	0.0011		<0.0005			
Aluminum	mg/L	0.018		0.01	0.022		0.544			0.1
Antimony	mg/L	0.0002		<0.0001	0.0001		0.0002		0.006	
Arsenic	mg/L	0.00188		0.00119	0.00235		0.00389		0.01	
Barium	mg/L	0.08		0.0686	0.0953		0.0353		1	
Beryllium	mg/L	<0.00005		<0.00005	<0.00005		0.00027			
Bismuth	mg/L	<0.0001		<0.0001	<0.0001		<0.0001			
Boron	mg/L	0.012		0.006	0.013		0.008			
Cadmium	mg/L	0.00008		0.00004	0.00005		0.00026		0.005	0.0018
Chromium	mg/L	<0.0005		<0.0005	<0.0005		<0.0005		0.05	0.002
Cobalt	mg/L	<0.0001		<0.0001	<0.0001		0.0112			
Copper	mg/L	0.0012		0.0011	0.001		0.0074		1	0.004
Lead	mg/L	<0.0001		0.0002	<0.0001		<0.0001			
Lithium	mg/L	0.0067		0.0124	0.0071		0.018			
Molybdenum	mg/L	0.00245		0.00154	0.00282		0.00011			
Nickel	mg/L	0.0024		0.0006	0.0008		0.106			0.15
Selenium	mg/L	0.0014		0.0004	0.0015		0.0008		0.01	0.001
Silver	mg/L	<0.00005		<0.00005	<0.00005		<0.00005			0.0001
Strontium	mg/L	0.203		0.125	0.213		0.0831			
Thallium	mg/L	<0.00001		<0.00001	<0.00001		0.00004			
Tin	mg/L	<0.0001		<0.0001	<0.0001		<0.0001			
Uranium	mg/L	0.00394		0.0122	0.00453		0.00002		0.02	
Vanadium	mg/L	0.0003		0.0002	0.0004		0.0002			
Zinc	mg/L	0.0056		0.004	0.001		0.266		<5	0.03
Zirconium	mg/L	<0.0005		<0.0005	<0.0005		<0.0005			
Mercury	mg/L	<0.0001		<0.0001	<0.0001		<0.0001		0.001	

indicates levels equal or exceed Guideline Limits

Table 5.Silver Range Resources - KEG Claims March, 2013.
Total Metals Analysis Results.

Parameter	Units	KEG#8	KEG#9	KEG#10	KEG#11	KEG#12	KEG#13	DWQ* G.Lines	Aquatic** G.Lines
Calcium	mg/L	99.5	109		128	140	136		
Iron	mg/L	0.054	0.432		0.033	0.03	0.035	0.3	0.3
Magnesium	mg/L	7.32	19.9	No	17.9	18.2	20.2		
Manganese	mg/L	0.0198	0.146	Surface	0.0137	0.0092	0.0085	0.05	
Potassium	mg/L	1.8	3.8	Flow	1.6	1.7	1.7		
Silicon	mg/L	5.77	9.38		4.66	4.61	4.52		
Sulfur	mg/L								
Sodium	mg/L	2.7	9.4		3	2.5	2.4	<200	
Titanium	mg/L	0.0008	0.0011		<0.0005	<0.0005	<0.0005		
Aluminum	mg/L	0.023	0.029		0.006	0.007	0.008		0.1
Antimony	mg/L	0.0005	0.0005		0.0004	0.0003	0.0005	0.006	
Arsenic	mg/L	0.00114	0.00175		0.00048	0.00045	0.00136	0.01	
Barium	mg/L	0.0711	0.162		0.0619	0.0747	0.0889	1	
Beryllium	mg/L	<0.00005	<0.00005		<0.00005	<0.00005	<0.00005		
Bismuth	mg/L	<0.0001	<0.0001		<0.0001	<0.0001	<0.0001		
Boron	mg/L	0.007	0.011		0.007	0.005	0.007		
Cadmium	mg/L	0.00013	0.00014		0.0002	0.00031	0.00119	0.005	0.0018
Chromium	mg/L	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	0.05	0.002
Cobalt	mg/L	<0.0001	0.0002		<0.0001	<0.0001	<0.0001		
Copper	mg/L	0.0009	0.0063		0.0008	0.001	0.0011	1	0.004
Lead	mg/L	<0.0001	0.0005		<0.0001	<0.0001	0.0002		
Lithium	mg/L	0.0013	0.0095		0.003	0.0056	0.0018		
Molybdenum	mg/L	0.00216	0.00291		0.00186	0.00252	0.00154		
Nickel	mg/L	0.0006	0.0027		0.0012	0.0019	0.0028		0.15
Selenium	mg/L	0.0008	0.001		0.003	0.0021	0.003	0.01	0.001
Silver	mg/L	<0.00005	<0.00005		<0.00005	<0.00005	<0.00005		0.0001
Strontium	mg/L	0.282	0.396		0.335	0.453	0.368		
Thallium	mg/L	<0.00001	<0.00001		<0.00001	0.00001	<0.00001		
Tin	mg/L	<0.0001	<0.0001		<0.0001	<0.0001	<0.0001		
Uranium	mg/L	0.00183	0.00296		0.00352	0.00342	0.00447	0.02	
Vanadium	mg/L	0.0002	0.0003		0.0002	0.0002	0.0002		
Zinc	mg/L	0.0013	0.0178		0.003	0.0124	0.0258	<5	0.03
Zirconium	mg/L	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005		
Mercury	mg/L	<0.0001	<0.0001		<0.0001	0.0001	<0.0001	0.001	

indicates levels equal or exceed Guideline Limits

Table 6.Silver Range Resources - KEG Claims March, 2013.

Dissolved Metals Analysis Results

Parameter	Units	KEG #1	KEG #2	KEG #3	KEG #4	KEG #5	KEG #6	KEG #7
Calcium	mg/L	81.5		35.2	79		83.8	
Iron	mg/L	0.02		0.024	0.06		15.8	
Magnesium	mg/L	10	No Surface	5.59	10.4	No Surface	8.83	No Surface
Manganese	mg/L	0.005	Flow	0.004	0.025	Flow	0.345	Flow
Potassium	mg/L	2.6		1.2	3		1.8	
Silicon	mg/L	5.58		6.68	5.85		4.96	
Sodium	mg/L	4.4		4.2	4.9		1.6	
Sulfur	mg/L	27.8		3.3	22.3		78.7	
Aluminum	mg/L	<0.005		<0.005	<0.005		0.377	
Antimony	mg/L	0.0004		<0.0002	0.0002		0.0003	
Arsenic	mg/L	0.0016		0.0011	0.0016		0.0033	
Barium	mg/L	0.076		0.064	0.085		0.032	
Beryllium	mg/L	<0.00004		<0.00004	<0.00004		0.00026	
Bismuth	mg/L	<0.001		<0.001	<0.001		<0.001	
Boron	mg/L	0.014		0.006	0.013		0.008	
Cadmium	mg/L	0.00008		0.00002	0.00004		0.00025	
Chromium	mg/L	0.0008		0.0005	0.0008		<0.0004	
Cobalt	mg/L	0.00066		0.00014	0.00005		0.0108	
Copper	mg/L	<0.001		<0.001	0.002		0.007	
Lead	mg/L	<0.0001		<0.0001	<0.0001		<0.0001	
Lithium	mg/L	0.007		0.012	0.008		0.02	
Molybdenum	mg/L	0.00218		0.00123	0.0023		<0.00010	
Nickel	mg/L	0.003		<0.001	0.002		0.103	
Selenium	mg/L	0.0011		<0.0006	0.0011		<0.0006	
Silver	mg/L	<0.00001		<0.00001	<0.00001		<0.00001	
Strontium	mg/L	0.201		0.115	0.196		0.083	
Titanium	mg/L	<0.010		<0.010	<0.010		<0.010	
Thallium	mg/L	<0.00001		<0.00001	<0.00001		0.00004	
Tin	mg/L	<0.0001		<0.0001	<0.0001		<0.0001	
Uranium	mg/L	0.0042		0.0117	0.0047		<0.0004	
Vanadium	mg/L	0.00038		0.00029	0.00041		0.00016	
Zinc	mg/L	0.005		0.002	0.001		0.26	
Zirconium	mg/L	0.0001		<0.00010	<0.00010		<0.00010	

Table 6.Silver Range Resources - KEG Claims March, 2013.
Dissolved Metals Analysis Results

Parameter	Units	KEG#8	KEG#9	KEG#10	KEG#11	KEG#12	KEG#13
Calcium	mg/L	95.3	104		122	133	131
Iron	mg/L	0.022	0.076		0.015	0.015	0.025
Magnesium	mg/L	7.48	20.5	No Surface	18	18.4	20.8
Manganese	mg/L	0.018	0.124	Flow	0.008	0.006	0.006
Potassium	mg/L	1.7	3.1		1.5	1.6	1.5
Silicon	mg/L	5.27	8.54		4.17	4.16	4.14
Sodium	mg/L	2.6	8.5		2.8	2.3	2.2
Sulfur	mg/L	30.3	31.9		67.2	62.7	74.3
Aluminum	mg/L	<0.005	<0.005		<0.005	<0.005	<0.005
Antimony	mg/L	0.0005	0.0003		0.0004	0.0003	0.0004
Arsenic	mg/L	0.0011	0.0011		0.0005	0.0002	0.0013
Barium	mg/L	0.066	0.152		0.058	0.07	0.083
Beryllium	mg/L	<0.00004	<0.00004		<0.00004	<0.00004	<0.00004
Bismuth	mg/L	<0.001	<0.001		<0.001	<0.001	<0.001
Boron	mg/L	0.007	0.011		0.007	<0.004	0.005
Cadmium	mg/L	0.00007	0.00009		0.00017	0.00026	0.00108
Chromium	mg/L	0.0007	0.0014		0.0007	0.001	0.0009
Cobalt	mg/L	0.00035	0.00015		0.00049	0.00007	0.00036
Copper	mg/L	<0.001	0.003		<0.001	<0.001	<0.001
Lead	mg/L	<0.0001	<0.0001		<0.0001	<0.0001	0.0002
Lithium	mg/L	0.001	0.011		0.004	0.006	0.002
Molybdenum	mg/L	0.00191	0.00255		0.00158	0.00217	0.00128
Nickel	mg/L	0.002	0.004		0.003	0.003	0.004
Selenium	mg/L	<0.0006	0.001		0.0027	0.0026	0.0033
Silver	mg/L	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001
Strontium	mg/L	0.273	0.385		0.324	0.43	0.359
Titanium	mg/L	<0.010	<0.010		<0.010	<0.010	<0.010
Thallium	mg/L	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001
Tin	mg/L	<0.0001	<0.0001		<0.0001	<0.0001	<0.0001
Uranium	mg/L	0.0019	0.0032		0.0037	0.0036	0.0047
Vanadium	mg/L	0.00028	0.00048		0.0003	0.0004	0.00037
Zinc	mg/L	0.001	0.012		0.003	0.012	0.024
Zirconium	mg/L	0.00011	0.00013		<0.00010	0.00011	0.00011

Table 7. Silver Range Resources - Summary of KEG Project Stations Flow Volumes 2010 to 2013

(Cubic meters per second)

Station	Date											
	Aug-10	Oct-10	Mar-11	Jun-11	Sep-11	Mar-12	May-12	Jul-12	Oct-12	Nov-12	Dec-12	Mar-13
KEG #1	0.249	0.362	0.025	0.939	0.785	0.057	0.6995	1.270	0.312	0.215	0.114	0.12
KEG #2	Dry	Dry	Dry	0.008 E	0.003 E	Dry	1.1247 0.0015 E	1.3736	0.0005 E	dry	dry	dry
KEG #3	nr	nr	nr	nr	nr	nr	0.6237	0.9296	0.328	nr	nr	0.053
KEG #4	0.211	0.261	0.028	0.758	nr	0.012	0.7403	1.206	0.323	nr	nr	0.089
KEG #5	0.139	0.0006	Dry	0.011	0.011	Dry	0.0253	0.013	0.004 E	dry	dry	dry
KEG #6	0.007	0.009	0.001	0.013	0.013	Dry	0.0163	0.0269	0.006	<0.001 e	<0.001 e	<0.001e
KEG #7	0.011	0.011	Overflow	0.048	0.057	Overflow	0.0787	0.0485	0.031	nr	nr	dry
KEG #8	0.055 E	0.014	Dry	0.1003	0.050	nr	0.0787	0.0764	0.049	nr	nr	nr
KEG #10	nr	0.167	Dry	0.644	0.18	Dry	0.7094	0.3262	0.107	nr	nr	dry
KEG #11	nr	0.217	0.11	0.143	0.513	0.035	0.4049	0.751	0.288	nr	nr	0.044
KEG #12	nr	0.11	Dry	0.250 E	0.210	0.007 E	0.5426 0.2044	0.7974 0.4203	0.035	nr	nr	nr
KEG #13	nr	0.143	0.002 E	0.499	0.295	0.002 E	0.2423	0.7296	0.185	nr	nr	nr

E=flow estimated

Discussion

Hydrology

All hydrology stations on the KEG claims were in low flow stage flow conditions under full ice cover.

In January, Stations KEG #2 and #5 had no surface flow with channel ice to stream invert.

In March, Station KEG#2, #5, #7 and #10 had no surface flow with channel ice to stream invert.

Laboratory Analytical Results

Parameters that equal or exceed either ***Drinking Water or Aquatic Guidelines*** are highlighted in yellow.

January 2013

Station KEG#1 results exceed the ***Aquatic Guidelines*** for selenium.

Station KEG#4 results equal or exceed ***Aquatic Guidelines*** for iron and selenium; and exceed the ***Drinking Water MAC*** for iron.

Station KEG#6 results exceed ***Aquatic Guidelines*** for aluminum, iron, copper and zinc; and exceed the ***Drinking Water MAC*** for iron and manganese.

Station KEG#9 (receiving waters) results exceed ***Aquatic Guidelines*** for iron; and exceed the ***Drinking Water MAC*** for iron and manganese.

March 2013

Station KEG#1 results exceed the ***Aquatic Guidelines*** for selenium.

Station KEG#4 results exceed ***Aquatic Guidelines*** for selenium.

Station KEG#6 results exceed ***Aquatic Guidelines*** for aluminum, iron, copper and zinc; and exceed the ***Drinking Water MAC*** for iron and manganese.

Station KEG #9 (receiving waters) results exceed ***Aquatic Guideline*** for iron, copper and selenium; and the ***Drinking Water MAC's*** for iron and manganese.

Stations KEG#11, #12, #13 results exceed ***Aquatic Guideline*** for selenium.

Stations KEG #3 and #8 met all ***Aquatic and Drinking Water Guideline*** limits.

Total Mercury concentrations were at or below the detection limit of 0.0001 mg/L at all KEG stations.
Total Cyanide concentrations were below the detection limit of 0.002 mg/L at all KEG stations.

APPENDIX 1

LABORATORY ANALYTICAL REPORTS

KEG Claims

January and March 2013

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Report Transmission Cover Page

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**918631**
Report To:	J. Gibson & Associates	ID:	Silver Range Resources	Control Number:	A246265
	Box 20913	Name:	KEG Project (SRR)	Date Received:	Feb 5, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Feb 12, 2013
	Y1A 6P2	LSD:		Report Number:	1802659
Attn:	John Gibson	P.O.:			
Sampled By:	J Gibson	Acct code:			
Company:	J Gibson				

Contact & Affiliation	Address	Delivery Commitments
John Gibson J. Gibson & Associates	, Box 20913 Whitehorse, Yukon Territory Y1A 6P2 Phone: (867) 633-4522 Fax: (867) 668-6895 Email: ludditegibson@gmail.com	On [Lot Verification] send (COA) by Email - Single Report On [Report Approval] send (COC, Test Report) by Email - Merge Reports On [Report Approval] send (Test Report) by Email - Single Report On [Lot Approval and Final Test Report Approval] send (Invoice) by Email - Single Report On [Lot Creation] send (COR) by Email - Single Report

Notes To Clients:

- Analysis was performed on samples 918631-1 to 5 that exceeded the recommended holding time for Total Phosphorus analysis.
- pH analysis was performed past the recommended holding time of 15 minutes from sample collection.

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J Gibson
Company: J Gibson

Project:
ID: Silver Range Resources
Name: KEG Project (SRR)
Location:
LSD:
P.O.:
Acct code:

Lot ID: **918631**
Control Number: A246265
Date Received: Feb 5, 2013
Date Reported: Feb 12, 2013
Report Number: 1802659

	Reference Number	918631-1	918631-2	918631-3	
	Sample Date	Jan 31, 2013	Jan 31, 2013	Jan 31, 2013	
	Sample Time	NA	NA	NA	
	Sample Location	Surface	Surface	Surface	
	Sample Description	Keg #1 / Surface	Keg #3 / Surface	Keg #4 / Surface	
	Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Inorganic Nonmetallic Parameters						
Organic Carbon	Total Nonpurgeable	mg/L	3.7	2.9	3.2	0.5
Cyanide	Total	mg/L	<0.002	<0.002	<0.002	0.002
Phosphorus	Total	mg/L	0.007	<0.003	0.015	0.003
Ammonia - N		mg/L	0.09	0.08	0.09	.01
Metals Dissolved						
Sulfur	Dissolved	mg/L	28.2	3.3	22.6	0.2
Aluminum	Dissolved	mg/L	<0.005	0.009	<0.005	0.005
Antimony	Dissolved	mg/L	0.0005	0.0002	0.0002	0.0002
Arsenic	Dissolved	mg/L	0.0017	0.0010	0.0017	0.0002
Barium	Dissolved	mg/L	0.079	0.071	0.085	0.001
Beryllium	Dissolved	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Boron	Dissolved	mg/L	0.013	0.006	0.012	0.004
Cadmium	Dissolved	mg/L	0.00008	0.00003	0.00004	0.00001
Chromium	Dissolved	mg/L	0.0005	<0.0004	0.0006	0.0004
Cobalt	Dissolved	mg/L	0.00097	0.00049	0.00076	0.00002
Copper	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Lead	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Lithium	Dissolved	mg/L	0.007	0.011	0.008	0.001
Molybdenum	Dissolved	mg/L	0.00211	0.00117	0.00221	0.0001
Nickel	Dissolved	mg/L	0.003	<0.001	0.001	0.001
Selenium	Dissolved	mg/L	0.0013	<0.0006	0.0013	0.0006
Silver	Dissolved	mg/L	0.00001	<0.00001	<0.00001	0.00001
Titanium	Dissolved	mg/L	<0.010	<0.010	<0.010	0.01
Strontium	Dissolved	mg/L	0.198	0.111	0.191	0.001
Tellurium	Dissolved	mg/L	0.0001	0.0001	<0.0001	0.0001
Thallium	Dissolved	mg/L	0.00003	0.00001	<0.00001	0.00001
Thorium	Dissolved	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Uranium	Dissolved	mg/L	0.0039	0.0096	0.0041	0.0004
Vanadium	Dissolved	mg/L	0.00026	0.00022	0.00031	0.0001
Zinc	Dissolved	mg/L	0.005	0.005	<0.001	0.001
Zirconium	Dissolved	mg/L	<0.00010	<0.00010	<0.00010	0.0001
Metals Total						
Mercury	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Aluminum	Total	mg/L	0.027	0.007	0.039	0.005

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J Gibson
Company: J Gibson

Project:
ID: Silver Range Resources
Name: KEG Project (SRR)
Location:
LSD:
P.O.:
Acct code:

Lot ID: **918631**
Control Number: A246265
Date Received: Feb 5, 2013
Date Reported: Feb 12, 2013
Report Number: 1802659

			Reference Number	918631-1	918631-2	918631-3	
			Sample Date	Jan 31, 2013	Jan 31, 2013	Jan 31, 2013	
			Sample Time	NA	NA	NA	
			Sample Location	Surface	Surface	Surface	
			Sample Description	Keg #1 / Surface	Keg #3 / Surface	Keg #4 / Surface	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Total - Continued							
Antimony	Total	mg/L		0.0002	<0.0001	0.0002	0.0001
Arsenic	Total	mg/L		0.00205	0.00105	0.00222	0.00005
Barium	Total	mg/L		0.0805	0.0620	0.0916	0.00005
Beryllium	Total	mg/L		<0.00005	<0.00005	<0.00005	0.00005
Bismuth	Total	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Boron	Total	mg/L		0.012	0.007	0.012	.002
Cadmium	Total	mg/L		0.00008	0.00003	0.00005	0.00001
Calcium	Total	mg/L		83.8	33.7	81.7	0.05
Chromium	Total	mg/L		<0.0005	<0.0005	<0.0005	0.0005
Cobalt	Total	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Copper	Total	mg/L		0.0013	0.0007	0.0009	0.0001
Iron	Total	mg/L		0.143	0.031	0.314	0.002
Lead	Total	mg/L		0.0002	0.0001	0.0002	0.0001
Lithium	Total	mg/L		0.0062	0.0110	0.0066	0.0005
Magnesium	Total	mg/L		10.1	5.11	10.5	0.04
Manganese	Total	mg/L		0.0094	0.0042	0.0376	0.001
Molybdenum	Total	mg/L		0.00247	0.00136	0.00266	0.00005
Nickel	Total	mg/L		0.0023	0.0004	0.0008	0.0002
Potassium	Total	mg/L		2.8	1.2	3.0	0.1
Selenium	Total	mg/L		0.0016	0.0002	0.0015	0.0001
Silicon	Total	mg/L		6.36	7.40	6.69	0.02
Silver	Total	mg/L		<0.00005	<0.00005	<0.00005	0.0005
Sodium	Total	mg/L		4.5	3.8	5.0	0.1
Strontium	Total	mg/L		0.204	0.110	0.204	0.0001
Thallium	Total	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Thorium	Total	mg/L		0.00001	0.00002	0.00001	0.00001
Tin	Total	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Titanium	Total	mg/L		0.0012	<0.0005	0.0021	0.0005
Uranium	Total	mg/L		0.00341	0.00970	0.00373	0.00001
Vanadium	Total	mg/L		0.0004	0.0002	0.0005	0.0001
Zinc	Total	mg/L		0.0060	0.0011	0.0016	0.0005
Zirconium	Total	mg/L		<0.0005	<0.0005	<0.0005	0.0005
Hardness	as CaCO3	mg/L		251	105	247	1
Physical and Aggregate Properties							
Solids	Total Suspended	mg/L		<2	<2	<2	2
Solids	Total Dissolved	mg/L		302	132	296	5

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**918631**
Report To:	J. Gibson & Associates	ID:	Silver Range Resources	Control Number:	A246265
	Box 20913	Name:	KEG Project (SRR)	Date Received:	Feb 5, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Feb 12, 2013
	Y1A 6P2	LSD:		Report Number:	1802659
Attn:	John Gibson	P.O.:			
Sampled By:	J Gibson	Acct code:			
Company:	J Gibson				

			Reference Number	918631-1	918631-2	918631-3	
			Sample Date	Jan 31, 2013	Jan 31, 2013	Jan 31, 2013	
			Sample Time	NA	NA	NA	
			Sample Location	Surface	Surface	Surface	
			Sample Description	Keg #1 / Surface	Keg #3 / Surface	Keg #4 / Surface	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Routine Water							
pH	at 25 °C			7.92	7.99	8.02	
Electrical Conductivity		µS/cm at 25 C		436	196	441	1
Calcium	Dissolved	mg/L		81.1	33.1	78.8	0.1
Iron	Dissolved	mg/L		0.032	0.043	0.039	0.005
Magnesium	Dissolved	mg/L		10.1	5.14	10.3	0.1
Manganese	Dissolved	mg/L		0.004	0.006	0.030	0.001
Potassium	Dissolved	mg/L		2.9	1.2	3.0	0.1
Silicon	Dissolved	mg/L		5.69	6.67	5.92	0.05
Sodium	Dissolved	mg/L		4.3	3.5	4.5	0.1
Bicarbonate		mg/L		194	120	213	5
Carbonate		mg/L		<6	<6	<6	6
Hydroxide		mg/L		<5	<5	<5	5
P-Alkalinity	as CaCO3	mg/L		<5	<5	<5	5
T-Alkalinity	as CaCO3	mg/L		159	98	174	5
Chloride	Dissolved	mg/L		0.32	0.10	0.28	0.05
Nitrate - N	Dissolved	mg/L		0.26	0.16	0.22	0.01
Nitrite - N	Dissolved	mg/L		<0.01	<0.01	<0.01	0.01
Sulfate (SO4)	Dissolved	mg/L		83.6	9.6	68.4	0.5
Hardness	as CaCO3	mg/L		244	104	239	5

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J Gibson
Company: J Gibson

Project:
ID: Silver Range Resources
Name: KEG Project (SRR)
Location:
LSD:
P.O.:
Acct code:

Lot ID: **918631**
Control Number: A246265
Date Received: Feb 5, 2013
Date Reported: Feb 12, 2013
Report Number: 1802659

	Reference Number	918631-4	918631-5		
	Sample Date	Jan 31, 2013	Jan 31, 2013		
	Sample Time	NA	NA		
	Sample Location	Surface	Surface		
	Sample Description	Keg #6 / Surface	Keg #9 / Surface		
	Matrix	Water	Water		
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Inorganic Nonmetallic Parameters						
Organic Carbon	Total Nonpurgeable	mg/L	3.5	3.4		0.5
Cyanide	Total	mg/L	<0.002	<0.002		0.002
Phosphorus	Total	mg/L	<0.003	0.012		0.003
Ammonia - N		mg/L	0.24	<0.01		.01
Metals Dissolved						
Sulfur	Dissolved	mg/L	76.8	17.7		0.2
Aluminum	Dissolved	mg/L	0.341	<0.005		0.005
Antimony	Dissolved	mg/L	0.0003	<0.0002		0.0002
Arsenic	Dissolved	mg/L	0.0034	0.0008		0.0002
Barium	Dissolved	mg/L	0.032	0.095		0.001
Beryllium	Dissolved	mg/L	0.00021	<0.00004		0.00004
Bismuth	Dissolved	mg/L	<0.001	<0.001		0.001
Boron	Dissolved	mg/L	0.007	0.007		0.004
Cadmium	Dissolved	mg/L	0.00023	0.00006		0.00001
Chromium	Dissolved	mg/L	<0.0004	0.0016		0.0004
Cobalt	Dissolved	mg/L	0.0110	0.00066		0.00002
Copper	Dissolved	mg/L	0.006	<0.001		0.001
Lead	Dissolved	mg/L	<0.0001	<0.0001		0.0001
Lithium	Dissolved	mg/L	0.019	0.008		0.001
Molybdenum	Dissolved	mg/L	<0.00010	0.00148		0.0001
Nickel	Dissolved	mg/L	0.094	0.002		0.001
Selenium	Dissolved	mg/L	<0.0006	<0.0006		0.0006
Silver	Dissolved	mg/L	<0.00001	<0.00001		0.00001
Titanium	Dissolved	mg/L	<0.010	<0.010		0.01
Strontium	Dissolved	mg/L	0.078	0.220		0.001
Tellurium	Dissolved	mg/L	0.0001	0.0001		0.0001
Thallium	Dissolved	mg/L	0.00004	<0.00001		0.00001
Thorium	Dissolved	mg/L	<0.0004	<0.0004		0.0004
Tin	Dissolved	mg/L	<0.0001	<0.0001		0.0001
Uranium	Dissolved	mg/L	<0.0004	0.0029		0.0004
Vanadium	Dissolved	mg/L	<0.00010	0.00020		0.0001
Zinc	Dissolved	mg/L	0.242	0.006		0.001
Zirconium	Dissolved	mg/L	0.00015	<0.00010		0.0001
Metals Total						
Mercury	Total	mg/L	<0.0001	<0.0001		0.0001
Aluminum	Total	mg/L	0.537	0.009		0.005

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J Gibson
Company: J Gibson

Project:
ID: Silver Range Resources
Name: KEG Project (SRR)
Location:
LSD:
P.O.:
Acct code:

Lot ID: **918631**
Control Number: A246265
Date Received: Feb 5, 2013
Date Reported: Feb 12, 2013
Report Number: 1802659

	Reference Number	918631-4	918631-5		
	Sample Date	Jan 31, 2013	Jan 31, 2013		
	Sample Time	NA	NA		
	Sample Location	Surface	Surface		
	Sample Description	Keg #6 / Surface	Keg #9 / Surface		
	Matrix	Water	Water		
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Total - Continued						
Antimony	Total	mg/L	0.0003	0.0002		0.0001
Arsenic	Total	mg/L	0.00530	0.00131		0.00005
Barium	Total	mg/L	0.0337	0.0984		0.00005
Beryllium	Total	mg/L	0.00023	<0.00005		0.00005
Bismuth	Total	mg/L	<0.0001	<0.0001		0.0001
Boron	Total	mg/L	0.008	0.007		.002
Cadmium	Total	mg/L	0.00023	0.00006		0.00001
Calcium	Total	mg/L	85.6	75.0		0.05
Chromium	Total	mg/L	<0.0005	<0.0005		0.0005
Cobalt	Total	mg/L	0.0111	<0.0001		0.0001
Copper	Total	mg/L	0.0075	0.0009		0.0001
Iron	Total	mg/L	17.9	0.342		0.002
Lead	Total	mg/L	0.0002	0.0003		0.0001
Lithium	Total	mg/L	0.0163	0.0071		0.0005
Magnesium	Total	mg/L	8.52	10.9		0.04
Manganese	Total	mg/L	0.363	0.0706		0.001
Molybdenum	Total	mg/L	0.00012	0.00184		0.00005
Nickel	Total	mg/L	0.103	0.0010		0.0002
Potassium	Total	mg/L	1.8	1.7		0.1
Selenium	Total	mg/L	0.0009	0.0005		0.0001
Silicon	Total	mg/L	5.53	6.14		0.02
Silver	Total	mg/L	<0.00005	<0.00005		0.0005
Sodium	Total	mg/L	1.5	3.9		0.1
Strontium	Total	mg/L	0.0817	0.226		0.0001
Thallium	Total	mg/L	0.00004	<0.00001		0.00001
Thorium	Total	mg/L	0.00001	<0.00001		0.00001
Tin	Total	mg/L	<0.0001	<0.0001		0.0001
Titanium	Total	mg/L	<0.0005	<0.0005		0.0005
Uranium	Total	mg/L	0.00003	0.00257		0.00001
Vanadium	Total	mg/L	0.0002	0.0001		0.0001
Zinc	Total	mg/L	0.240	0.0026		0.0005
Zirconium	Total	mg/L	<0.0005	<0.0005		0.0005
Hardness	as CaCO3	mg/L	249	232		1
Physical and Aggregate Properties						
Solids	Total Suspended	mg/L	10	<2		2
Solids	Total Dissolved	mg/L	378	270		5

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J Gibson
Company: J Gibson

Project:
ID: Silver Range Resources
Name: KEG Project (SRR)
Location:
LSD:
P.O.:
Acct code:

Lot ID: **918631**
Control Number: A246265
Date Received: Feb 5, 2013
Date Reported: Feb 12, 2013
Report Number: 1802659

		Reference Number	918631-4	918631-5		
		Sample Date	Jan 31, 2013	Jan 31, 2013		
		Sample Time	NA	NA		
		Sample Location	Surface	Surface		
		Sample Description	Keg #6 / Surface	Keg #9 / Surface		
		Matrix	Water	Water		
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Routine Water						
pH	at 25 °C		6.05	7.31		
Electrical Conductivity		µS/cm at 25 C	498	404		1
Calcium	Dissolved	mg/L	82.6	71.3		0.1
Iron	Dissolved	mg/L	16.3	0.115		0.005
Magnesium	Dissolved	mg/L	8.49	10.7		0.1
Manganese	Dissolved	mg/L	0.328	0.061		0.001
Potassium	Dissolved	mg/L	1.8	1.7		0.1
Silicon	Dissolved	mg/L	4.89	5.42		0.05
Sodium	Dissolved	mg/L	1.4	3.5		0.1
Bicarbonate		mg/L	14	210		5
Carbonate		mg/L	<6	<6		6
Hydroxide		mg/L	<5	<5		5
P-Alkalinity	as CaCO3	mg/L	<5	<5		5
T-Alkalinity	as CaCO3	mg/L	11	172		5
Chloride	Dissolved	mg/L	0.19	0.22		0.05
Nitrate - N	Dissolved	mg/L	0.04	0.20		0.01
Nitrite - N	Dissolved	mg/L	<0.01	<0.01		0.01
Sulfate (SO4)	Dissolved	mg/L	252	55.2		0.5
Hardness	as CaCO3	mg/L	241	222		5

Approved by:

Randy Neumann, BSc
General Manager

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Methodology and Notes

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**918631**
Report To:	J. Gibson & Associates	ID:	Silver Range Resources	Control Number:	A246265
	Box 20913	Name:	KEG Project (SRR)	Date Received:	Feb 5, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Feb 12, 2013
	Y1A 6P2	LSD:		Report Number:	1802659
Attn:	John Gibson	P.O.:			
Sampled By:	J Gibson	Acct code:			
Company:	J Gibson				

Method of Analysis

Method Name	Reference		Method	Date Analysis Started	Location
Alk, pH, EC, Turb in water (Surrey)	APHA	*	Alkalinity - Titration Method, 2320 B	06-Feb-13	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	*	Conductivity, 2510 B	06-Feb-13	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	*	pH - Electrometric Method, 4500-H+ B	06-Feb-13	Exova Surrey
Ammonia-N in Water (Surrey)	APHA	*	Flow Injection Analysis, 4500-NH3 H	06-Feb-13	Exova Surrey
Anions by IEC in water (Surrey)	APHA	*	Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	06-Feb-13	Exova Surrey
BC ICP-MS Total Metals in Water	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	08-Feb-13	Exova Edmonton
BC Trace Total Metals in Water	APHA	*	Inductively Coupled Plasma (ICP) Method, 3120 B	08-Feb-13	Exova Edmonton
Carbon Organic (Total) in water (TOC)	APHA		High-Temperature Combustion Method, 5310 B	08-Feb-13	Exova Edmonton
Cyanide (Total) in water	US EPA	*	US EPA method, 335.3	11-Feb-13	Exova Edmonton
Mercury (Total) in water	US EPA	*	Determination of Hg in Sediment by Cold Vapor Atomic Absorption Spec, 245.5	08-Feb-13	Exova Edmonton
Metals SemiTrace (Dissolved) in water (Surrey)	US EPA	*	Metals & Trace Elements by ICP-AES, 6010C	06-Feb-13	Exova Surrey
Phosphorus - total (low level) - Surrey	APHA	*	Preliminary Acid Hydrolysis, Ascorbic Acid Reduction Method, 4500-P B,E	07-Feb-13	Exova Surrey
Solids Dissolved (Total, Fixed and Volatile) - Surrey	APHA	*	Total Dissolved Solids Dried at 180 C, 2540 C	06-Feb-13	Exova Surrey
Solids Suspended (Total, Fixed and Volatile)	APHA	*	Total Suspended Solids Dried at 103-105'C, 2540 D	06-Feb-13	Exova Surrey
Trace Metals (dissolved) in Water (Surrey)	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	06-Feb-13	Exova Surrey
Trace Metals (dissolved) in Water (Surrey)	US EPA	*	Metals & Trace Elements by ICP-AES, 6010C	06-Feb-13	Exova Surrey

** Reference Method Modified*

References

APHA	Standard Methods for the Examination of Water and Wastewater
US EPA	US Environmental Protection Agency Test Methods

Comments:

- Analysis was performed on samples 918631-1 to 5 that exceeded the recommended holding time for Total Phosphorus analysis.
- pH analysis was performed past the recommended holding time of 15 minutes from sample collection.

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Methodology and Notes

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**918631**
Report To:	J. Gibson & Associates	ID:	Silver Range Resources	Control Number:	A246265
	Box 20913	Name:	KEG Project (SRR)	Date Received:	Feb 5, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Feb 12, 2013
	Y1A 6P2	LSD:		Report Number:	1802659
Attn:	John Gibson	P.O.:			
Sampled By:	J Gibson	Acct code:			
Company:	J Gibson				

Please direct any inquiries regarding this report to our Client Services group.
Results relate only to samples as submitted.
The test report shall not be reproduced except in full, without the written approval of the laboratory.

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LOT: 918631 COC

Control Number A246265

'ironmental Sample Information Sheet

Proper completion of this form is required in order to proceed with analysis

See reverse for your nearest Exova location and proper sampling protocol

Billing Address:	Copy of Report:	**Copy of Report To:**	Copy of invoice:
Company:		Company:	Send invoice to this address for approval
Address: J. Gibson & Associates Box 20111 Whitehorse, YT Y1A 7A2	QA/QC Report	Address:	
Attention: John Gibson	Report Result: e-mail	Attention:	Report Result: e-mail
Phone: (867)633-4522	Results Online	Phone:	Results Online
Fax:	Fax	Fax:	Fax
Cell: (867)668-6895	Mail	Cell:	Mail
e-mail:		e-mail:	

Information to be included on Report and Invoice

Project ID: SILVER RANGE RESOURCES
Project Name: KEG PROJECT (SRR)
Project Location:
Legal Location:
PO#:
Proj. Acct. Code: 6646
Agreement ID:

PRIORITY

Please contact laboratory prior to submitting any RUSH samples.

Upon filling out this section, client accepts that surcharges will be applied to this analysis.

If not all samples require RUSH, please indicate in special instructions.

Date Required:
Signature:

Sample Custody (Please Print)
Sampled by: J GIBSON
Company Signature [signature]

I authorize Exova to proceed with the work indicated on this form:
Date: Feb 3/13 Initial: JG.

Received by: [signature] Sample Temp. 8.8
Waybill #: Date Feb 5/13
Company Courier Time 2pm

Special Instructions / Comments

RCHEM = pH, EC, TP, N_2N_3, TALK, CL, SO4, HARDT, TSS, TDS.

DISS METALS FIELD FILTERED, METALS + NITRIC
TOC + HCL, NH4 + SULPHORIC, TCN + NaOH

Please indicate which regulations you are required to meet:
- [ ] Health Canada Drinking Water Quality
- [ ] Alberta Tier 1
- [ ] Other:

Sample Identification	Location	Depth IN CM M	Date/Time Sampled	Matrix	Sampling Method	Number of Containers	RCHEM	NH4	TOC	TCN	TW24ew+THg	TW23EW
KEG #1	SURFACE	/	JAN 31	H2O	GRAB	6	✓	✓	✓	✓	✓	✓
KEG #3	↓		↓	↓	↓	6	✓	✓	✓	✓	✓	✓
KEG #4						6	✓	✓	✓	✓	✓	✓
KEG #6						6	✓	✓	✓	✓	✓	✓
KEG #9						6	✓	✓	✓	✓	✓	✓

Enter tests above (✓ relevant samples below)

NOTE: All hazardous samples must be labeled according to WHMIS guidelines.

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Report Transmission Cover Page

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**925163**
Report To:	J. Gibson & Associates	ID:	Silver Range Resources	Control Number:	A246270
	Box 20913	Name:	KEG PROJECT (SRR)	Date Received:	Mar 13, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Mar 19, 2013
	Y1A 6P2	LSD:		Report Number:	1810966
Attn:	John Gibson	P.O.:			
Sampled By:	R. Gibson	Acct code:			
Company:					

Contact & Affiliation	Address	Delivery Commitments
John Gibson J. Gibson & Associates	, Box 20913 Whitehorse, Yukon Territory Y1A 6P2 Phone: (867) 633-4522 Fax: (867) 668-6895 Email: ludditegibson@gmail.com	On [Lot Verification] send (COA) by Email - Single Report On [Report Approval] send (COC, Test Report) by Email - Merge Reports On [Report Approval] send (Test Report) by Email - Single Report On [Lot Approval and Final Test Report Approval] send (Invoice) by Email - Single Report On [Lot Creation] send (COR) by Email - Single Report

Notes To Clients:

- pH analysis was performed past the recommended holding time of 15 minutes from sample collection.

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: R. Gibson
Company:

Project:
ID: Silver Range Resources
Name: KEG PROJECT (SRR)
Location:
LSD:
P.O.:
Acct code:

Lot ID: **925163**
Control Number: A246270
Date Received: Mar 13, 2013
Date Reported: Mar 19, 2013
Report Number: 1810966

			Reference Number	925163-1	925163-2	925163-3	
			Sample Date	Mar 09, 2013	Mar 09, 2013	Mar 09, 2013	
			Sample Time	NA	NA	NA	
			Sample Location	Surface	Surface	Surface	
			Sample Description	KEG #1	KEG #3	KEG #4	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Inorganic Nonmetallic Parameters							
Organic Carbon	Total Nonpurgeable	mg/L		3.2	2.7	3.2	0.5
Cyanide	Total	mg/L		<0.002	<0.002	<0.002	0.002
Phosphorus	Total	mg/L		0.009	<0.003	0.016	0.003
Ammonia - N		mg/L		0.03	0.02	0.04	.01
Metals Dissolved							
Sulfur	Dissolved	mg/L		27.8	3.3	22.3	0.2
Aluminum	Dissolved	mg/L		<0.005	<0.005	<0.005	0.005
Antimony	Dissolved	mg/L		0.0004	<0.0002	0.0002	0.0002
Arsenic	Dissolved	mg/L		0.0016	0.0011	0.0016	0.0002
Barium	Dissolved	mg/L		0.076	0.064	0.085	0.001
Beryllium	Dissolved	mg/L		<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Dissolved	mg/L		<0.001	<0.001	<0.001	0.001
Boron	Dissolved	mg/L		0.014	0.006	0.013	0.004
Cadmium	Dissolved	mg/L		0.00008	0.00002	0.00004	0.00001
Chromium	Dissolved	mg/L		0.0008	0.0005	0.0008	0.0004
Cobalt	Dissolved	mg/L		0.00066	0.00014	0.00005	0.00002
Copper	Dissolved	mg/L		<0.001	<0.001	0.002	0.001
Lead	Dissolved	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Lithium	Dissolved	mg/L		0.007	0.012	0.008	0.001
Molybdenum	Dissolved	mg/L		0.00218	0.00123	0.00230	0.0001
Nickel	Dissolved	mg/L		0.003	<0.001	0.002	0.001
Selenium	Dissolved	mg/L		0.0011	<0.0006	0.0011	0.0006
Silver	Dissolved	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Titanium	Dissolved	mg/L		<0.010	<0.010	<0.010	0.01
Strontium	Dissolved	mg/L		0.201	0.115	0.196	0.001
Tellurium	Dissolved	mg/L		<0.0001	<0.0001	0.0001	0.0001
Thallium	Dissolved	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Thorium	Dissolved	mg/L		<0.0004	<0.0004	<0.0004	0.0004
Tin	Dissolved	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Uranium	Dissolved	mg/L		0.0042	0.0117	0.0047	0.0004
Vanadium	Dissolved	mg/L		0.00038	0.00029	0.00041	0.0001
Zinc	Dissolved	mg/L		0.005	0.002	0.001	0.001
Zirconium	Dissolved	mg/L		0.00010	<0.00010	<0.00010	0.0001
Metals Total							
Mercury	Total	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Aluminum	Total	mg/L		0.018	0.010	0.022	0.005

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: R. Gibson
Company:

Project:
ID: Silver Range Resources
Name: KEG PROJECT (SRR)
Location:
LSD:
P.O.:
Acct code:

Lot ID: **925163**
Control Number: A246270
Date Received: Mar 13, 2013
Date Reported: Mar 19, 2013
Report Number: 1810966

			Reference Number	925163-1	925163-2	925163-3	
			Sample Date	Mar 09, 2013	Mar 09, 2013	Mar 09, 2013	
			Sample Time	NA	NA	NA	
			Sample Location	Surface	Surface	Surface	
			Sample Description	KEG #1	KEG #3	KEG #4	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Total - Continued							
Antimony	Total	mg/L		0.0002	<0.0001	0.0001	0.0001
Arsenic	Total	mg/L		0.00188	0.00119	0.00235	0.00005
Barium	Total	mg/L		0.0800	0.0686	0.0953	0.00005
Beryllium	Total	mg/L		<0.00005	<0.00005	<0.00005	0.00005
Bismuth	Total	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Boron	Total	mg/L		0.012	0.006	0.013	.002
Cadmium	Total	mg/L		0.00008	0.00004	0.00005	0.00001
Calcium	Total	mg/L		83.3	36.8	83.6	0.05
Chromium	Total	mg/L		<0.0005	<0.0005	<0.0005	0.0005
Cobalt	Total	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Copper	Total	mg/L		0.0012	0.0011	0.0010	0.0001
Iron	Total	mg/L		0.134	0.034	0.262	0.002
Lead	Total	mg/L		<0.0001	0.0002	<0.0001	0.0001
Lithium	Total	mg/L		0.0067	0.0124	0.0071	0.0005
Magnesium	Total	mg/L		9.76	5.45	10.4	0.04
Manganese	Total	mg/L		0.0067	0.0052	0.0327	0.001
Molybdenum	Total	mg/L		0.00245	0.00154	0.00282	0.00005
Nickel	Total	mg/L		0.0024	0.0006	0.0008	0.0002
Potassium	Total	mg/L		2.8	1.3	3.2	0.1
Selenium	Total	mg/L		0.0014	0.0004	0.0015	0.0001
Silicon	Total	mg/L		6.10	7.40	6.59	0.02
Silver	Total	mg/L		<0.00005	<0.00005	<0.00005	0.0005
Sodium	Total	mg/L		4.6	4.6	5.2	0.1
Strontium	Total	mg/L		0.203	0.125	0.213	0.0001
Thallium	Total	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Thorium	Total	mg/L		0.00001	0.00002	0.00001	0.00001
Tin	Total	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Titanium	Total	mg/L		0.0008	<0.0005	0.0011	0.0005
Uranium	Total	mg/L		0.00394	0.0122	0.00453	0.00001
Vanadium	Total	mg/L		0.0003	0.0002	0.0004	0.0001
Zinc	Total	mg/L		0.0056	0.0040	0.0010	0.0005
Zirconium	Total	mg/L		<0.0005	<0.0005	<0.0005	0.0005
Hardness	as CaCO3	mg/L		248	114	252	1
Physical and Aggregate Properties							
Solids	Total Suspended	mg/L		<2	<2	<2	2
Solids	Total Dissolved	mg/L		316	132	324	5

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**925163**
Report To:	J. Gibson & Associates	ID:	Silver Range Resources	Control Number:	A246270
	Box 20913	Name:	KEG PROJECT (SRR)	Date Received:	Mar 13, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Mar 19, 2013
	Y1A 6P2	LSD:		Report Number:	1810966
Attn:	John Gibson	P.O.:			
Sampled By:	R. Gibson	Acct code:			
Company:					

		Reference Number	925163-1	925163-2	925163-3	
		Sample Date	Mar 09, 2013	Mar 09, 2013	Mar 09, 2013	
		Sample Time	NA	NA	NA	
		Sample Location	Surface	Surface	Surface	
		Sample Description	KEG #1	KEG #3	KEG #4	
		Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Routine Water						
pH	at 25 °C		7.66	7.83	7.81	
Electrical Conductivity		µS/cm at 25 C	465	220	458	1
Calcium	Dissolved	mg/L	81.5	35.2	79.0	0.1
Iron	Dissolved	mg/L	0.020	0.024	0.060	0.005
Magnesium	Dissolved	mg/L	10.0	5.59	10.4	0.1
Manganese	Dissolved	mg/L	0.005	0.004	0.025	0.001
Potassium	Dissolved	mg/L	2.6	1.2	3.0	0.1
Silicon	Dissolved	mg/L	5.58	6.68	5.85	0.05
Sodium	Dissolved	mg/L	4.4	4.2	4.9	0.1
Bicarbonate		mg/L	197	129	213	5
Carbonate		mg/L	<6	<6	<6	6
Hydroxide		mg/L	<5	<5	<5	5
P-Alkalinity	as CaCO3	mg/L	<5	<5	<5	5
T-Alkalinity	as CaCO3	mg/L	162	106	175	5
Chloride	Dissolved	mg/L	0.35	0.12	0.34	0.05
Nitrate - N	Dissolved	mg/L	0.30	0.17	0.28	0.01
Nitrite - N	Dissolved	mg/L	0.10	0.06	0.11	0.01
Sulfate (SO4)	Dissolved	mg/L	89.8	10.2	72.9	0.5
Hardness	as CaCO3	mg/L	245	111	240	5

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: R. Gibson
Company:

Project:
ID: Silver Range Resources
Name: KEG PROJECT (SRR)
Location:
LSD:
P.O.:
Acct code:

Lot ID: **925163**
Control Number: A246270
Date Received: Mar 13, 2013
Date Reported: Mar 19, 2013
Report Number: 1810966

		Reference Number	925163-4	925163-5	925163-6	
		Sample Date	Mar 09, 2013	Mar 09, 2013	Mar 09, 2013	
		Sample Time	NA	NA	NA	
		Sample Location	Surface	Surface	Surface	
		Sample Description	KEG #6	KEG #8	KEG #9	
		Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Inorganic Nonmetallic Parameters						
Organic Carbon	Total Nonpurgeable	mg/L	3.2	2.9	8.7	0.5
Cyanide	Total	mg/L	<0.002	<0.002	<0.002	0.002
Phosphorus	Total	mg/L	<0.003	0.012	0.038	0.003
Ammonia - N		mg/L	0.18	<0.01	0.09	.01
Metals Dissolved						
Sulfur	Dissolved	mg/L	78.7	30.3	31.9	0.2
Aluminum	Dissolved	mg/L	0.377	<0.005	<0.005	0.005
Antimony	Dissolved	mg/L	0.0003	0.0005	0.0003	0.0002
Arsenic	Dissolved	mg/L	0.0033	0.0011	0.0011	0.0002
Barium	Dissolved	mg/L	0.032	0.066	0.152	0.001
Beryllium	Dissolved	mg/L	0.00026	<0.00004	<0.00004	0.00004
Bismuth	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Boron	Dissolved	mg/L	0.008	0.007	0.011	0.004
Cadmium	Dissolved	mg/L	0.00025	0.00007	0.00009	0.00001
Chromium	Dissolved	mg/L	<0.0004	0.0007	0.0014	0.0004
Cobalt	Dissolved	mg/L	0.0108	0.00035	0.00015	0.00002
Copper	Dissolved	mg/L	0.007	<0.001	0.003	0.001
Lead	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Lithium	Dissolved	mg/L	0.020	0.001	0.011	0.001
Molybdenum	Dissolved	mg/L	<0.00010	0.00191	0.00255	0.0001
Nickel	Dissolved	mg/L	0.103	0.002	0.004	0.001
Selenium	Dissolved	mg/L	<0.0006	<0.0006	0.0010	0.0006
Silver	Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Titanium	Dissolved	mg/L	<0.010	<0.010	<0.010	0.01
Strontium	Dissolved	mg/L	0.083	0.273	0.385	0.001
Tellurium	Dissolved	mg/L	0.0001	0.0001	<0.0001	0.0001
Thallium	Dissolved	mg/L	0.00004	<0.00001	<0.00001	0.00001
Thorium	Dissolved	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Uranium	Dissolved	mg/L	<0.0004	0.0019	0.0032	0.0004
Vanadium	Dissolved	mg/L	0.00016	0.00028	0.00048	0.0001
Zinc	Dissolved	mg/L	0.260	0.001	0.012	0.001
Zirconium	Dissolved	mg/L	<0.00010	0.00011	0.00013	0.0001
Metals Total						
Mercury	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Aluminum	Total	mg/L	0.544	0.023	0.029	0.005

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**925163**
Report To:	J. Gibson & Associates	ID:	Silver Range Resources	Control Number:	A246270
	Box 20913	Name:	KEG PROJECT (SRR)	Date Received:	Mar 13, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Mar 19, 2013
	Y1A 6P2	LSD:		Report Number:	1810966
Attn:	John Gibson	P.O.:			
Sampled By:	R. Gibson	Acct code:			
Company:					

			Reference Number	925163-4	925163-5	925163-6	
			Sample Date	Mar 09, 2013	Mar 09, 2013	Mar 09, 2013	
			Sample Time	NA	NA	NA	
			Sample Location	Surface	Surface	Surface	
			Sample Description	KEG #6	KEG #8	KEG #9	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Total - Continued							
Antimony	Total	mg/L		0.0002	0.0005	0.0005	0.0001
Arsenic	Total	mg/L		0.00389	0.00114	0.00175	0.00005
Barium	Total	mg/L		0.0353	0.0711	0.162	0.00005
Beryllium	Total	mg/L		0.00027	<0.00005	<0.00005	0.00005
Bismuth	Total	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Boron	Total	mg/L		0.008	0.007	0.011	.002
Cadmium	Total	mg/L		0.00026	0.00013	0.00014	0.00001
Calcium	Total	mg/L		87.4	99.5	109	0.05
Chromium	Total	mg/L		<0.0005	<0.0005	<0.0005	0.0005
Cobalt	Total	mg/L		0.0112	<0.0001	0.0002	0.0001
Copper	Total	mg/L		0.0074	0.0009	0.0063	0.0001
Iron	Total	mg/L		17.5	0.054	0.432	0.002
Lead	Total	mg/L		<0.0001	<0.0001	0.0005	0.0001
Lithium	Total	mg/L		0.0180	0.0013	0.0095	0.0005
Magnesium	Total	mg/L		8.63	7.32	19.9	0.04
Manganese	Total	mg/L		0.387	0.0198	0.146	0.001
Molybdenum	Total	mg/L		0.00011	0.00216	0.00291	0.00005
Nickel	Total	mg/L		0.106	0.0006	0.0027	0.0002
Potassium	Total	mg/L		1.8	1.8	3.8	0.1
Selenium	Total	mg/L		0.0008	0.0008	0.0010	0.0001
Silicon	Total	mg/L		5.48	5.77	9.38	0.02
Silver	Total	mg/L		<0.00005	<0.00005	<0.00005	0.0005
Sodium	Total	mg/L		1.7	2.7	9.4	0.1
Strontium	Total	mg/L		0.0831	0.282	0.396	0.0001
Thallium	Total	mg/L		0.00004	<0.00001	<0.00001	0.00001
Thorium	Total	mg/L		0.00001	<0.00001	0.00001	0.00001
Tin	Total	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Titanium	Total	mg/L		<0.0005	0.0008	0.0011	0.0005
Uranium	Total	mg/L		0.00002	0.00183	0.00296	0.00001
Vanadium	Total	mg/L		0.0002	0.0002	0.0003	0.0001
Zinc	Total	mg/L		0.266	0.0013	0.0178	0.0005
Zirconium	Total	mg/L		<0.0005	<0.0005	<0.0005	0.0005
Hardness	as CaCO3	mg/L		254	278	353	1
Physical and Aggregate Properties							
Solids	Total Suspended	mg/L		8	4	<2	2
Solids	Total Dissolved	mg/L		388	344	524	5

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: R. Gibson
Company:

Project:
ID: Silver Range Resources
Name: KEG PROJECT (SRR)
Location:
LSD:
P.O.:
Acct code:

Lot ID: **925163**
Control Number: A246270
Date Received: Mar 13, 2013
Date Reported: Mar 19, 2013
Report Number: 1810966

		Reference Number	925163-4	925163-5	925163-6	
		Sample Date	Mar 09, 2013	Mar 09, 2013	Mar 09, 2013	
		Sample Time	NA	NA	NA	
		Sample Location	Surface	Surface	Surface	
		Sample Description	KEG #6	KEG #8	KEG #9	
		Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Routine Water						
pH	at 25 °C		5.71	7.31	7.34	
Electrical Conductivity		µS/cm at 25 C	521	500	756	1
Calcium	Dissolved	mg/L	83.8	95.3	104	0.1
Iron	Dissolved	mg/L	15.8	0.022	0.076	0.005
Magnesium	Dissolved	mg/L	8.83	7.48	20.5	0.1
Manganese	Dissolved	mg/L	0.345	0.018	0.124	0.001
Potassium	Dissolved	mg/L	1.8	1.7	3.1	0.1
Silicon	Dissolved	mg/L	4.96	5.27	8.54	0.05
Sodium	Dissolved	mg/L	1.6	2.6	8.5	0.1
Bicarbonate		mg/L	14	212	359	5
Carbonate		mg/L	<6	<6	<6	6
Hydroxide		mg/L	<5	<5	<5	5
P-Alkalinity	as CaCO3	mg/L	<5	<5	<5	5
T-Alkalinity	as CaCO3	mg/L	12	174	294	5
Chloride	Dissolved	mg/L	0.24	0.14	1.99	0.05
Nitrate - N	Dissolved	mg/L	0.05	0.04	0.34	0.01
Nitrite - N	Dissolved	mg/L	0.03	0.11	0.09	0.01
Sulfate (SO4)	Dissolved	mg/L	255	95.0	126	0.5
Hardness	as CaCO3	mg/L	246	269	343	5

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Report To: J. Gibson & Associates
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Whitehorse, YT, Canada
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Attn: John Gibson
Sampled By: R. Gibson
Company:

Project:
ID: Silver Range Resources
Name: KEG PROJECT (SRR)
Location:
LSD:
P.O.:
Acct code:

Lot ID: **925163**
Control Number: A246270
Date Received: Mar 13, 2013
Date Reported: Mar 19, 2013
Report Number: 1810966

		Reference Number	925163-7	925163-8	925163-9	
		Sample Date	Mar 09, 2013	Mar 09, 2013	Mar 09, 2013	
		Sample Time	NA	NA	NA	
		Sample Location	Surface	Surface	Surface	
		Sample Description	KEG #11	KEG #12	KEG #13	
		Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Inorganic Nonmetallic Parameters						
Organic Carbon	Total Nonpurgeable	mg/L	2.6	3.0	2.1	0.5
Cyanide	Total	mg/L	<0.002	<0.002	<0.002	0.002
Phosphorus	Total	mg/L	0.016	0.004	0.007	0.003
Ammonia - N		mg/L	<0.01	<0.01	0.03	.01
Metals Dissolved						
Sulfur	Dissolved	mg/L	67.2	62.7	74.3	0.2
Aluminum	Dissolved	mg/L	<0.005	<0.005	<0.005	0.005
Antimony	Dissolved	mg/L	0.0004	0.0003	0.0004	0.0002
Arsenic	Dissolved	mg/L	0.0005	0.0002	0.0013	0.0002
Barium	Dissolved	mg/L	0.058	0.070	0.083	0.001
Beryllium	Dissolved	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Boron	Dissolved	mg/L	0.007	<0.004	0.005	0.004
Cadmium	Dissolved	mg/L	0.00017	0.00026	0.00108	0.00001
Chromium	Dissolved	mg/L	0.0007	0.0010	0.0009	0.0004
Cobalt	Dissolved	mg/L	0.00049	0.00007	0.00036	0.00002
Copper	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Lead	Dissolved	mg/L	<0.0001	<0.0001	0.0002	0.0001
Lithium	Dissolved	mg/L	0.004	0.006	0.002	0.001
Molybdenum	Dissolved	mg/L	0.00158	0.00217	0.00128	0.0001
Nickel	Dissolved	mg/L	0.003	0.003	0.004	0.001
Selenium	Dissolved	mg/L	0.0027	0.0026	0.0033	0.0006
Silver	Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Titanium	Dissolved	mg/L	<0.010	<0.010	<0.010	0.01
Strontium	Dissolved	mg/L	0.324	0.430	0.359	0.001
Tellurium	Dissolved	mg/L	0.0001	0.0001	0.0001	0.0001
Thallium	Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Thorium	Dissolved	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Uranium	Dissolved	mg/L	0.0037	0.0036	0.0047	0.0004
Vanadium	Dissolved	mg/L	0.00030	0.00040	0.00037	0.0001
Zinc	Dissolved	mg/L	0.003	0.012	0.024	0.001
Zirconium	Dissolved	mg/L	<0.00010	0.00011	0.00011	0.0001
Metals Total						
Mercury	Total	mg/L	<0.0001	0.0001	<0.0001	0.0001
Aluminum	Total	mg/L	0.006	0.007	0.008	0.005

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
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Whitehorse, YT, Canada
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Attn: John Gibson
Sampled By: R. Gibson
Company:

Project:
ID: Silver Range Resources
Name: KEG PROJECT (SRR)
Location:
LSD:
P.O.:
Acct code:

Lot ID: **925163**
Control Number: A246270
Date Received: Mar 13, 2013
Date Reported: Mar 19, 2013
Report Number: 1810966

			Reference Number	925163-7	925163-8	925163-9	
			Sample Date	Mar 09, 2013	Mar 09, 2013	Mar 09, 2013	
			Sample Time	NA	NA	NA	
			Sample Location	Surface	Surface	Surface	
			Sample Description	KEG #11	KEG #12	KEG #13	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Total - Continued							
Antimony	Total	mg/L		0.0004	0.0003	0.0005	0.0001
Arsenic	Total	mg/L		0.00048	0.00045	0.00136	0.00005
Barium	Total	mg/L		0.0619	0.0747	0.0889	0.00005
Beryllium	Total	mg/L		<0.00005	<0.00005	<0.00005	0.00005
Bismuth	Total	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Boron	Total	mg/L		0.007	0.005	0.007	.002
Cadmium	Total	mg/L		0.00020	0.00031	0.00119	0.00001
Calcium	Total	mg/L		128	140	136	0.05
Chromium	Total	mg/L		<0.0005	<0.0005	<0.0005	0.0005
Cobalt	Total	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Copper	Total	mg/L		0.0008	0.0010	0.0011	0.0001
Iron	Total	mg/L		0.033	0.030	0.035	0.002
Lead	Total	mg/L		<0.0001	<0.0001	0.0002	0.0001
Lithium	Total	mg/L		0.0030	0.0056	0.0018	0.0005
Magnesium	Total	mg/L		17.9	18.2	20.2	0.04
Manganese	Total	mg/L		0.0137	0.0092	0.0085	0.001
Molybdenum	Total	mg/L		0.00186	0.00252	0.00154	0.00005
Nickel	Total	mg/L		0.0012	0.0019	0.0028	0.0002
Potassium	Total	mg/L		1.6	1.7	1.7	0.1
Selenium	Total	mg/L		0.0030	0.0021	0.0030	0.0001
Silicon	Total	mg/L		4.66	4.61	4.52	0.02
Silver	Total	mg/L		<0.00005	<0.00005	<0.00005	0.0005
Sodium	Total	mg/L		3.0	2.5	2.4	0.1
Strontium	Total	mg/L		0.335	0.453	0.368	0.0001
Thallium	Total	mg/L		<0.00001	0.00001	<0.00001	0.00001
Thorium	Total	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Tin	Total	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Titanium	Total	mg/L		<0.0005	<0.0005	<0.0005	0.0005
Uranium	Total	mg/L		0.00352	0.00342	0.00447	0.00001
Vanadium	Total	mg/L		0.0002	0.0002	0.0002	0.0001
Zinc	Total	mg/L		0.0030	0.0124	0.0258	0.0005
Zirconium	Total	mg/L		<0.0005	<0.0005	<0.0005	0.0005
Hardness	as CaCO3	mg/L		395	426	423	1
Physical and Aggregate Properties							
Solids	Total Suspended	mg/L		<2	<2	<2	2
Solids	Total Dissolved	mg/L		504	514	548	5

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Bill To: J. Gibson & Associates
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Name: KEG PROJECT (SRR)
Location:
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Lot ID: **925163**
Control Number: A246270
Date Received: Mar 13, 2013
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			Reference Number	925163-7	925163-8	925163-9	
			Sample Date	Mar 09, 2013	Mar 09, 2013	Mar 09, 2013	
			Sample Time	NA	NA	NA	
			Sample Location	Surface	Surface	Surface	
			Sample Description	KEG #11	KEG #12	KEG #13	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Routine Water							
pH	at 25 °C			7.72	7.72	7.47	
Electrical Conductivity		µS/cm at 25 C		693	734	745	1
Calcium	Dissolved	mg/L		122	133	131	0.1
Iron	Dissolved	mg/L		0.015	0.015	0.025	0.005
Magnesium	Dissolved	mg/L		18.0	18.4	20.8	0.1
Manganese	Dissolved	mg/L		0.008	0.006	0.006	0.001
Potassium	Dissolved	mg/L		1.5	1.6	1.5	0.1
Silicon	Dissolved	mg/L		4.17	4.16	4.14	0.05
Sodium	Dissolved	mg/L		2.8	2.3	2.2	0.1
Bicarbonate		mg/L		199	252	209	5
Carbonate		mg/L		<6	<6	<6	6
Hydroxide		mg/L		<5	<5	<5	5
P-Alkalinity	as CaCO3	mg/L		<5	<5	<5	5
T-Alkalinity	as CaCO3	mg/L		163	207	172	5
Chloride	Dissolved	mg/L		0.22	0.18	0.35	0.05
Nitrate - N	Dissolved	mg/L		0.23	0.27	0.25	0.01
Nitrite - N	Dissolved	mg/L		0.11	0.13	0.11	0.01
Sulfate (SO4)	Dissolved	mg/L		218	201	241	0.5
Hardness	as CaCO3	mg/L		378	408	413	5

Approved by:

Aaron Zentner, B.SC., P.Chem.
Team Leader - Organics

Exova
#104, 19575-55 A Ave.
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Methodology and Notes

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**925163**
Report To:	J. Gibson & Associates	ID:	Silver Range Resources	Control Number:	A246270
	Box 20913	Name:	KEG PROJECT (SRR)	Date Received:	Mar 13, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Mar 19, 2013
	Y1A 6P2	LSD:		Report Number:	1810966
Attn:	John Gibson	P.O.:			
Sampled By:	R. Gibson	Acct code:			
Company:					

Method of Analysis

Method Name	Reference		Method	Date Analysis Started	Location
Alk, pH, EC, Turb in water (Surrey)	APHA	*	Alkalinity - Titration Method, 2320 B	14-Mar-13	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	*	Conductivity, 2510 B	14-Mar-13	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	*	pH - Electrometric Method, 4500-H+ B	14-Mar-13	Exova Surrey
Ammonia-N in Water (Surrey)	APHA	*	Flow Injection Analysis, 4500-NH3 H	15-Mar-13	Exova Surrey
Anions by IEC in water (Surrey)	APHA	*	Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	14-Mar-13	Exova Surrey
BC ICP-MS Total Metals in Water	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	15-Mar-13	Exova Edmonton
BC Trace Total Metals in Water	APHA	*	Inductively Coupled Plasma (ICP) Method, 3120 B	15-Mar-13	Exova Edmonton
Carbon Organic (Total) in water (TOC)	APHA		High-Temperature Combustion Method, 5310 B	15-Mar-13	Exova Edmonton
Cyanide (Total) in water	US EPA	*	US EPA method, 335.3	18-Mar-13	Exova Edmonton
Mercury (Total) in water	US EPA	*	Determination of Hg in Sediment by Cold Vapor Atomic Absorption Spec, 245.5	18-Mar-13	Exova Edmonton
Metals SemiTrace (Dissolved) in water (Surrey)	US EPA	*	Metals & Trace Elements by ICP-AES, 6010C	14-Mar-13	Exova Surrey
Phosphorus - total (low level) - Surrey	APHA	*	Preliminary Acid Hydrolysis, Ascorbic Acid Reduction Method, 4500-P B,E	14-Mar-13	Exova Surrey
Solids Dissolved (Total, Fixed and Volatile) - Surrey	APHA	*	Total Dissolved Solids Dried at 180 C, 2540 C	18-Mar-13	Exova Surrey
Solids Suspended (Total, Fixed and Volatile)	APHA	*	Total Suspended Solids Dried at 103-105'C, 2540 D	15-Mar-13	Exova Surrey
Trace Metals (dissolved) in Water (Surrey)	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	14-Mar-13	Exova Surrey
Trace Metals (dissolved) in Water (Surrey)	US EPA	*	Metals & Trace Elements by ICP-AES, 6010C	14-Mar-13	Exova Surrey

** Reference Method Modified*

References

APHA	Standard Methods for the Examination of Water and Wastewater
US EPA	US Environmental Protection Agency Test Methods

Comments:

- pH analysis was performed past the recommended holding time of 15 minutes from sample collection.

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W: www.exova.com

Methodology and Notes

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**925163**
Report To:	J. Gibson & Associates	ID:	Silver Range Resources	Control Number:	A246270
	Box 20913	Name:	KEG PROJECT (SRR)	Date Received:	Mar 13, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Mar 19, 2013
	Y1A 6P2	LSD:		Report Number:	1810966
Attn:	John Gibson	P.O.:			
Sampled By:	R. Gibson	Acct code:			
Company:					

Please direct any inquiries regarding this report to our Client Services group.
Results relate only to samples as submitted.
The test report shall not be reproduced except in full, without the written approval of the laboratory.

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Exova

LOT: 925163 COC

trol Number A246270

nmental Sample Information Sheet

er completion of this form is required in order to proceed with analysis

See reverse for your nearest Exova location and proper sampling protocol

www.exova.com

Billing Address: Copy of Report:

Company:
Address: J. Gibson & Associates
Box 20111
Whitehorse, YT Y1A 7A2

QA/QC Report

Attention: John Gibson
Phone: (867)633-4522
Fax:
Cell: (867)668-6895
e-mail:

Report Result: e-mail / Results Online / Fax / Mail

Copy of Report To: Copy of invoice:

Company:
Address:

Send invoice to this address for approval

03-13-13P04:31 RCVD

Attention:
Phone:
Fax:
Cell:
e-mail:

OK

Report Result: e-mail / Results Online / Fax / Mail

Information to be included on Report and Invoice

Project ID: SILVER RANGE RESOURCES
Project Name: KEG PROJECT. (SRR)
Project Location:
Legal Location:
PO#:
Proj. Acct. Code: 6646
Agreement ID:

PRIORITY

Please contact laboratory prior to submitting any RUSH samples.

Upon filling out this section, client accepts that surcharges will be applied to this analysis.

If not all samples require RUSH, please indicate in special instructions.

Date Required:
Signature:

Sample Custody (Please Print)
Sampled by: R GIBSON
Company Signature

I authorize Exova to proceed with the work indicated on this form:
Date: MAR 12/13 Initial: [illegible]

Received by: Sample Temp. 8.2°C
Waybill #: Date
Company Time

Special Instructions / Comments

RCHEM = DH, EC, TP, N_2, N_3, TALK, CL, SO4, HARDT, TSS, TDS
TW23 field filtered. METALS + NITRIC
NH4 + SULFURIC
TOC + HCL
TCN + NaOH.

Please indicate which regulations you are required to meet:
- Health Canada Drinking Water Quality
- Alberta Tier 1
- Other:

Sample Identification	Location	Depth IN CM M	Date/Time Sampled	Matrix	Sampling Method	Number of Containers	RCHEM	NH4	TOC	TW24ew+THg	TW23ew	TCN
KEG # 1	SURFACE	—	Mar 9	H2O	Grab	6	✓	✓	✓	✓	✓	✓
# 3	↓		↓	↓	↓	6	✓	✓	✓	✓	✓	✓
# 4						6	✓	✓	✓	✓	✓	✓
# 6						6	✓	✓	✓	✓	✓	✓
# 8						6	✓	✓	✓	✓	✓	✓
# 9						6	✓	✓	✓	✓	✓	✓
# 11						6	✓	✓	✓	✓	✓	✓
# 12						6	✓	✓	✓	✓	✓	✓
# 13						6	✓	✓	✓	✓	✓	✓
#												

Enter tests above (✓ relevant samples below)

NOTE: All hazardous samples must be labeled according to WHMIS guidelines.

Page 1 of 1

ED 077-00

APPENDIX 2

Flow Volume Calculations

January and March 2013

Stage Discharge Calculations

Project: **Silver Range - Keg Claims** **Date:** **09-Mar-13**

Site: **Keg #1**

Point (m)	Depth (meters)	Width (meters)	Velocity (m/sec)	Area (m sq)	Volume (cms)
1.29	0	0.055	0	0	0
1.4	0.2	0.105	0.085	0.021	0.0018
1.5	0.1	0.1	0.76	0.01	0.0076
1.6	0.12	0.1	0.323	0.012	0.0039
1.7	0.16	0.1	0.564	0.016	0.0090
1.8	0.18	0.1	0.825	0.018	0.0149
1.9	0.2	0.1	0.99	0.02	0.0198
2	0.1	0.1	0.676	0.01	0.0068
2.1	0.08	0.1	0.845	0.008	0.0068
2.2	0.08	0.1	0.576	0.008	0.0046
2.3	0.08	0.1	0.12	0.008	0.0010
2.4	0	0.75	0	0	0.0000
3.8	0	0.75	0	0	0.0000
3.9	0.14	0.1	0.769	0.014	0.0108
4	0.1	0.1	0.295	0.01	0.0030
4.1	0.12	0.1	0.538	0.012	0.0065
4.2	0.14	0.1	0.76	0.0140	0.0106
4.3	0.14	0.1	0.752	0.014	0.0105
4.4	0.08	0.1	0.196	0.008	0.0016
4.5	0.04	0.1	0.248	0.004	0.0010
4.6	0.04	0.1	0	0.004	0.0000
4.7	0	0.05	0	0.000	0.0000
3.41		**3.41**			**0.120**

All velocity readings at 0.6 depth

Staff Gauge : under ice conditions

Data logger reading:

Channel under ice? complete Ice cover

Method: Price Velocity meter/ TS Wading Rod

Measurement By: R.Gibson

Stage Discharge Calculations

Project: **Silver Range - Keg Claims** **Date:** **09-Mar-13**

Site: **Keg #3**

Point (m)	Depth (meters)	Width (meters)	Velocity (m/sec)	Area (m sq)	Volume (cms)
0.65	0	0.1	0	0	0
0.85	0.28	0.2	0	0.056	0.0000
1.05	0.28	0.2	0	0.056	0.0000
1.25	0.26	0.2	0.029	0.052	0.0015
1.45	0.26	0.2	0.034	0.052	0.0018
1.65	0.24	0.2	0.034	0.048	0.0016
1.85	0.24	0.2	0.059	0.048	0.0028
2.05	0.28	0.2	0.07	0.056	0.0039
2.25	0.3	0.2	0.078	0.06	0.0047
2.45	0.28	0.2	0.12	0.056	0.0067
2.65	0.3	0.2	0.112	0.06	0.0067
2.85	0.32	0.2	0.107	0.064	0.0068
3.05	0.3	0.2	0.17	0.06	0.0102
3.25	0.34	0.2	0.043	0.068	0.0029
3.45	0.24	0.2	0.035	0.048	0.0017
3.65	0.26	0.15	0.036	0.039	0.0014
3.75	0	0.05	0	0	0.0000
3.1		**3.1**			**0.0528**

All velocity readings at 0.6 depth

no Staff Gauge

Data logger reading: no logger

Channel under ice? Complete ice cover

Method: Price Velocity meter/ TS Wading Rod

Measurement By: J.Gibson

Stage Discharge Calculations

Project: **Silver Range - Keg Claims** **Date:** **09-Mar-13**

Site: **Keg #4**

Point (m)	Depth (meters)	Width (meters)	Velocity (m/sec)	Area (m sq)	Volume (cms)
0.09	0	0.455	0	0	0
1	0.14	0.505	0.024	0.0707	0.0017
1.1	0.12	0.1	0.122	0.012	0.0015
1.2	0.12	0.1	0.166	0.012	0.0020
1.3	0.16	0.1	0.142	0.016	0.0023
1.4	0.2	0.1	0.148	0.02	0.0030
1.5	0.22	0.1	0.185	0.022	0.0041
1.6	0.2	0.1	0.176	0.02	0.0035
1.7	0.18	0.1	0.148	0.018	0.0027
1.8	0.18	0.1	0.142	0.018	0.0026
1.9	0.16	0.1	0.158	0.016	0.0025
2	0.16	0.1	0.179	0.016	0.0029
2.1	0.22	0.1	0.208	0.022	0.0046
2.2	0.24	0.1	0.217	0.024	0.0052
2.3	0.2	0.1	0.288	0.02	0.0058
2.4	0.2	0.1	0.308	0.02	0.0062
2.5	0.22	0.1	0.266	0.022	0.0059
2.6	0.2	0.1	0.126	0.02	0.0025
2.7	0.2	0.1	0.208	0.02	0.0042
2.8	0.18	0.1	0.212	0.018	0.0038
2.9	0.16	0.1	0.128	0.016	0.0020
3	0.12	0.125	0	0.015	0.0000
3.15	0	0.075	0	0	0.0000
3.06		**3.06**			**0.0687**

All velocity readings at 0.6 depth

no Staff Gauge

Data logger reading: no logger

Channel under ice? Complete ice cover

Method: Price Velocity meter/ TS Wading Rod

Measurement By: R.Gibson

Stage Discharge Calculations

Project: **Silver Range - Keg Claims** **Date:** **9 Mar 2013**

Site: **Keg #11**

Point (m)	Depth (meters)	Width (meters)	Velocity (m/sec)	Area (m sq)	Volume (cms)
1.1	0	0.05	0	0	0
1.2	0.1	0.1	0.331	0.01	0.0033
1.3	0.1	0.1	0.368	0.01	0.0037
1.4	0.1	0.1	0.495	0.01	0.0050
1.5	0.1	0.1	0.339	0.01	0.0034
1.6	0.1	0.1	0.139	0.01	0.0014
1.7	0.1	0.075	0.131	0.0075	0.0010
1.75	0	0.475	0	0	0.0000
2.65	0	0.475	0	0	0.0000
2.7	0.1	0.075	0.162	0.0075	0.0012
2.8	0.1	0.1	0.17	0.01	0.0017
2.9	0.12	0.1	0.271	0.012	0.0033
3	0.12	0.1	0.403	0.012	0.0048
3.1	0.12	0.1	0.212	0.012	0.0025
3.2	0.1	0.1	0.308	0.01	0.0031
3.3	0.1	0.1	0.166	0.01	0.0017
3.4	0.16	0.1	0.412	0.016	0.0066
3.5	0.14	0.115	0.1	0.0161	0.0016
3.63	0	0.065	0	0	0.0000
2.53		2.53			**0.0442**

All velocity readings at 0.6 depth

Staff Gauge: under ice cover

Data logger reading:
Channel under ice? complete Ice cover

Method: Price Velocity meter/ TS Wading Rod
Measurement By: R.Gibson

Silver Range Resources

REBEL/SNAP/HAMMER CLAIMS

Baseline Water Quality / Hydrology Survey

Environmental Data Update

March, 2013

J.Gibson Env. Consulting ***Whitehorse, Yukon***

Silver Range Resources baseline water quality / hydrology surveys of the REBEL, SNAP and HAMMER Claims surface waters continued in March, 2013.

Water quality / hydrology surveys of the SNAP and HAMMER Claims were started October 18, 2012.

The sites are located in the Anvil Range approximately 30 kilometers north of Faro, Yukon and 15 kilometers north of the former Faro Mine.

The REBEL Claims are located on tributaries to Anvil Creek and Rose Creeks.

The SNAP Claims are located on tributaries to Blind Creek.

The HAMMER Claims are located on tributaries to Rose Creek.

All surface waters are tributaries to the Pelly River.

All survey sites were accessed by helicopter.

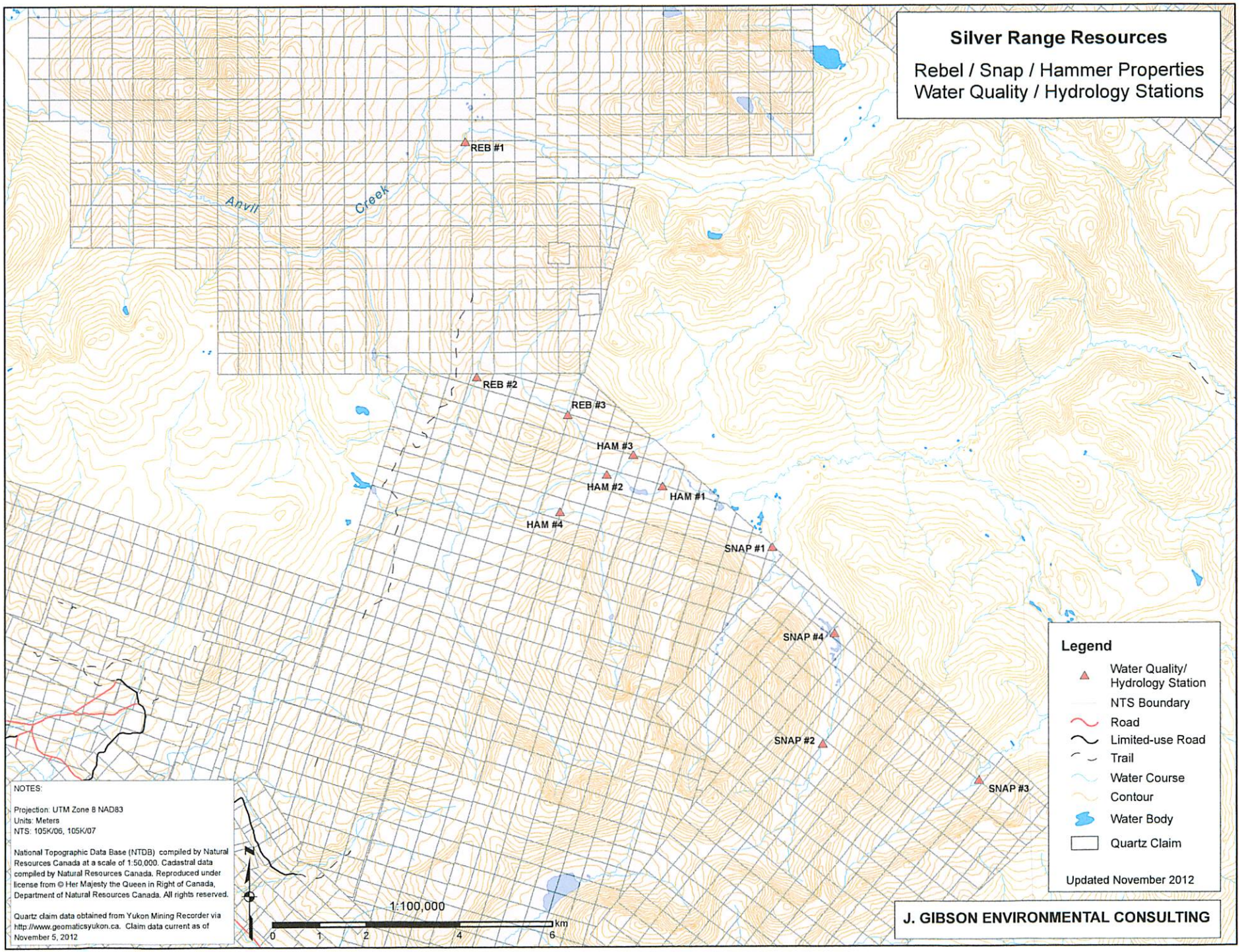
The baseline survey consisted of water quality samples for routine chemistry, total metals, dissolved metals, total organic carbon, total cyanide and total mercury with field measurements for pH, water temperature and flow volume.

Sample Locations

Three sample sites were established on the REBEL Claims during the initial survey in August 2010.

Four sites were established on each of the SNAP and HAMMER Claims in October 2012.

All sites are on the attached location map.


Silver Range Resources
Rebel / Snap / Hammer Properties
Water Quality / Hydrology Stations
REB #1
Anvil
Creek
REB #2
REB #3
HAM #3
HAM #2
HAM #1
HAM #4
SNAP #1
SNAP #4
SNAP #2
SNAP #3
Legend
Water Quality/ Hydrology Station
NTS Boundary
Road
Limited-use Road
Trail
Water Course
Contour
Water Body
Quartz Claim
Updated November 2012
NOTES:
Projection: UTM Zone 8 NAD83
Units: Meters
NTS: 105K/06, 105K/07
National Topographic Data Base (NTDB) compiled by Natural Resources Canada at a scale of 1:50,000. Cadastral data compiled by Natural Resources Canada. Reproduced under license from © Her Majesty the Queen in Right of Canada, Department of Natural Resources Canada. All rights reserved.
Quartz claim data obtained from Yukon Mining Recorder via http://www.geomaticsyukon.ca. Claim data current as of November 5, 2012
1:100,000
0 1 2 4 6 km
J. GIBSON ENVIRONMENTAL CONSULTING

REBEL Claim sample station designations and coordinates are:

Station #	Lat/Long Coordinates	Elevation(m)
REB #1	62 27 42.8N / 133 13 32.8W	1305
REB #2	62 24 58.7N / 133 13 26.1W	1425
REB #3	62 24 30.3N / 133 11 12.1W	1365

SNAP Claims station designations and coordinates are:

Station #	Lat/Long Coordinates	Elevation(m)
SNAP #1	62 22 52.6N / 133 6 13W	
SNAP #2	62 20 34.9N / 133 5 5.4 W	
SNAP #3	62 20 7 N / 133 1 17.1 W	
SNAP #4	62 21 51.3N / 133 4 43.4W	

HAMMER Claims station designations and coordinates are:

Station #	Lat/Long Coordinates	Elevation(m)
HAM#1	62 23 37.9N / 133 8 53.9W	
HAM #2	62 23 47.3N / 133 10 16.9W	
HAM #3	62 24 0.7N / 133 9 36.6W	
HAM #4	62 23 22.1N / 133 11 28.1W	

Station coordinates and elevations are for helicopter landing sites. Due to the topography and thick vegetation it was often necessary to located landing sites up to100 meters from sample sites.

Sample Analysis Parameters

All REBEL, SNAP and HAMMER Stations were sampled for total metals, dissolved metals and routine chemistry, total organic carbon, total cyanide and total mercury.

Dissolved metals samples were filtered onsite using disposable 60 ml syringes and 0.45 micron filters. New syringes and filters were used for each station.

Total and dissolved metal samples were preserved with nitric acid immediately after sampling.

All samples were stored in coolers, kept at 4 Celsius and shipped by air cargo to the Exova Canada Inc. laboratory in Surrey B.C. for analysis within recommended holding times.

Field measurements for pH, conductivity, total dissolved solids were taken with an Oakton PCS TestR 35, water temperatures with a digital thermometer.

Sample Frequency

All REBEL, SNAP and HAMMER stations are on a quarterly sample frequency.

Flow Volume Measurements

Stream flow volumes were measured with a Price AA velocity meter and cross sectional area calculations. All channels had complete ice cover under low stage winter flow volumes.

Measured stream flow volumes are listed with Routine Chemistry and in a flow summary table for each project.

Stream flow volume data/calculations are attached in Appendix 2.

Analysis Results

Laboratory analysis and field measurement results are listed in the following tables:

Table 1. REBEL Stations March 2013 Routine Chemistry – laboratory analysis and field measurements

Table 2. REBEL Stations March 2013 Total Metals ICP–MS laboratory analysis results

Table 3. REBEL Stations March 2013 Dissolved Metals ICP–MS laboratory analysis results

Table 4. REBEL/SNAP/HAMMER Stations Flow Volume Summary 2010- 2013.

Table 5. SNAP Stations March 2013 Routine Chemistry – laboratory analysis and field measurements

Table 6. SNAP Stations March 2013 Total Metals ICP–MS laboratory analysis results

Table 7. SNAP Stations March 2013 Dissolved Metals ICP-MS laboratory analysis results

Table 8. HAMMER Stations March 2013 Routine Chemistry – laboratory analysis and field measurements

Table 9. HAMMER Stations March 2013 Total Metals ICP–MS laboratory analysis results

Table 10. HAMMER Stations March 2013 Dissolved Metals ICP-MS laboratory analysis results

Table 1. Silver Range Resources - REBEL Claims, March 2013.
Routine Chemistry and Field Measurement Results

Parameter	Unit	STATIONS REB #1	REB #2	REB #3	DWQ* G.lines	Aquatic** G.lines
pH (field)	ru	8.1	8.15			
pH (lab)	ru	7.39	7.41	No	6.5-8.5	6.5-9
Conductivity (lab)	uS/cm	359	241	Surface		
Water temperature	C	0.1	0	Flow		
Flow Volume(field)	cms	0.1024	nr			
Organic Carbon-Total	mg/L	0.8	0.8			
Cyanide - Total	mg/L	<0.002	<0.002		0.2	0.005
Phosphorus (T)	mg/L	0.003	0.004			
Ammonia -N	mg/L	0.03	<0.01			1.37-2.2
Nitrate - N	mg/L	0.28	0.11		10	
Nitrite - N	mg/L	0.1	0.07		1	0.06
Alkalinity (as CaC03)	mg/L	154	111			
Chloride	mg/L	0.11	0.08		<250	
Sulphate (S04)	mg/L	40	15.3			
Hardness (as CaC03)	mg/L	190	125		<500	
T.Suspended Solids	mg/L	<2	<2			
T.Dissolved Solids	mg/L	230	156		500	

All results and limits in mg/L unless noted otherwis. Nr = no sample/reading

Indicates concentration exceeds Guideline limits

Table 2. Silver Range Resources - REBEL Claims March, 2013

Total Metals Analysis Results.

Parameter	Units	REB #1	REB #2	REB #3	DWQ* G.Lines	Aquatic** G.Lines
Calcium	mg/L	50.9	45.8			
Iron	mg/L	0.038	0.185	No	0.3	0.3
Magnesium	mg/L	17.1	4.34	Surface		
Manganese	mg/L	0.0056	0.0187	Flow	0.05	
Potassium	mg/L	1.8	0.6			
Silicon	mg/L	3.96	4.68			
Sodium	mg/L	1.7	1.7		<200	
Titanium	mg/L	<0.0005	<0.0005			
Aluminum	mg/L	0.005	0.007			0.1
Antimony	mg/L	0.0002	0.0001		0.006	
Arsenic	mg/L	0.00036	0.00115		0.01	
Barium	mg/L	0.0817	0.0409		1	
Beryllium	mg/L	<0.00005	<0.00005			
Bismuth	mg/L	<0.0001	<0.0001			
Boron	mg/L	0.002	<0.002		5	
Cadmium	mg/L	0.00005	0.00003		0.005	0.0018
Chromium	mg/L	<0.0005	<0.0005		0.05	0.002
Cobalt	mg/L	<0.0001	<0.0001			
Copper	mg/L	0.0005	0.0003		1	0.004
Lead	mg/L	<0.0001	<0.0001		0.01	0.007
Lithium	mg/L	0.0016	0.0009			
Molybdenum	mg/L	0.00278	0.00053			
Nickel	mg/L	0.0007	0.0002			0.15
Selenium	mg/L	0.002	0.0003		0.01	0.001
Silver	mg/L	<0.00005	<0.00005			0.0001
Strontium	mg/L	0.118	0.163			
Thallium	mg/L	<0.00001	<0.00001			
Thorium	mg/L	<0.00001	<0.00001			
Tin	mg/L	<0.0001	<0.0001			
Uranium	mg/L	0.00284	0.00098		0.02	
Vanadium	mg/L	0.0002	<0.0001			
Zinc	mg/L	0.0019	0.0014		<5	0.03
Zirconium	mg/L	<0.0005	<0.0005			
Mercury	mg/L	<0.0001	<0.0001		0.001	0.1

Indicates concentration exceeds Guideline limits

Table 3. Silver Range Resources - REBEL Claims March, 2013.

Dissolved Metals Analysis Results

Parameter	Units	REB#1	REB#2	REB#3
Calcium	mg/L	47.1	42.4	
Iron	mg/L	0.01	0.073	
Magnesium	mg/L	17.6	4.57	no
Manganese	mg/L	0.002	0.014	Surface
Potassium	mg/L	1.1	0.6	Flow
Silicon	mg/L	3.54	4.18	
Sodium	mg/L	1.7	1.8	
Sulfur	mg/L	12.1	4.8	
Titanium	mg/L	<0.010	<0.010	
Aluminum	mg/L	<0.005	<0.005	
Antimony	mg/L	<0.0002	<0.0002	
Arsenic	mg/L	0.0003	0.0008	
Barium	mg/L	0.074	0.038	
Beryllium	mg/L	<0.00004	<0.00004	
Bismuth	mg/L	<0.001	<0.001	
Boron	mg/L	<0.004	<0.004	
Cadmium	mg/L	0.00005	0.00004	
Chromium	mg/L	0.0011	0.001	
Cobalt	mg/L	0.00049	0.0003	
Copper	mg/L	<0.001	<0.001	
Lead	mg/L	<0.0001	<0.0001	
Lithium	mg/L	0.002	<0.001	
Molybdenum	mg/L	0.00241	0.00044	
Nickel	mg/L	0.001	<0.001	
Selenium	mg/L	0.0018	<0.0006	
Silver	mg/L	<0.00001	<0.00001	
Strontium	mg/L	0.116	0.163	
Thallium	mg/L	<0.00001	<0.00001	
Thorium	mg/L	<0.0004	<0.0004	
Tin	mg/L	0.0002	<0.0001	
Uranium	mg/L	0.0029	0.001	
Vanadium	mg/L	0.0004	0.00028	
Zinc	mg/L	0.002	0.003	
Zirconium	mg/L	0.00029	<0.00010	

Table 4. Silver Range Resources - Summary of REB/SNAP/HAMMER Flow Volumes 2010 - 2012 (Cubic meters per second)

Station	Date Aug-10	Oct-10	Mar-11	Jun-11	Sep-11	Mar-12	May-12	Jul-12	Oct-12	Mar-13
REB #1	0.403	0.311	0.068	1.252	0.776	0.055	0.218	nr	0.314	0.1024
REB #2	0.015	0.028	Dry	0.054	0.034	Dry	Dry	nr	0.018	nr
REB #3	0.024	0.047	0.0015	0.639	0.040	0.002	0.1021	nr	0.106	nr
SNAP#1									0.0695	nr
SNAP#2									0.0935	0.0079
SNAP#3									0.0573	nr
SNAP#4									nr	nr
HAM#1									nr	nr
HAM#2									nr	nr
HAM#3									0.0474	0.0332
HAM#4									0.0469	nr

Table 5 . Silver Range Resources - SNAP Claims, March 2013.
Routine Chemistry and Field Measurement Results

Parameter	Unit	STATIONS SNAP#1	SNAP#2	SNAP#3	SNAP#4	DWQ* G.lines	Aquatic** G.lines
pH (field)	ru	8.4	8.3	No	Heavy		
pH (lab)	ru	6.78	6.38	Surface	Seepage	6.5-8.5	6.5-9
Conductivity (lab)	uS/cm	219	171	Flow	Glacial		
Water temperature	C	0.4	0.2		Ice		
Flow Volume(field)	cms		0.0079				
Organic Carbon-Total	mg/L	1.5	0.6				
Cyanide - Total	mg/L	<0.002	<0.002			0.2	0.005
Phosphorus (T)	mg/L	0.016	<0.003				
Ammonia -N	mg/L	0.04	<0.01				1.37-2.2
Nitrate - N	mg/L	0.19	0.16			10	
Nitrite - N	mg/L	0.03	0.01			1	0.06
Alkalinity (as CaC03)	mg/L	45	11				
Chloride	mg/L	0.1	<0.05			<250	
Sulphate (S04)	mg/L	60.2	62.9				
Hardness (as CaC03)	mg/L	100	71			<500	
T.Suspended Solids	mg/L	10	<2				
T.Dissolved Solids	mg/L	156	120			500	

All results and limits in mg/L unless noted otherwis. Nr = no sample/reading

DWQ* Guidelines are Maximum Acceptable Concentrations according to
Canadian Drinking Water Quality

Aquatic** Guidelines are for protection of aquatic life in waters with pH >6.5 and Hardness as CaC03 >180 mg/L
Canadian Water Quality Guidelines

equal or exceeds Guideline limit

Table 6. Silver Range Resources - SNAP Claims March, 2013
Total Metals Analysis Results.

Parameter	Units	SNAP#1	SNAP#2	SNAP#3	SNAP#4	DWQ* G.Lines	Aquatic** G.Lines
Calcium	mg/L	32.2	22.9				
Iron	mg/L	1.08	0.033			0.3	0.3
Magnesium	mg/L	5.72	4.01	No	Heavy		
Manganese	mg/L	0.171	0.0033	Surface	Seepage	0.05	
Potassium	mg/L	1.1	0.7	Flow	Glacial		
Silicon	mg/L	5	3.75		Ice		
Sodium	mg/L	2.7	2.2			<200	
Titanium	mg/L	0.0054	<0.0005				
Aluminum	mg/L	0.132	0.02				0.1
Antimony	mg/L	<0.0001	<0.0001			0.006	
Arsenic	mg/L	0.00237	0.00127			0.01	
Barium	mg/L	0.0429	0.0252			1	
Beryllium	mg/L	0.0001	0.00012				
Bismuth	mg/L	<0.0001	<0.0001				
Boron	mg/L	<0.002	<0.002			5	
Cadmium	mg/L	0.00113	0.00109			0.005	0.0018
Chromium	mg/L	<0.0005	<0.0005			0.05	0.002
Cobalt	mg/L	0.0004	<0.0001				
Copper	mg/L	0.0011	0.0004			1	0.004
Lead	mg/L	0.0017	0.0002			0.01	0.007
Lithium	mg/L	0.0028	0.002				
Molybdenum	mg/L	0.00031	0.00012				
Nickel	mg/L	0.0102	0.0137				0.15
Selenium	mg/L	0.0004	0.0003			0.01	0.001
Silver	mg/L	<0.00005	<0.00005				0.0001
Strontium	mg/L	0.172	0.151				
Thallium	mg/L	0.00001	<0.00001				
Thorium	mg/L	0.00003	<0.00001				
Tin	mg/L	0.0004	<0.0001				
Uranium	mg/L	0.00195	0.00011			0.02	
Vanadium	mg/L	0.0004	<0.0001				
Zinc	mg/L	0.235	0.155			<5	0.03
Zirconium	mg/L	<0.0005	<0.0005				
Mercury	mg/L	0.0001	<0.0001			0.001	0.1

nr=no sample or analysis done ***equal or exceeds Guideline limit***

Table 7. Silver Range Resources - SNAP Claims March 2013.
Dissolved Metals Analysis Results

Parameter	Units	SNAP#1	SNAP#2	SNAP#3	SNAP#4
Calcium	mg/L	30.1	21.5		
Iron	mg/L	0.233	0.012		
Magnesium	mg/L	6.04	4.33	No	Heavy
Manganese	mg/L	0.076	<0.001	Surface	Seepage
Potassium	mg/L	1	0.7	Flow	Glacial
Silicon	mg/L	4.43	3.47		Ice
Sodium	mg/L	2.7	2.1		
Sulfur	mg/L	18.6	19.6		
Titanium	mg/L	<0.010	<0.010		
Aluminum	mg/L	<0.005	0.005		
Antimony	mg/L	<0.0002	<0.0002		
Arsenic	mg/L	0.0006	0.0011		
Barium	mg/L	0.037	0.022		
Beryllium	mg/L	<0.00004	0.0001		
Bismuth	mg/L	<0.001	<0.001		
Boron	mg/L	<0.004	<0.004		
Cadmium	mg/L	0.00071	0.001		
Chromium	mg/L	<0.0004	<0.0004		
Cobalt	mg/L	0.00102	0.00064		
Copper	mg/L	<0.001	<0.001		
Lead	mg/L	0.0001	<0.0001		
Lithium	mg/L	0.003	0.002		
Molybdenum	mg/L	0.00021	<0.00010		
Nickel	mg/L	0.009	0.013		
Selenium	mg/L	<0.0006	<0.0006		
Silver	mg/L	<0.00001	<0.00001		
Strontium	mg/L	0.17	0.149		
Thallium	mg/L	<0.00001	<0.00001		
Thorium	mg/L	<0.0004	<0.0004		
Tin	mg/L	<0.0001	<0.0001		
Uranium	mg/L	0.0018	<0.0004		
Vanadium	mg/L	<0.00010	<0.00010		
Zinc	mg/L	0.207	0.154		
Zirconium	mg/L	0.00019	<0.00010		

Table 8. Silver Range Resources - HAMMER Claims, March 2013.
Routine Chemistry and Field Measurement Results

		STATIONS					
Parameter	**Unit**	**HAM#1**	**HAM#2**	**HAM#3**	**HAM#4**	**DWQ* G.lines**	**Aquatic** G.lines**
pH (field)	ru	8.15	7.87	8.61			
pH (lab)	ru	7.43	7.13	7.58	No	6.5-8.5	6.5-9
Conductivity (lab)	uS/cm	249	286	268	Surface		
Water temperature	C	0.8	0	0	Flow		
Flow Volume(field)	cms		nr	0.0332			
Organic Carbon-Total	mg/L	1.1	1.2	0.7			
Cyanide - Total	mg/L	<0.002	<0.002	<0.002		0.2	0.005
Phosphorus (T)	mg/L	0.01	0.024	0.004			
Ammonia -N	mg/L	<0.01	0.06	<0.01			1.37-2.2
Nitrate - N	mg/L	0.18	0.16	0.2		10	
Nitrite - N	mg/L	0.07	0.08	0.07		1	0.06
Alkalinity (as CaC03)	mg/L	130	135	123			
Chloride	mg/L	0.13	0.12	0.06		<250	
Sulphate (S04)	mg/L	7.1	14.8	17.2			
Hardness (as CaC03)	mg/L	124	150	143		<500	
T.Suspended Solids	mg/L	<2	<2	<2			
T.Dissolved Solids	mg/L	162	188	172		500	

All results and limits in mg/L unless noted otherwis. Nr = no sample/reading

DWQ* Guidelines are Maximum Acceptable Concentrations according to
Canadian Drinking Water Quality

Aquatic** Guidelines are for protection of aquatic life in waters with pH >6.5 and Hardness as CaC03 >180 mg/L
Canadian Water Quality Guidelines

equal or exceeds Guideline limit

Table 9. Silver Range Resources - HAMMER Claims March, 2013

Total Metals Analysis Results.

Parameter	Units	HAM#1	HAM#2	HAM#3	HAM#4	DWQ* G.Lines	Aquatic** G.Lines
Calcium	mg/L	39.4	41.7	39			
Iron	mg/L	0.019	0.763	0.066		0.3	0.3
Magnesium	mg/L	7.38	11.2	11.5			
Manganese	mg/L	0.0106	0.0834	0.0091	No	0.05	
Potassium	mg/L	0.8	0.6	0.3	Surface		
Silicon	mg/L	4.84	4.55	3.85	Flow		
Sodium	mg/L	1.7	1.9	1.3		<200	
Titanium	mg/L	<0.0005	<0.0005	<0.0005			
Aluminum	mg/L	0.005	0.019	0.009			0.1
Antimony	mg/L	<0.0001	<0.0001	<0.0001		0.006	
Arsenic	mg/L	0.0006	0.00171	0.00022		0.01	
Barium	mg/L	0.244	0.1	0.0649		1	
Beryllium	mg/L	<0.00005	<0.00005	<0.00005			
Bismuth	mg/L	<0.0001	<0.0001	<0.0001			
Boron	mg/L	<0.002	<0.002	<0.002		5	
Cadmium	mg/L	0.00001	0.00002	<0.00001		0.005	0.0018
Chromium	mg/L	<0.0005	<0.0005	<0.0005		0.05	0.002
Cobalt	mg/L	<0.0001	<0.0001	<0.0001			
Copper	mg/L	0.0002	0.0003	0.0003		1	0.004
Lead	mg/L	<0.0001	<0.0001	0.0001		0.01	0.007
Lithium	mg/L	0.0042	0.0022	0.0014			
Molybdenum	mg/L	0.00084	0.0008	0.00074			
Nickel	mg/L	<0.0002	0.0002	<0.0002			0.15
Selenium	mg/L	0.0008	0.0005	0.0006		0.01	0.001
Silver	mg/L	<0.00005	<0.00005	<0.00005			0.0001
Strontium	mg/L	0.165	0.145	0.123			
Thallium	mg/L	<0.00001	<0.00001	<0.00001			
Thorium	mg/L	<0.00001	<0.00001	<0.00001			
Tin	mg/L	<0.0001	<0.0001	<0.0001			
Uranium	mg/L	0.00226	0.0013	0.00108		0.02	
Vanadium	mg/L	0.0002	0.0001	0.0001			
Zinc	mg/L	<0.0005	0.0012	<0.0005		<5	0.03
Zirconium	mg/L	<0.0005	<0.0005	<0.0005			
Mercury	mg/L	<0.0001	<0.0001	0.0001		0.001	0.1

nr=no sample or analysis done ***equal or exceeds Guideline limit***

Table 10. Silver Range Resources - HAMMER Claims March 2013.
Dissolved Metals Analysis Results

Parameter	Units	HAM#1	HAM#2	HAM#3	HAM#4
Calcium	mg/L	36.7	40.3	37	
Iron	mg/L	0.011	0.471	0.032	
Magnesium	mg/L	7.79	12	12.2	
Manganese	mg/L	0.007	0.075	<0.001	
Potassium	mg/L	0.8	0.5	0.3	No
Silicon	mg/L	4.44	4.22	3.54	Surface
Sodium	mg/L	2.1	1.9	1.5	Flow
Sulfur	mg/L	2.3	4.7	5.3	
Titanium	mg/L	<0.010	<0.010	<0.010	
Aluminum	mg/L	<0.005	<0.005	<0.005	
Antimony	mg/L	<0.0002	<0.0002	<0.0002	
Arsenic	mg/L	0.0005	0.0012	<0.0002	
Barium	mg/L	0.235	0.095	0.062	
Beryllium	mg/L	<0.00004	<0.00004	<0.00004	
Bismuth	mg/L	<0.001	<0.001	<0.001	
Boron	mg/L	<0.004	<0.004	<0.004	
Cadmium	mg/L	<0.00001	<0.00001	<0.00001	
Chromium	mg/L	0.001	0.0008	0.001	
Cobalt	mg/L	0.00058	0.00065	0.00035	
Copper	mg/L	<0.001	<0.001	<0.001	
Lead	mg/L	<0.0001	<0.0001	<0.0001	
Lithium	mg/L	0.004	0.002	0.001	
Molybdenum	mg/L	0.00069	0.00062	0.00057	
Nickel	mg/L	<0.001	<0.001	<0.001	
Selenium	mg/L	0.0007	<0.0006	<0.0006	
Silver	mg/L	<0.00001	<0.00001	<0.00001	
Strontium	mg/L	0.168	0.146	0.123	
Thallium	mg/L	<0.00001	<0.00001	<0.00001	
Thorium	mg/L	<0.0004	<0.0004	<0.0004	
Tin	mg/L	0.0001	<0.0001	<0.0001	
Uranium	mg/L	0.0023	0.0014	0.0011	
Vanadium	mg/L	0.00035	0.00028	0.00027	
Zinc	mg/L	<0.001	<0.001	<0.001	
Zirconium	mg/L	0.00016	<0.00010	<0.00010	

As a guide for reviewing site water quality, the Maximum Acceptable Concentration (MAC) according to ***Canadian Drinking Water Quality*** are listed along with the Aquatic Guidelines for the protection of aquatic life in water with a pH of > 6.5 and a total hardness as CaC03 > 180 mg/L according to ***CCME – Canadian Water Quality Guidelines.***
All water quality ***Guideline*** concentrations are based on total metal values.

All laboratory analysis was done by Exova Canada Inc of Surrey B.C.

Laboratory Analytical Reports are attached in Appendix 1.

Data Summaries for REBEL stations are on the attached Excel disc.

Summary tables for SNAP and HAMMER stations will be developed when three data points are available.

Quality Control

No quality control samples were taken in March 2013.

Discussion

Hydrology

All water quality / hydrology stations were in winter low flow conditions. All stations had complete ice cover.

Stations REBEL #3, SNAP #3 and HAMMER #4 had no surface flow. Stations SNAP #4 had heavy glacial seepage ice deeper than the ice auger drill.

Laboratory Analytical Results

Parameters that equal or exceed either ***Drinking Water or Aquatic Guidelines*** are highlighted in yellow.

REBEL Stations

Station REBEL #1 results exceed the ***Aquatic Guidelines*** for selenium and nitrite.

Station REBEL#2 results exceed the ***Aquatic Guidelines*** for nitrite.

SNAP Stations

Station SNAP#1 results exceed ***Aquatic Guidelines*** for aluminum, iron and zinc; and exceeds the ***Drinking Water MAC*** for manganese.

Station SNAP#2 results exceed ***Aquatic Guidelines*** for zinc.

HAMMER Stations

Station HAM#1 results exceed ***Aquatic Guidelines*** for nitrite.

Station HAM#2 results exceed ***Aquatic Guidelines*** for iron and nitrite; and exceed the ***Drinking Water MAC*** for iron and manganese.

Station HAM #3 results exceed ***Aquatic Guidelines*** for nitrite.

Total Mercury concentrations were at or below the detection limit of 0.0001 mg/L at all stations.

Total cyanide concentrations were at or below the lab detection limit of 0.002 mg/L at all stations.

APPENDIX 1

LABORATORY ANALYTICAL REPORTS

REBEL/SNAP/HAMMER Claims

March 2013

Exova
#104, 19575-55 A Ave.
Surrey, British Columbia
V3S 8P8, Canada

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F: +1 (604) 514-3323
E: Surrey@exova.com
W: www.exova.com

Report Transmission Cover Page

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**925199**
Report To:	J. Gibson & Associates	ID:	Silver Range Resources (SRR)	Control Number:	A246271
	Box 20913	Name:	Rebel Project	Date Received:	Mar 13, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Mar 19, 2013
	Y1A 6P2	LSD:		Report Number:	1811001
Attn:	John Gibson	P.O.:			
Sampled By:	R.Gibson	Acct code:			
Company:					

Contact & Affiliation	Address	Delivery Commitments
John Gibson J. Gibson & Associates	, Box 20913 Whitehorse, Yukon Territory Y1A 6P2 Phone: (867) 633-4522 Fax: (867) 668-6895 Email: ludditegibson@gmail.com	On [Lot Verification] send (COA) by Email - Single Report On [Report Approval] send (COC, Test Report) by Email - Merge Reports On [Report Approval] send (Test Report) by Email - Single Report On [Lot Approval and Final Test Report Approval] send (Invoice) by Email - Single Report On [Lot Creation] send (COR) by Email - Single Report

Notes To Clients:

- pH analysis was performed past the recommended holding time of 15 minutes from sample collection.

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Exova

Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: R.Gibson
Company:

Project:
ID: Silver Range Resources (SRR)
Name: Rebel Project
Location:
LSD:
P.O.:
Acct code:

Lot ID: **925199**
Control Number: A246271
Date Received: Mar 13, 2013
Date Reported: Mar 19, 2013
Report Number: 1811001

		Reference Number	925199-1	925199-2		
		Sample Date	Mar 10, 2013	Mar 10, 2013		
		Sample Time	NA	NA		
		Sample Location				
		Sample Description	Surface / REB # 1	Surface / REB # 2		
		Matrix	Water	Water		
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Inorganic Nonmetallic Parameters						
Organic Carbon	Total Nonpurgeable	mg/L	0.8	0.8		0.5
Cyanide	Total	mg/L	<0.002	<0.002		0.002
Phosphorus	Total	mg/L	0.003	0.004		0.003
Ammonia - N		mg/L	0.03	<0.01		.01
Metals Dissolved						
Sulfur	Dissolved	mg/L	12.1	4.8		0.2
Aluminum	Dissolved	mg/L	<0.005	<0.005		0.005
Antimony	Dissolved	mg/L	<0.0002	<0.0002		0.0002
Arsenic	Dissolved	mg/L	0.0003	0.0008		0.0002
Barium	Dissolved	mg/L	0.074	0.038		0.001
Beryllium	Dissolved	mg/L	<0.00004	<0.00004		0.00004
Bismuth	Dissolved	mg/L	<0.001	<0.001		0.001
Boron	Dissolved	mg/L	<0.004	<0.004		0.004
Cadmium	Dissolved	mg/L	0.00005	0.00004		0.00001
Chromium	Dissolved	mg/L	0.0011	0.0010		0.0004
Cobalt	Dissolved	mg/L	0.00049	0.00030		0.00002
Copper	Dissolved	mg/L	<0.001	<0.001		0.001
Lead	Dissolved	mg/L	<0.0001	<0.0001		0.0001
Lithium	Dissolved	mg/L	0.002	<0.001		0.001
Molybdenum	Dissolved	mg/L	0.00241	0.00044		0.0001
Nickel	Dissolved	mg/L	0.001	<0.001		0.001
Selenium	Dissolved	mg/L	0.0018	<0.0006		0.0006
Silver	Dissolved	mg/L	<0.00001	<0.00001		0.00001
Titanium	Dissolved	mg/L	<0.010	<0.010		0.01
Strontium	Dissolved	mg/L	0.116	0.163		0.001
Tellurium	Dissolved	mg/L	<0.0001	<0.0001		0.0001
Thallium	Dissolved	mg/L	<0.00001	<0.00001		0.00001
Thorium	Dissolved	mg/L	<0.0004	<0.0004		0.0004
Tin	Dissolved	mg/L	0.0002	<0.0001		0.0001
Uranium	Dissolved	mg/L	0.0029	0.0010		0.0004
Vanadium	Dissolved	mg/L	0.00040	0.00028		0.0001
Zinc	Dissolved	mg/L	0.002	0.003		0.001
Zirconium	Dissolved	mg/L	0.00029	<0.00010		0.0001
Metals Total						
Mercury	Total	mg/L	<0.0001	<0.0001		0.0001
Aluminum	Total	mg/L	0.005	0.007		0.005

Terms and Conditions: www.exova.ca/terms&conditions

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Exova

Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: R.Gibson
Company:

Project:
ID: Silver Range Resources (SRR)
Name: Rebel Project
Location:
LSD:
P.O.:
Acct code:

Lot ID: **925199**
Control Number: A246271
Date Received: Mar 13, 2013
Date Reported: Mar 19, 2013
Report Number: 1811001

	Reference Number	925199-1	925199-2		
	Sample Date	Mar 10, 2013	Mar 10, 2013		
	Sample Time	NA	NA		
	Sample Location				
	Sample Description	Surface / REB # 1	Surface / REB # 2		
	Matrix	Water	Water		
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Total - Continued						
Antimony	Total	mg/L	0.0002	0.0001		0.0001
Arsenic	Total	mg/L	0.00036	0.00115		0.00005
Barium	Total	mg/L	0.0817	0.0409		0.00005
Beryllium	Total	mg/L	<0.00005	<0.00005		0.00005
Bismuth	Total	mg/L	<0.0001	<0.0001		0.0001
Boron	Total	mg/L	0.002	<0.002		.002
Cadmium	Total	mg/L	0.00005	0.00003		0.00001
Calcium	Total	mg/L	50.9	45.8		0.05
Chromium	Total	mg/L	<0.0005	<0.0005		0.0005
Cobalt	Total	mg/L	<0.0001	<0.0001		0.0001
Copper	Total	mg/L	0.0005	0.0003		0.0001
Iron	Total	mg/L	0.038	0.185		0.002
Lead	Total	mg/L	<0.0001	<0.0001		0.0001
Lithium	Total	mg/L	0.0016	0.0009		0.0005
Magnesium	Total	mg/L	17.1	4.34		0.04
Manganese	Total	mg/L	0.0056	0.0187		0.001
Molybdenum	Total	mg/L	0.00278	0.00053		0.00005
Nickel	Total	mg/L	0.0007	0.0002		0.0002
Potassium	Total	mg/L	1.8	0.6		0.1
Selenium	Total	mg/L	0.0020	0.0003		0.0001
Silicon	Total	mg/L	3.96	4.68		0.02
Silver	Total	mg/L	<0.00005	<0.00005		0.0005
Sodium	Total	mg/L	1.7	1.7		0.1
Strontium	Total	mg/L	0.118	0.163		0.0001
Thallium	Total	mg/L	<0.00001	<0.00001		0.00001
Thorium	Total	mg/L	<0.00001	<0.00001		0.00001
Tin	Total	mg/L	<0.0001	<0.0001		0.0001
Titanium	Total	mg/L	<0.0005	<0.0005		0.0005
Uranium	Total	mg/L	0.00284	0.00098		0.00001
Vanadium	Total	mg/L	0.0002	<0.0001		0.0001
Zinc	Total	mg/L	0.0019	0.0014		0.0005
Zirconium	Total	mg/L	<0.0005	<0.0005		0.0005
Hardness	as CaCO3	mg/L	197	132		1
Physical and Aggregate Properties						
Solids	Total Suspended	mg/L	<2	<2		2
Solids	Total Dissolved	mg/L	230	156		5

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: R.Gibson
Company:

Project:
ID: Silver Range Resources (SRR)
Name: Rebel Project
Location:
LSD:
P.O.:
Acct code:

Lot ID: **925199**
Control Number: A246271
Date Received: Mar 13, 2013
Date Reported: Mar 19, 2013
Report Number: 1811001

		Reference Number	925199-1	925199-2		
		Sample Date	Mar 10, 2013	Mar 10, 2013		
		Sample Time	NA	NA		
		Sample Location				
		Sample Description	Surface / REB # 1	Surface / REB # 2		
		Matrix	Water	Water		
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Routine Water						
pH	at 25 °C		7.39	7.41		
Electrical Conductivity		µS/cm at 25 C	359	241		1
Calcium	Dissolved	mg/L	47.1	42.4		0.1
Iron	Dissolved	mg/L	0.010	0.073		0.005
Magnesium	Dissolved	mg/L	17.6	4.57		0.1
Manganese	Dissolved	mg/L	0.002	0.014		0.001
Potassium	Dissolved	mg/L	1.1	0.6		0.1
Silicon	Dissolved	mg/L	3.54	4.18		0.05
Sodium	Dissolved	mg/L	1.7	1.8		0.1
Bicarbonate		mg/L	188	136		5
Carbonate		mg/L	<6	<6		6
Hydroxide		mg/L	<5	<5		5
P-Alkalinity	as CaCO3	mg/L	<5	<5		5
T-Alkalinity	as CaCO3	mg/L	154	111		5
Chloride	Dissolved	mg/L	0.11	0.08		0.05
Nitrate - N	Dissolved	mg/L	0.28	0.11		0.01
Nitrite - N	Dissolved	mg/L	0.10	0.07		0.01
Sulfate (SO4)	Dissolved	mg/L	40.0	15.3		0.5
Hardness	as CaCO3	mg/L	190	125		5

Approved by:

Aaron Zentner, B.SC., P.Chem.
Team Leader - Organics

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Methodology and Notes

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**925199**
Report To:	J. Gibson & Associates	ID:	Silver Range Resources (SRR)	Control Number:	A246271
	Box 20913	Name:	Rebel Project	Date Received:	Mar 13, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Mar 19, 2013
	Y1A 6P2	LSD:		Report Number:	1811001
Attn:	John Gibson	P.O.:			
Sampled By:	R.Gibson	Acct code:			
Company:					

Method of Analysis

Method Name	Reference	Method	Date Analysis Started	Location
Alk, pH, EC, Turb in water (Surrey)	APHA	* Alkalinity - Titration Method, 2320 B	14-Mar-13	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	* Conductivity, 2510 B	14-Mar-13	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	* pH - Electrometric Method, 4500-H+ B	14-Mar-13	Exova Surrey
Ammonia-N in Water (Surrey)	APHA	* Flow Injection Analysis, 4500-NH3 H	15-Mar-13	Exova Surrey
Anions by IEC in water (Surrey)	APHA	* Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	14-Mar-13	Exova Surrey
BC ICP-MS Total Metals in Water	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	15-Mar-13	Exova Edmonton
BC Trace Total Metals in Water	APHA	* Inductively Coupled Plasma (ICP) Method, 3120 B	15-Mar-13	Exova Edmonton
Carbon Organic (Total) in water (TOC)	APHA	High-Temperature Combustion Method, 5310 B	15-Mar-13	Exova Edmonton
Cyanide (Total) in water	US EPA	* US EPA method, 335.3	18-Mar-13	Exova Edmonton
Mercury (Total) in water	US EPA	* Determination of Hg in Sediment by Cold Vapor Atomic Absorption Spec, 245.5	18-Mar-13	Exova Edmonton
Metals SemiTrace (Dissolved) in water (Surrey)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	14-Mar-13	Exova Surrey
Phosphorus - total (low level) - Surrey	APHA	* Preliminary Acid Hydrolysis, Ascorbic Acid Reduction Method, 4500-P B,E	14-Mar-13	Exova Surrey
Solids Dissolved (Total, Fixed and Volatile) - Surrey	APHA	* Total Dissolved Solids Dried at 180 C, 2540 C	18-Mar-13	Exova Surrey
Solids Suspended (Total, Fixed and Volatile)	APHA	* Total Suspended Solids Dried at 103-105'C, 2540 D	15-Mar-13	Exova Surrey
Trace Metals (dissolved) in Water (Surrey)	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	14-Mar-13	Exova Surrey
Trace Metals (dissolved) in Water (Surrey)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	14-Mar-13	Exova Surrey

** Reference Method Modified*

References

APHA	Standard Methods for the Examination of Water and Wastewater
US EPA	US Environmental Protection Agency Test Methods

Comments:

- pH analysis was performed past the recommended holding time of 15 minutes from sample collection.

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Methodology and Notes

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**925199**
Report To:	J. Gibson & Associates	ID:	Silver Range Resources (SRR)	Control Number:	A246271
	Box 20913	Name:	Rebel Project	Date Received:	Mar 13, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Mar 19, 2013
	Y1A 6P2	LSD:		Report Number:	1811001
Attn:	John Gibson	P.O.:			
Sampled By:	R.Gibson	Acct code:			
Company:					

Please direct any inquiries regarding this report to our Client Services group.
Results relate only to samples as submitted.
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Control Number A246271

Environmental Sample Information Sheet

Note: Proper completion of this form is required in order to proceed with analysis

See reverse for your nearest Exova location and proper sampling protocol

Billing Address: Copy of Report:

Company:
Address: J. Gibson & Associates
Box 20111
Whitehorse, YT Y1A 7A2

QA/QC Report

Attention: John Gibson
Phone: (867)633-4522
Fax:
Cell: (867)668-6895
e-mail:

Report Result: e-mail / Results Online / Fax / Mail

Copy of Report To: Copy of invoice:

Company:
Address:

Send invoice to this address for approval

LOT: 925199 COC

Attention:
Phone:
Fax:
Cell:
e-mail:

Report Result: e-mail / Results Online / Fax / Mail

Information to be included on Report and Invoice

Project ID: SILVER RANGE RESOURCES (SRR)
Project Name: REBEL PROJECT
Project Location:
Legal Location:
PO#:
Proj. Acct. Code: 6646
Agreement ID:

PRIORITY

Please contact laboratory prior to submitting any RUSH samples.

Upon filling out this section, client accepts that surcharges will be applied to this analysis.

If not all samples require RUSH, please indicate in special instructions.

Date Required:
Signature:

Sample Custody (Please Print)
Sampled by: R GIBSON
Company Signature

I authorize Exova to proceed with the work indicated on this form:
Date: Mar 12/13 Initial: J Gibson

Received by: Sample Temp. 9.6°C
Waybill# 315 10 2M10U Date
Company Time

Special Instructions / Comments

RCHEM = pH, EC, TP, N_2, N_3, TALK, SO4, CL, HARDT, TSS, TDS
TW23 field filtered. METALS + NITRIC
NH2 + SULFURIC
TCN + NaOH
TOC + HCL

13=13P01:07 RCVD

Please indicate which regulations you are required to meet:
- Health Canada Drinking Water Quality
- Alberta Tier 1
- Other:

Sample Identification	Location	Depth IN CM M	Date/Time Sampled	Matrix	Sampling Method	Number of Containers	RCHEM	NH4	TOC	TW23ew	TW24ew+THg	TCN
REB #1	SURF	—	Mar 10	H_2O	Grab	6	✓	✓	✓	✓	✓	✓
REB #2	"		"	"	"	6	✓	✓	✓	✓	✓	✓
~~REB #~~						6						

Enter tests above (✓ relevant samples below)

OK LS

NOTE: All hazardous samples must be labeled according to WHMIS guidelines.

Page 1 of 1

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Report Transmission Cover Page

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**925205**
Report To:	J. Gibson & Associates	ID:	Silver Range Resources (SRR)	Control Number:	A246273
	Box 20913	Name:	Snap Project	Date Received:	Mar 13, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Mar 19, 2013
	Y1A 6P2	LSD:		Report Number:	1811017
Attn:	John Gibson	P.O.:			
Sampled By:	R.Gibson	Acct code:			
Company:					

Contact & Affiliation	Address	Delivery Commitments
John Gibson J. Gibson & Associates	, Box 20913 Whitehorse, Yukon Territory Y1A 6P2 Phone: (867) 633-4522 Fax: (867) 668-6895 Email: ludditegibson@gmail.com	On [Lot Verification] send (COA) by Email - Single Report On [Report Approval] send (COC, Test Report) by Email - Merge Reports On [Report Approval] send (Test Report) by Email - Single Report On [Lot Approval and Final Test Report Approval] send (Invoice) by Email - Single Report On [Lot Creation] send (COR) by Email - Single Report

Notes To Clients:

- pH analysis was performed past the recommended holding time of 15 minutes from sample collection.

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: R.Gibson
Company:

Project:
ID: Silver Range Resources (SRR)
Name: Snap Project
Location:
LSD:
P.O.:
Acct code:

Lot ID: **925205**
Control Number: A246273
Date Received: Mar 13, 2013
Date Reported: Mar 19, 2013
Report Number: 1811017

		Reference Number	925205-1	925205-2		
		Sample Date	Mar 10, 2013	Mar 10, 2013		
		Sample Time	NA	NA		
		Sample Location				
		Sample Description	Surface / Snap # 1	Surface / Snap # 2		
		Matrix	Water	Water		
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Inorganic Nonmetallic Parameters						
Organic Carbon	Total Nonpurgeable	mg/L	1.5	0.6		0.5
Cyanide	Total	mg/L	<0.002	<0.002		0.002
Phosphorus	Total	mg/L	0.016	<0.003		0.003
Ammonia - N		mg/L	0.04	<0.01		.01
Metals Dissolved						
Sulfur	Dissolved	mg/L	18.6	19.6		0.2
Aluminum	Dissolved	mg/L	<0.005	0.005		0.005
Antimony	Dissolved	mg/L	<0.0002	<0.0002		0.0002
Arsenic	Dissolved	mg/L	0.0006	0.0011		0.0002
Barium	Dissolved	mg/L	0.037	0.022		0.001
Beryllium	Dissolved	mg/L	<0.00004	0.00010		0.00004
Bismuth	Dissolved	mg/L	<0.001	<0.001		0.001
Boron	Dissolved	mg/L	<0.004	<0.004		0.004
Cadmium	Dissolved	mg/L	0.00071	0.00100		0.00001
Chromium	Dissolved	mg/L	<0.0004	<0.0004		0.0004
Cobalt	Dissolved	mg/L	0.00102	0.00064		0.00002
Copper	Dissolved	mg/L	<0.001	<0.001		0.001
Lead	Dissolved	mg/L	0.0001	<0.0001		0.0001
Lithium	Dissolved	mg/L	0.003	0.002		0.001
Molybdenum	Dissolved	mg/L	0.00021	<0.00010		0.0001
Nickel	Dissolved	mg/L	0.009	0.013		0.001
Selenium	Dissolved	mg/L	<0.0006	<0.0006		0.0006
Silver	Dissolved	mg/L	<0.00001	<0.00001		0.00001
Titanium	Dissolved	mg/L	<0.010	<0.010		0.01
Strontium	Dissolved	mg/L	0.170	0.149		0.001
Tellurium	Dissolved	mg/L	<0.0001	<0.0001		0.0001
Thallium	Dissolved	mg/L	<0.00001	<0.00001		0.00001
Thorium	Dissolved	mg/L	<0.0004	<0.0004		0.0004
Tin	Dissolved	mg/L	<0.0001	<0.0001		0.0001
Uranium	Dissolved	mg/L	0.0018	<0.0004		0.0004
Vanadium	Dissolved	mg/L	<0.00010	<0.00010		0.0001
Zinc	Dissolved	mg/L	0.207	0.154		0.001
Zirconium	Dissolved	mg/L	0.00019	<0.00010		0.0001
Metals Total						
Mercury	Total	mg/L	0.0001	<0.0001		0.0001
Aluminum	Total	mg/L	0.132	0.020		0.005

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: R.Gibson
Company:

Project:
ID: Silver Range Resources (SRR)
Name: Snap Project
Location:
LSD:
P.O.:
Acct code:

Lot ID: **925205**
Control Number: A246273
Date Received: Mar 13, 2013
Date Reported: Mar 19, 2013
Report Number: 1811017

	Reference Number	925205-1	925205-2		
	Sample Date	Mar 10, 2013	Mar 10, 2013		
	Sample Time	NA	NA		
	Sample Location				
	Sample Description	Surface / Snap # 1	Surface / Snap # 2		
	Matrix	Water	Water		
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Total - Continued						
Antimony	Total	mg/L	<0.0001	<0.0001		0.0001
Arsenic	Total	mg/L	0.00237	0.00127		0.00005
Barium	Total	mg/L	0.0429	0.0252		0.00005
Beryllium	Total	mg/L	0.00010	0.00012		0.00005
Bismuth	Total	mg/L	<0.0001	<0.0001		0.0001
Boron	Total	mg/L	<0.002	<0.002		.002
Cadmium	Total	mg/L	0.00113	0.00109		0.00001
Calcium	Total	mg/L	32.2	22.9		0.05
Chromium	Total	mg/L	<0.0005	<0.0005		0.0005
Cobalt	Total	mg/L	0.0004	<0.0001		0.0001
Copper	Total	mg/L	0.0011	0.0004		0.0001
Iron	Total	mg/L	1.08	0.033		0.002
Lead	Total	mg/L	0.0017	0.0002		0.0001
Lithium	Total	mg/L	0.0028	0.0020		0.0005
Magnesium	Total	mg/L	5.72	4.01		0.04
Manganese	Total	mg/L	0.171	0.0033		0.001
Molybdenum	Total	mg/L	0.00031	0.00012		0.00005
Nickel	Total	mg/L	0.0102	0.0137		0.0002
Potassium	Total	mg/L	1.1	0.7		0.1
Selenium	Total	mg/L	0.0004	0.0003		0.0001
Silicon	Total	mg/L	5.00	3.75		0.02
Silver	Total	mg/L	<0.00005	<0.00005		0.0005
Sodium	Total	mg/L	2.7	2.2		0.1
Strontium	Total	mg/L	0.172	0.151		0.0001
Thallium	Total	mg/L	0.00001	<0.00001		0.00001
Thorium	Total	mg/L	0.00003	<0.00001		0.00001
Tin	Total	mg/L	0.0004	<0.0001		0.0001
Titanium	Total	mg/L	0.0054	<0.0005		0.0005
Uranium	Total	mg/L	0.00195	0.00011		0.00001
Vanadium	Total	mg/L	0.0004	<0.0001		0.0001
Zinc	Total	mg/L	0.235	0.155		0.0005
Zirconium	Total	mg/L	<0.0005	<0.0005		0.0005
Hardness	as CaCO3	mg/L	104	74		1
Physical and Aggregate Properties						
Solids	Total Suspended	mg/L	10	<2		2
Solids	Total Dissolved	mg/L	156	120		5

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: R.Gibson
Company:

Project:
ID: Silver Range Resources (SRR)
Name: Snap Project
Location:
LSD:
P.O.:
Acct code:

Lot ID: **925205**
Control Number: A246273
Date Received: Mar 13, 2013
Date Reported: Mar 19, 2013
Report Number: 1811017

		Reference Number	925205-1	925205-2		
		Sample Date	Mar 10, 2013	Mar 10, 2013		
		Sample Time	NA	NA		
		Sample Location				
		Sample Description	Surface / Snap # 1	Surface / Snap # 2		
		Matrix	Water	Water		
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Routine Water						
pH	at 25 °C		6.78	6.38		
Electrical Conductivity		µS/cm at 25 C	219	171		1
Calcium	Dissolved	mg/L	30.1	21.5		0.1
Iron	Dissolved	mg/L	0.233	0.012		0.005
Magnesium	Dissolved	mg/L	6.04	4.33		0.1
Manganese	Dissolved	mg/L	0.076	<0.001		0.001
Potassium	Dissolved	mg/L	1.0	0.7		0.1
Silicon	Dissolved	mg/L	4.43	3.47		0.05
Sodium	Dissolved	mg/L	2.7	2.1		0.1
Bicarbonate		mg/L	55	14		5
Carbonate		mg/L	<6	<6		6
Hydroxide		mg/L	<5	<5		5
P-Alkalinity	as CaCO3	mg/L	<5	<5		5
T-Alkalinity	as CaCO3	mg/L	45	11		5
Chloride	Dissolved	mg/L	0.10	<0.05		0.05
Nitrate - N	Dissolved	mg/L	0.19	0.16		0.01
Nitrite - N	Dissolved	mg/L	0.03	0.01		0.01
Sulfate (SO4)	Dissolved	mg/L	60.2	62.9		0.5
Hardness	as CaCO3	mg/L	100	71		5

Approved by:

Aaron Zentner, B.SC., P.Chem.
Team Leader - Organics

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Methodology and Notes

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**925205**
Report To:	J. Gibson & Associates	ID:	Silver Range Resources (SRR)	Control Number:	A246273
	Box 20913	Name:	Snap Project	Date Received:	Mar 13, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Mar 19, 2013
	Y1A 6P2	LSD:		Report Number:	1811017
Attn:	John Gibson	P.O.:			
Sampled By:	R.Gibson	Acct code:			
Company:					

Method of Analysis

Method Name	Reference	Method	Date Analysis Started	Location
Alk, pH, EC, Turb in water (Surrey)	APHA	* Alkalinity - Titration Method, 2320 B	14-Mar-13	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	* Conductivity, 2510 B	14-Mar-13	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	* pH - Electrometric Method, 4500-H+ B	14-Mar-13	Exova Surrey
Ammonia-N in Water (Surrey)	APHA	* Flow Injection Analysis, 4500-NH3 H	15-Mar-13	Exova Surrey
Anions by IEC in water (Surrey)	APHA	* Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	14-Mar-13	Exova Surrey
BC ICP-MS Total Metals in Water	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	15-Mar-13	Exova Edmonton
BC Trace Total Metals in Water	APHA	* Inductively Coupled Plasma (ICP) Method, 3120 B	15-Mar-13	Exova Edmonton
Carbon Organic (Total) in water (TOC)	APHA	High-Temperature Combustion Method, 5310 B	18-Mar-13	Exova Edmonton
Cyanide (Total) in water	US EPA	* US EPA method, 335.3	18-Mar-13	Exova Edmonton
Mercury (Total) in water	US EPA	* Determination of Hg in Sediment by Cold Vapor Atomic Absorption Spec, 245.5	18-Mar-13	Exova Edmonton
Metals SemiTrace (Dissolved) in water (Surrey)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	14-Mar-13	Exova Surrey
Phosphorus - total (low level) - Surrey	APHA	* Preliminary Acid Hydrolysis, Ascorbic Acid Reduction Method, 4500-P B,E	15-Mar-13	Exova Surrey
Solids Dissolved (Total, Fixed and Volatile) - Surrey	APHA	* Total Dissolved Solids Dried at 180 C, 2540 C	18-Mar-13	Exova Surrey
Solids Suspended (Total, Fixed and Volatile)	APHA	* Total Suspended Solids Dried at 103-105'C, 2540 D	15-Mar-13	Exova Surrey
Trace Metals (dissolved) in Water (Surrey)	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	14-Mar-13	Exova Surrey
Trace Metals (dissolved) in Water (Surrey)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	14-Mar-13	Exova Surrey

** Reference Method Modified*

References

APHA	Standard Methods for the Examination of Water and Wastewater
US EPA	US Environmental Protection Agency Test Methods

Comments:

- pH analysis was performed past the recommended holding time of 15 minutes from sample collection.

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Methodology and Notes

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**925205**
Report To:	J. Gibson & Associates	ID:	Silver Range Resources (SRR)	Control Number:	A246273
	Box 20913	Name:	Snap Project	Date Received:	Mar 13, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Mar 19, 2013
	Y1A 6P2	LSD:		Report Number:	1811017
Attn:	John Gibson	P.O.:			
Sampled By:	R.Gibson	Acct code:			
Company:					

Please direct any inquiries regarding this report to our Client Services group.
Results relate only to samples as submitted.
The test report shall not be reproduced except in full, without the written approval of the laboratory.

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Control Number A246273

Environmental Sample Information Sheet

Note: Proper completion of this form is required in order to proceed with analysis
See reverse for your nearest Exova location and proper sampling protocol

Billing Address:	Copy of Report:	**Copy of Report To:**	Copy of invoice:
Company:		Company:	Send invoice to this address for approval ☐
Address: J. Gibson & Associates Box 20111 Whitehorse, YT Y1A 7A2	QA/QC Report ☐	Address: LOT: 925205 COC	
Attention: John Gibson	Report Result:	Attention	Report Result:
Phone: (867)633-4522	e-mail ☐	Phone:	e-mail ☐
Fax: (867)668-6895	Results Online ☐	Fax:	Results Online ☐
Cell:	Fax ☐	Cell:	Fax ☐
e-mail:	Mail ☐	e-mail:	Mail ☐

Information to be included on Report and Invoice

Project ID: SILVERRANGE RESOURCES
Project Name: SNAP PROJECT (SRR)
Project Location:
Legal Location:
PO#:
Proj. Acct. Code: 6646
Agreement ID:

PRIORITY

Please contact laboratory prior to submitting any RUSH samples.

Upon filling out this section, client accepts that surcharges will be applied to this analysis.

If not all samples require RUSH, please indicate in special instructions.

Date Required: _____
Signature: _____

Sample Custody (Please Print)
Sampled by: RGIBSON
Company Signature

I authorize Exova to proceed with the work indicated on this form:
Date: 3-13-12 PO Received Initial: JGm.

Received by: Sample Temp. 9.6°C
Waybill #: Date
Company Time

Special Instructions / Comments

RCHEM = pH, EC, TP, N_2, N_3, Cl, SO_4, TALK, HARDT, TSS, TDS.
TW23 field filtered. METALS + NITRIC
NH_4 + SULFURIC
TCN + NaOH
TOC + HCl

Please indicate which regulations you are required to meet:
☐ Health Canada Drinking Water Quality
☐ Alberta Tier 1
☐ Other: _____

Sample Identification	Location	Depth IN	Depth CM	Depth M	Date/Time Sampled	Matrix	Sampling Method	Number of Containers	RCHEM	NH4	TOC	TW23 (ew)	TW24 (ew) + HG	TCN
SNAP #1	SURF		—		Mar 10	H2O	Grab	6	✓	✓	✓	✓	✓	✓
SNAP #2	1'				Mar 10	↓	↓	6	✓	✓	✓	✓	✓	✓
~~SNAP~~								~~6~~						
~~SNAP~~								~~6~~						

Enter tests above (✓ relevant samples below)

NOTE: All hazardous samples must be labeled according to WHMIS guidelines.

Page 1 of 1

EDD 07/10

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Report Transmission Cover Page

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**925208**
Report To:	J. Gibson & Associates	ID:	Silver Range Resources (SRR)	Control Number:	A246272
	Box 20913	Name:	Hammer Project	Date Received:	Mar 13, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Mar 19, 2013
	Y1A 6P2	LSD:		Report Number:	1811018
Attn:	John Gibson	P.O.:			
Sampled By:	R. Gibson	Acct code:			
Company:					

Contact & Affiliation	Address	Delivery Commitments
John Gibson J. Gibson & Associates	, Box 20913 Whitehorse, Yukon Territory Y1A 6P2 Phone: (867) 633-4522 Fax: (867) 668-6895 Email: ludditegibson@gmail.com	On [Lot Verification] send (COA) by Email - Single Report On [Report Approval] send (COC, Test Report) by Email - Merge Reports On [Report Approval] send (Test Report) by Email - Single Report On [Lot Approval and Final Test Report Approval] send (Invoice) by Email - Single Report On [Lot Creation] send (COR) by Email - Single Report

Notes To Clients:

- pH analysis was performed past the recommended holding time of 15 minutes from sample collection.

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: R. Gibson
Company:

Project:
ID: Silver Range Resources (SRR)
Name: Hammer Project
Location:
LSD:
P.O.:
Acct code:

Lot ID: **925208**
Control Number: A246272
Date Received: Mar 13, 2013
Date Reported: Mar 19, 2013
Report Number: 1811018

		Reference Number	925208-1	925208-2	925208-3	
		Sample Date	Mar 10, 2013	Mar 10, 2013	Mar 10, 2013	
		Sample Time	NA	NA	NA	
		Sample Location	Surface	Surface	Surface	
		Sample Description	HAM #1	HAM #2	HAM #3	
		Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Inorganic Nonmetallic Parameters						
Organic Carbon	Total Nonpurgeable	mg/L	1.1	1.2	0.7	0.5
Cyanide	Total	mg/L	<0.002	<0.002	<0.002	0.002
Phosphorus	Total	mg/L	0.010	0.024	0.004	0.003
Ammonia - N		mg/L	<0.01	0.06	<0.01	.01
Metals Dissolved						
Sulfur	Dissolved	mg/L	2.3	4.7	5.3	0.2
Aluminum	Dissolved	mg/L	<0.005	<0.005	<0.005	0.005
Antimony	Dissolved	mg/L	<0.0002	<0.0002	<0.0002	0.0002
Arsenic	Dissolved	mg/L	0.0005	0.0012	<0.0002	0.0002
Barium	Dissolved	mg/L	0.235	0.095	0.062	0.001
Beryllium	Dissolved	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Boron	Dissolved	mg/L	<0.004	<0.004	<0.004	0.004
Cadmium	Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Chromium	Dissolved	mg/L	0.0010	0.0008	0.0010	0.0004
Cobalt	Dissolved	mg/L	0.00058	0.00065	0.00035	0.00002
Copper	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Lead	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Lithium	Dissolved	mg/L	0.004	0.002	0.001	0.001
Molybdenum	Dissolved	mg/L	0.00069	0.00062	0.00057	0.0001
Nickel	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Selenium	Dissolved	mg/L	0.0007	<0.0006	<0.0006	0.0006
Silver	Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Titanium	Dissolved	mg/L	<0.010	<0.010	<0.010	0.01
Strontium	Dissolved	mg/L	0.168	0.146	0.123	0.001
Tellurium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium	Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Thorium	Dissolved	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin	Dissolved	mg/L	0.0001	<0.0001	<0.0001	0.0001
Uranium	Dissolved	mg/L	0.0023	0.0014	0.0011	0.0004
Vanadium	Dissolved	mg/L	0.00035	0.00028	0.00027	0.0001
Zinc	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Zirconium	Dissolved	mg/L	0.00016	<0.00010	<0.00010	0.0001
Metals Total						
Mercury	Total	mg/L	<0.0001	<0.0001	0.0001	0.0001
Aluminum	Total	mg/L	0.005	0.019	0.009	0.005

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: R. Gibson
Company:

Project:
ID: Silver Range Resources (SRR)
Name: Hammer Project
Location:
LSD:
P.O.:
Acct code:

Lot ID: **925208**
Control Number: A246272
Date Received: Mar 13, 2013
Date Reported: Mar 19, 2013
Report Number: 1811018

	Reference Number	925208-1	925208-2	925208-3	
	Sample Date	Mar 10, 2013	Mar 10, 2013	Mar 10, 2013	
	Sample Time	NA	NA	NA	
	Sample Location	Surface	Surface	Surface	
	Sample Description	HAM #1	HAM #2	HAM #3	
	Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Total - Continued						
Antimony	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Arsenic	Total	mg/L	0.00060	0.00171	0.00022	0.00005
Barium	Total	mg/L	0.244	0.100	0.0649	0.00005
Beryllium	Total	mg/L	<0.00005	<0.00005	<0.00005	0.00005
Bismuth	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Boron	Total	mg/L	<0.002	<0.002	<0.002	.002
Cadmium	Total	mg/L	0.00001	0.00002	<0.00001	0.00001
Calcium	Total	mg/L	39.4	41.7	39.0	0.05
Chromium	Total	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Cobalt	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Copper	Total	mg/L	0.0002	0.0003	0.0003	0.0001
Iron	Total	mg/L	0.019	0.763	0.066	0.002
Lead	Total	mg/L	<0.0001	<0.0001	0.0001	0.0001
Lithium	Total	mg/L	0.0042	0.0022	0.0014	0.0005
Magnesium	Total	mg/L	7.38	11.2	11.5	0.04
Manganese	Total	mg/L	0.0106	0.0834	0.0091	0.001
Molybdenum	Total	mg/L	0.00084	0.00080	0.00074	0.00005
Nickel	Total	mg/L	<0.0002	0.0002	<0.0002	0.0002
Potassium	Total	mg/L	0.8	0.6	0.3	0.1
Selenium	Total	mg/L	0.0008	0.0005	0.0006	0.0001
Silicon	Total	mg/L	4.84	4.55	3.85	0.02
Silver	Total	mg/L	<0.00005	<0.00005	<0.00005	0.0005
Sodium	Total	mg/L	1.7	1.9	1.3	0.1
Strontium	Total	mg/L	0.165	0.145	0.123	0.0001
Thallium	Total	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Thorium	Total	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Tin	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Titanium	Total	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Uranium	Total	mg/L	0.00226	0.00130	0.00108	0.00001
Vanadium	Total	mg/L	0.0002	0.0001	0.0001	0.0001
Zinc	Total	mg/L	<0.0005	0.0012	<0.0005	0.0005
Zirconium	Total	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Hardness	as CaCO3	mg/L	129	150	145	1
Physical and Aggregate Properties						
Solids	Total Suspended	mg/L	<2	<2	<2	2
Solids	Total Dissolved	mg/L	162	188	172	5

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: R. Gibson
Company:

Project:
ID: Silver Range Resources (SRR)
Name: Hammer Project
Location:
LSD:
P.O.:
Acct code:

Lot ID: **925208**
Control Number: A246272
Date Received: Mar 13, 2013
Date Reported: Mar 19, 2013
Report Number: 1811018

		Reference Number	925208-1	925208-2	925208-3	
		Sample Date	Mar 10, 2013	Mar 10, 2013	Mar 10, 2013	
		Sample Time	NA	NA	NA	
		Sample Location	Surface	Surface	Surface	
		Sample Description	HAM #1	HAM #2	HAM #3	
		Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Routine Water						
pH	at 25 °C		7.43	7.13	7.58	
Electrical Conductivity		µS/cm at 25 C	249	286	268	1
Calcium	Dissolved	mg/L	36.7	40.3	37.0	0.1
Iron	Dissolved	mg/L	0.011	0.471	0.032	0.005
Magnesium	Dissolved	mg/L	7.79	12.0	12.2	0.1
Manganese	Dissolved	mg/L	0.007	0.075	<0.001	0.001
Potassium	Dissolved	mg/L	0.8	0.5	0.3	0.1
Silicon	Dissolved	mg/L	4.44	4.22	3.54	0.05
Sodium	Dissolved	mg/L	2.1	1.9	1.5	0.1
Bicarbonate		mg/L	158	164	150	5
Carbonate		mg/L	<6	<6	<6	6
Hydroxide		mg/L	<5	<5	<5	5
P-Alkalinity	as CaCO3	mg/L	<5	<5	<5	5
T-Alkalinity	as CaCO3	mg/L	130	135	123	5
Chloride	Dissolved	mg/L	0.13	0.12	0.06	0.05
Nitrate - N	Dissolved	mg/L	0.18	0.16	0.20	0.01
Nitrite - N	Dissolved	mg/L	0.07	0.08	0.07	0.01
Sulfate (SO4)	Dissolved	mg/L	7.1	14.8	17.2	0.5
Hardness	as CaCO3	mg/L	124	150	143	5

Approved by:

Aaron Zentner, B.SC., P.Chem.
Team Leader - Organics

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Methodology and Notes

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**925208**
Report To:	J. Gibson & Associates	ID:	Silver Range Resources (SRR)	Control Number:	A246272
	Box 20913	Name:	Hammer Project	Date Received:	Mar 13, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Mar 19, 2013
	Y1A 6P2	LSD:		Report Number:	1811018
Attn:	John Gibson	P.O.:			
Sampled By:	R. Gibson	Acct code:			
Company:					

Method of Analysis

Method Name	Reference	Method	Date Analysis Started	Location
Alk, pH, EC, Turb in water (Surrey)	APHA	* Alkalinity - Titration Method, 2320 B	14-Mar-13	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	* Conductivity, 2510 B	14-Mar-13	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	* pH - Electrometric Method, 4500-H+ B	14-Mar-13	Exova Surrey
Ammonia-N in Water (Surrey)	APHA	* Flow Injection Analysis, 4500-NH3 H	15-Mar-13	Exova Surrey
Anions by IEC in water (Surrey)	APHA	* Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	14-Mar-13	Exova Surrey
BC ICP-MS Total Metals in Water	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	15-Mar-13	Exova Edmonton
BC Trace Total Metals in Water	APHA	* Inductively Coupled Plasma (ICP) Method, 3120 B	15-Mar-13	Exova Edmonton
Carbon Organic (Total) in water (TOC)	APHA	High-Temperature Combustion Method, 5310 B	18-Mar-13	Exova Edmonton
Cyanide (Total) in water	US EPA	* US EPA method, 335.3	18-Mar-13	Exova Edmonton
Mercury (Total) in water	US EPA	* Determination of Hg in Sediment by Cold Vapor Atomic Absorption Spec, 245.5	18-Mar-13	Exova Edmonton
Metals SemiTrace (Dissolved) in water (Surrey)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	14-Mar-13	Exova Surrey
Phosphorus - total (low level) - Surrey	APHA	* Preliminary Acid Hydrolysis, Ascorbic Acid Reduction Method, 4500-P B,E	15-Mar-13	Exova Surrey
Solids Dissolved (Total, Fixed and Volatile) - Surrey	APHA	* Total Dissolved Solids Dried at 180 C, 2540 C	18-Mar-13	Exova Surrey
Solids Suspended (Total, Fixed and Volatile)	APHA	* Total Suspended Solids Dried at 103-105'C, 2540 D	15-Mar-13	Exova Surrey
Trace Metals (dissolved) in Water (Surrey)	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	14-Mar-13	Exova Surrey
Trace Metals (dissolved) in Water (Surrey)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	14-Mar-13	Exova Surrey

** Reference Method Modified*

References

APHA	Standard Methods for the Examination of Water and Wastewater
US EPA	US Environmental Protection Agency Test Methods

Comments:

- pH analysis was performed past the recommended holding time of 15 minutes from sample collection.

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#104, 19575-55 A Ave.
Surrey, British Columbia
V3S 8P8, Canada

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E: Surrey@exova.com
W: www.exova.com

Methodology and Notes

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**925208**
Report To:	J. Gibson & Associates	ID:	Silver Range Resources (SRR)	Control Number:	A246272
	Box 20913	Name:	Hammer Project	Date Received:	Mar 13, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Mar 19, 2013
	Y1A 6P2	LSD:		Report Number:	1811018
Attn:	John Gibson	P.O.:			
Sampled By:	R. Gibson	Acct code:			
Company:					

Please direct any inquiries regarding this report to our Client Services group.
Results relate only to samples as submitted.
The test report shall not be reproduced except in full, without the written approval of the laboratory.

Exova

LOT: 925208 COC

Control Number A246272

ıvironmental Sample Information Sheet

ote: Proper completion of this form is required in order to proceed with analysis

See reverse for your nearest Exova location and proper sampling protocol

www.exova.com

Billing Address:	Copy of Report:	Copy of Report To:	Copy of invoice:
Company:		Company:	Send invoice to this address for approval
Address: J. Gibson & Associates, Box 20111, Whitehorse, YT Y1A 7A2	QA/QC Report	Address:	
Attention: John Gibson	Report Result: e-mail	Attention:	Report Result: e-mail
Phone: (867)633-4522	Results Online	Phone:	Results Online
Fax:	Fax	Fax:	Fax
Cell: (867)668-6895	Mail	Cell:	Mail
e-mail:		e-mail:	

Information to be included on Report and Invoice

Project ID: SILVER RANGE RESOURCES (SRR)
Project Name: HAMMER
Project Location: PROJECT.
Legal Location:
PO#:
Proj. Acct. Code: 6646
Agreement ID:

PRIORITY

Please contact laboratory prior to submitting any RUSH samples.

Upon filling out this section, client accepts that surcharges will be applied to this analysis.

If not all samples require RUSH, please indicate in special instructions. 03-13-13 PM 1:07

Date Required:
Signature:

Sample Custody (Please Print)
Sampled by: RGIBSON
Company Signature

I authorize Exova to proceed with the work indicated on this form:
Date: Initial:

Received by: RCVD | Sample Temp. 9.6°C
Waybill #: | Date
Company | Time

Special Instructions / Comments

RCHEM = pH, EC, TP, N_2, N_3, CL, SO4, TALK, THARD, TSS, TDS.
TW23 field filtered. METALS + NITRIC
NH4 + SULFURIC
TCN + NaOH, TOC + HCL

OK

Please indicate which regulations you are required to meet:
- [ ] Health Canada Drinking Water Quality
- [ ] Alberta Tier 1
- [ ] Other:

Sample Identification	Location	Depth IN CM M	Date/Time Sampled	Matrix	Sampling Method	Number of Containers	RCHEM	NH4	TOC	TW23ew	TW24ew + THg	TCN
HAM #1	SURF	/	Mar 10	H_2O	Grab	6	✓	✓	✓	✓	✓	✓
HAM #2	↓		Mar 10	↓	↓	6	✓	✓	✓	✓	✓	✓
HAM #3			Mar 10			6	✓	✓	✓	✓	✓	✓
~~HAM #~~						~~4~~						

Enter tests above (✓ relevant samples below)

NOTE: All hazardous samples must be labeled according to WHMIS guidelines.

APPENDIX 2

Flow Volume Calculations

March 2013

Stage Discharge Calculations

Project: **Silver Range - Rebel Claims** **Date:** **10-Mar-13**

Site: **Rebel #1**

Point (m)	Depth (meters)	Width (meters)	Velocity (m/sec)	Area (m sq)	Volume (cms)
2.3	0	0.05	0	0	0.000
2.4	0.22	0.1	0.042	0.022	0.001
2.5	0.22	0.1	0.036	0.022	0.001
2.6	0.32	0.06	0	0.0192	0.000
2.62	0	0.51	0	0	0.000
3.62	0	0.54	0	0	0.000
3.7	0.4	0.09	0	0.036	0.000
3.8	0.44	0.1	0.066	0.044	0.003
3.9	0.42	0.1	0.073	0.042	0.003
4	0.42	0.1	0.112	0.042	0.005
4.1	0.32	0.1	0.196	0.032	0.006
4.2	0.32	0.1	0.254	0.032	0.008
4.3	0.4	0.1	0.254	0.04	0.010
4.4	0.38	0.1	0.237	0.038	0.009
4.5	0.38	0.1	0.254	0.038	0.010
4.6	0.38	0.1	0.226	0.038	0.009
4.7	0.38	0.1	0.208	0.038	0.008
4.8	0.4	0.1	0.231	0.04	0.009
4.9	0.32	0.1	0.221	0.032	0.007
5	0.3	0.1	0.212	0.030	0.0064
5.1	0.26	0.1	0.158	0.026	0.0041
5.2	0.24	0.1	0.145	0.024	0.0035
5.3	0	0.05	0	0.000	0.0000
3		**3**			**0.1024**

All velocity readings at 0.6 depth

No Staff Gauge

Data logger reading: No logger

Channel under ice? complete ice cover

Method: Price Velocity meter/ TS Wading Rod

Measurement By: R.Gibson

Stage Discharge Calculations

Project: Silver Range - SNAP Claims **Date:** 10-Mar-13

Site: SNAP#2

Point (m)	Depth (meters)	Width (meters)	Velocity (m/sec)	Area (m sq)	Volume (cms)
0.85	0	0.05	0	0	0.000
0.95	0.06	0.1	0.226	0.006	0.001
1.05	0.06	0.1	0.204	0.006	0.001
1.15	0.07	0.1	0.158	0.007	0.001
1.25	0.06	0.1	0.145	0.006	0.001
1.35	0.06	0.1	0.212	0.006	0.001
1.45	0.06	0.1	0.089	0.006	0.001
1.55	0.06	0.1	0.142	0.006	0.001
1.65	0.04	0.055	0.035	0.0022	0.0001
1.66	0	0.385	0	0	0.000
2.42	0	0.395	0	0	0.000
2.45	0	0.065	0	0	0.000
2.55	0.08	0.1	0	0.008	0.000
2.65	0.11	0.1	0	0.011	0.000
2.75	0.13	0.1	0.046	0.013	0.001
2.85	0.12	0.1	0.112	0.012	0.001
2.95	0.14	0.075	0	0.0105	0.000
3	0	0.025	0	0	0.000
2.15		2.15			**0.0079**

All velocity readings at 0.6 depth

No Staff Gauge

Data logger reading: No logger

Channel under ice?e: Complete ice cover / no anchor ice

Method: Price Velocity meter/ TS Wading Rod

Measurement By: R.Gibson

Stage Discharge Calculations

Project: **Silver Range - HAMMER Claims** **Date:** **10-Mar-13**

Site: **HAM #3**

Point *(m)*	**Depth** *(meters)*	**Width** *(meters)*	**Velocity** *(m/sec)*	**Area** *(m sq)*	**Volume** *(cms)*
0.8	0	0.05	0	0	0.000
0.9	0.1	0.1	0	0.01	0.000
1	0.1	0.1	0.124	0.01	0.001
1.1	0.1	0.1	0.08	0.01	0.001
1.2	0.08	0.1	0.196	0.008	0.002
1.3	0.08	0.1	0.179	0.008	0.001
1.4	0.12	0.1	0.301	0.012	0.004
1.5	0.1	0.1	0	0.01	0.000
1.6	0.08	0.1	0.271	0.008	0.002
1.7	0.1	0.1	0.406	0.01	0.004
1.8	0.18	0.1	0.576	0.018	0.010
1.9	0.1	0.1	0.17	0.01	0.002
2	0.13	0.1	0.483	0.013	0.006
2.1	0.06	0.09	0	0.0054	0.000
2.18	0	0.04	0	0	0.000
1.38		1.38			**0.0332**

All velocity readings at 0.6 depth

No Staff Gauge

Data logger reading: No logger

Channel under ice?Y Complete ice cover / no anchor ice

Method: Price Velocity meter/ TS Wading Rod

Measurement By: R.Gibson

Silver Range Resources

KEG PROJECT

Baseline Water Quality / Hydrology Survey

Environmental Data Update

April and May, 2013

J.Gibson Env. Consulting *Whitehorse, Yukon*

KEG Claims April and May 2013

Silver Range Resources baseline water quality / hydrology surveys of the KEG Claims surface waters continued in April and May 2013 at stations identified for monthly surveillance.

Monthly stations are KEG #1, #2, #3, #4, #5, #6 and receiving waters station #9.

The sites are located in the Anvil Range approximately 30 kilometers north of Faro, Yukon and 15 kilometers north of the former Faro Mine.

The KEG Claims are located on tributaries to the Tay River.

All surface waters are tributaries to the Pelly River.

The KEG exploration project was closed for the season in September 2012 and re opened in May 2013.

The exploration camp and all survey sites were accessed by helicopter.

The baseline survey consisted of water quality samples for routine chemistry, total metals, dissolved metals, total organic carbon, total cyanide and total mercury with field measurements for pH, water temperature and flow volume measurements.

The Onset Weather Station installed in November 2012 was downloaded in both April and May 2013.

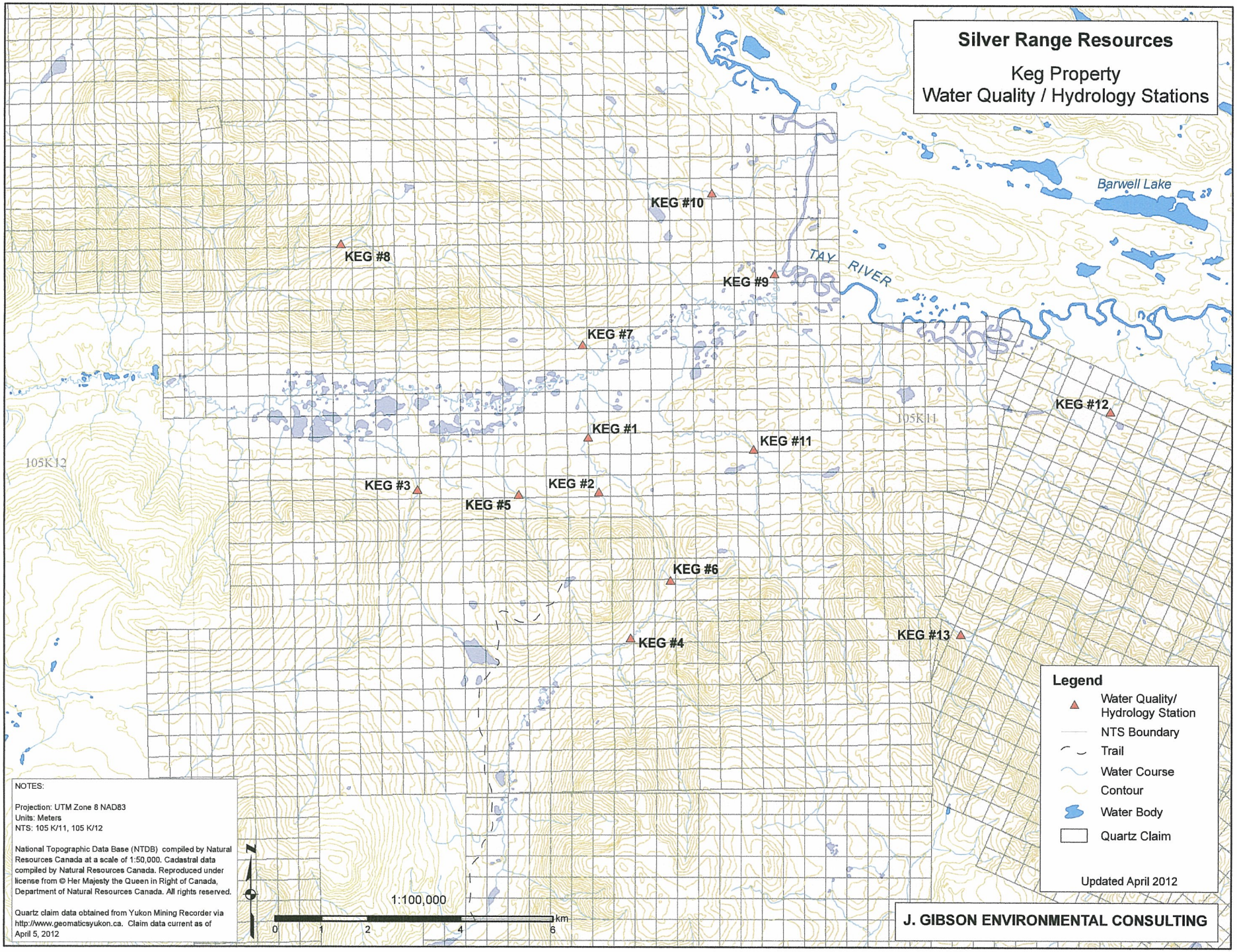
Snow Survey measurements were taken at Keg Snow Course #1 in April 2013.

Sample Locations

Nine water quality sample sites were established on the KEG Claims during the initial survey in August 2010.

Four sites were added in October 2010 on the eastern limits of the expanded claim block.

All sites are on the attached location map.


Silver Range Resources
Keg Property
Water Quality / Hydrology Stations
Barwell Lake
TAY RIVER
KEG #10
KEG #8
KEG #9
KEG #7
KEG #12
KEG #1
KEG #11
105K12
105K11
KEG #3
KEG #2
KEG #5
KEG #6
KEG #13
KEG #4
Legend
Water Quality/ Hydrology Station
NTS Boundary
Trail
Water Course
Contour
Water Body
Quartz Claim
Updated April 2012
NOTES:
Projection: UTM Zone 8 NAD83
Units: Meters
NTS: 105 K/11, 105 K/12
National Topographic Data Base (NTDB) compiled by Natural Resources Canada at a scale of 1:50,000. Cadastral data compiled by Natural Resources Canada. Reproduced under license from © Her Majesty the Queen in Right of Canada, Department of Natural Resources Canada. All rights reserved.
Quartz claim data obtained from Yukon Mining Recorder via http://www.geomaticsyukon.ca. Claim data current as of April 5, 2012
N
1:100,000
0 1 2 4 6 km
J. GIBSON ENVIRONMENTAL CONSULTING

Sample Frequency

KEG stations #1, #2, #3, #4, #5, #6 and #9 are on a monthly frequency as of November 2012. All other stations remain on a quarterly sampling frequency.

KEG Claim sample station designations and coordinates (updated March 2012) are:

Station #	Lat/Long Coordinates	Elevation(m)
KEG #1	62 36 8.26 / 133 19 58.3	787
KEG #2	62 35 29.8 / 133 19 44.2	818
KEG #3	62 35 34.4 / 133 24 18.1	865
KEG #4	62 33 46.9 / 133 19 48	970
KEG #5	62 35 29.3 / 133 21 45.3	833
KEG #6	62 34 26.4 / 133 17 59.1	940
KEG #7	62 37 12.9 / 133 20 43	833
KEG #8	62 38 26.8 / 133 26 5.3	1152
KEG #9	62 37 59.2 / 133 15 9.9	750
KEG #10	62 38 56.3 / 133 16 41.9	850
KEG #11	62 35 57.1 / 133 15 48.3	880
KEG #12	62 36 16.9 / 133 06 45.8	820
KEG #13	62 33 43.7 / 133 10 41.6	1020
*Updated March 2012		

Station coordinates and elevations are for helicopter landing sites. Due to the topography and vegetation it was often necessary to located landing sites up to100 meter distance from sample sites.

Sample Analysis Parameters

All KEG stations were sampled for total metals, dissolved metals and routine chemistry, total organic carbon, total cyanide and total mercury.

Dissolved metals samples were filtered onsite using disposable 60 ml syringes and 0.45 micron filters. New syringes and filters were used for each station.

Total and dissolved metal samples were preserved with nitric acid immediately after sampling.

All samples were stored in coolers, kept at 4 Celsius and shipped by air cargo to the Exova Canada Inc. laboratory in Surrey B.C. for analysis within recommended holding times.

Field measurements for pH and conductivity were taken with an Oakton PCS TestR 35, water temperatures with a digital thermometer.

Flow Volume Measurements

April 2013

Stream flow volume was measured in April 2013 at KEG #1.with a Price AA velocity meter and cross sectional area calculations.

Stations KEG#2 and #5 remain dry with ice to the channel invert.

KEG #6 flows were estimated at less than 1 liter per second.

All channels remain under complete ice cover.

A summary of KEG stream flow volumes from 2010 to 2013 are in Table 4.

May 2013

Stream flow volumes were measured at Stations KEG#1, #6, #2, #3, #5 and #11. Volumes were at mid stage freshet in all stream channels.

Water Level data loggers were installed at Stations KEG#1 and #11 with benchmark, water level and top of staff gauge elevations surveyed.

April and May stream flow volumes data / calculations are attached in Appendix 2.

Keg Weather Station

The Onset/Hobo weather station installed in November 2012 had data downloaded in April and May 2013. All logger systems were operational.

Analysis Results

Laboratory analysis and field measurement results are listed in the following tables:

Table 1. April 2013 KEG Monthly Stations Routine Chemistry – laboratory analysis and field measurements

Table 2. April 2013 KEG Monthly Stations Total Metals ICP–MS laboratory analysis results

Table 3. April 2013 KEG Monthly Stations Dissolved Metals ICP–MS laboratory analysis results

Table 4. KEG Stations Flow Volume Summary to May 2013.

Table 5. May 2013 KEG Monthly Stations Routine Chemistry – laboratory analysis and field measurements

Table 6. May 2013 KEG Monthly Stations Total Metals ICP–MS laboratory analysis results

Table 7. May 2013 KEG Monthly Stations Dissolved Metals ICP–MS laboratory analysis results

Table 8. April 2013 Quality Control Sample Analysis Results at KEG #9 and KEG#4 in May 2013.

Table 9. Snow Survey Data 2013

Table 10. Camp Water Supply at KEG#4 for May 2013.

Table 1.Silver Range Resources - KEG Claims April, 2013.
Routine Chemistry and Field Measurement Results

		STATIONS								
Parameter	**Unit**	**KEG #1**	**KEG #2**	**KEG #3**	**KEG #4**	**KEG #5**	**KEG #6**	**KEG #7**	**DWQ* G.lines**	**Aquatic** G.lines**
Monitoring Frequency		***Monthly***	***Monthly***	***Monthly***	***Monthly***	***Monthly***	***Monthly***	***Quarterly***		
pH (field)	ru	7.71		7.63	8.38		7.63			
pH (lab)	ru	7.76	No	7.89	7.91	No	5.79	No	6.5-8.5	6.5-9
Electrical Conductivity (lab)		468	Surface	224	464	Surface	519	Surface		
Water temperature	C	-0.1	Flow	0.5	0.0	Flow	0	Flow		
Flow Volume(field)	cms	0.077		nr	nr		<0.001			
Organic Carbon Total	mg/L	3		2.6	3		9.2			
Cyanide Total	mg/L	<0.002		<0.002	<0.002		<0.002		0.2	0.005
Phosphorus Total	mg/L	0.009		0.005	0.021		<0.003			
Ammonia - N	mg/L	0.02		0.02	0.04		0.15			1.37-2.2
Nitrate - N	mg/L	0.32		0.19	0.29		0.06		10	
Nitrite - N	mg/L	<0.01		<0.01	<0.01		<0.01		1	0.06
T-Alkalinity	mg/L	160		112	176		10			
Chloride	mg/L	0.37		0.15	0.34		0.31		<250	
Sulfate (SO4)	mg/L	101		10.3	76.3		261			
Hardness	mg CaCO3/L	247		115	247		254		<500	
Total Suspended Solids	mg/L	<2		<2	<2		8			
Total Dissolved Solids	mg/L	342		174	346		438		<500	

All results and limits in mg/L unless noted otherwis. Nr = no sample/reading

DWQ* Guidelines are Maximum Acceptable Concentrations according to
Canadian Drinking Water Quality

Aquatic** Guidelines are for protection of aquatic life in waters with pH >6.5 and Hardness as CaC03 >180 mg/L
Canadian Water Quality Guidelines

Table 1.Silver Range Resources - KEG Claims April, 2013.
Routine Chemistry and Field Measurement Results

		STATIONS							
Parameter	**Unit**	**KEG#8**	**KEG#9**	**KEG#10**	**KEG#11**	**KEG#12**	**KEG#13**	**DWQ* G.lines**	**Aquatic** G.lines**
Monitoring Frequency		***Quarterly***	***Monthly***	***Quarterly***	***Quarterly***	***Quarterly***	***Quarterly***		
pH (field)	ru		7.65						
pH (lab)	ru		7.23	No				6.5-8.5	6.5-9
Electrical Conductivity (lab)	uS/cm		442	Surface					
Water temperature	C		-0.3	Flow					
Flow Volume(field)	cms		nr						
Organic Carbon Total	mg/L		3.7						
Cyanide Total	mg/L		<0.002					0.2	0.005
Phosphorus Total	mg/L		0.012						
Ammonia - N	mg/L		0.04						1.37-2.2
Nitrate - N	mg/L		0.25					10	
Nitrite - N	mg/L		<0.01					1	0.06
T-Alkalinity	mg/L		188						
Chloride	mg/L		0.37					<250	
Sulfate (SO4)	mg/L		61.1						
Hardness	mg CaCO3/L		244					<500	
Total Suspended Solids	mg/L		<2						
Total Dissolved Solids	mg/L		328					<500	

All results and limits in mg/L unless noted otherwis. Nr = no sample/reading

DWQ* Guidelines are Maximum Acceptable Concentrations according to
Canadian Drinking Water Quality

Aquatic** Guidelines are for protection of aquatic life in waters with pH >6.5 and Hardness as CaC03 >180 mg/L
Canadian Water Quality Guidelines

Table 2.Silver Range Resources - KEG Claims April, 2013.

Total Metals Analysis Results.

Parameter	Units	KEG #1	KEG #2	KEG #3	KEG #4	KEG #5	KEG #6	KEG #7	DWQ* G.Lines	Aquatic** G.Lines
Calcium	mg/L	87.9		37	86.6		91.3			
Iron	mg/L	0.077	No	0.037	0.237	No	16.7		0.3	0.3
Magnesium	mg/L	10.4	Surface	5.68	10.8	Surface	9.33			
Manganese	mg/L	0.0065	Flow	0.0054	0.0283	Flow	0.388		0.05	
Potassium	mg/L	2.8		1.3	3.1		1.8			
Silicon	mg/L	6.36		7.31	6.72		5.68			
Sulfur	mg/L									
Sodium	mg/L	4.9		4.5	5.5		1.6		<200	
Titanium	mg/L	<0.0010		<0.001	<0.0010		<0.0010			
Aluminum	mg/L	0.017		<0.010	0.018		0.591			0.1
Antimony	mg/L	0.0002		<0.0002	<0.0002		0.0002		0.006	
Arsenic	mg/L	0.00206		0.00136	0.00249		0.00379		0.01	
Barium	mg/L	0.0826		0.07	0.0958		0.0383		1	
Beryllium	mg/L	<0.0001		<0.0001	<0.0001		0.00027			
Bismuth	mg/L	<0.0002		<0.0002	<0.0002		<0.0002			
Boron	mg/L	0.015		0.01	0.015		0.01			
Cadmium	mg/L	0.0001		0.00003	0.00006		0.00029		0.005	0.0018
Chromium	mg/L	<0.001		<0.001	<0.001		<0.001		0.05	0.002
Cobalt	mg/L	<0.0002		<0.0002	<0.0002		0.012			
Copper	mg/L	0.009		0.0011	0.001		0.0078		1	0.004
Lead	mg/L	<0.0002		<0.0002	<0.0002		<0.0002			
Lithium	mg/L	0.0063		0.0124	0.0074		0.0188			
Molybdenum	mg/L	0.0025		0.00153	0.00284		0.00014			
Nickel	mg/L	0.0018		<0.0004	0.0007		0.112			0.15
Selenium	mg/L	0.0021		0.0006	0.0018		0.0009		0.01	0.001
Silver	mg/L	<0.0001		<0.0001	<0.0001		<0.00010			0.0001
Strontium	mg/L	0.211		0.126	0.212		0.0848			
Thallium	mg/L	<0.00002		<0.00002	<0.00002		0.00004			
Tin	mg/L	0.0002		<0.0002	<0.0002		<0.0002			
Uranium	mg/L	0.00414		0.0138	0.00454		0.00002		0.02	
Vanadium	mg/L	0.0002		<0.0002	0.0003		<0.0002			
Zinc	mg/L	0.0064		0.0012	0.0031		0.286		<5	0.03
Zirconium	mg/L	<0.001		<0.001	<0.001		<0.001			
Mercury	mg/L	<0.0001		<0.0001	<0.0001		<0.0001		0.001	

indicates levels equal or exceed Guideline Limits

Table 2.Silver Range Resources - KEG Claims April, 2013.
Total Metals Analysis Results.

Parameter	Units	KEG#8	KEG#9	KEG#10	KEG#11	KEG#12	KEG#13	DWQ* G.Lines	Aquatic** G.Lines
Calcium	mg/L		84.4						
Iron	mg/L		0.29					0.3	0.3
Magnesium	mg/L		12.3						
Manganese	mg/L		0.0786					0.05	
Potassium	mg/L		1.9						
Silicon	mg/L		6.42						
Sulfur	mg/L								
Sodium	mg/L		4.6					<200	
Titanium	mg/L		<0.0010						
Aluminum	mg/L		<0.010						0.1
Antimony	mg/L		<0.0002					0.006	
Arsenic	mg/L		0.00116					0.01	
Barium	mg/L		0.111					1	
Beryllium	mg/L		<0.0001						
Bismuth	mg/L		<0.0002						
Boron	mg/L		0.01						
Cadmium	mg/L		0.00011					0.005	0.0018
Chromium	mg/L		0.001					0.05	0.002
Cobalt	mg/L		<0.0002						
Copper	mg/L		0.0016					1	0.004
Lead	mg/L		<0.0002						
Lithium	mg/L		0.0077						
Molybdenum	mg/L		0.00209						
Nickel	mg/L		0.001						0.15
Selenium	mg/L		<0.0010					0.01	0.001
Silver	mg/L		<0.0001						0.0001
Strontium	mg/L		0.256						
Thallium	mg/L		<0.00002						
Tin	mg/L		<0.0002						
Uranium	mg/L		0.003					0.02	
Vanadium	mg/L		<0.0002						
Zinc	mg/L		0.011					<5	0.03
Zirconium	mg/L		<0.001						
Mercury	mg/L		<0.0001					0.001	

indicates levels equal or exceed Guideline Limits

Table 3.Silver Range Resources - KEG Claims April, 2013.
Dissolved Metals Analysis Results

Parameter	Units	KEG #1	KEG #2	KEG #3	KEG #4	KEG #5	KEG #6	KEG #7
Calcium	mg/L	82.2		36.4	81.3		86.5	
Iron	mg/L	0.015		0.033	0.042		15	
Magnesium	mg/L	10.2	No Surface	5.86	10.7	No Surface	9.29	No Surface
Manganese	mg/L	0.002	Flow	0.004	0.024	Flow	0.37	Flow
Potassium	mg/L	2.8		1.2	3		1.7	
Silicon	mg/L	5.49		6.65	5.86		4.95	
Sodium	mg/L	4.6		4.4	5.1		1.5	
Sulfur	mg/L	30.2		3.5	24.6		80	
Aluminum	mg/L	<0.005		<0.005	<0.005		0.456	
Antimony	mg/L	0.0002		<0.0002	<0.0002		0.0002	
Arsenic	mg/L	0.0017		0.0013	0.0017		0.0032	
Barium	mg/L	0.076		0.069	0.087		0.034	
Beryllium	mg/L	<0.00004		<0.00004	<0.00004		0.00024	
Bismuth	mg/L	<0.001		<0.001	<0.001		<0.001	
Boron	mg/L	0.015		0.008	0.015		0.01	
Cadmium	mg/L	0.00007		0.00002	0.00006		0.00029	
Chromium	mg/L	0.001		0.0006	0.001		0.0004	
Cobalt	mg/L	0.00006		<0.00002	<0.00002		0.0114	
Copper	mg/L	<0.001		<0.001	<0.001		0.006	
Lead	mg/L	<0.0001		<0.0001	<0.0001		<0.0001	
Lithium	mg/L	0.007		0.012	0.007		0.018	
Molybdenum	mg/L	0.00228		0.0014	0.00254		0.0001	
Nickel	mg/L	0.003		<0.001	0.001		0.103	
Selenium	mg/L	0.0019		<0.0006	0.0015		0.0007	
Silver	mg/L	<0.00001		<0.00001	<0.00001		<0.00001	
Strontium	mg/L	0.206		0.124	0.202		0.083	
Titanium	mg/L	<0.010		<0.010	<0.010		<0.010	
Thallium	mg/L	<0.00001		<0.00001	<0.00001		0.00003	
Tin	mg/L	<0.0001		<0.0001	<0.0001		<0.0001	
Uranium	mg/L	0.0041		0.014	0.0044		<0.0004	
Vanadium	mg/L	0.00045		0.00033	0.00047		0.00016	
Zinc	mg/L	0.005		0.002	0.002		0.265	
Zirconium	mg/L	0.00036		0.00021	0.00027		0.00024	

Table 3.Silver Range Resources - KEG Claims April, 2013.
Dissolved Metals Analysis Results

Parameter	Units	KEG#8	KEG#9	KEG#10	KEG#11	KEG#12	KEG#13
Calcium	mg/L		78.2				
Iron	mg/L		0.05				
Magnesium	mg/L		12				
Manganese	mg/L		0.071				
Potassium	mg/L		1.8				
Silicon	mg/L		5.53				
Sodium	mg/L		4.2				
Sulfur	mg/L		19.2				
Aluminum	mg/L		<0.005				
Antimony	mg/L		<0.0002				
Arsenic	mg/L		0.0007				
Barium	mg/L		0.1				
Beryllium	mg/L		<0.00004				
Bismuth	mg/L		<0.001				
Boron	mg/L		0.01				
Cadmium	mg/L		0.00008				
Chromium	mg/L		0.002				
Cobalt	mg/L		<0.00002				
Copper	mg/L		<0.001				
Lead	mg/L		<0.0001				
Lithium	mg/L		0.008				
Molybdenum	mg/L		0.00185				
Nickel	mg/L		0.002				
Selenium	mg/L		0.0006				
Silver	mg/L		<0.00001				
Strontium	mg/L		0.248				
Titanium	mg/L		<0.010				
Thallium	mg/L		<0.00001				
Tin	mg/L		<0.0001				
Uranium	mg/L		0.0028				
Vanadium	mg/L		0.00038				
Zinc	mg/L		0.008				
Zirconium	mg/L		0.00027				

Table 4. Silver Range Resources - Summary of KEG Project Stations Flow Volumes 2010 to 2013

(Cubic meters per second)

Station	Date													
	Aug-10	Oct-10	Mar-11	Jun-11	Sep-11	Mar-12	May-12	Jul-12	Oct-12	Nov-12	Dec-12	Mar-13	Apr-13	May-13
KEG #1	0.249	0.362	0.025	0.939	0.785	0.057	0.6995	1.270	0.312	0.215	0.114	0.12	0.077	2.131
KEG #2	Dry	Dry	Dry	0.008 E	0.003 E	Dry	1.1247 0.0015 E	1.3736	0.0005 E	dry	dry	dry	dry	0.002
KEG #3	nr	nr	nr	nr	nr	nr	0.6237	0.9296	0.328	nr	nr	0.053	nr	2.285
KEG #4	0.211	0.261	0.028	0.758	nr	0.012	0.7403	1.206	0.323	nr	nr	0.069	nr	2.074
KEG #5	0.139	0.0006	Dry	0.011	0.011	Dry	0.0253	0.013	0.004 E	dry	dry	dry	dry	0.003
KEG #6	0.007	0.009	0.001	0.013	0.013	Dry	0.0163	0.0269	0.006	<0.001 e	<0.001 e	<0.001e	<0.001e	0.057
KEG #7	0.011	0.011	Overflow	0.048	0.057	Overflow	0.0787	0.0485	0.031	nr	nr	dry		nr
KEG #8	0.055 E	0.014	Dry	0.1003	0.050	nr	0.0787	0.0764	0.049	nr	nr	nr		nr
KEG #10	nr	0.167	Dry	0.644	0.18	Dry	0.7094	0.3262	0.107	nr	nr	dry		nr
KEG #11	nr	0.217	0.11	0.143	0.513	0.035	0.4049	0.751	0.288	nr	nr	0.044		1.737
KEG #12	nr	0.11	Dry	0.250 E	0.210	0.007 E	0.5426 0.2044	0.7974 0.4203	0.035	nr	nr	nr		nr
KEG #13	nr	0.143	0.002 E	0.499	0.295	0.002 E	0.2423	0.7296	0.185	nr	nr	nr		nr

E=flow estimated

Table 5.Silver Range Resources - KEG Claims May, 2013.
Routine Chemistry and Field Measurement Results

		STATIONS								
Parameter	**Unit**	**KEG #1**	**KEG #2**	**KEG #3**	**KEG #4**	**KEG #5**	**KEG #6**	**KEG #7**	**DWQ* G.lines**	**Aquatic** G.lines**
Monitoring Frequency		***Monthly***	***Monthly***	***Monthly***	***Monthly***	***Monthly***	***Monthly***	***Quarterly***		
pH (field)	ru	8.12	8.29	8.22	8.19	8.09	7.26			
pH (lab)	ru	7.81	6.99	7.39	7.67	5.57	7		6.5-8.5	6.5-9
Electrical Conductivity (lab)		129	57	55	111	26	177			
Water temperature	C	1.9	0.8	3.5	3.3	0.7	0.9			
Flow Volume(field)	cms	2.131	0.002	2.285	2.074	0.003	0.057			
Organic Carbon Total	mg/L	20.8	41.9	23.7	21.7	42.5	21.3			
Cyanide Total	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002		0.2	0.005
Phosphorus Total	mg/L	0.071	0.02	0.045	0.126	0.036	0.029			
Ammonia - N	mg/L	<0.01	0.02	0.02	0.02	0.03	0.03			1.37-2.2
Nitrate - N	mg/L	0.02	0.02	<0.01	0.02	<0.01	0.05		10	
Nitrite - N	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		1	0.06
T-Alkalinity	mg/L	48	14	24	44	<5	20			
Chloride	mg/L	0.41	0.67	0.21	0.14	0.08	0.81		<250	
Sulfate (SO4)	mg/L	11.5	5.7	1.3	7.2	<0.5	46			
Hardness	mg CaCO3/L	66	37	31	56	15	86		<500	
Total Suspended Solids	mg/L	39	<2	24	68	<2	21			
Total Dissolved Solids	mg/L	102	98	60	92	78	146		<500	

All results and limits in mg/L unless noted otherwis. Nr = no sample/reading

DWQ* Guidelines are Maximum Acceptable Concentrations according to
Canadian Drinking Water Quality

Aquatic** Guidelines are for protection of aquatic life in waters with pH >6.5 and Hardness as CaC03 >180 mg/L
Canadian Water Quality Guidelines

Table 5.Silver Range Resources - KEG Claims May, 2013.
Routine Chemistry and Field Measurement Results

Parameter	Unit	STATIONS						DWQ* G.lines	Aquatic** G.lines
		KEG#8	KEG#9	KEG#10	KEG#11	KEG#12	KEG#13		
Monitoring Frequency		***Quarterly***	***Monthly***	***Quarterly***	***Quarterly***	***Quarterly***	***Quarterly***		
pH (field)	ru		7.73						
pH (lab)	ru		7.59					6.5-8.5	6.5-9
Electrical Conductivity (lab)	uS/cm		137						
Water temperature	C		4.9						
Flow Volume(field)	cms		nr		1.737				
Organic Carbon Total	mg/L		22						
Cyanide Total	mg/L		<0.002					0.2	0.005
Phosphorus Total	mg/L		0.134						
Ammonia - N	mg/L		0.02						1.37-2.2
Nitrate - N	mg/L		<0.01					10	
Nitrite - N	mg/L		<0.01					1	0.06
T-Alkalinity	mg/L		48						
Chloride	mg/L		0.38					<250	
Sulfate (SO4)	mg/L		14						
Hardness	mg CaCO3/L		72					<500	
Total Suspended Solids	mg/L		92						
Total Dissolved Solids	mg/L		108					<500	

All results and limits in mg/L unless noted otherwis. Nr = no sample/reading

DWQ* Guidelines are Maximum Acceptable Concentrations according to
Canadian Drinking Water Quality

Aquatic** Guidelines are for protection of aquatic life in waters with pH >6.5 and Hardness as CaC03 >180 mg/L
Canadian Water Quality Guidelines

Table 6.Silver Range Resources - KEG Claims May, 2013.

Total Metals Analysis Results.

Parameter	Units	KEG #1	KEG #2	KEG #3	KEG #4	KEG #5	KEG #6	KEG #7	DWQ* G.Lines	Aquatic** G.Lines
Calcium	mg/L	23.4	13.6	10.4	19.9	10.8	30.6			
Iron	mg/L	1.9	0.276	0.756	2.76	0.382	5.78		0.3	0.3
Magnesium	mg/L	3.1	1.01	1.54	3.02	0.82	2.73			
Manganese	mg/L	0.0833	0.027	0.0568	0.154	0.0858	0.08		0.05	
Potassium	mg/L	2.5	1	1.8	2.7	0.6	1.2			
Silicon	mg/L	4.29	3.53	2.91	5.06	1.39	3.89			
Sulfur	mg/L									
Sodium	mg/L	1.2	0.6	0.7	1	0.4	0.9		<200	
Titanium	mg/L	0.0398	0.0021	0.0157	0.0626	0.0031	0.0045			
Aluminum	mg/L	0.862	0.21	0.427	1.35	0.378	0.621			0.1
Antimony	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0003		0.006	
Arsenic	mg/L	0.003	0.00211	0.00146	0.00363	0.00162	0.00279		0.01	
Barium	mg/L	0.059	0.0203	0.0354	0.0738	0.068	0.0463		1	
Beryllium	mg/L	<0.00010	0.00018	<0.0001	<0.00010	<0.00010	0.00022			
Bismuth	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
Boron	mg/L	0.007	0.005	0.004	0.006	0.004	<0.004			
Cadmium	mg/L	0.00025	0.00015	0.00011	0.00047	0.00017	0.00012		0.005	0.0018
Chromium	mg/L	0.0029	0.0018	<0.0010	0.0047	<0.0010	0.0016		0.05	0.002
Cobalt	mg/L	0.001	<0.0002	0.0003	0.0014	0.0006	0.002			
Copper	mg/L	0.0068	0.0119	0.0028	0.0082	0.0049	0.0132		1	0.004
Lead	mg/L	0.0011	0.0003	0.0005	0.0012	0.0002	0.0004			
Lithium	mg/L	0.0033	<0.0010	0.003	0.0031	<0.0010	0.0041			
Molybdenum	mg/L	0.00092	0.00075	0.00048	0.00094	0.00019	0.00058			
Nickel	mg/L	0.0059	0.0026	0.0019	0.0067	0.0017	0.0201			0.15
Selenium	mg/L	0.0006	0.0004	0.0003	0.0004	<0.0002	0.0006		0.01	0.001
Silver	mg/L	<0.00010	<0.00010	<0.0001	<0.00010	<0.0001	<0.00010			0.0001
Strontium	mg/L	0.0547	0.0237	0.0305	0.0482	0.0219	0.0512			
Thallium	mg/L	0.00006	0.00003	0.00003	0.00004	<0.00002	0.00004			
Tin	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
Uranium	mg/L	0.00075	0.00005	0.00136	0.00067	0.00008	0.00011		0.02	
Vanadium	mg/L	0.0036	0.001	0.0016	0.0056	0.0017	0.0014			
Zinc	mg/L	0.0174	0.0121	0.0088	0.02	0.0275	0.0479		<5	0.03
Zirconium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010			
Mercury	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001		0.001	

indicates levels equal or exceed Guideline Limits

Table 6.Silver Range Resources - KEG Claims May, 2013.
Total Metals Analysis Results.

Parameter	Units	KEG#8	KEG#9	KEG#10	KEG#11	KEG#12	KEG#13	DWQ* G.Lines	Aquatic** G.Lines
Calcium	mg/L		24.5						
Iron	mg/L		2					0.3	0.3
Magnesium	mg/L		3.42						
Manganese	mg/L		0.0984					0.05	
Potassium	mg/L		2						
Silicon	mg/L		4.65						
Sulfur	mg/L								
Sodium	mg/L		1.2					<200	
Titanium	mg/L		0.0231						
Aluminum	mg/L		0.822						0.1
Antimony	mg/L		0.0003					0.006	
Arsenic	mg/L		0.00361					0.01	
Barium	mg/L		0.0949					1	
Beryllium	mg/L		0.0001						
Bismuth	mg/L		<0.0002						
Boron	mg/L		0.006						
Cadmium	mg/L		0.00031					0.005	0.0018
Chromium	mg/L		0.0014					0.05	0.002
Cobalt	mg/L		0.0008						
Copper	mg/L		0.01					1	0.004
Lead	mg/L		0.0016						
Lithium	mg/L		0.0029						
Molybdenum	mg/L		0.00093						
Nickel	mg/L		0.0048						0.15
Selenium	mg/L		0.0007					0.01	0.001
Silver	mg/L		<0.00010						0.0001
Strontium	mg/L		0.0686						
Thallium	mg/L		0.00004						
Tin	mg/L		<0.0002						
Uranium	mg/L		0.00088					0.02	
Vanadium	mg/L		0.0041						
Zinc	mg/L		0.0205					<5	0.03
Zirconium	mg/L		<0.0010						
Mercury	mg/L		<0.0001					0.001	

indicates levels equal or exceed Guideline Limits

Table 7.Silver Range Resources - KEG Claims May, 2013.
Dissolved Metals Analysis Results

Parameter	Units	KEG #1	KEG #2	KEG #3	KEG #4	KEG #5	KEG #6	KEG #7
Calcium	mg/L	22	13.3	9.96	18.7	5.16	30	
Iron	mg/L	0.271	0.225	0.153	0.257	0.331	1.68	
Magnesium	mg/L	2.68	1.03	1.48	2.36	0.6	2.7	
Manganese	mg/L	0.013	0.019	0.004	0.025	0.079	0.062	
Potassium	mg/L	2.2	1	1.7	2.4	0.4	1.2	
Silicon	mg/L	2.48	2.99	1.77	2.22	1.2	3.01	
Sodium	mg/L	1	0.5	0.6	0.9	0.4	0.7	
Sulfur	mg/L	4.5	2.4	0.6	3	0.2	17.5	
Aluminum	mg/L	0.046	0.165	0.068	0.047	0.299	0.141	
Antimony	mg/L	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	0.0002	
Arsenic	mg/L	0.0013	0.0018	0.0006	0.0011	0.0015	0.0006	
Barium	mg/L	0.03	0.017	0.021	0.029	0.015	0.031	
Beryllium	mg/L	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	
Bismuth	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Boron	mg/L	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	
Cadmium	mg/L	0.0001	0.00011	0.00003	0.0001	0.00013	0.00006	
Chromium	mg/L	<0.0004	0.0006	<0.0004	<0.0004	<0.0004	<0.0004	
Cobalt	mg/L	0.00011	0.00008	0.00008	0.00005	0.00047	0.00164	
Copper	mg/L	0.003	0.006	0.001	0.002	0.004	0.004	
Lead	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Lithium	mg/L	0.002	<0.001	0.003	0.002	<0.001	0.004	
Molybdenum	mg/L	0.00076	0.00032	0.00039	0.0007	0.00017	0.00012	
Nickel	mg/L	0.003	0.002	<0.001	0.002	0.001	0.015	
Selenium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	
Silver	mg/L	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Strontium	mg/L	0.049	0.022	0.029	0.041	0.013	0.046	
Titanium	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
Thallium	mg/L	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00002	
Tin	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Uranium	mg/L	0.0006	<0.0004	0.0009	0.0004	<0.0004	<0.0004	
Vanadium	mg/L	0.00038	0.00055	0.00029	0.00037	0.00138	0.00012	
Zinc	mg/L	0.007	0.011	0.005	0.004	0.01	0.037	
Zirconium	mg/L	0.0005	0.00064	0.00033	0.00032	0.0004	0.00037	

Table 7.Silver Range Resources - KEG Claims May, 2013.
Dissolved Metals Analysis Results

Parameter	Units	KEG#8	KEG#9	KEG#10	KEG#11	KEG#12	KEG#13
Calcium	mg/L		23.9				
Iron	mg/L		0.402				
Magnesium	mg/L		3.07				
Manganese	mg/L		0.026				
Potassium	mg/L		1.7				
Silicon	mg/L		2.57				
Sodium	mg/L		1.1				
Sulfur	mg/L		5.5				
Aluminum	mg/L		0.07				
Antimony	mg/L		<0.0002				
Arsenic	mg/L		0.0013				
Barium	mg/L		0.04				
Beryllium	mg/L		<0.00004				
Bismuth	mg/L		<0.001				
Boron	mg/L		<0.004				
Cadmium	mg/L		0.00006				
Chromium	mg/L		<0.0004				
Cobalt	mg/L		0.00018				
Copper	mg/L		0.003				
Lead	mg/L		<0.0001				
Lithium	mg/L		0.002				
Molybdenum	mg/L		0.00073				
Nickel	mg/L		0.002				
Selenium	mg/L		<0.0006				
Silver	mg/L		<0.00001				
Strontium	mg/L		0.062				
Titanium	mg/L		<0.010				
Thallium	mg/L		<0.00001				
Tin	mg/L		<0.0001				
Uranium	mg/L		0.0007				
Vanadium	mg/L		0.00047				
Zinc	mg/L		0.005				
Zirconium	mg/L		0.0004				

Table 8.Silver Range Resources - KEG Claims April and May, 2013.
Quality Control Total and Dissolved Metals Analysis Results.

Parameter	Units	APRIL Keg #9 Total Metals	APRIL Keg #9 Total Metals Duplicate	MAY Keg #4 Total Metals	MAY Keg # 4 Total Metals Duplicate	MAY Keg #4 Diss.Metals	MAY Keg # 4 Diss.Metals Duplicate
Calcium	mg/L	84.4	85.7	19.9	19.6	18.7	18.4
Iron	mg/L	0.29	0.288	2.76	2.21	0.257	0.277
Magnesium	mg/L	12.3	12.2	3.02	2.77	2.36	2.36
Manganese	mg/L	0.0786	0.0781	0.154	0.145	0.025	0.024
Potassium	mg/L	1.9	1.8	2.7	2.7	2.4	2.4
Silicon	mg/L	6.42	6.36	5.06	3.92	2.22	2.15
Sodium	mg/L	4.6	4.5	1	1	0.9	0.8
Titanium	mg/L	<0.0010	<0.001	0.0626	0.038	<0.010	<0.010
Aluminum	mg/L	<0.010	0.019	1.35	0.97	0.047	0.05
Antimony	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Arsenic	mg/L	0.00116	0.00125	0.00363	0.00333	0.0011	0.001
Barium	mg/L	0.111	0.131	0.0738	0.066	0.029	0.029
Beryllium	mg/L	<0.0001	<0.0001	<0.00010	<0.00010	<0.00004	<0.00004
Bismuth	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.001
Boron	mg/L	0.01	0.011	0.006	0.005	<0.004	<0.004
Cadmium	mg/L	0.00011	0.0001	0.00047	0.00052	0.0001	0.00016
Chromium	mg/L	0.001	<0.0010	0.0047	0.004	<0.0004	<0.0004
Cobalt	mg/L	<0.0002	<0.0002	0.0014	0.0011	0.00005	0.00057
Copper	mg/L	0.0016	0.0015	0.0082	0.009	0.002	0.003
Lead	mg/L	<0.0002	<0.0002	0.0012	0.001	<0.0001	<0.0001
Lithium	mg/L	0.0077	0.0077	0.0031	0.0028	0.002	0.002
Molybdenum	mg/L	0.00209	0.00204	0.00094	0.00091	0.0007	0.00068
Nickel	mg/L	0.001	0.0019	0.0067	0.0062	0.002	0.002
Selenium	mg/L	0.0005	0.0009	0.0004	0.0005	<0.0006	<0.0006
Silver	mg/L	<0.0001	<0.0001	<0.00010	<0.0001	<0.00001	<0.00001
Strontium	mg/L	0.256	0.255	0.0482	0.048	0.041	0.042
Thallium	mg/L	<0.00002	<0.00002	0.00004	0.00002	<0.00001	<0.00001
Tin	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0001	<0.0001
Uranium	mg/L	0.003	0.00298	0.00067	0.00063	0.0004	0.0005
Vanadium	mg/L	<0.0002	<0.0002	0.0056	0.0046	0.00037	0.00037
Zinc	mg/L	0.011	0.0155	0.02	0.0172	0.004	0.006
Zirconium	mg/L	<0.001	<0.001	<0.0010	<0.0010	0.00032	0.00027
Mercury	mg/L	<0.0001	<0.0001	<0.0001	<0.0001		

indicates >10% variation between samples

Table 9.Silver Range Resources/KEG Claims - Snow Survey Data 2011 to 2013

Measurement	Snow Site #1		
	23-Mar-11	**22-Mar-12**	**21-Apr-13**
Snow Depth (cm)	60.1	52.9	73.0
Snow Density (%)	18.5	22.2	16.5
Snow Water Equiv.(mm)	111	116	121
Air temp ©	-12	-22	-8
# measurements within 6 % mean density	10 of 10	10 of 10	10 of 10

Note: Values are mean of 10 measurements per site

Table 10. KEG Claims - Camp Drinking Water Supply @ KEG #4, 2011, 2012 and 2013

Parameter		Jun-11 KEG #4	Sep-11 KEG#4 *Raw*	Sep-11 KEG#4 *Treated*	Mar-12 KEG #4 *Raw*	May-12 Keg #4 *Raw*	May-12 Keg #4 *Treated*	Jul-12 Keg #4 *Raw*	Jul-12 Keg #4 *Treated*	Oct-12 Keg#4 *Raw*	May-13 Keg#4 *Raw*	DWQ* Guideline MAC's
pH	ru	8.03	8.2		8.1	7.45		7.94		7.62	7.67	6 to 8.5
Conductivity	uS/cm	222	322		418	175		207		151	111	
Chloride	mg/L	0.28	<0.5		<0.5	0.6		0.06		1.32	0.14	<250
Nitrate	mg/L	0.04	0.02		0.25	0.04		0.02		0.12	0.02	1
Nitrite	mg/L	<0.005	<0.005		<0.005	<0.005		<0.005		<0.01	<0.01	10
T.Dissolved Solids	mg/L	146	198		340	158		174		222	92	500
T.Susp Solids	mg/L	6	<2		<2	30		<2		6	68	
Sulfate	mg/L	26.4	35		72	18		30		46.6	7.2	250
Hardness as CaC03	mg/L	128	166		236	94		137		206	56	<500
Alkalinity total	mg/L	100	132		184	72		104		74	44	
Total Metals												
Aluminum	mg/L	0.17	0.04	0.148	0.007	0.646	0.097	0.1	<0.04	0.081	1.35	
Antimony	mg/L	0.0002	<0.0002	<0.0002	0.0002	<0.0002	<0.0002	<0.0004	<0.0004	0.0002	<0.0002	0.006
Arsenic	mg/L	0.0014	0.0014	0.0015	0.0018	0.0025	0.0018	0.001	0.0009	0.00156	0.00162	0.01
Barium	mg/L	0.133	0.063	0.064	0.08	0.056	0.046	0.075	0.057	0.0722	0.068	1
Beryllium	mg/L	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.0002	<0.0002	<0.00005	<0.0001	
Bismuth	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0001	<0.0002	
Boron	mg/L	0.006	<0.005	<0.005	0.015	0.008	0.007	0.008	0.007	0.008	0.006	5
Cadmium	mg/L	0.00004	0.00003	0.00006	0.00004	0.0001	0.00003	0.00007	0.00006	0.00006	0.00047	0.005
Calcium	mg/L	38.8	55.6	56.4	78.4	29.7	30.2	46.5	47.8	64.4	19.9	
Chromium	mg/L	0.0011	<0.0004	0.0007	<0.0004	0.0023	0.0007	0.001	<0.001	<0.0005	0.0047	0.05
Cobalt	mg/L	0.00025	0.00008	0.00017	0.00008	0.00058	0.00012	0.0006	<0.0002	<0.0001	0.0014	
Copper	mg/L	0.003	0.002	0.002	0.001	0.005	0.008	0.0004	0.006	0.0016	0.0082	1
Iron	mg/L	0.311	0.166	0.303	0.127	1.16	0.468	0.2	<0.1	0.29	2.76	0.3
Lead	mg/L	0.0002	<0.0001	0.0002	<0.0001	0.0008	0.0029	0.0004	0.0008	0.0001	0.0012	0.01
Lithium	mg/L	0.004	0.005	0.005	0.008	0.004		0.005	0.004	0.0051	0.0031	
Magnesium	mg/L	4.65	6.47	6.57	9.93	4.07	4.01	5.1	5	7.86	3.02	
Manganese	mg/L	0.058	0.012	0.02	0.014	0.042	0.014	0.01	<0.01	0.0328	0.154	0.05
Molybdenum	mg/L	0.0015	0.0016	0.0015	0.0024	0.0009	0.0009	<0.002	<0.002	0.00198	0.00094	
Mercury	mg/L		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.0001	<0.0001	<0.0001	<0.0001	0.001
Nickel	mg/L	0.002	0.001	0.002	0.006	0.004	0.002	0.0024	0.002	0.0012	0.0067	
Potassium	mg/L	2	2.2	2.4	2.6	1.9	1.8	2	2	2.4	2.7	
Sulfur	mg/L	8.6	13.1	11.1	24.4	5.4	6.1	9.7	10	nr	nr	
Selenium	mg/L	0.0008	<0.0006	<0.0006	0.0012	<0.0006	<0.0006	0.0008	0.0006	0.0012	0.0004	0.01
Strontium	mg/L	0.093	0.121	0.119	0.187	0.081	0.081	0.089	0.087	0.143	0.0482	
Silicon	mg/L	4.45	5	5.16	5.7	4.06	3.46	4.99	4.83	6.42	5.06	
Sodium	mg/L	2.09	2.73	2.7	4.62	1.65	1.63	2	2	3	1	<200
Titanium	mg/L	0.007	<0.001	0.008	<0.001	0.02	0.004	0.0094	0.002	0.0038	0.0626	
Uranium	mg/L	0.0016	0.0026	0.0027	0.0041	0.0015	0.0017	0.002	0.002	0.00359	0.00067	0.02
Vanadium	mg/L	0.001	0.0004	0.0008	0.0002	0.0025	0.0007	0.002	0.0008	0.0007	0.0056	
Zinc	mg/L	0.003	0.002	0.015	0.002	0.012	0.04	0.006	0.021	0.002	0.02	<5

DWQ* = Canadian Drinking Water Quality Guideline ***exceeds DWQ MAC***

As a guide for reviewing site water quality, the Maximum Acceptable Concentration (MAC) according to ***Canadian Drinking Water Quality*** are listed along with the Aquatic Guidelines for the protection of aquatic life in water with a pH of > 6.5 and a total hardness as CaC03 > 180 mg/L according to ***CCME – Canadian Water Quality Guidelines.***
All water quality ***Guideline*** concentrations are based on total metal values.

All laboratory analysis was done by Exova Canada Inc of Surrey B.C.

Laboratory Analytical Reports are attached in Appendix 1.

Data Summaries for each station are on the attached Excel disc.

Quality Control

Total metals duplicate samples were taken at KEG#9 for quality control.in April 2013.

Total and dissolved metals duplicate samples were taken at KEG#4 in May 2013.

Quality control analysis results are listed in Table 8.

Discussion

Hydrology

All hydrology stations in April were in low flow / late winter stage conditions under full ice cover.

In April, Stations KEG #2 and #5 had no surface flow with ice to channel invert.

In May, all stream channel were in mid stage freshet flows with ice cover removed. Water level data loggers were installed at Stations KEG#1 and KEG#11.

Laboratory Analytical Results

Parameters that equal or exceed either ***Drinking Water or Aquatic Guidelines*** are highlighted in yellow.

KEG Claims April and May 2013

April 2013

Station KEG#1 results exceed the ***Aquatic Guidelines*** for copper and selenium.

Station KEG#4 results exceed ***Aquatic Guidelines*** for selenium.

Station KEG#6 results exceed ***Aquatic Guidelines*** for aluminum, iron, copper and zinc; and exceed the ***Drinking Water MAC*** for iron and manganese.

Station KEG#9 (receiving waters) results exceed the ***Drinking Water MAC*** for manganese.

May 2013

Station KEG#1 results exceed the ***Aquatic Guidelines*** for iron, aluminum, chromium, and copper; and exceed the ***Drinking Water MAC*** for iron and manganese

Station KEG#2 results exceed the ***Aquatic Guidelines*** for aluminum and copper.

Station KEG#3 results exceed the ***Aquatic Guidelines*** for iron and aluminum; and exceed the ***Drinking Water MAC*** for iron and manganese.

Station KEG#4 results exceed ***Aquatic Guidelines*** for iron, aluminum, chromium and cooper; and exceed the ***Drinking Water MAC*** for iron and manganese.

Station KEG#5 results exceed ***Aquatic Guidelines*** for iron, aluminum and cooper; and exceed the ***Drinking Water MAC*** for iron and manganese.

Station KEG#6 results exceed ***Aquatic Guidelines*** for aluminum, iron, copper and zinc; and exceed the ***Drinking Water MAC*** for iron and manganese.

Station KEG #9 (receiving waters) results exceed ***Aquatic Guideline*** for iron, aluminum and copper; and the ***Drinking Water MAC's*** for iron and manganese.

Total Mercury concentrations were below the detection limit of 0.0001 mg/L at all KEG stations.

Total Cyanide concentrations were below the detection limit of 0.002 mg/L at all KEG stations.

Camp Water Supply.

With the start up of the exploration camp in May 2013, laboratory analysis results of the camp water supply at Station KEG#4 are listed in Table 10.

Camp supply exceeds the ***Drinking Water Guidelines MAC*** for total iron and manganese. Both elements are not a health risk to users with the MAC based on aesthetic considerations.

A P P E N D I X 1

LABORATORY ANALYTICAL REPORTS

KEG Claims

April and May 2013

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Report Transmission Cover Page

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**931784**
Report To:	J. Gibson & Associates Box 20913 Whitehorse, YT, Canada Y1A 6P2	ID: Name: Location: LSD:	Silver Range Resources (SRR) Keg	Control Number: Date Received: Date Reported: Report Number:	A246275 Apr 23, 2013 Apr 29, 2013 1820587
Attn:	John Gibson	P.O.:			
Sampled By:	J.Gibson	Acct code:			
Company:					

Contact & Affiliation	Address	Delivery Commitments
John Gibson J. Gibson & Associates	, Box 20913 Whitehorse, Yukon Territory Y1A 6P2 Phone: (867) 633-4522 Fax: (867) 668-6895 Email: ludditegibson@gmail.com	On [Lot Verification] send (COA) by Email - Single Report On [Report Approval] send (COC, Test Report) by Email - Merge Reports On [Report Approval] send (Test Report) by Email - Single Report On [Lot Approval and Final Test Report Approval] send (Invoice) by Email - Single Report On [Lot Creation] send (COR) by Email - Single Report

Notes To Clients:

- pH analysis was performed past the recommended holding time of 15 minutes from sample collection.
- pH analysis was performed past the recommended holding time of 15 minutes from sample collection.

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J.Gibson
Company:

Project:
ID: Silver Range Resources (SRR)
Name: Keg
Location:
LSD:
P.O.:
Acct code:

Lot ID: **931784**
Control Number: A246275
Date Received: Apr 23, 2013
Date Reported: Apr 29, 2013
Report Number: 1820587

	Reference Number	931784-1	931784-2	931784-3	
	Sample Date	Apr 21, 2013	Apr 21, 2013	Apr 21, 2013	
	Sample Time	NA	NA	NA	
	Sample Location				
	Sample Description	Keg #1 / Surface	Keg #3 / Surface	Keg #4 / Surface	
	Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Inorganic Nonmetallic Parameters						
Organic Carbon	Total Nonpurgeable	mg/L	3.0	2.6	3.0	0.5
Cyanide	Total	mg/L	<0.002	<0.002	<0.002	0.002
Phosphorus	Total	mg/L	0.009	0.005	0.021	0.003
Ammonia - N		mg/L	0.02	0.02	0.04	.01
Metals Dissolved						
Sulfur	Dissolved	mg/L	30.2	3.5	24.6	0.2
Aluminum	Dissolved	mg/L	<0.005	<0.005	<0.005	0.005
Antimony	Dissolved	mg/L	0.0002	<0.0002	<0.0002	0.0002
Arsenic	Dissolved	mg/L	0.0017	0.0013	0.0017	0.0002
Barium	Dissolved	mg/L	0.076	0.069	0.087	0.001
Beryllium	Dissolved	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Boron	Dissolved	mg/L	0.015	0.008	0.015	0.004
Cadmium	Dissolved	mg/L	0.00007	0.00002	0.00006	0.00001
Chromium	Dissolved	mg/L	0.0010	0.0006	0.0010	0.0004
Cobalt	Dissolved	mg/L	0.00006	<0.00002	<0.00002	0.00002
Copper	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Lead	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Lithium	Dissolved	mg/L	0.007	0.012	0.007	0.001
Molybdenum	Dissolved	mg/L	0.00228	0.00140	0.00254	0.0001
Nickel	Dissolved	mg/L	0.003	<0.001	0.001	0.001
Selenium	Dissolved	mg/L	0.0019	<0.0006	0.0015	0.0006
Silver	Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Titanium	Dissolved	mg/L	<0.010	<0.010	<0.010	0.01
Strontium	Dissolved	mg/L	0.206	0.124	0.202	0.001
Tellurium	Dissolved	mg/L	<0.0001	0.0001	0.0001	0.0001
Thallium	Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Thorium	Dissolved	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Uranium	Dissolved	mg/L	0.0041	0.0140	0.0044	0.0004
Vanadium	Dissolved	mg/L	0.00045	0.00033	0.00047	0.0001
Zinc	Dissolved	mg/L	0.005	0.002	0.002	0.001
Zirconium	Dissolved	mg/L	0.00036	0.00021	0.00027	0.0001
Metals Total						
Mercury	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Aluminum	Total	mg/L	0.017	<0.010	0.018	0.005

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J.Gibson
Company:

Project:
ID: Silver Range Resources (SRR)
Name: Keg
Location:
LSD:
P.O.:
Acct code:

Lot ID: **931784**
Control Number: A246275
Date Received: Apr 23, 2013
Date Reported: Apr 29, 2013
Report Number: 1820587

			Reference Number	931784-1	931784-2	931784-3	
			Sample Date	Apr 21, 2013	Apr 21, 2013	Apr 21, 2013	
			Sample Time	NA	NA	NA	
			Sample Location				
			Sample Description	Keg #1 / Surface	Keg #3 / Surface	Keg #4 / Surface	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Total - Continued							
Antimony	Total	mg/L		0.0002	<0.0002	<0.0002	0.0001
Arsenic	Total	mg/L		0.00206	0.00136	0.00249	0.00005
Barium	Total	mg/L		0.0826	0.0700	0.0958	0.00005
Beryllium	Total	mg/L		<0.0001	<0.0001	<0.0001	0.00005
Bismuth	Total	mg/L		<0.0002	<0.0002	<0.0002	0.0001
Boron	Total	mg/L		0.015	0.010	0.015	.002
Cadmium	Total	mg/L		0.00010	0.00003	0.00006	0.00001
Calcium	Total	mg/L		87.9	37.0	86.6	0.05
Chromium	Total	mg/L		<0.001	<0.001	<0.001	0.0005
Cobalt	Total	mg/L		<0.0002	<0.0002	<0.0002	0.0001
Copper	Total	mg/L		0.0090	0.0011	0.0010	0.0001
Iron	Total	mg/L		0.077	0.037	0.237	0.002
Lead	Total	mg/L		<0.0002	<0.0002	<0.0002	0.0001
Lithium	Total	mg/L		0.0063	0.0124	0.0074	0.0005
Magnesium	Total	mg/L		10.4	5.68	10.8	0.04
Manganese	Total	mg/L		0.0065	0.0054	0.0283	0.001
Molybdenum	Total	mg/L		0.00250	0.00153	0.00284	0.00005
Nickel	Total	mg/L		0.0018	<0.0004	0.0007	0.0002
Potassium	Total	mg/L		2.8	1.3	3.1	0.1
Selenium	Total	mg/L		0.0021	0.0006	0.0018	0.0001
Silicon	Total	mg/L		6.36	7.31	6.72	0.02
Silver	Total	mg/L		<0.0001	<0.0001	<0.0001	0.00005
Sodium	Total	mg/L		4.9	4.5	5.5	0.1
Strontium	Total	mg/L		0.211	0.126	0.212	0.0001
Thallium	Total	mg/L		<0.00002	<0.00002	<0.00002	0.00001
Thorium	Total	mg/L		<0.00002	<0.00002	<0.00002	0.00001
Tin	Total	mg/L		0.0002	<0.0002	<0.0002	0.0001
Titanium	Total	mg/L		<0.0010	<0.001	<0.0010	0.0005
Uranium	Total	mg/L		0.00414	0.0138	0.00454	0.00001
Vanadium	Total	mg/L		0.0002	<0.0002	0.0003	0.0001
Zinc	Total	mg/L		0.0064	0.0012	0.0031	0.0005
Zirconium	Total	mg/L		<0.001	<0.001	<0.001	0.0005
Hardness	as CaCO3	mg/L		262	116	260	1
Physical and Aggregate Properties							
Solids	Total Suspended	mg/L		<2	<2	<2	2
Solids	Total Dissolved	mg/L		342	174	346	5

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J.Gibson
Company:

Project:
ID: Silver Range Resources (SRR)
Name: Keg
Location:
LSD:
P.O.:
Acct code:

Lot ID: **931784**
Control Number: A246275
Date Received: Apr 23, 2013
Date Reported: Apr 29, 2013
Report Number: 1820587

		Reference Number	931784-1	931784-2	931784-3	
		Sample Date	Apr 21, 2013	Apr 21, 2013	Apr 21, 2013	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	Keg #1 / Surface	Keg #3 / Surface	Keg #4 / Surface	
		Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Routine Water						
pH	at 25 °C		7.76	7.89	7.91	
Electrical Conductivity		µS/cm at 25 C	468	224	464	1
Calcium	Dissolved	mg/L	82.2	36.4	81.3	0.1
Iron	Dissolved	mg/L	0.015	0.033	0.042	0.005
Magnesium	Dissolved	mg/L	10.2	5.86	10.7	0.1
Manganese	Dissolved	mg/L	0.002	0.004	0.024	0.001
Potassium	Dissolved	mg/L	2.8	1.2	3.0	0.1
Silicon	Dissolved	mg/L	5.49	6.65	5.86	0.05
Sodium	Dissolved	mg/L	4.6	4.4	5.1	0.1
Bicarbonate		mg/L	196	137	215	5
Carbonate		mg/L	<6	<6	<6	6
Hydroxide		mg/L	<5	<5	<5	5
P-Alkalinity	as CaCO3	mg/L	<5	<5	<5	5
T-Alkalinity	as CaCO3	mg/L	160	112	176	5
Chloride	Dissolved	mg/L	0.37	0.15	0.34	0.05
Nitrate - N	Dissolved	mg/L	0.32	0.19	0.29	0.01
Nitrite - N	Dissolved	mg/L	<0.01	<0.01	<0.01	0.01
Sulfate (SO4)	Dissolved	mg/L	101	10.3	76.3	0.5
Hardness	as CaCO3	mg/L	247	115	247	5

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**931784**
Report To:	J. Gibson & Associates	ID:	Silver Range Resources (SRR)	Control Number:	A246275
	Box 20913	Name:	Keg	Date Received:	Apr 23, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Apr 29, 2013
	Y1A 6P2	LSD:		Report Number:	1820587
Attn:	John Gibson	P.O.:			
Sampled By:	J.Gibson	Acct code:			
Company:					

		Reference Number	931784-4	931784-5		
		Sample Date	Apr 21, 2013	Apr 21, 2013		
		Sample Time	NA	NA		
		Sample Location				
		Sample Description	Keg #6 / Surface	Keg #9 / Surface		
		Matrix	Water	Water		
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Inorganic Nonmetallic Parameters						
Organic Carbon	Total Nonpurgeable	mg/L	9.2	3.7		0.5
Cyanide	Total	mg/L	<0.002	<0.002		0.002
Phosphorus	Total	mg/L	<0.003	0.012		0.003
Ammonia - N		mg/L	0.15	0.04		.01
Metals Dissolved						
Sulfur	Dissolved	mg/L	80.0	19.2		0.2
Aluminum	Dissolved	mg/L	0.456	<0.005		0.005
Antimony	Dissolved	mg/L	0.0002	<0.0002		0.0002
Arsenic	Dissolved	mg/L	0.0032	0.0007		0.0002
Barium	Dissolved	mg/L	0.034	0.10		0.001
Beryllium	Dissolved	mg/L	0.00024	<0.00004		0.00004
Bismuth	Dissolved	mg/L	<0.001	<0.001		0.001
Boron	Dissolved	mg/L	0.01	0.010		0.004
Cadmium	Dissolved	mg/L	0.00029	0.00008		0.00001
Chromium	Dissolved	mg/L	0.0004	0.0020		0.0004
Cobalt	Dissolved	mg/L	0.0114	<0.00002		0.00002
Copper	Dissolved	mg/L	0.006	<0.001		0.001
Lead	Dissolved	mg/L	<0.0001	<0.0001		0.0001
Lithium	Dissolved	mg/L	0.018	0.008		0.001
Molybdenum	Dissolved	mg/L	0.00010	0.00185		0.0001
Nickel	Dissolved	mg/L	0.103	0.002		0.001
Selenium	Dissolved	mg/L	0.0007	0.0006		0.0006
Silver	Dissolved	mg/L	<0.00001	<0.00001		0.00001
Titanium	Dissolved	mg/L	<0.010	<0.010		0.01
Strontium	Dissolved	mg/L	0.083	0.248		0.001
Tellurium	Dissolved	mg/L	<0.0001	<0.0001		0.0001
Thallium	Dissolved	mg/L	0.00003	<0.00001		0.00001
Thorium	Dissolved	mg/L	<0.0004	<0.0004		0.0004
Tin	Dissolved	mg/L	<0.0001	<0.0001		0.0001
Uranium	Dissolved	mg/L	<0.0004	0.0028		0.0004
Vanadium	Dissolved	mg/L	0.00016	0.00038		0.0001
Zinc	Dissolved	mg/L	0.265	0.008		0.001
Zirconium	Dissolved	mg/L	0.00024	0.00027		0.0001
Physical and Aggregate Properties						
Solids	Total Suspended	mg/L	8	<2		2
Solids	Total Dissolved	mg/L	438	328		5

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**931784**
Report To:	J. Gibson & Associates	ID:	Silver Range Resources (SRR)	Control Number:	A246275
	Box 20913	Name:	Keg	Date Received:	Apr 23, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Apr 29, 2013
	Y1A 6P2	LSD:		Report Number:	1820587
Attn:	John Gibson	P.O.:			
Sampled By:	J.Gibson	Acct code:			
Company:					

		Reference Number	931784-4	931784-5		
		Sample Date	Apr 21, 2013	Apr 21, 2013		
		Sample Time	NA	NA		
		Sample Location				
		Sample Description	Keg #6 / Surface	Keg #9 / Surface		
		Matrix	Water	Water		
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Routine Water						
pH	at 25 °C		5.79	7.23		
Electrical Conductivity		µS/cm at 25 C	519	442		1
Calcium	Dissolved	mg/L	86.5	78.2		0.1
Iron	Dissolved	mg/L	15.0	0.050		0.005
Magnesium	Dissolved	mg/L	9.29	12.0		0.1
Manganese	Dissolved	mg/L	0.370	0.071		0.001
Potassium	Dissolved	mg/L	1.7	1.8		0.1
Silicon	Dissolved	mg/L	4.95	5.53		0.05
Sodium	Dissolved	mg/L	1.5	4.2		0.1
Bicarbonate		mg/L	<5	230		5
Carbonate		mg/L	12	<6		6
Hydroxide		mg/L	<5	<5		5
P-Alkalinity	as CaCO3	mg/L	<5	<5		5
T-Alkalinity	as CaCO3	mg/L	10	188		5
Chloride	Dissolved	mg/L	0.31	0.37		0.05
Nitrate - N	Dissolved	mg/L	0.06	0.25		0.01
Nitrite - N	Dissolved	mg/L	<0.01	<0.01		0.01
Sulfate (SO4)	Dissolved	mg/L	261	61.1		0.5
Hardness	as CaCO3	mg/L	254	244		5

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J.Gibson
Company:

Project:
ID: Silver Range Resources (SRR)
Name: Keg
Location:
LSD:
P.O.:
Acct code:

Lot ID: **931784**
Control Number: A246275
Date Received: Apr 23, 2013
Date Reported: Apr 29, 2013
Report Number: 1820587

			Reference Number	931784-4	931784-5	931784-6	
			Sample Date	Apr 21, 2013	Apr 21, 2013	Apr 21, 2013	
			Sample Time	NA	NA	NA	
			Sample Location				
			Sample Description	Keg #6 / Surface	Keg #9 / Surface	Keg #9 Duplicate / Surface	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Total							
Mercury	Total	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Aluminum	Total	mg/L		0.591	<0.010	0.019	0.005
Antimony	Total	mg/L		0.0002	<0.0002	<0.0002	0.0001
Arsenic	Total	mg/L		0.00379	0.00116	0.00125	0.00005
Barium	Total	mg/L		0.0383	0.111	0.131	0.00005
Beryllium	Total	mg/L		0.00027	<0.0001	<0.0001	0.00005
Bismuth	Total	mg/L		<0.0002	<0.0002	<0.0002	0.0001
Boron	Total	mg/L		0.010	0.010	0.011	.002
Cadmium	Total	mg/L		0.00029	0.00011	0.00010	0.00001
Calcium	Total	mg/L		91.3	84.4	85.7	0.05
Chromium	Total	mg/L		<0.001	0.0010	<0.0010	0.0005
Cobalt	Total	mg/L		0.0120	<0.0002	<0.0002	0.0001
Copper	Total	mg/L		0.0078	0.0016	0.0015	0.0001
Iron	Total	mg/L		16.7	0.290	0.288	0.002
Lead	Total	mg/L		<0.0002	<0.0002	<0.0002	0.0001
Lithium	Total	mg/L		0.0188	0.0077	0.0077	0.0005
Magnesium	Total	mg/L		9.33	12.3	12.2	0.04
Manganese	Total	mg/L		0.388	0.0786	0.0781	0.001
Molybdenum	Total	mg/L		0.00014	0.00209	0.00204	0.00005
Nickel	Total	mg/L		0.112	0.0010	0.0019	0.0002
Potassium	Total	mg/L		1.8	1.9	1.8	0.1
Selenium	Total	mg/L		0.0009	0.0005	0.0009	0.0001
Silicon	Total	mg/L		5.68	6.42	6.36	0.02
Silver	Total	mg/L		<0.00010	<0.0001	<0.0001	0.00005
Sodium	Total	mg/L		1.6	4.6	4.5	0.1
Strontium	Total	mg/L		0.0848	0.256	0.255	0.0001
Thallium	Total	mg/L		0.00004	<0.00002	<0.00002	0.00001
Thorium	Total	mg/L		0.00004	0.00002	<0.00002	0.00001
Tin	Total	mg/L		<0.0002	<0.0002	<0.0002	0.0001
Titanium	Total	mg/L		<0.0010	<0.0010	<0.001	0.0005
Uranium	Total	mg/L		0.00002	0.00300	0.00298	0.00001
Vanadium	Total	mg/L		<0.0002	<0.0002	<0.0002	0.0001
Zinc	Total	mg/L		0.286	0.0110	0.0155	0.0005
Zirconium	Total	mg/L		<0.001	<0.001	<0.001	0.0005
Hardness	as CaCO3	mg/L		266	261		1

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**931784**
Report To:	J. Gibson & Associates	ID:	Silver Range Resources (SRR)	Control Number:	A246275
	Box 20913	Name:	Keg	Date Received:	Apr 23, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Apr 29, 2013
	Y1A 6P2	LSD:		Report Number:	1820587
Attn:	John Gibson	P.O.:			
Sampled By:	J.Gibson	Acct code:			
Company:					

Approved by:

Mathieu Simoneau
Operations Manager

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Methodology and Notes

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**931784**
Report To:	J. Gibson & Associates	ID:	Silver Range Resources (SRR)	Control Number:	A246275
	Box 20913	Name:	Keg	Date Received:	Apr 23, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Apr 29, 2013
	Y1A 6P2	LSD:		Report Number:	1820587
Attn:	John Gibson	P.O.:			
Sampled By:	J.Gibson	Acct code:			
Company:					

Method of Analysis

Method Name	Reference		Method	Date Analysis Started	Location
Alk, pH, EC, Turb in water (Surrey)	APHA	*	Alkalinity - Titration Method, 2320 B	24-Apr-13	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	*	Conductivity, 2510 B	24-Apr-13	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	*	pH - Electrometric Method, 4500-H+ B	24-Apr-13	Exova Surrey
Ammonia-N in Water (Surrey)	APHA	*	Flow Injection Analysis, 4500-NH3 H	25-Apr-13	Exova Surrey
Anions by IEC in water (Surrey)	APHA	*	Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	24-Apr-13	Exova Surrey
BC ICP-MS Total Metals in Water	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	25-Apr-13	Exova Edmonton
BC Trace Total Metals in Water	APHA	*	Inductively Coupled Plasma (ICP) Method, 3120 B	25-Apr-13	Exova Edmonton
Carbon Organic (Total) in water (TOC)	APHA		High-Temperature Combustion Method, 5310 B	25-Apr-13	Exova Edmonton
Cyanide (Total) in water	US EPA	*	US EPA method, 335.3	29-Apr-13	Exova Edmonton
Mercury (Total) in water	US EPA	*	Determination of Hg in Sediment by Cold Vapor Atomic Absorption Spec, 245.5	26-Apr-13	Exova Edmonton
Metals SemiTrace (Dissolved) in water (Surrey)	US EPA	*	Metals & Trace Elements by ICP-AES, 6010C	24-Apr-13	Exova Surrey
Phosphorus - total (low level) - Surrey	APHA	*	Preliminary Acid Hydrolysis, Ascorbic Acid Reduction Method, 4500-P B,E	24-Apr-13	Exova Surrey
Solids Dissolved (Total, Fixed and Volatile) - Surrey	APHA	*	Total Dissolved Solids Dried at 180 C, 2540 C	24-Apr-13	Exova Surrey
Solids Suspended (Total, Fixed and Volatile)	APHA	*	Total Suspended Solids Dried at 103-105'C, 2540 D	24-Apr-13	Exova Surrey
Trace Metals (dissolved) in Water (Surrey)	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	24-Apr-13	Exova Surrey
Trace Metals (dissolved) in Water (Surrey)	US EPA	*	Metals & Trace Elements by ICP-AES, 6010C	24-Apr-13	Exova Surrey

** Reference Method Modified*

References

US EPA	US Environmental Protection Agency Test Methods
APHA	Standard Methods for the Examination of Water and Wastewater

Comments:

- pH analysis was performed past the recommended holding time of 15 minutes from sample collection.
- pH analysis was performed past the recommended holding time of 15 minutes from sample collection.

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Methodology and Notes

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**931784**
Report To:	J. Gibson & Associates	ID:	Silver Range Resources (SRR)	Control Number:	A246275
	Box 20913	Name:	Keg	Date Received:	Apr 23, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Apr 29, 2013
	Y1A 6P2	LSD:		Report Number:	1820587
Attn:	John Gibson	P.O.:			
Sampled By:	J.Gibson	Acct code:			
Company:					

Please direct any inquiries regarding this report to our Client Services group.
Results relate only to samples as submitted.
The test report shall not be reproduced except in full, without the written approval of the laboratory.

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LOT: 931784 COC

Control Number A246275

Environmental Sample Information Sheet

Note: Proper completion of this form is required in order to proceed with analysis

See reverse for your nearest Exova location and proper sampling protocol

Billing Address:

Company:
Address: J. Gibson & Associates
Box 20111
Whitehorse, YT Y1A 7A2

QA/QC Report ☐

Attention: John Gibson
Phone: (867)633-4522
Fax:
Cell: (867)668-6895
e-mail:

Report Result:
e-mail ☐
Results Online ☐
Fax ☐
Mail ☐

Copy of Report To:

Copy of invoice: ☐

Company:
Address:

Send invoice to this address for approval ☐

04-23-13P03:05 RCVD

Attention:
Phone:
Fax:
Cell:
e-mail:

Report Result:
e-mail ☐
Results Online ☐
Fax ☐
Mail ☐

Information to be included on Report and Invoice

Project ID: SILVER RANGE RESOURCES (SRR)
Project Name: KEG
Project Location:
Legal Location:
PO#:
Proj. Acct. Code: 6646
Agreement ID:

PRIORITY

Please contact laboratory prior to submitting any RUSH samples.

Upon filling out this section, client accepts that surcharges will be applied to this analysis.

If not all samples require RUSH, please indicate in special instructions.

Date Required: _____
Signature: _____

Sample Custody (Please Print)
Sampled by: J GIBSON
Company Signature [signature]

I authorize Exova to proceed with the work indicated on this form:
Date: Apr 22/13 Initial: JG

Received by: Sample Temp. 6.4
Waybill #: Date
Company Time

Special Instructions / Comments

RCHEM = pH, EC, TP, N_2, N_3, TALK, HARDT, SO4, CL, TSS, TDS.

TW23 Field filtered
METALS + NITRIC
TCN + NaOH, NH4 + SULPHURIC, TOC + HCL

OK

Please indicate which regulations you are required to meet:
☐ Health Canada Drinking Water Quality
☐ Alberta Tier 1
☐ Other: _____

Sample Identification	Location	Depth IN CM M	Date/Time Sampled	Matrix	Sampling Method	Number of Containers	R.CHEM	TOC	NH4	TCN	TW23 EW	TW24 EW + THg
KEG #1	SURF.	/	Apr 21	H_2O	GRAB	6	✓	✓	✓	✓	✓	✓
KEG #3						6	✓	✓	✓	✓	✓	✓
KEG #4						6	✓	✓	✓	✓	✓	✓
KEG #6						6	✓	✓	✓	✓	✓	✓
KEG #9						6	✓	✓	✓	✓	✓	✓
KEG #9 DUPLICATE						1						✓

Enter tests above (✓ relevant samples below)

NOTE: All hazardous samples must be labeled according to WHMIS guidelines.

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Report Transmission Cover Page

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**937436**
Report To:	J. Gibson & Associates	ID:	Keg Project	Control Number:	A246292
	Box 20913	Name:	Silver Range Resources (SRR)	Date Received:	May 27, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	May 31, 2013
	Y1A 6P2	LSD:		Report Number:	1829457
Attn:	John Gibson	P.O.:			
Sampled By:	J Gibson	Acct code:			
Company:					

Contact & Affiliation	Address	Delivery Commitments
John Gibson J. Gibson & Associates	, Box 20913 Whitehorse, Yukon Territory Y1A 6P2 Phone: (867) 633-4522 Fax: (867) 668-6895 Email: ludditegibson@gmail.com	On [Lot Verification] send (COA) by Email - Single Report On [Report Approval] send (COC, Test Report) by Email - Merge Reports On [Report Approval] send (Test Report) by Email - Single Report On [Lot Approval and Final Test Report Approval] send (Invoice) by Email - Single Report On [Lot Creation] send (COR) by Email - Single Report

Notes To Clients:

- pH analysis was performed past the recommended holding time of 15 minutes from sample collection.

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J Gibson
Company:

Project:
ID: Keg Project
Name: Silver Range Resources (SRR)
Location:
LSD:
P.O.:
Acct code:

Lot ID: **937436**
Control Number: A246292
Date Received: May 27, 2013
Date Reported: May 31, 2013
Report Number: 1829457

	Reference Number	937436-1	937436-2	937436-3	
	Sample Date	May 26, 2013	May 26, 2013	May 26, 2013	
	Sample Time	NA	NA	NA	
	Sample Location	Surface	Surface	Surface	
	Sample Description	Keg #1	Keg #2	Keg #3	
	Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Inorganic Nonmetallic Parameters						
Organic Carbon	Total Nonpurgeable	mg/L	20.8	41.9	23.7	0.5
Cyanide	Total	mg/L	<0.002	<0.002	<0.002	0.002
Phosphorus	Total	mg/L	0.071	0.020	0.045	0.003
Ammonia - N		mg/L	<0.01	0.02	0.02	.01
Metals Dissolved						
Sulfur	Dissolved	mg/L	4.5	2.4	0.6	0.2
Aluminum	Dissolved	mg/L	0.046	0.165	0.068	0.005
Antimony	Dissolved	mg/L	<0.0002	0.0002	<0.0002	0.0002
Arsenic	Dissolved	mg/L	0.0013	0.0018	0.0006	0.0002
Barium	Dissolved	mg/L	0.030	0.017	0.021	0.001
Beryllium	Dissolved	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Boron	Dissolved	mg/L	<0.004	<0.004	<0.004	0.004
Cadmium	Dissolved	mg/L	0.00010	0.00011	0.00003	0.00001
Chromium	Dissolved	mg/L	<0.0004	0.0006	<0.0004	0.0004
Cobalt	Dissolved	mg/L	0.00011	0.00008	0.00008	0.00002
Copper	Dissolved	mg/L	0.003	0.006	0.001	0.001
Lead	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Lithium	Dissolved	mg/L	0.002	<0.001	0.003	0.001
Molybdenum	Dissolved	mg/L	0.00076	0.00032	0.00039	0.0001
Nickel	Dissolved	mg/L	0.003	0.002	<0.001	0.001
Selenium	Dissolved	mg/L	<0.0006	<0.0006	<0.0006	0.0006
Silver	Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Titanium	Dissolved	mg/L	<0.010	<0.010	<0.010	0.01
Strontium	Dissolved	mg/L	0.049	0.022	0.029	0.001
Tellurium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium	Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Thorium	Dissolved	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Uranium	Dissolved	mg/L	0.0006	<0.0004	0.0009	0.0004
Vanadium	Dissolved	mg/L	0.00038	0.00055	0.00029	0.0001
Zinc	Dissolved	mg/L	0.007	0.011	0.005	0.001
Zirconium	Dissolved	mg/L	0.00050	0.00064	0.00033	0.0001
Metals Total						
Mercury	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Aluminum	Total	mg/L	0.862	0.210	0.427	0.005

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J Gibson
Company:

Project:
ID: Keg Project
Name: Silver Range Resources (SRR)
Location:
LSD:
P.O.:
Acct code:

Lot ID: **937436**
Control Number: A246292
Date Received: May 27, 2013
Date Reported: May 31, 2013
Report Number: 1829457

	Reference Number	937436-1	937436-2	937436-3	
	Sample Date	May 26, 2013	May 26, 2013	May 26, 2013	
	Sample Time	NA	NA	NA	
	Sample Location	Surface	Surface	Surface	
	Sample Description	Keg #1	Keg #2	Keg #3	
	Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Total - Continued						
Antimony	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0001
Arsenic	Total	mg/L	0.00300	0.00211	0.00146	0.00005
Barium	Total	mg/L	0.0590	0.0203	0.0354	0.00005
Beryllium	Total	mg/L	<0.00010	0.00018	<0.0001	0.00005
Bismuth	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0001
Boron	Total	mg/L	0.007	0.005	0.004	.002
Cadmium	Total	mg/L	0.00025	0.00015	0.00011	0.00001
Calcium	Total	mg/L	23.4	13.6	10.4	0.05
Chromium	Total	mg/L	0.0029	0.0018	<0.0010	0.0005
Cobalt	Total	mg/L	0.0010	<0.0002	0.0003	0.0001
Copper	Total	mg/L	0.0068	0.0119	0.0028	0.0001
Iron	Total	mg/L	1.90	0.276	0.756	0.002
Lead	Total	mg/L	0.0011	0.0003	0.0005	0.0001
Lithium	Total	mg/L	0.0033	<0.0010	0.0030	0.0005
Magnesium	Total	mg/L	3.10	1.01	1.54	0.04
Manganese	Total	mg/L	0.0833	0.0270	0.0568	0.001
Molybdenum	Total	mg/L	0.00092	0.00075	0.00048	0.00005
Nickel	Total	mg/L	0.0059	0.0026	0.0019	0.0002
Potassium	Total	mg/L	2.5	1.0	1.8	0.1
Selenium	Total	mg/L	0.0006	0.0004	0.0003	0.0001
Silicon	Total	mg/L	4.29	3.53	2.91	0.02
Silver	Total	mg/L	<0.00010	<0.00010	<0.0001	0.00005
Sodium	Total	mg/L	1.2	0.6	0.7	0.1
Strontium	Total	mg/L	0.0547	0.0237	0.0305	0.0001
Thallium	Total	mg/L	0.00006	0.00003	0.00003	0.00001
Thorium	Total	mg/L	0.00018	0.00008	0.00018	0.00001
Tin	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0001
Titanium	Total	mg/L	0.0398	0.0021	0.0157	0.0005
Uranium	Total	mg/L	0.00075	0.00005	0.00136	0.00001
Vanadium	Total	mg/L	0.0036	0.0010	0.0016	0.0001
Zinc	Total	mg/L	0.0174	0.0121	0.0088	0.0005
Zirconium	Total	mg/L	<0.0010	<0.0010	<0.0010	0.0005
Hardness	as CaCO3	mg/L	71	38	32	1
Physical and Aggregate Properties						
Solids	Total Suspended	mg/L	39	<2	24	1
Solids	Total Dissolved	mg/L	102	98	60	5

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**937436**
Report To:	J. Gibson & Associates	ID:	Keg Project	Control Number:	A246292
	Box 20913	Name:	Silver Range Resources (SRR)	Date Received:	May 27, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	May 31, 2013
	Y1A 6P2	LSD:		Report Number:	1829457
Attn:	John Gibson	P.O.:			
Sampled By:	J Gibson	Acct code:			
Company:					

			Reference Number	937436-1	937436-2	937436-3	
			Sample Date	May 26, 2013	May 26, 2013	May 26, 2013	
			Sample Time	NA	NA	NA	
			Sample Location	Surface	Surface	Surface	
			Sample Description	Keg #1	Keg #2	Keg #3	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Routine Water							
pH	at 25 °C			7.81	6.99	7.39	
Electrical Conductivity		µS/cm at 25 C		129	57	55	1
Calcium	Dissolved	mg/L		22.0	13.3	9.96	0.1
Iron	Dissolved	mg/L		0.271	0.225	0.153	0.005
Magnesium	Dissolved	mg/L		2.68	1.03	1.48	0.1
Manganese	Dissolved	mg/L		0.013	0.019	0.004	0.001
Potassium	Dissolved	mg/L		2.2	1.0	1.7	0.1
Silicon	Dissolved	mg/L		2.48	2.99	1.77	0.05
Sodium	Dissolved	mg/L		1.0	0.5	0.6	0.1
Bicarbonate		mg/L		59	16	29	5
Carbonate		mg/L		<6	<6	<6	6
Hydroxide		mg/L		<5	<5	<5	5
P-Alkalinity	as CaCO3	mg/L		<5	<5	<5	5
T-Alkalinity	as CaCO3	mg/L		48	14	24	5
Chloride	Dissolved	mg/L		0.41	0.67	0.21	0.05
Nitrate - N	Dissolved	mg/L		0.02	0.02	<0.01	0.01
Nitrite - N	Dissolved	mg/L		<0.01	<0.01	<0.01	0.01
Sulfate (SO4)	Dissolved	mg/L		11.5	5.7	1.3	0.5
Hardness	as CaCO3	mg/L		66	37	31	5

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J Gibson
Company:

Project:
ID: Keg Project
Name: Silver Range Resources (SRR)
Location:
LSD:
P.O.:
Acct code:

Lot ID: **937436**
Control Number: A246292
Date Received: May 27, 2013
Date Reported: May 31, 2013
Report Number: 1829457

	Reference Number	937436-4	937436-5	937436-6	
	Sample Date	May 26, 2013	May 26, 2013	May 26, 2013	
	Sample Time	NA	NA	NA	
	Sample Location	Surface	Surface	Surface	
	Sample Description	Keg #4	Keg #5	Keg #6	
	Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Inorganic Nonmetallic Parameters						
Organic Carbon	Total Nonpurgeable	mg/L	21.7	42.5	21.3	0.5
Cyanide	Total	mg/L	<0.002	<0.002	<0.002	0.002
Phosphorus	Total	mg/L	0.126	0.036	0.029	0.003
Ammonia - N		mg/L	0.02	0.03	0.03	.01
Metals Dissolved						
Sulfur	Dissolved	mg/L	3.0	0.2	17.5	0.2
Aluminum	Dissolved	mg/L	0.047	0.299	0.141	0.005
Antimony	Dissolved	mg/L	<0.0002	<0.0002	0.0002	0.0002
Arsenic	Dissolved	mg/L	0.0011	0.0015	0.0006	0.0002
Barium	Dissolved	mg/L	0.029	0.015	0.031	0.001
Beryllium	Dissolved	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Boron	Dissolved	mg/L	<0.004	<0.004	<0.004	0.004
Cadmium	Dissolved	mg/L	0.00010	0.00013	0.00006	0.00001
Chromium	Dissolved	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Cobalt	Dissolved	mg/L	0.00005	0.00047	0.00164	0.00002
Copper	Dissolved	mg/L	0.002	0.004	0.004	0.001
Lead	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Lithium	Dissolved	mg/L	0.002	<0.001	0.004	0.001
Molybdenum	Dissolved	mg/L	0.00070	0.00017	0.00012	0.0001
Nickel	Dissolved	mg/L	0.002	0.001	0.015	0.001
Selenium	Dissolved	mg/L	<0.0006	<0.0006	<0.0006	0.0006
Silver	Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Titanium	Dissolved	mg/L	<0.010	<0.010	<0.010	0.01
Strontium	Dissolved	mg/L	0.041	0.013	0.046	0.001
Tellurium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium	Dissolved	mg/L	<0.00001	<0.00001	0.00002	0.00001
Thorium	Dissolved	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Uranium	Dissolved	mg/L	0.0004	<0.0004	<0.0004	0.0004
Vanadium	Dissolved	mg/L	0.00037	0.00138	0.00012	0.0001
Zinc	Dissolved	mg/L	0.004	0.010	0.037	0.001
Zirconium	Dissolved	mg/L	0.00032	0.00040	0.00037	0.0001
Metals Total						
Mercury	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Aluminum	Total	mg/L	1.35	0.378	0.621	0.005

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**937436**
Report To:	J. Gibson & Associates	ID:	Keg Project	Control Number:	A246292
	Box 20913	Name:	Silver Range Resources (SRR)	Date Received:	May 27, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	May 31, 2013
	Y1A 6P2	LSD:		Report Number:	1829457
Attn:	John Gibson	P.O.:			
Sampled By:	J Gibson	Acct code:			
Company:					

			Reference Number	937436-4	937436-5	937436-6	
			Sample Date	May 26, 2013	May 26, 2013	May 26, 2013	
			Sample Time	NA	NA	NA	
			Sample Location	Surface	Surface	Surface	
			Sample Description	Keg #4	Keg #5	Keg #6	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Total - Continued							
Antimony	Total	mg/L		<0.0002	<0.0002	0.0003	0.0001
Arsenic	Total	mg/L		0.00363	0.00162	0.00279	0.00005
Barium	Total	mg/L		0.0738	0.0680	0.0463	0.00005
Beryllium	Total	mg/L		<0.00010	<0.00010	0.00022	0.00005
Bismuth	Total	mg/L		<0.0002	<0.0002	<0.0002	0.0001
Boron	Total	mg/L		0.006	0.004	<0.004	.002
Cadmium	Total	mg/L		0.00047	0.00017	0.00012	0.00001
Calcium	Total	mg/L		19.9	10.8	30.6	0.05
Chromium	Total	mg/L		0.0047	<0.0010	0.0016	0.0005
Cobalt	Total	mg/L		0.0014	0.0006	0.0020	0.0001
Copper	Total	mg/L		0.0082	0.0049	0.0132	0.0001
Iron	Total	mg/L		2.76	0.382	5.78	0.002
Lead	Total	mg/L		0.0012	0.0002	0.0004	0.0001
Lithium	Total	mg/L		0.0031	<0.0010	0.0041	0.0005
Magnesium	Total	mg/L		3.02	0.82	2.73	0.04
Manganese	Total	mg/L		0.154	0.0858	0.0800	0.001
Molybdenum	Total	mg/L		0.00094	0.00019	0.00058	0.00005
Nickel	Total	mg/L		0.0067	0.0017	0.0201	0.0002
Potassium	Total	mg/L		2.7	0.6	1.2	0.1
Selenium	Total	mg/L		0.0004	<0.0002	0.0006	0.0001
Silicon	Total	mg/L		5.06	1.39	3.89	0.02
Silver	Total	mg/L		<0.00010	<0.0001	<0.00010	0.00005
Sodium	Total	mg/L		1.0	0.4	0.9	0.1
Strontium	Total	mg/L		0.0482	0.0219	0.0512	0.0001
Thallium	Total	mg/L		0.00004	<0.00002	0.00004	0.00001
Thorium	Total	mg/L		0.00023	0.00010	0.00009	0.00001
Tin	Total	mg/L		<0.0002	<0.0002	<0.0002	0.0001
Titanium	Total	mg/L		0.0626	0.0031	0.0045	0.0005
Uranium	Total	mg/L		0.00067	0.00008	0.00011	0.00001
Vanadium	Total	mg/L		0.0056	0.0017	0.0014	0.0001
Zinc	Total	mg/L		0.0200	0.0275	0.0479	0.0005
Zirconium	Total	mg/L		<0.0010	<0.0010	<0.0010	0.0005
Hardness	as CaCO3	mg/L		62	30	88	1
Physical and Aggregate Properties							
Solids	Total Suspended	mg/L		68	<2	21	1
Solids	Total Dissolved	mg/L		92	78	146	5

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**937436**
Report To:	J. Gibson & Associates	ID:	Keg Project	Control Number:	A246292
	Box 20913	Name:	Silver Range Resources (SRR)	Date Received:	May 27, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	May 31, 2013
	Y1A 6P2	LSD:		Report Number:	1829457
Attn:	John Gibson	P.O.:			
Sampled By:	J Gibson	Acct code:			
Company:					

		Reference Number	937436-4	937436-5	937436-6	
		Sample Date	May 26, 2013	May 26, 2013	May 26, 2013	
		Sample Time	NA	NA	NA	
		Sample Location	Surface	Surface	Surface	
		Sample Description	Keg #4	Keg #5	Keg #6	
		Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Routine Water						
pH	at 25 °C		7.67	5.57	7.00	
Electrical Conductivity		µS/cm at 25 C	111	26	177	1
Calcium	Dissolved	mg/L	18.7	5.16	30.0	0.1
Iron	Dissolved	mg/L	0.257	0.331	1.68	0.005
Magnesium	Dissolved	mg/L	2.36	0.60	2.70	0.1
Manganese	Dissolved	mg/L	0.025	0.079	0.062	0.001
Potassium	Dissolved	mg/L	2.4	0.4	1.2	0.1
Silicon	Dissolved	mg/L	2.22	1.20	3.01	0.05
Sodium	Dissolved	mg/L	0.9	0.4	0.7	0.1
Bicarbonate		mg/L	53	<5	25	5
Carbonate		mg/L	<6	<6	<6	6
Hydroxide		mg/L	<5	<5	<5	5
P-Alkalinity	as CaCO3	mg/L	<5	<5	<5	5
T-Alkalinity	as CaCO3	mg/L	44	<5	20	5
Chloride	Dissolved	mg/L	0.14	0.08	0.81	0.05
Nitrate - N	Dissolved	mg/L	0.02	<0.01	0.05	0.01
Nitrite - N	Dissolved	mg/L	<0.01	<0.01	<0.01	0.01
Sulfate (SO4)	Dissolved	mg/L	7.2	<0.5	46.0	0.5
Hardness	as CaCO3	mg/L	56	15	86	5

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**937436**
Report To:	J. Gibson & Associates	ID:	Keg Project	Control Number:	A246292
	Box 20913	Name:	Silver Range Resources (SRR)	Date Received:	May 27, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	May 31, 2013
	Y1A 6P2	LSD:		Report Number:	1829457
Attn:	John Gibson	P.O.:			
Sampled By:	J Gibson	Acct code:			
Company:					

Reference Number	937436-7
Sample Date	May 26, 2013
Sample Time	NA
Sample Location	Surface
Sample Description	Keg #9
Matrix	Water

Analyte		Units	Results	Results	Results	Nominal Detection Limit
Inorganic Nonmetallic Parameters						
Organic Carbon	Total Nonpurgeable	mg/L	22.0			0.5
Cyanide	Total	mg/L	<0.002			0.002
Phosphorus	Total	mg/L	0.134			0.003
Ammonia - N		mg/L	0.02			.01
Physical and Aggregate Properties						
Solids	Total Suspended	mg/L	92			1
Solids	Total Dissolved	mg/L	108			5

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J Gibson
Company:

Project:
ID: Keg Project
Name: Silver Range Resources (SRR)
Location:
LSD:
P.O.:
Acct code:

Lot ID: **937436**
Control Number: A246292
Date Received: May 27, 2013
Date Reported: May 31, 2013
Report Number: 1829457

		Reference Number	937436-7	937436-8		
		Sample Date	May 26, 2013	May 26, 2013		
		Sample Time	NA	NA		
		Sample Location	Surface	Surface		
		Sample Description	Keg #9	Keg #4 Duplicate		
		Matrix	Water	Water		
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Dissolved						
Sulfur	Dissolved	mg/L	5.5	2.8		0.2
Aluminum	Dissolved	mg/L	0.070	0.050		0.005
Antimony	Dissolved	mg/L	<0.0002	<0.0002		0.0002
Arsenic	Dissolved	mg/L	0.0013	0.0010		0.0002
Barium	Dissolved	mg/L	0.040	0.029		0.001
Beryllium	Dissolved	mg/L	<0.00004	<0.00004		0.00004
Bismuth	Dissolved	mg/L	<0.001	<0.001		0.001
Boron	Dissolved	mg/L	<0.004	<0.004		0.004
Cadmium	Dissolved	mg/L	0.00006	0.00016		0.00001
Chromium	Dissolved	mg/L	<0.0004	<0.0004		0.0004
Cobalt	Dissolved	mg/L	0.00018	0.00057		0.00002
Copper	Dissolved	mg/L	0.003	0.003		0.001
Lead	Dissolved	mg/L	<0.0001	<0.0001		0.0001
Lithium	Dissolved	mg/L	0.002	0.002		0.001
Molybdenum	Dissolved	mg/L	0.00073	0.00068		0.0001
Nickel	Dissolved	mg/L	0.002	0.002		0.001
Selenium	Dissolved	mg/L	<0.0006	<0.0006		0.0006
Silver	Dissolved	mg/L	<0.00001	<0.00001		0.00001
Titanium	Dissolved	mg/L	<0.010	<0.010		0.01
Strontium	Dissolved	mg/L	0.062	0.042		0.001
Tellurium	Dissolved	mg/L	<0.0001	<0.0001		0.0001
Thallium	Dissolved	mg/L	<0.00001	<0.00001		0.00001
Thorium	Dissolved	mg/L	<0.0004	<0.0004		0.0004
Tin	Dissolved	mg/L	<0.0001	<0.0001		0.0001
Uranium	Dissolved	mg/L	0.0007	0.0005		0.0004
Vanadium	Dissolved	mg/L	0.00047	0.00037		0.0001
Zinc	Dissolved	mg/L	0.005	0.006		0.001
Zirconium	Dissolved	mg/L	0.00040	0.00027		0.0001
Metals Total						
Mercury	Total	mg/L	<0.0001	<0.0001		0.0001
Aluminum	Total	mg/L	0.822	0.970		0.005
Antimony	Total	mg/L	0.0003	<0.0002		0.0001
Arsenic	Total	mg/L	0.00361	0.00333		0.00005
Barium	Total	mg/L	0.0949	0.0660		0.00005
Beryllium	Total	mg/L	0.00010	<0.00010		0.00005
Bismuth	Total	mg/L	<0.0002	<0.0002		0.0001

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**937436**
Report To:	J. Gibson & Associates	ID:	Keg Project	Control Number:	A246292
	Box 20913	Name:	Silver Range Resources (SRR)	Date Received:	May 27, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	May 31, 2013
	Y1A 6P2	LSD:		Report Number:	1829457
Attn:	John Gibson	P.O.:			
Sampled By:	J Gibson	Acct code:			
Company:					

		Reference Number	937436-7	937436-8		
		Sample Date	May 26, 2013	May 26, 2013		
		Sample Time	NA	NA		
		Sample Location	Surface	Surface		
		Sample Description	Keg #9	Keg #4 Duplicate		
		Matrix	Water	Water		
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Total - Continued						
Boron	Total	mg/L	0.006	0.005		.002
Cadmium	Total	mg/L	0.00031	0.00052		0.00001
Calcium	Total	mg/L	24.5	19.6		0.05
Chromium	Total	mg/L	0.0014	0.0040		0.0005
Cobalt	Total	mg/L	0.0008	0.0011		0.0001
Copper	Total	mg/L	0.0100	0.0090		0.0001
Iron	Total	mg/L	2.00	2.21		0.002
Lead	Total	mg/L	0.0016	0.0010		0.0001
Lithium	Total	mg/L	0.0029	0.0028		0.0005
Magnesium	Total	mg/L	3.42	2.77		0.04
Manganese	Total	mg/L	0.0984	0.145		0.001
Molybdenum	Total	mg/L	0.00093	0.00091		0.00005
Nickel	Total	mg/L	0.0048	0.0062		0.0002
Potassium	Total	mg/L	2.0	2.7		0.1
Selenium	Total	mg/L	0.0007	0.0005		0.0001
Silicon	Total	mg/L	4.65	3.92		0.02
Silver	Total	mg/L	<0.00010	<0.0001		0.00005
Sodium	Total	mg/L	1.2	1.0		0.1
Strontium	Total	mg/L	0.0686	0.0480		0.0001
Thallium	Total	mg/L	0.00004	0.00002		0.00001
Thorium	Total	mg/L	0.00021	0.00013		0.00001
Tin	Total	mg/L	<0.0002	<0.0002		0.0001
Titanium	Total	mg/L	0.0231	0.0380		0.0005
Uranium	Total	mg/L	0.00088	0.00063		0.00001
Vanadium	Total	mg/L	0.0041	0.0046		0.0001
Zinc	Total	mg/L	0.0205	0.0172		0.0005
Zirconium	Total	mg/L	<0.0010	<0.0010		0.0005
Hardness	as CaCO3	mg/L	75			1
Routine Water						
pH	at 25 °C		7.59			
Electrical Conductivity		µS/cm at 25 C	137			1
Calcium	Dissolved	mg/L	23.9	18.4		0.1
Iron	Dissolved	mg/L	0.402	0.277		0.005
Magnesium	Dissolved	mg/L	3.07	2.36		0.1
Manganese	Dissolved	mg/L	0.026	0.024		0.001
Potassium	Dissolved	mg/L	1.7	2.4		0.1

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**937436**
Report To:	J. Gibson & Associates	ID:	Keg Project	Control Number:	A246292
	Box 20913	Name:	Silver Range Resources (SRR)	Date Received:	May 27, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	May 31, 2013
	Y1A 6P2	LSD:		Report Number:	1829457
Attn:	John Gibson	P.O.:			
Sampled By:	J Gibson	Acct code:			
Company:					

		Reference Number	937436-7	937436-8		
		Sample Date	May 26, 2013	May 26, 2013		
		Sample Time	NA	NA		
		Sample Location	Surface	Surface		
		Sample Description	Keg #9	Keg #4 Duplicate		
		Matrix	Water	Water		
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Routine Water - Continued						
Silicon	Dissolved	mg/L	2.57	2.15		0.05
Sodium	Dissolved	mg/L	1.1	0.8		0.1
Bicarbonate		mg/L	58			5
Carbonate		mg/L	<6			6
Hydroxide		mg/L	<5			5
P-Alkalinity	as CaCO3	mg/L	<5			5
T-Alkalinity	as CaCO3	mg/L	48			5
Chloride	Dissolved	mg/L	0.38			0.05
Nitrate - N	Dissolved	mg/L	<0.01			0.01
Nitrite - N	Dissolved	mg/L	<0.01			0.01
Sulfate (SO4)	Dissolved	mg/L	14.0			0.5
Hardness	as CaCO3	mg/L	72	56		5

Approved by:

Randy Neumann, BSc
General Manager

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Methodology and Notes

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**937436**
Report To:	J. Gibson & Associates	ID:	Keg Project	Control Number:	A246292
	Box 20913	Name:	Silver Range Resources (SRR)	Date Received:	May 27, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	May 31, 2013
	Y1A 6P2	LSD:		Report Number:	1829457
Attn:	John Gibson	P.O.:			
Sampled By:	J Gibson	Acct code:			
Company:					

Method of Analysis

Method Name	Reference		Method	Date Analysis Started	Location
Alk, pH, EC, Turb in water (Surrey)	APHA	*	Alkalinity - Titration Method, 2320 B	27-May-13	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	*	Conductivity, 2510 B	27-May-13	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	*	pH - Electrometric Method, 4500-H+ B	27-May-13	Exova Surrey
Ammonia-N in Water (Surrey)	APHA	*	Flow Injection Analysis, 4500-NH3 H	29-May-13	Exova Surrey
Anions by IEC in water (Surrey)	APHA	*	Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	28-May-13	Exova Surrey
BC ICP-MS Total Metals in Water	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	29-May-13	Exova Edmonton
BC Trace Total Metals in Water	APHA	*	Inductively Coupled Plasma (ICP) Method, 3120 B	29-May-13	Exova Edmonton
Carbon Organic (Total) in water (TOC)	APHA		High-Temperature Combustion Method, 5310 B	29-May-13	Exova Edmonton
Cyanide (Total) in water	US EPA	*	US EPA method, 335.3	28-May-13	Exova Edmonton
Mercury (Total) in water	US EPA	*	Determination of Hg in Sediment by Cold Vapor Atomic Absorption Spec, 245.5	29-May-13	Exova Edmonton
Metals SemiTrace (Dissolved) in water (Surrey)	US EPA	*	Metals & Trace Elements by ICP-AES, 6010C	27-May-13	Exova Surrey
Phosphorus - total (low level) - Surrey	APHA	*	Preliminary Acid Hydrolysis, Ascorbic Acid Reduction Method, 4500-P B,E	28-May-13	Exova Surrey
Solids Dissolved (Total, Fixed and Volatile) - Surrey	APHA	*	Total Dissolved Solids Dried at 180 C, 2540 C	29-May-13	Exova Surrey
Solids Suspended (Total, Fixed and Volatile)	APHA	*	Total Suspended Solids Dried at 103-105'C, 2540 D	28-May-13	Exova Surrey
Trace Metals (dissolved) in Water (Surrey)	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	28-May-13	Exova Surrey
Trace Metals (dissolved) in Water (Surrey)	US EPA	*	Metals & Trace Elements by ICP-AES, 6010C	28-May-13	Exova Surrey

** Reference Method Modified*

References

APHA	Standard Methods for the Examination of Water and Wastewater
US EPA	US Environmental Protection Agency Test Methods

Comments:

- pH analysis was performed past the recommended holding time of 15 minutes from sample collection.

Exova
#104, 19575-55 A Ave.
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V3S 8P8, Canada

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F: +1 (604) 514-3323
E: Surrey@exova.com
W: www.exova.com

Methodology and Notes

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**937436**
Report To:	J. Gibson & Associates	ID:	Keg Project	Control Number:	A246292
	Box 20913	Name:	Silver Range Resources (SRR)	Date Received:	May 27, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	May 31, 2013
	Y1A 6P2	LSD:		Report Number:	1829457
Attn:	John Gibson	P.O.:			
Sampled By:	J Gibson	Acct code:			
Company:					

Please direct any inquiries regarding this report to our Client Services group.
Results relate only to samples as submitted.
The test report shall not be reproduced except in full, without the written approval of the laboratory.

Exova

LOT: 937436 COC

Control Number A246292

ronmental Sample Information Sheet

Proper completion of this form is required in order to proceed with analysis
See reverse for your nearest Exova location and proper sampling protocol

www.exova.com

Billing Address: Copy of Report: ☐

Company:
Address: J. Gibson & Associates
Box 20111
Whitehorse, YT Y1A 7A2

QA/QC Report ☐

Attention: John Gibson
Phone: (867)633-4522
Fax:
Cell: (867)668-6895
e-mail:

Report Result:
e-mail ☐
Results Online ☐
Fax ☐
Mail ☐

Copy of Report To: Copy of invoice: ☐

Company:
Address:

Send invoice to this address for approval ☐

Attention:
Phone:
Fax:
Cell:
e-mail:

Report Result:
e-mail ☐
Results Online ☐
Fax ☐
Mail ☐

Information to be included on Report and Invoice

Project ID: KEG PROJECT
Project Name: SILVER RANGE RESOURCES (SRR).
Project Location:
Legal Location:
PO#:
Proj. Acct. Code: 6646
Agreement ID:

PRIORITY

Please contact laboratory prior to submitting any RUSH samples.

Upon filling out this section, client accepts that surcharges will be applied to this analysis.
If not all samples require RUSH, please indicate in special instructions.

Date Required: _____
Signature: _____

Sample Custody (Please Print)
Sampled by: J GIBSON
Company Signature [signature]

I authorize Exova to proceed with the work indicated on this form:
Date: May 26/13 Initial: JG.

Received by: 05-27-13P02:00 Sample Temp. RCVD 10.5°C
Waybill #: Date
Company Time

Special Instructions / Comments

RCHEM = pH, EC, TP, N_2, N3, TALK, CL, SO4, HARDT, TSS, TDS,

TW23 Field filtered, METALS + NITRIC, TCN + NaOH, TOC + HCL NH4 + SULFURIC

Please indicate which regulations you are required to meet:
☐ Health Canada Drinking Water Quality
☐ Alberta Tier 1
☐ Other: _____

Sample Identification	Location	Depth IN CM M	Date/Time Sampled	Matrix	Sampling Method	Number of Containers	RCHEM	NH4	TOC	TCN	TW23ew-F	TW24ew+THg
KEG #1	SURF		May 25	H2O	Grab	6	✓	✓	✓	✓	✓	✓
KEG #2	↓		↓	↓	↓	6	✓	✓	✓	✓	✓	✓
KEG #3						6	✓	✓	✓	✓	✓	✓
KEG #4						6	✓	✓	✓	✓	✓	✓
KEG #5						6	✓	✓	✓	✓	✓	✓
KEG #6						6	✓	✓	✓	✓	✓	✓
KEG #9						6	✓	✓	✓	✓	✓	✓
KEG #4 DUPLICATE						2	~~✓~~	~~✓~~	~~✓~~		✓	✓

Enter tests above (✓ relevant samples below)

NOTE: All hazardous samples must be labeled according to WHMIS guidelines.

Page 1 of 1

APPENDIX 2

Flow Volume Calculations

Snow Survey Calculations

April and May 2013

Stage Discharge Calculations

Project: **Silver Range - Keg Claims** **Date:** **21-Apr-13**

Site: **Keg #1**

Point (m)	Depth (meters)	Width (meters)	Velocity (m/sec)	Area (m sq)	Volume (cms)
1.94	0	0.08	0	0	0
2.1	0.14	0.13	0.301	0.0182	0.0055
2.2	0.13	0.1	0.442	0.013	0.0057
2.3	0.11	0.1	0.308	0.011	0.0034
2.4	0.13	0.1	0.315	0.013	0.0041
2.5	0.1	0.15	0.415	0.015	0.0062
2.7	0.17	0.2	0.472	0.034	0.0160
2.9	0.16	0.2	0.369	0.032	0.0118
3.1	0.14	0.2	0.406	0.028	0.0114
3.3	0.11	0.2	0.221	0.022	0.0049
3.5	0.07	0.25	0.231	0.0175	0.0040
3.8	0.05	0.285	0.254	0.01425	0.0036
4.07	0	0.135	0	0	0.0000
2.13		**2.13**			**0.077**

All velocity readings at 0.6 depth

Staff Gauge : under ice conditions

Data logger reading:

Channel under ice? complete Ice cover

Method: Price Velocity meter/ TS Wading Rod

Measurement By: R.Gibson

Silver Range Resources - KEG Claims
Snow Survey Results - April 2013

Snow Survey Calculations

Project: Silver Range Resources **Date:** 21-Apr-13 1030 hrs

Course # : Keg Snow #1

Lat: 62 33 46.5
Long: 133 18 39.5

Measured by: J.Gibson

Station #	Snow Depth (cm)	Core Length (cm)	WGT Tube before Sampling	WGT Tube and Core	Snow Water Equiv.	Density %
1	82	44	24	37	13	15.8
2	71	47	24	36	12	16.9
3	69	41	24	35	11	15.9
4	68	31	24	34	10	14.7
5	68	32	24	35	11	16.2
6	60	38	24	34	10	16.7
7	62	38	24	34	10	16.1
8	84	53	24	39	15	17.9
9	83	51	24	38	14	16.9
10	83	52	24	39	15	18.1
Total	730	427	[redacted]		121	165.2
Coverage	73.0	42.7			121	16.5

Core length / Snow Depth = 58%

Density Range 14.7 to 18.1 = 3.4%

Weather - clear and sunny, no wind
Temp -8C
Snow conditions - little consolidation
- crust at 10 and 17 cm depth

Stage Discharge Calculations

Project: **Silver Range - Keg Claims** **Date:** **25-May-13**

Site: **Keg #1**

Point (m)	Depth (meters)	Width (meters)	Velocity (m/sec)	Area (m sq)	Volume (cms)
1.68	0	0.06	0	0	0
1.8	0.36	0.16	0.122	0.0576	0.0070
2	0.43	0.2	0.845	0.086	0.0727
2.2	0.45	0.2	0.151	0.09	0.0136
2.4	0.44	0.2	1.229	0.088	0.1082
2.6	0.49	0.2	1.258	0.098	0.1233
2.8	0.51	0.2	1.229	0.102	0.1254
3	0.53	0.2	1.38	0.106	0.1463
3.2	0.56	0.2	1.536	0.112	0.1720
3.4	0.53	0.2	1.258	0.106	0.1333
3.6	0.52	0.2	1.202	0.104	0.1250
3.8	0.56	0.2	1.536	0.112	0.1720
4	0.54	0.2	1.69	0.108	0.1825
4.2	0.53	0.2	1.649	0.106	0.1748
4.4	0.52	0.2	1.978	0.104	0.2057
4.6	0.41	0.2	1.93	0.082	0.1583
4.8	0.38	0.2	1.104	0.0760	0.0839
5	0.31	0.25	1.38	0.0775	0.1070
5.3	0.11	0.29	0.629	0.0319	0.0201
5.58	0	0.14	0	0	0.0000
3.9		**3.9**			**2.131**

All velocity readings at 0.6 depth

Staff Gauge : 0.363 / 0.364

Data logger reading:inatalled 1030 hrs May 25

Channel under ice? ice free

Method: Price Velocity meter/ TS Wading Rod

Measurement By: J.Gibson

Stage Discharge Calculations

Project: **Silver Range - Keg Claims** **Date:** **25-May-13**

Site: **Keg #3**

Point (m)	Depth (meters)	Width (meters)	Velocity (m/sec)	Area (m sq)	Volume (cms)
1.3	0	0.1	0	0	0
1.5	0.06	0.2	0.132	0.012	0.0016
1.7	0.14	0.2	0.646	0.028	0.0181
1.9	0.16	0.2	1.07	0.032	0.0342
2.1	0.18	0.2	1.04	0.036	0.0374
2.3	0.21	0.2	1.18	0.042	0.0496
2.5	0.15	0.2	1.27	0.03	0.0381
2.7	0.2	0.2	0.907	0.04	0.0363
2.9	0.09	0.2	1.022	0.018	0.0184
3.1	0.14	0.2	1.204	0.028	0.0337
3.3	0.18	0.2	1.116	0.036	0.0402
3.5	0.08	0.2	1.319	0.016	0.0211
3.7	0.2	0.2	0.99	0.04	0.0396
3.9	0.2	0.2	0.812	0.04	0.0325
4.1	0.2	0.2	0.545	0.04	0.0218
4.3	0.16	0.2	0.483	0.032	0.0155
4.5	0.12	0.2	0.323	0.0240	0.0078
4.7	0	0.1	0	0	0.0000
3.4		**3.4**			**0.446**

Flows to deep to wade - estimates done

Estimate 1= Keg#1+10%= 2.34

Estimate 2= 20% TCF= 0.446 X 5 = 2.23

All velocity readings at 0.6 depth

Staff Gauge : No SG

Data logger reading:no logger

Channel under ice? ice free

Method: Price Velocity meter/ TS Wading Rod

Measurement By: J.Gibson

Stage Discharge Calculations

Project: **Silver Range - Keg Claims** **Date:** **25-May-13**

Site: **Keg #6**

Point (m)	Depth (meters)	Width (meters)	Velocity (m/sec)	Area (m sq)	Volume (cms)
0.7	0	0.05	0	0	0
0.8	0.1	0.1	0.331	0.01	0.0033
0.9	0.08	0.1	0.629	0.008	0.0050
1	0.14	0.1	0.845	0.014	0.0118
1.1	0.11	0.1	0.483	0.011	0.0053
1.2	0.15	0.1	0.944	0.015	0.0142
1.3	0.11	0.1	0.99	0.011	0.0109
1.4	0.02	0.1	0.384	0.002	0.0008
1.5	0.02	0.1	0.805	0.002	0.0016
1.6	0.04	0.1	0.66	0.004	0.0026
1.7	0.04	0.1	0.472	0.004	0.0019
1.8	0	0.05	0	0	0.0000
1.1		**1.1**			**0.057**

All velocity readings at 0.6 depth

Staff Gauge : No SG

Data logger reading:no logger

Channel under ice? ice free at cross section

Method: Price Velocity meter/ TS Wading Rod

Measurement By: J.Gibson

Stage Discharge Calculations

Project: **Silver Range - Keg Claims** **Date:** **25-May-13**

Site: **Keg #11**

Point (m)	Depth (meters)	Width (meters)	Velocity (m/sec)	Area (m sq)	Volume (cms)
1.59	0	0.055	0	0	0
1.7	0.32	0.155	0.495	0.0496	0.0246
1.9	0.33	0.25	0.845	0.0825	0.0697
2.2	0.34	0.3	1.082	0.102	0.1104
2.5	0.33	0.3	0.944	0.099	0.0935
2.8	0.31	0.3	0.966	0.093	0.0898
3.1	0.31	0.3	1.104	0.093	0.1027
3.4	0.35	0.3	1.151	0.105	0.1209
3.7	0.38	0.3	1.202	0.114	0.1370
4	0.4	0.3	1.127	0.12	0.1352
4.3	0.41	0.3	1.082	0.123	0.1331
4.6	0.38	0.3	1.151	0.114	0.1312
4.9	0.36	0.3	1.104	0.108	0.1192
5.2	0.37	0.3	1.176	0.111	0.1305
5.5	0.4	0.3	1.258	0.12	0.1510
5.8	0.39	0.3	0.944	0.117	0.1104
6.1	0.33	0.3	0.786	0.0990	0.0778
6.4	0.23	0.275	0	0.06325	0.0000
6.65	0	0.125	0	0	0.0000
5.06		**5.06**			**1.737**

All velocity readings at 0.6 depth

Staff Gauge : 0.344

Data logger reading:inatalled 1200hrs May 25

Channel under ice? ice free

Method: Price Velocity meter/ TS Wading Rod

Measurement By: J.Gibson

Silver Range Resources

KEG PROJECT

Baseline Water Quality / Hydrology Survey

Environmental Data Update

June and July, 2013

J.Gibson Env. Consulting ***Whitehorse, Yukon***

KEG Project June and July 2013

Silver Range Resources baseline water quality / hydrology surveys of the KEG Claims surface waters continued in June at all stations(monthly and quarterly) and July 2013 at stations identified for monthly surveillance.

Monthly stations are KEG #1, #2, #3, #4, #5, #6 and receiving waters station #9.

The sites are located in the Anvil Range approximately 30 kilometers north of Faro, Yukon and 15 kilometers north of the former Faro Mine.

The KEG Claims are located on tributaries to the Tay River.

All surface waters are tributaries to the Pelly River.

The KEG exploration project was open in June and July 2013.

The exploration camp and all survey sites were accessed by helicopter.

The baseline survey consisted of water quality samples for routine chemistry, total metals, dissolved metals, total organic carbon, total cyanide and total mercury with field measurements for pH, water temperature and flow volume measurements.

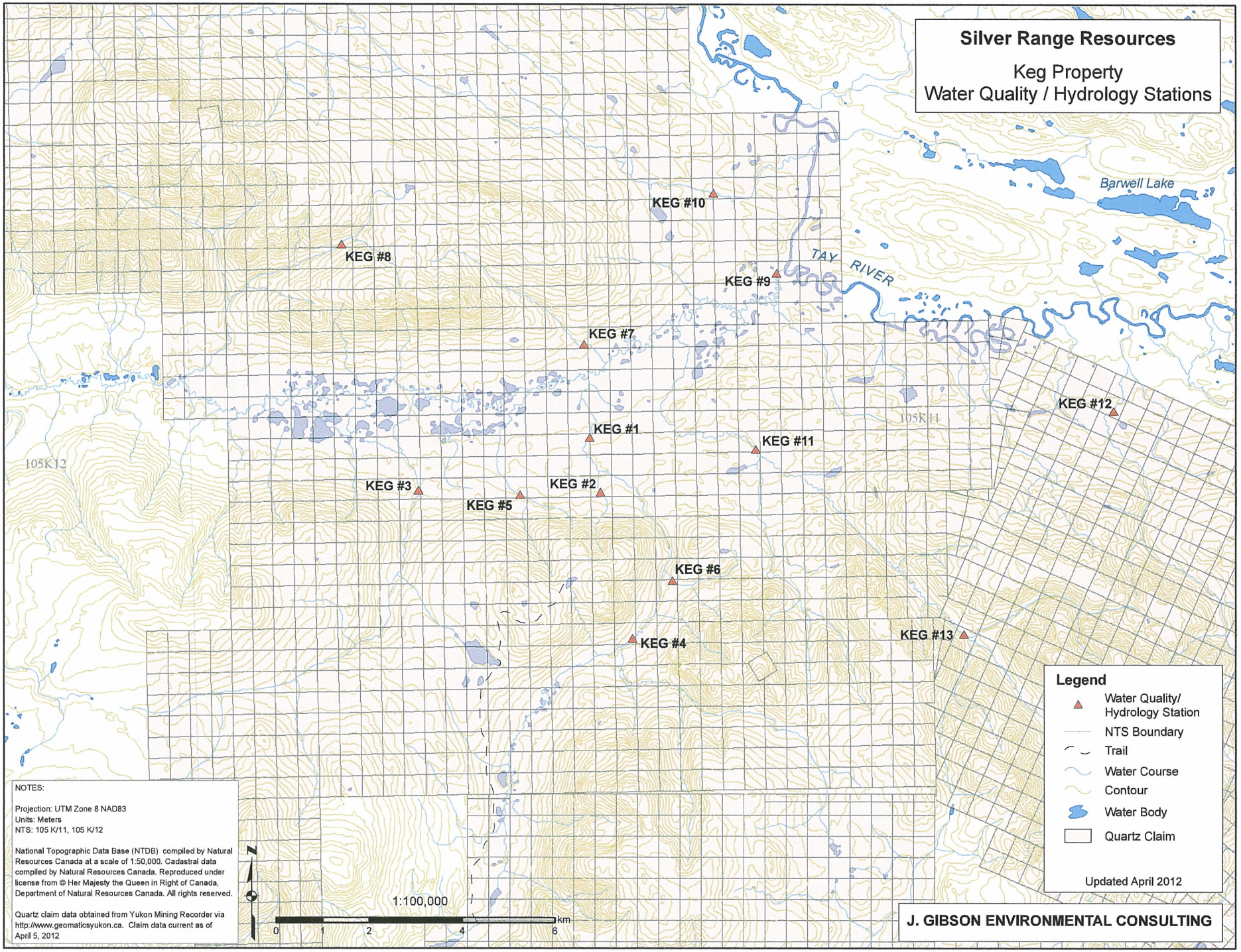
The Onset Weather Station installed in November 2012 was downloaded in June and July 2013.

Sample Locations

Nine water quality sample sites were established on the KEG Claims during the initial survey in August 2010.

Four sites were added in October 2010 on the eastern limits of the expanded claim block.

All sites are on the attached location map.


Silver Range Resources
Keg Property
Water Quality / Hydrology Stations
Barwell Lake
TAY RIVER
KEG #10
KEG #8
KEG #9
KEG #7
KEG #12
KEG #1
KEG #11
105K11
105K12
KEG #3
KEG #2
KEG #5
KEG #6
KEG #13
KEG #4
Legend
Water Quality/ Hydrology Station
NTS Boundary
Trail
Water Course
Contour
Water Body
Quartz Claim
Updated April 2012
NOTES:
Projection: UTM Zone 8 NAD83
Units: Meters
NTS: 105 K/11, 105 K/12
National Topographic Data Base (NTDB) compiled by Natural Resources Canada at a scale of 1:50,000. Cadastral data compiled by Natural Resources Canada. Reproduced under license from © Her Majesty the Queen in Right of Canada, Department of Natural Resources Canada. All rights reserved.
Quartz claim data obtained from Yukon Mining Recorder via http://www.geomaticsyukon.ca. Claim data current as of April 5, 2012
1:100,000
0 1 2 4 6 km
J. GIBSON ENVIRONMENTAL CONSULTING

Sample Frequency

KEG stations #1, #2, #3, #4, #5, #6 and #9 are on a monthly frequency as of November 2012. All other stations remain on a quarterly sampling frequency.

Sample Analysis Parameters

All KEG stations were sampled for total metals, dissolved metals and routine chemistry, total organic carbon, total cyanide and total mercury.

Dissolved metals samples were filtered onsite using disposable 60 ml syringes and 0.45 micron filters. New syringes and filters were used for each station.

Total and dissolved metal samples were preserved with nitric acid, TOC with HCL and TCN with NA0H immediately after sampling.

All samples were stored in coolers, kept at 4 Celsius and shipped by air cargo to the Exova Canada Inc. laboratory in Surrey B.C. for analysis within recommended holding times.

Field measurements for pH and conductivity were taken with an Oakton PCS TestR 35, water temperatures with a digital thermometer.

Flow Volume Measurements

June 2013

Stream flow volumes were measured in June 2013 at monthly and quarterly stations. Volumes were decreasing from freshet peak and were approximately 50% of volumes measured in May 2013.

July 2013

Stream flow volumes in July were measured at monthly stations and KEG #11. Measurements were not possible at KEG #1 and KEG #3 due to high volumes and velocity. Faro airport recorded 16 mm of precipitation on July 21 which extended to the KEG sites.
A summary of KEG stream flow volumes from 2010 to 2013 are in Table 4.

June and July stream flow volumes data / calculations are attached in Appendix 2.

Keg Weather Station
The Keg weather station had operational problems in July with low battery voltage. The battery was changed in mid July and data downloaded. On July 22 diagnostics were run on station sensors and problem is apparently fixed.

Hammer Groundwater Well # Ham-13-023
The groundwater well was visited on July 22 for purging and sampling. The piezometer was blocked at 4.28 meter depth from surface and sampling was not possible.

Analysis Results

Laboratory analysis and field measurement results are listed in the following tables:

Table 1. June 2013 KEG Monthly Stations Routine Chemistry – laboratory analysis and field measurements

Table 2. June 2013 KEG Monthly Stations Total Metals ICP–MS laboratory analysis results

Table 3. June 2013 KEG Monthly Stations Dissolved Metals ICP–MS laboratory analysis results

Table 4. KEG Stations Flow Volume Summary to July 2013.

Table 5. July 2013 KEG Monthly Stations Routine Chemistry – laboratory analysis and field measurements

Table 6. July 2013 KEG Monthly Stations Total Metals ICP–MS laboratory analysis results

Table 7. July 2013 KEG Monthly Stations Dissolved Metals ICP–MS laboratory analysis results

Table 8. June 2013 Quality Control Sample Analysis Results at KEG #9 and KEG#4 in May 2013.

Table 9. Camp Water Supply at KEG#4 for July 2013

Table 10. Stream Sediment Analysis Results – Station KEG#1 and KEG#11 June 2013.

Table 1.Silver Range Resources - KEG Claims June, 2013.
Routine Chemistry and Field Measurement Results

		STATIONS								
Parameter	**Unit**	**KEG #1**	**KEG #2**	**KEG #3**	**KEG #4**	**KEG #5**	**KEG #6**	**KEG #7**	**DWQ* G.lines**	**Aquatic** G.lines**
Monitoring Frequency		***Monthly***	***Monthly***	***Monthly***	***Monthly***	***Monthly***	***Monthly***	***Quarterly***		
pH (field)	ru	7.5	6.46	7.48	7.91	7.6	6.65	7.27		
pH (lab)	ru	7.94	6.96	7.76	7.9	7.85	6.82	7.82	6.5-8.5	6.5-9
Electrical Conductivity (lab)		239	155	96	232	196	270	481		
Water temperature	C	6.8	2.8	7.8	6.7	5.5	7.1	8.8		
Flow Volume(field)	cms	1.181	nr	0.6018	nr	0.0046	0.0688	0.0324		
Organic Carbon Total	mg/L	7.4	19.2	6.6	7.3	16.1	13	10.5		
Cyanide Total	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.2	0.005
Phosphorus Total	mg/L	0.022	0.016	0.005	0.031	0.009	0.012	0.023		
Ammonia - N	mg/L	<0.01	0.02	<0.01	0.02	0.02	0.04	0.03		1.37-2.2
Nitrate - N	mg/L	0.07	<0.01	<0.01	0.06	0.14	0.05	<0.01	10	
Nitrite - N	mg/L	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	1	0.06
T-Alkalinity	mg/L	92	60	46	93	67	23	124		
Chloride	mg/L	0.38	0.07	0.06	0.11	0.08	0.14	0.11	<250	
Sulfate (SO4)	mg/L	34.3	17.8	3.8	27.2	31.2	103	133		
Hardness	mg CaCO3/L	134	92	52.1	127	110	137	269	<500	
Total Suspended Solids	mg/L	13	<2	<2	15	<2	6	5		
Total Dissolved Solids	mg/L	138	102	38	124	142	202	350	<500	

All results and limits in mg/L unless noted otherwis. Nr = no sample/reading

DWQ* Guidelines are Maximum Acceptable Concentrations according to
Canadian Drinking Water Quality

Aquatic** Guidelines are for protection of aquatic life in waters with pH >6.5 and Hardness as CaC03 >180 mg/L
Canadian Water Quality Guidelines

Table 1.Silver Range Resources - KEG Claims June, 2013.
Routine Chemistry and Field Measurement Results

Parameter	Unit	STATIONS KEG#8	KEG#9	KEG#10	KEG#11	KEG#12	KEG#13	DWQ* G.lines	Aquatic** G.lines
Monitoring Frequency		***Quarterly***	***Monthly***	***Quarterly***	***Quarterly***	***Quarterly***	***Quarterly***		
pH (field)	ru	7.5	7.36	7.47	7.58	7.84	7.62		
pH (lab)	ru	7.86	7.94	7.71	8.04	8.13	8.09	6.5-8.5	6.5-9
Electrical Conductivity (lab)	uS/cm	351	264	270	400	441	411		
Water temperature	C	4.6	11.3	8.8	6.4	4.6	7.1		
Flow Volume(field)	cms	nr	nr	0.7732	0.839	0.3087	0.6587		
Organic Carbon Total	mg/L	6.7	6.9	17.9	6.5	4.8	3.9		
Cyanide Total	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.2	0.005
Phosphorus Total	mg/L	<0.003	0.03	0.141	0.006	0.007	0.004		
Ammonia - N	mg/L	0.02	0.02	0.02	<0.01	0.02	0.02		1.37-2.2
Nitrate - N	mg/L	0.02	0.06	0.02	0.09	0.14	0.13	10	
Nitrite - N	mg/L	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	1	0.06
T-Alkalinity	mg/L	127	95	59	108	123	103		
Chloride	mg/L	0.06	0.12	0.43	0.11	0.08	0.08	<250	
Sulfate (SO4)	mg/L	63.2	44.8	77.3	106	113	113		
Hardness	mg CaCO3/L	199	143	153	230	240	227	<500	
Total Suspended Solids	mg/L	<2	8	99	<2	<2	3		
Total Dissolved Solids	mg/L	228	174	206	286	292	272	<500	

All results and limits in mg/L unless noted otherwis. Nr = no sample/reading

DWQ* Guidelines are Maximum Acceptable Concentrations according to
Canadian Drinking Water Quality

Aquatic** Guidelines are for protection of aquatic life in waters with pH >6.5 and Hardness as CaC03 >180 mg/L
Canadian Water Quality Guidelines

Table 2.Silver Range Resources - KEG Claims June, 2013.

Total Metals Analysis Results.

Parameter	Units	KEG #1	KEG #2	KEG #3	KEG #4	KEG #5	KEG #6	KEG #7	DWQ* G.Lines	Aquatic** G.Lines
Calcium	mg/L	45.2	32.8	16.8	42.4	39.2	47.3	91.3		
Iron	mg/L	0.609	0.492	0.066	0.798	0.151	6.16	0.676	0.3	0.3
Magnesium	mg/L	5.14	2.45	2.47	5.05	3	4.63	10		
Manganese	mg/L	0.0227	0.0424	<0.0050	0.0355	<0.0050	0.104	0.0566	0.05	
Potassium	mg/L	2.11	0.41	0.91	2.32	0.5	1.32	2.4		
Silicon	mg/L	4.91	6.24	4.48	4.99	7.04	4.83	5.28		
Sulfur	mg/L	11	5.9	1.3	8.8	10.2	34.2	43.5		
Sodium	mg/L	2.52	1.28	1.98	2.33	2.09	1.63	3.63	<200	
Titanium	mg/L	0.0195	0.0078	0.0073	0.0208	0.0072	0.0053	0.0093		
Aluminum	mg/L	0.412	0.183	0.057	0.56	0.119	0.54	0.133		0.1
Antimony	mg/L	0.0002	0.0005	<0.0002	0.0002	0.0005	0.0004	0.001	0.006	
Arsenic	mg/L	0.0021	0.0031	0.0009	0.0024	0.0034	0.0028	0.0037	0.01	
Barium	mg/L	0.06	0.04	0.036	0.064	0.029	0.049	0.067	1	
Beryllium	mg/L	<0.00004	0.00004	<0.00004	<0.00004	<0.00004	0.00022	<0.00004		
Bismuth	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
Boron	mg/L	0.009	0.008	<0.005	0.008	0.026	0.006	0.021		
Cadmium	mg/L	0.00008	0.00027	0.00001	0.00008	0.00012	0.00014	0.00011	0.005	0.0018
Chromium	mg/L	0.0009	<0.0004	<0.0004	0.0014	<0.0004	<0.0004	0.0006	0.05	0.002
Cobalt	mg/L	0.00039	0.00028	0.00006	0.00048	0.00012	0.00332	0.00039		
Copper	mg/L	0.003	0.007	0.001	0.003	0.007	0.007	0.004	1	0.004
Lead	mg/L	0.0004	0.0007	<0.0001	0.0005	0.0001	0.0002	0.0004		
Lithium	mg/L	0.004	0.001	0.006	0.004	0.002	0.008	0.002		
Molybdenum	mg/L	0.0014	0.0007	0.0008	0.0014	0.0031	0.0002	0.0023		
Nickel	mg/L	0.004	0.003	0.001	0.003	0.003	0.036	0.005		0.15
Selenium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	0.0007	<0.0006	0.0027	0.01	0.001
Silver	mg/L	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00001		0.0001
Strontium	mg/L	0.1	0.059	0.053	0.095	0.077	0.068	0.247		
Thallium	mg/L	0.00001	<0.00001	<0.00001	0.00001	<0.00001	0.00003	0.00002		
Tin	mg/L	<0.0001	<0.0001	0.0004	<0.0001	<0.0001	<0.0001	<0.0001		
Uranium	mg/L	0.0015	<0.0004	0.0012	0.0016	0.0004	<0.0004	0.0018	0.02	
Vanadium	mg/L	0.0017	0.0007	0.0004	0.0022	0.0009	0.0005	0.0016		
Zinc	mg/L	0.007	0.019	0.003	0.005	0.003	0.085	0.008	<5	0.03
Zirconium	mg/L	0.0005	0.0009	0.0003	0.0003	0.0009	0.0005	0.0006		
Mercury	mg/L	0.00002	0.00001	0.00002	0.00001	0.00002	0.00002	0.00002	0.001	

indicates levels equal or exceed Guideline Limits

Table 2.Silver Range Resources - KEG Claims June, 2013.
Total Metals Analysis Results.

Parameter	Units	KEG#8	KEG#9	KEG#10	KEG#11	KEG#12	KEG#13	DWQ* G.Lines	Aquatic** G.Lines
Calcium	mg/L	70.1	46.1	44	71.7	78.4	67.2		
Iron	mg/L	0.042	0.523	2.23	0.064	0.066	0.047	0.3	0.3
Magnesium	mg/L	5.73	6.72	10.6	12.3	10.8	14.5		
Manganese	mg/L	<0.0050	0.0326	0.0964	<0.0050	<0.0050	0.0241	0.05	
Potassium	mg/L	1.4	1.5	0.94	1.27	1.12	1.08		
Silicon	mg/L	4.88	4.5	4.89	3.46	3.17	3.06		
Sulfur	mg/L	20.6	14.5	24.8	34.5	35.6	37.4		
Sodium	mg/L	1.98	2.88	2.29	2.08	1.16	1.84	<200	
Titanium	mg/L	0.0019	0.0032	0.0208	0.0085	0.0018	0.0045		
Aluminum	mg/L	0.012	0.181	1.47	0.069	0.034	0.091		0.1
Antimony	mg/L	0.0006	0.0003	0.0014	0.0004	0.0004	0.0004	0.006	
Arsenic	mg/L	0.0013	0.0021	0.0063	0.001	0.0006	0.0013	0.01	
Barium	mg/L	0.052	0.073	0.1	0.05	0.057	0.058	1	
Beryllium	mg/L	<0.00004	<0.00004	0.00008	<0.00004	<0.00004	<0.00004		
Bismuth	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
Boron	mg/L	0.007	0.007	<0.005	0.006	0.005	<0.005		
Cadmium	mg/L	0.00002	0.00009	0.00047	0.00031	0.00027	0.00071	0.005	0.0018
Chromium	mg/L	<0.0004	<0.0004	0.0019	<0.0004	<0.0004	<0.0004	0.05	0.002
Cobalt	mg/L	0.00011	0.00027	0.00124	0.00017	0.00016	0.00031		
Copper	mg/L	0.001	0.002	0.009	0.002	0.001	0.002	1	0.004
Lead	mg/L	<0.0001	0.0004	0.0047	<0.0001	0.0001	<0.0001		
Lithium	mg/L	0.002	0.004	0.003	0.002	0.004	0.002		
Molybdenum	mg/L	0.0016	0.0014	0.0016	0.0012	0.0014	0.0009		
Nickel	mg/L	0.003	0.003	0.009	0.004	0.005	0.007		0.15
Selenium	mg/L	0.0009	<0.0006	<0.0006	0.0016	0.0026	0.0023	0.01	0.001
Silver	mg/L	<0.00001	<0.00001	0.00004	<0.00001	<0.00001	<0.00001		0.0001
Strontium	mg/L	0.225	0.134	0.173	0.187	0.242	0.178		
Thallium	mg/L	<0.00001	<0.00001	0.00004	<0.00001	0.00001	0.00001		
Tin	mg/L	<0.0001	<0.0001	<0.0001	0.0012	<0.0001	<0.0001		
Uranium	mg/L	0.0011	0.0016	0.0009	0.0019	0.0015	0.002	0.02	
Vanadium	mg/L	0.0001	0.0011	0.0065	0.0004	0.0003	0.0003		
Zinc	mg/L	<0.001	0.005	0.04	0.009	0.021	0.024	<5	0.03
Zirconium	mg/L	0.0002	0.0003	0.0009	0.0003	0.0002	0.0002		
Mercury	mg/L	<0.00001	<0.00001	0.00003	<0.00001	<0.00001	<0.00001	0.001	

indicates levels equal or exceed Guideline Limits

Table 3.Silver Range Resources - KEG Claims June, 2013.
Dissolved Metals Analysis Results

Parameter	Units	KEG #1	KEG #2	KEG #3	KEG #4	KEG #5	KEG #6	KEG #7
Calcium	mg/L	43.1	31.2	16.1	40.8	37.5	45.5	88.2
Iron	mg/L	0.114	0.256	0.037	0.111	0.082	2.2	0.187
Magnesium	mg/L	4.79	2.33	2.4	4.74	2.92	4.54	9.6
Manganese	mg/L	0.007	0.035	<0.001	0.013	<0.001	0.089	0.049
Potassium	mg/L	2	0.5	0.8	2	0.5	1.2	2.3
Silicon	mg/L	4.24	5.89	4.22	4.13	6.65	4.51	4.7
Sodium	mg/L	2.5	1.2	2.1	2.4	2.1	1.6	3.1
Sulfur	mg/L	10.6	5.6	1.2	8.3	9.9	33.4	41.2
Aluminum	mg/L	0.023	0.086	0.019	0.022	0.063	0.214	0.017
Antimony	mg/L	<0.0002	0.0004	<0.0002	<0.0002	0.0005	0.0003	0.0009
Arsenic	mg/L	0.0014	0.0022	0.0008	0.0014	0.0031	0.0009	0.0026
Barium	mg/L	0.046	0.032	0.031	0.048	0.024	0.04	0.047
Beryllium	mg/L	<0.00004	<0.00004	<0.00004	<0.00004	0.00004	0.0001	<0.00004
Bismuth	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/L	0.009	0.008	0.005	0.008	0.026	0.006	0.019
Cadmium	mg/L	0.00004	0.00022	0.00002	0.00003	0.0001	0.00013	0.00008
Chromium	mg/L	<0.0004	0.0005	<0.0004	0.0005	0.0004	<0.0004	0.0005
Cobalt	mg/L	0.00014	0.00019	0.00004	0.0001	0.00009	0.00281	0.00023
Copper	mg/L	0.002	0.005	<0.001	0.002	0.006	0.004	0.002
Lead	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Lithium	mg/L	0.003	0.001	0.006	0.003	0.002	0.007	0.001
Molybdenum	mg/L	0.0013	0.00061	0.00066	0.0013	0.0028	0.00011	0.00202
Nickel	mg/L	0.003	0.003	0.001	0.002	0.003	0.032	0.004
Selenium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	0.0008	<0.0006	0.0024
Silver	mg/L	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Strontium	mg/L	0.094	0.055	0.049	0.086	0.073	0.063	0.231
Titanium	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Thallium	mg/L	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00002	0.00001
Tin	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Uranium	mg/L	0.0014	<0.0004	0.0012	0.0015	<0.0004	<0.0004	0.0017
Vanadium	mg/L	0.00042	0.00042	0.00028	0.0005	0.00071	0.00012	0.00039
Zinc	mg/L	0.003	0.011	<0.001	0.002	0.004	0.072	0.003
Zirconium	mg/L	0.00037	0.00056	0.00028	0.00024	0.00058	0.00035	0.00036

Table 3.Silver Range Resources - KEG Claims June, 2013.
Dissolved Metals Analysis Results

Parameter	Units	KEG#8	KEG#9	KEG#10	KEG#11	KEG#12	KEG#13
Calcium	mg/L	68.2	45.7	41.9	68.5	78.9	64.5
Iron	mg/L	0.036	0.162	0.286	0.032	0.043	0.025
Magnesium	mg/L	5.63	6.65	9.94	11.8	10.9	13.9
Manganese	mg/L	0.002	0.018	0.023	<0.001	0.001	0.001
Potassium	mg/L	1.3	1.4	0.8	1.1	1.1	1
Silicon	mg/L	4.63	4.14	3.4	3.3	3.07	2.87
Sodium	mg/L	2.4	2.6	1.8	1.8	1.6	1.5
Sulfur	mg/L	19.7	13.7	23.6	33.3	33.8	34.6
Aluminum	mg/L	0.006	0.025	0.077	0.035	0.008	0.049
Antimony	mg/L	0.0006	0.0002	0.0009	0.0004	0.0004	0.0003
Arsenic	mg/L	0.0013	0.0016	0.0018	0.0009	0.0005	0.0011
Barium	mg/L	0.045	0.056	0.036	0.044	0.05	0.052
Beryllium	mg/L	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004
Bismuth	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/L	0.006	0.006	<0.004	0.006	<0.004	<0.004
Cadmium	mg/L	0.00002	0.00005	0.0001	0.00028	0.00028	0.00071
Chromium	mg/L	0.0004	0.0006	0.0004	0.0005	0.0006	0.0004
Cobalt	mg/L	0.00011	0.00011	0.00022	0.00015	0.00013	0.00025
Copper	mg/L	<0.001	0.001	0.003	0.001	0.001	0.001
Lead	mg/L	<0.0001	<0.0001	0.0003	<0.0001	<0.0001	<0.0001
Lithium	mg/L	0.002	0.004	0.002	0.002	0.003	0.002
Molybdenum	mg/L	0.00145	0.0012	0.00126	0.001	0.00128	0.00075
Nickel	mg/L	0.002	0.002	0.004	0.004	0.004	0.006
Selenium	mg/L	0.001	0.0007	<0.0006	0.0015	0.0032	0.0024
Silver	mg/L	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Strontium	mg/L	0.208	0.123	0.154	0.172	0.229	0.164
Titanium	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Thallium	mg/L	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Tin	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Uranium	mg/L	0.001	0.0015	0.0006	0.0017	0.0015	0.0019
Vanadium	mg/L	0.0002	0.00046	0.00072	0.0003	0.00031	0.00026
Zinc	mg/L	0.001	0.002	0.009	0.008	0.018	0.022
Zirconium	mg/L	0.0002	0.00018	0.00038	0.0002	0.00017	0.00013

Table 4. Silver Range Resources - Summary of KEG Project Stations Flow Volumes 2010 to 2013

(Cubic meters per second)

Station	Date															
	Aug-10	Oct-10	Mar-11	Jun-11	Sep-11	Mar-12	May-12	Jul-12	Oct-12	Nov-12	Dec-12	Mar-13	Apr-13	May-13	Jun-13	Jul-13
KEG #1	0.249	0.362	0.025	0.939	0.785	0.057	0.6995	1.270	0.312	0.215	0.114	0.12	0.077	2.131	1.181	
KEG #2	Dry	Dry	Dry	0.008 E	0.003 E	Dry	1.1247 0.0015 E	1.3736	0.0005 E	dry	dry	dry	dry	0.002	0.002	0.003
KEG #3	nr	nr	nr	nr	nr	nr	0.6237	0.9296	0.328	nr	nr	0.053	nr	2.285	0.6018	
KEG #4	0.211	0.261	0.028	0.758	nr	0.012	0.7403	1.206	0.323	nr	nr	0.069	nr	2.074	nr	
KEG #5	0.139	0.0006	Dry	0.011	0.011	Dry	0.0253	0.013	0.004 E	dry	dry	dry	dry	0.003	0.0046	0.0981
KEG #6	0.007	0.009	0.001	0.013	0.013	Dry	0.0163	0.0269	0.006	<0.001 e	<0.001 e	<0.001e	<0.001e	0.057	0.0688	0.0332
KEG #7	0.011	0.011	Overflow	0.048	0.057	Overflow	0.0787	0.0485	0.031	nr	nr	dry		nr	0.0324	
KEG #8	0.055 E	0.014	Dry	0.1003	0.050	nr	0.0787	0.0764	0.049	nr	nr	nr		nr	nr	
KEG #10	nr	0.167	Dry	0.644	0.18	Dry	0.7094	0.3262	0.107	nr	nr	dry		nr	0.7732	
KEG #11	nr	0.217	0.11	0.143	0.513	0.035	0.4049	0.751	0.288	nr	nr	0.044		1.737	0.839	0.7657
KEG #12	nr	0.11	Dry	0.250 E	0.210	0.007 E	0.5426 0.2044	0.7974 0.4203	0.035	nr	nr	nr		nr	0.3087	
KEG #13	nr	0.143	0.002 E	0.499	0.295	0.002 E	0.2423	0.7296	0.185	nr	nr	nr		nr	0.6587	

E=flow estimated

Table 5.Silver Range Resources - KEG Claims July, 2013.
Routine Chemistry and Field Measurement Results

		STATIONS								
Parameter	**Unit**	**KEG #1**	**KEG #2**	**KEG #3**	**KEG #4**	**KEG #5**	**KEG #6**	**KEG #7**	**DWQ* G.lines**	**Aquatic** G.lines**
Monitoring Frequency		***Monthly***	***Monthly***	***Monthly***	***Monthly***	***Monthly***	***Monthly***	***Quarterly***		
pH (field)	ru	7.79	6.97	7.48	7.54	7.51	6.88			
pH (lab)	ru	7.82	7.18	7.74	7.82	7.43	6.86		6.5-8.5	6.5-9
Electrical Conductivity (lab)		196	85	116	187	94	277			
Water temperature	C	7.5	7.6	7.5	7.2	3.5	7.5			
Flow Volume(field)	cms	nr	0.003	nr	nr	0.0981	0.0332			
Organic Carbon Total	mg/L	13.7	31.8	15.4	13.8	28.3	12.2			
Cyanide Total	mg/L	<0.002	<0.002	<0.002	<0.002	0.002	<0.002		0.2	0.005
Phosphorus Total	mg/L	0.062	0.016	0.013	0.064	0.012	0.004			
Ammonia - N	mg/L	<0.01	<0.01	0.02	0.02	0.03	0.05			1.37-2.2
Nitrate - N	mg/L	0.03	<0.01	<0.01	0.02	0.11	0.03		10	
Nitrite - N	mg/L	<0.005	0.005	<0.005	<0.005	0.005	<0.005		1	0.06
T-Alkalinity	mg/L	79	34	56	78	32	18			
Chloride	mg/L	0.08	0.06	0.28	0.12	0.06	0.21		<250	
Sulfate (SO4)	mg/L	23.7	7.6	5.4	18.7	12.2	114			
Hardness	mg CaCO3/L	113	55.6	67.3	104	60.3	138		<500	
Total Suspended Solids	mg/L	41	<2	5	34	78	<2			
Total Dissolved Solids	mg/L	120	86	76	112	92	200		<500	

All results and limits in mg/L unless noted otherwis. Nr = no sample/reading

DWQ* Guidelines are Maximum Acceptable Concentrations according to
Canadian Drinking Water Quality

Aquatic** Guidelines are for protection of aquatic life in waters with pH >6.5 and Hardness as CaC03 >180 mg/L
Canadian Water Quality Guidelines

Table 5.Silver Range Resources - KEG Claims July, 2013.
Routine Chemistry and Field Measurement Results

		STATIONS							
Parameter	**Unit**	**KEG#8**	**KEG#9**	**KEG#10**	**KEG#11**	**KEG#12**	**KEG#13**	**DWQ* G.lines**	**Aquatic** G.lines**
Monitoring Frequency		***Quarterly***	***Monthly***	***Quarterly***	***Quarterly***	***Quarterly***	***Quarterly***		
pH (field)	ru		7.43						
pH (lab)	ru		7.77					6.5-8.5	6.5-9
Electrical Conductivity (lab)	uS/cm		250						
Water temperature	C		8.3						
Flow Volume(field)	cms		nr		0.7657				
Organic Carbon Total	mg/L		12						
Cyanide Total	mg/L		<0.002					0.2	0.005
Phosphorus Total	mg/L		0.126						
Ammonia - N	mg/L		<0.01						1.37-2.2
Nitrate - N	mg/L		0.02					10	
Nitrite - N	mg/L		<0.005					1	0.06
T-Alkalinity	mg/L		88						
Chloride	mg/L		0.13					<250	
Sulfate (SO4)	mg/L		42.4						
Hardness	mg CaCO3/L		138					<500	
Total Suspended Solids	mg/L		77						
Total Dissolved Solids	mg/L		162					<500	

All results and limits in mg/L unless noted otherwis. Nr = no sample/reading

DWQ* Guidelines are Maximum Acceptable Concentrations according to
Canadian Drinking Water Quality

Aquatic** Guidelines are for protection of aquatic life in waters with pH >6.5 and Hardness as CaC03 >180 mg/L
Canadian Water Quality Guidelines

Table 6.Silver Range Resources - KEG Claims July, 2013.

Total Metals Analysis Results.

Parameter	Units	KEG #1	KEG #2	KEG #3	KEG #4	KEG #5	KEG #6	KEG #7	DWQ* G.Lines	Aquatic** G.Lines
Calcium	mg/L	37.5	19.8	21.6	34.4	21	47.5			
Iron	mg/L	1.55	0.392	0.238	1.14	1.91	3.27		0.3	0.3
Magnesium	mg/L	4.67	1.48	3.23	4.51	1.9	4.82			
Manganese	mg/L	0.0509	0.0065	0.0073	0.039	0.0428	0.106		0.05	
Potassium	mg/L	1.92	0.18	0.71	1.85	0.51	1.17			
Silicon	mg/L	6.69	6.55	6.31	6.17	8.9	5.29			
Sulfur	mg/L	7.6	2.6	2	6.1	4	35.2			
Sodium	mg/L	2.26	1.1	2.11	2.21	1.31	1.62		<200	
Titanium	mg/L	0.0415	0.0023	0.0035	0.0374	0.0316	<0.0010			
Aluminum	mg/L	0.93	0.267	0.163	0.701	1.31	0.254			0.1
Antimony	mg/L	0.0004	0.0004	<0.0002	0.0003	0.0006	0.0004		0.006	
Arsenic	mg/L	0.0032	0.0028	0.0011	0.0022	0.0048	0.0011		0.01	
Barium	mg/L	0.074	0.027	0.048	0.067	0.085	0.044		1	
Beryllium	mg/L	0.00006	<0.00004	<0.00004	<0.00004	0.00009	0.0001			
Bismuth	mg/L	<0.001	<0.001	<0.001	<0.001	<0.0010	<0.001			
Boron	mg/L	0.007	<0.005	<0.005	0.007	0.01	0.005			
Cadmium	mg/L	0.00017	0.00019	0.00004	0.00009	0.0004	0.00013		0.005	0.0018
Chromium	mg/L	0.0031	0.0005	<0.0004	0.0024	0.0022	<0.0004		0.05	0.002
Cobalt	mg/L	0.00081	0.00006	0.00007	0.00061	0.00083	0.00314			
Copper	mg/L	0.008	0.007	0.002	0.007	0.011	0.006		1	0.004
Lead	mg/L	0.0011	0.0006	0.0002	0.0007	0.0025	<0.0001			
Lithium	mg/L	0.004	<0.001	0.006	0.004	0.003	0.008			
Molybdenum	mg/L	0.0011	0.0003	0.0006	0.001	0.0009	<0.0001			
Nickel	mg/L	0.008	0.003	0.001	0.014	0.005	0.036			0.15
Selenium	mg/L	0.0007	<0.0006	<0.0006	<0.0006	0.0008	<0.0006		0.01	0.001
Silver	mg/L	0.00001	<0.00001	<0.00001	<0.00001	0.00004	<0.00001			0.0001
Strontium	mg/L	0.088	0.036	0.064	0.082	0.045	0.067			
Thallium	mg/L	0.00002	<0.00001	<0.00001	0.00002	0.00003	0.00002			
Tin	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	0.0001	0.0002			
Uranium	mg/L	0.0012	<0.0004	0.0014	0.0011	<0.0004	<0.0004		0.02	
Vanadium	mg/L	0.0044	0.0008	0.0007	0.0031	0.006	0.0002			
Zinc	mg/L	0.012	0.012	0.003	0.062	0.023	0.078		<5	0.03
Zirconium	mg/L	0.0003	0.0005	0.0002	0.0003	0.0006	0.0003			
Mercury	mg/L	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		0.001	

indicates levels equal or exceed Guideline Limits

Table 6.Silver Range Resources - KEG Claims July, 2013.
Total Metals Analysis Results.

Parameter	Units	KEG#8	KEG#9	KEG#10	KEG#11	KEG#12	KEG#13	DWQ* G.Lines	Aquatic** G.Lines
Calcium	mg/L		44.6						
Iron	mg/L		2.43					0.3	0.3
Magnesium	mg/L		6.45						
Manganese	mg/L		0.096					0.05	
Potassium	mg/L		1.54						
Silicon	mg/L		7.18						
Sulfur	mg/L		13.1						
Sodium	mg/L		2.46					<200	
Titanium	mg/L		0.0315						
Aluminum	mg/L		1.12						0.1
Antimony	mg/L		0.0006					0.006	
Arsenic	mg/L		0.0043					0.01	
Barium	mg/L		0.125					1	
Beryllium	mg/L		0.00008						
Bismuth	mg/L		<0.001						
Boron	mg/L		0.006						
Cadmium	mg/L		0.00027					0.005	0.0018
Chromium	mg/L		0.0027					0.05	0.002
Cobalt	mg/L		0.00087						
Copper	mg/L		0.006					1	0.004
Lead	mg/L		0.0019						
Lithium	mg/L		0.005						
Molybdenum	mg/L		0.0011						
Nickel	mg/L		0.006						0.15
Selenium	mg/L		0.0011					0.01	0.001
Silver	mg/L		0.00003						0.0001
Strontium	mg/L		0.122						
Thallium	mg/L		0.00003						
Tin	mg/L		<0.0001						
Uranium	mg/L		0.0014					0.02	
Vanadium	mg/L		0.0054						
Zinc	mg/L		0.02					<5	0.03
Zirconium	mg/L		0.0004						
Mercury	mg/L		<0.00001					0.001	

indicates levels equal or exceed Guideline Limits

Table 7.Silver Range Resources - KEG Claims July, 2013.

Dissolved Metals Analysis Results

Parameter	Units	KEG #1	KEG #2	KEG #3	KEG #4	KEG #5	KEG #6	KEG #7
Calcium	mg/L	34.5	18.8	20.3	32.6	19	45.5	
Iron	mg/L	0.153	0.209	0.073	0.137	0.244	2.76	
Magnesium	mg/L	4.02	1.39	3.08	4.05	1.48	4.64	
Manganese	mg/L	0.012	0.002	0.001	0.017	0.005	0.106	
Potassium	mg/L	1.7	0.2	0.7	1.7	0.2	1.2	
Silicon	mg/L	4.86	6.12	5.72	4.84	6.74	4.97	
Sodium	mg/L	2.3	1.1	2.2	2.3	1.2	1.5	
Sulfur	mg/L	7.4	2.6	1.9	6	4	35.5	
Aluminum	mg/L	0.039	0.18	0.039	0.034	0.22	0.214	
Antimony	mg/L	0.0002	0.0008	<0.0002	0.0002	0.0004	0.0004	
Arsenic	mg/L	0.0013	0.0018	0.0008	0.0013	0.0026	0.0009	
Barium	mg/L	0.039	0.021	0.038	0.047	0.022	0.045	
Beryllium	mg/L	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	0.00011	
Bismuth	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Boron	mg/L	0.005	0.004	0.004	0.006	0.01	0.005	
Cadmium	mg/L	0.00005	0.00014	0.00002	0.00004	0.00014	0.00012	
Chromium	mg/L	<0.0004	<0.0004	<0.0004	<0.0004	0.0004	<0.0004	
Cobalt	mg/L	0.00009	0.00006	0.00004	0.00007	0.00012	0.00298	
Copper	mg/L	0.003	0.006	0.002	0.003	0.006	0.005	
Lead	mg/L	<0.0001	0.0001	<0.0001	<0.0001	0.0001	0.0002	
Lithium	mg/L	0.003	<0.001	0.005	0.003	<0.001	0.008	
Molybdenum	mg/L	0.00077	0.0002	0.0004	0.00079	0.00064	<0.00010	
Nickel	mg/L	0.002	0.002	<0.001	0.002	0.002	0.036	
Selenium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	0.0007	0.0006	
Silver	mg/L	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Strontium	mg/L	0.069	0.031	0.056	0.075	0.037	0.063	
Titanium	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
Thallium	mg/L	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00002	
Tin	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Uranium	mg/L	0.0008	<0.0004	0.0011	0.001	<0.0004	<0.0004	
Vanadium	mg/L	0.00041	0.00048	0.00026	0.00044	0.00106	<0.00010	
Zinc	mg/L	0.003	0.01	0.002	0.002	0.004	0.078	
Zirconium	mg/L	0.0003	0.00053	0.00027	0.00024	0.00058	0.00028	

Table 7.Silver Range Resources - KEG Claims July, 2013.
Dissolved Metals Analysis Results

Parameter	Units	KEG#8	KEG#9	KEG#10	KEG#11	KEG#12	KEG#13
Calcium	mg/L		42.2				
Iron	mg/L		0.191				
Magnesium	mg/L		5.79				
Manganese	mg/L		0.025				
Potassium	mg/L		1.2				
Silicon	mg/L		5.1				
Sodium	mg/L		2.5				
Sulfur	mg/L		13.1				
Aluminum	mg/L		0.046				
Antimony	mg/L		0.0004				
Arsenic	mg/L		0.0015				
Barium	mg/L		0.056				
Beryllium	mg/L		<0.00004				
Bismuth	mg/L		<0.001				
Boron	mg/L		0.006				
Cadmium	mg/L		0.00006				
Chromium	mg/L		<0.0004				
Cobalt	mg/L		0.00009				
Copper	mg/L		0.002				
Lead	mg/L		<0.0001				
Lithium	mg/L		0.004				
Molybdenum	mg/L		0.00093				
Nickel	mg/L		0.002				
Selenium	mg/L		0.0009				
Silver	mg/L		<0.00001				
Strontium	mg/L		0.113				
Titanium	mg/L		<0.010				
Thallium	mg/L		<0.00001				
Tin	mg/L		0.0007				
Uranium	mg/L		0.0013				
Vanadium	mg/L		0.00045				
Zinc	mg/L		0.003				
Zirconium	mg/L		0.00033				

Table 8.Silver Range Resources - KEG Claims June, 2013.
Quality Control Total and Dissolved Metals Analysis Results.

Parameter	Units	June Keg # 11 Total Metals	June Keg # 11 Total Metals Duplicate	June Keg # 11 Diss.Metals	June Keg # 11 Diss.Metals Duplicate
Calcium	mg/L	71.7	70.4	68.5	68
Iron	mg/L	0.064	0.072	0.032	0.035
Magnesium	mg/L	12.3	12.2	11.8	11.6
Manganese	mg/L	<0.0050	0.0185	<0.001	<0.001
Potassium	mg/L	1.27	1.22	1.1	1.1
Silicon	mg/L	3.46	3.44	3.3	3.26
Sodium	mg/L	2.08	2.28	1.8	1.8
Titanium	mg/L	0.0085	0.0043	<0.010	<0.010
Aluminum	mg/L	0.069	0.079	0.035	0.038
Antimony	mg/L	0.0004	0.0004	0.0004	0.0004
Arsenic	mg/L	0.001	0.0009	0.0009	0.0009
Barium	mg/L	0.05	0.05	0.044	0.044
Beryllium	mg/L	<0.00004	<0.00004	<0.00004	<0.00004
Bismuth	mg/L	<0.001	<0.001	<0.001	<0.001
Boron	mg/L	0.006	0.005	0.006	0.006
Cadmium	mg/L	0.00031	0.00028	0.00028	0.00026
Chromium	mg/L	<0.0004	<0.0004	0.0005	0.0005
Cobalt	mg/L	0.00017	0.00018	0.00015	0.00013
Copper	mg/L	0.002	0.002	0.001	0.002
Lead	mg/L	<0.0001	<0.0001	<0.0001	<0.0001
Lithium	mg/L	0.002	0.002	0.002	0.002
Molybdenum	mg/L	0.0012	0.0012	0.001	0.00099
Nickel	mg/L	0.004	0.004	0.004	0.004
Selenium	mg/L	0.0016	0.0017	0.0015	0.0018
Silver	mg/L	<0.00001	<0.00001	<0.00001	<0.00001
Strontium	mg/L	0.187	0.185	0.172	0.17
Thallium	mg/L	<0.00001	<0.00001	<0.00001	<0.00001
Tin	mg/L	0.0012	<0.0001	<0.0001	<0.0001
Uranium	mg/L	0.0019	0.0018	0.0017	0.0017
Vanadium	mg/L	0.0004	0.0004	0.0003	0.00032
Zinc	mg/L	0.009	0.009	0.008	0.01
Zirconium	mg/L	0.0003	0.0002	0.0002	0.00018
Mercury	mg/L	<0.00001	0.00003	nr	nr

indicates >10% variation between samples

Table 9. KEG Claims - Camp Drinking Water Supply @ KEG #4, 2011, 2012 and 2013

Parameter		Sep-11 KEG#4 *Raw*	Sep-11 KEG#4 *Treated*	Mar-12 KEG #4 *Raw*	May-12 Keg #4 *Raw*	May-12 Keg #4 *Treated*	Jul-12 Keg #4 *Raw*	Jul-12 Keg #4 *Treated*	Oct-12 Keg#4 *Raw*	May-13 Keg#4 *Raw*	Jun-13 Keg#4 *Raw*	Jul-13 Keg#4 *Raw*	DWQ* Guideline MAC's
pH	ru	8.2		8.1	7.45		7.94		7.62	7.67	7.9	7.82	6 to 8.5
Conductivity	uS/cm	322		418	175		207		151	111	232	187	
Chloride	mg/L	<0.5		<0.5	0.6		0.06		1.32	0.14	0.11	0.12	<250
Nitrate	mg/L	0.02		0.25	0.04		0.02		0.12	0.02	0.06	0.02	1
Nitrite	mg/L	<0.005		<0.005	<0.005		<0.005		<0.01	<0.01	<0.01	<0.005	10
T.Dissolved Solids	mg/L	198		340	158		174		222	92	124	112	500
T.Susp Solids	mg/L	<2		<2	30		<2		6	68	15	34	
Sulfate	mg/L	35		72	18		30		46.6	7.2	27.2	18.7	250
Hardness as CaC03	mg/L	166		236	94		137		206	56	127	104	<500
Alkalinity total	mg/L	132		184	72		104		74	44	93	78	
Total Metals													
Aluminum	mg/L	0.04	0.148	0.007	0.646	0.097	0.1	<0.04	0.081	1.35	0.56	0.701	
Antimony	mg/L	<0.0002	<0.0002	0.0002	<0.0002	<0.0002	<0.0004	<0.0004	0.0002	<0.0002	0.0002	0.0003	0.006
Arsenic	mg/L	0.0014	0.0015	0.0018	0.0025	0.0018	0.001	0.0009	0.00156	0.00162	0.0024	0.0022	0.01
Barium	mg/L	0.063	0.064	0.08	0.056	0.046	0.075	0.057	0.0722	0.068	0.064	0.067	1
Beryllium	mg/L	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.0002	<0.0002	<0.00005	<0.0001	<0.00004	<0.00004	
Bismuth	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0001	<0.0002	<0.001	<0.001	
Boron	mg/L	<0.005	<0.005	0.015	0.008	0.007	0.008	0.007	0.008	0.006	0.008	0.007	5
Cadmium	mg/L	0.00003	0.00006	0.00004	0.0001	0.00003	0.00007	0.00006	0.00006	0.00047	0.00008	0.00009	0.005
Calcium	mg/L	55.6	56.4	78.4	29.7	30.2	46.5	47.8	64.4	19.9	42.4	34.4	
Chromium	mg/L	<0.0004	0.0007	<0.0004	0.0023	0.0007	0.001	<0.001	<0.0005	0.0047	0.0014	0.0024	0.05
Cobalt	mg/L	0.00008	0.00017	0.00008	0.00058	0.00012	0.0006	<0.0002	<0.0001	0.0014	0.00048	0.00061	
Copper	mg/L	0.002	0.002	0.001	0.005	0.008	0.0004	0.006	0.0016	0.0082	0.003	0.007	1
Iron	mg/L	0.166	0.303	0.127	1.16	0.468	0.2	<0.1	0.29	2.76	0.798	1.14	0.3
Lead	mg/L	<0.0001	0.0002	<0.0001	0.0008	0.0029	0.0004	0.0008	0.0001	0.0012	0.0005	0.0007	0.01
Lithium	mg/L	0.005	0.005	0.008	0.004		0.005	0.004	0.0051	0.0031	0.004	0.004	
Magnesium	mg/L	6.47	6.57	9.93	4.07	4.01	5.1	5	7.86	3.02	5.05	4.51	
Manganese	mg/L	0.012	0.02	0.014	0.042	0.014	0.01	<0.01	0.0328	0.154	0.0355	0.039	0.05
Molybdenum	mg/L	0.0016	0.0015	0.0024	0.0009	0.0009	<0.002	<0.002	0.00198	0.00094	0.0014	0.001	
Mercury	mg/L	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.0001	<0.0001	<0.0001	<0.0001	0.00001	<0.00001	0.001
Nickel	mg/L	0.001	0.002	0.006	0.004	0.002	0.0024	0.002	0.0012	0.0067	0.003	0.014	
Potassium	mg/L	2.2	2.4	2.6	1.9	1.8	2	2	2.4	2.7	2.32	1.85	
Sulfur	mg/L	13.1	11.1	24.4	5.4	6.1	9.7	10	nr	nr	8.8	6.1	
Selenium	mg/L	<0.0006	<0.0006	0.0012	<0.0006	<0.0006	0.0008	0.0006	0.0012	0.0004	<0.0006	<0.0006	0.01
Strontium	mg/L	0.121	0.119	0.187	0.081	0.081	0.089	0.087	0.143	0.0482	0.095	0.082	
Silicon	mg/L	5	5.16	5.7	4.06	3.46	4.99	4.83	6.42	5.06	4.99	6.17	
Sodium	mg/L	2.73	2.7	4.62	1.65	1.63	2	2	3	1	2.33	2.21	<200
Titanium	mg/L	<0.001	0.008	<0.001	0.02	0.004	0.0094	0.002	0.0038	0.0626	0.0208	0.0374	
Uranium	mg/L	0.0026	0.0027	0.0041	0.0015	0.0017	0.002	0.002	0.00359	0.00067	0.0016	0.0011	0.02
Vanadium	mg/L	0.0004	0.0008	0.0002	0.0025	0.0007	0.002	0.0008	0.0007	0.0056	0.0022	0.0031	
Zinc	mg/L	0.002	0.015	0.002	0.012	0.04	0.006	0.021	0.002	0.02	0.005	0.062	<5

DWQ* = Canadian Drinking Water Quality Guideline ***exceeds DWQ MAC***

Table 10 . Silver Range Resources. KEG Project - Stream Sediment Analysis. June 2013

		KEG #1			KEG#11			
Parameter	***Units***	***REP#1***	***REP#2***	***REP#3***	***REP#1***	***REP#2***	***REP#3***	***Detection Limit***
Sieve 75 micron	***%Ret***	94.3	89.2	88.8	92.8	95.2	93.7	0.1
Texture		Coarse-Grained	Coarse-Grained	Coarse-Grained	Coarse-Grained	Coarse-Grained	Coarse-Grained	
Aluminum	ug/g	16800	19000	20100	7480	7650	7540	1
Antimony	ug/g	4.91	4.4	5.16	2.06	3.37	3.36	0.5
Arsenic	ug/g	20	30.1	29.5	16.1	16.4	16.8	0.2
Barium	ug/g	551	568	596	584	570	442	0.03
Beryllium	ug/g	0.687	0.753	0.714	0.481	0.533	0.497	0.02
Bismuth	ug/g	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5
Cadmium	ug/g	2.19	1.79	1.85	1.78	2.2	1.99	0.05
Calcium	ug/g	9290	9650	10700	10000	10000	12500	2
Chromium	ug/g	36.6	41.3	40.7	12.7	14.1	14.2	0.04
Cobalt	ug/g	10.2	10.7	11.6	5.52	6.3	6.12	0.05
Copper	ug/g	32.7	29.6	34.2	16.9	18.3	17.8	0.05
Iron	ug/g	24800	26700	23800	15400	16100	16100	1
Lead	ug/g	18.1	22.4	19	10.6	11.4	11.7	0.3
Lithium	ug/g	21	22.5	21	10.8	11.2	11.3	0.1
Magnesium	ug/g	4940	4960	5400	3900	4310	4120	10
Manganese	ug/g	537	522	594	240	292	270	0.3
Molybdenum	ug/g	1.88	2.14	1.74	2.16	2.12	2.52	0.05
Nickel	ug/g	48.4	47.6	51	23.9	27.6	26.2	0.1
Phosphorus	ug/g	928	872	843	1020	836	992	0.5
Potassium	ug/g	1980	2100	2270	1280	1380	1460	5
Selenium	ug/g	1.04	1.67	1.73	2.06	1.06	0.94	0.3
Silver	ug/g	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	0.2
Sodium	ug/g	276	306	416	99.2	93	115	1
Strontium	ug/g	59	59.1	76.2	76.8	51.8	60.1	0.02
Sulfur	ug/g	606	603	608	597	600	450	1
Thallium	ug/g	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	0.3
Tin	ug/g	1.42	0.85	1.04	0.84	0.68	0.5	0.4
Titanium	ug/g	525	645	656	162	156	145	0.05
Vanadium	ug/g	67.9	69.2	81.4	45.6	48.4	61	0.2
Zinc	ug/g	161	166	173	139	163	154	0.1
Zirconium	ug/g	4.59	5.32	4.9	4.73	4.34	4.08	0.05

As a guide for reviewing site water quality, the Maximum Acceptable Concentration (MAC) according to ***Canadian Drinking Water Quality*** are listed along with the Aquatic Guidelines for the protection of aquatic life in water with a pH of > 6.5 and a total hardness as CaC03 > 180 mg/L according to ***CCME – Canadian Water Quality Guidelines.***
All water quality ***Guideline*** concentrations are based on total metal values.

All laboratory analysis was done by Exova Canada Inc of Surrey B.C.

Laboratory Analytical Reports are attached in Appendix 1.

Data Summaries for each station are on the attached Excel disc.

Quality Control

Total and dissolved metals duplicate samples were taken at KEG#11 for quality control.in June 2013. No quality control was done in July 2013.

Quality control analysis results are listed in Table 8.

Discussion

Laboratory Analytical Results

Parameters that equal or exceed either ***Drinking Water or Aquatic Guidelines*** are highlighted in yellow.

June 2013

Station KEG#1 results exceed the ***Aquatic Guidelines*** for aluminum and the ***Drinking Water MAC*** for iron.

Station KEG#2 results exceed the ***Aquatic Guidelines*** for aluminum and the ***Drinking Water MAC*** for iron.

Station KEG#4 results exceed ***Aquatic Guidelines*** for aluminum and the ***Drinking Water MAC*** for iron.

KEG Project June and July 2013

Station KEG#5 results exceed ***Aquatic Guidelines*** for aluminum and copper.

Station KEG#6 results exceed ***Aquatic Guidelines*** for aluminum, iron, copper and zinc; and exceed the ***Drinking Water MAC*** for iron and manganese.

Station KEG#7 results exceed ***Aquatic Guidelines*** for aluminum, iron and copper; and exceed the ***Drinking Water MAC*** for iron and manganese.

Station KEG#9 (receiving waters) results exceed the ***Aquatic Guidelines*** for aluminum and iron; and the ***Drinking Water MAC*** for iron.

Station KEG#10 results exceed the ***Aquatic Guidelines*** for aluminum, copper, zinc and iron; and the ***Drinking Water MAC*** for iron and manganese

Stations KEG#11, #12 and #13 exceed the ***Aquatic Guidelines*** for selenium.

July 2013

Station KEG#1 results exceed the ***Aquatic Guidelines*** for iron, aluminum and copper; and exceed the ***Drinking Water MAC*** for iron and manganese

Station KEG#2 results exceed the ***Aquatic Guidelines*** for aluminum and copper; and the ***Drinking Water MAC*** for iron

Station KEG#3 results exceed the ***Aquatic Guidelines*** for aluminum.

Station KEG#4 results exceed ***Aquatic Guidelines*** for iron, aluminum, chromium, cooper and zinc; and exceed the ***Drinking Water MAC*** for iron.

Station KEG#5 results exceed ***Aquatic Guidelines*** for iron, aluminum and cooper; and exceed the ***Drinking Water MAC*** for iron and manganese.

Station KEG#6 results exceed ***Aquatic Guidelines*** for aluminum, iron, copper and zinc and exceed the ***Drinking Water MAC*** for iron and manganese.

Station KEG #9 (receiving waters) results exceed ***Aquatic Guideline*** for iron, aluminum, chromium, copper and selenium; and the ***Drinking Water MAC's*** for iron and manganese.

KEG Project June and July 2013

In June 2013, Total Mercury concentrations were detected at Stations KEG#1, 2, 3, 4, 5, 6, 7 and 10 at or slightly above (0.0002 mg/L) the detection limit of 0.0001 mg/L.

In July 2013, Total Mercury concentrations were below detection limit at all Keg stations sampled.

Total Cyanide concentrations were below the detection limit of 0.002 mg/L at all KEG stations for both June and July 2013.

Camp Water Supply.

Camp supply at KEG#4 (raw / untreated supply) exceeds the ***Drinking Water Guidelines MAC*** for total iron.

Iron is not a health risk to users with the MAC based on aesthetic considerations.

Stream Sediment Analysis

Stream sediments at Stations KEG#1 and KEG#11 were taken in June for analysis of total metals in soils, texture and particle size distribution.

APPENDIX 1

LABORATORY ANALYTICAL REPORTS

KEG PROJECT

June 2013
Surface Waters and Stream Sediments

July 2013
Surface Waters

Exova
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Report Transmission Cover Page

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**944114**
Report To:	J. Gibson & Associates	ID:	Silver Range (SRR)	Control Number:	B05945
	Box 20913	Name:	KEG	Date Received:	Jul 2, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Jul 10, 2013
	Y1A 6P2	LSD:		Report Number:	1838156
Attn:	John Gibson	P.O.:			
Sampled By:	J Gibson	Acct code:			
Company:					

Contact & Affiliation	Address	Delivery Commitments
John Gibson J. Gibson & Associates	, Box 20913 Whitehorse, Yukon Territory Y1A 6P2 Phone: (867) 633-4522 Fax: (867) 668-6895 Email: ludditegibson@gmail.com	On [Lot Verification] send (COA) by Email - Single Report On [Report Approval] send (COC, Test Report) by Email - Merge Reports On [Report Approval] send (Test Report) by Email - Single Report On [Lot Approval and Final Test Report Approval] send (Invoice) by Email - Single Report On [Lot Creation] send (COR) by Email - Single Report

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**944114**
Report To:	J. Gibson & Associates	ID:	Silver Range (SRR)	Control Number:	B05945
	Box 20913	Name:	KEG	Date Received:	Jul 2, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Jul 10, 2013
	Y1A 6P2	LSD:		Report Number:	1838156
Attn:	John Gibson	P.O.:			
Sampled By:	J Gibson	Acct code:			
Company:					

		Reference Number	944114-1	944114-2	944114-3	
		Sample Date	Jun 26, 2013	Jun 26, 2013	Jun 26, 2013	
		Sample Time	NA	NA	NA	
		Sample Location	Stream Sed.	Stream Sed.	Stream Sed.	
		Sample Description	Keg #1 / Sed #1	Keg #1 / Sed #2	Keg #1 / Sed #3	
		Matrix	Soil	Soil	Soil	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Particle Size Analysis - Wet Sieve						
75 micron sieve	% Retained	% by weight	94.3	89.2	88.8	0.1
Texture			Coarse-Grained	Coarse-Grained	Coarse-Grained	
Metals						
Aluminum		ug/g	16800	19000	20100	1
Antimony		ug/g	4.91	4.40	5.16	0.5
Arsenic		ug/g	20.0	30.1	29.5	0.2
Barium		ug/g	551	568	596	0.03
Beryllium		ug/g	0.687	0.753	0.714	0.02
Bismuth		ug/g	<0.5	<0.5	<0.5	0.5
Cadmium		ug/g	2.19	1.79	1.85	0.05
Calcium		ug/g	9290	9650	10700	2
Chromium		ug/g	36.6	41.3	40.7	0.04
Cobalt		ug/g	10.2	10.7	11.6	0.05
Copper		ug/g	32.7	29.6	34.2	0.05
Iron		ug/g	24800	26700	23800	1
Lead		ug/g	18.1	22.4	19.0	0.3
Lithium		ug/g	21.0	22.5	21.0	0.1
Magnesium		ug/g	4940	4960	5400	10
Manganese		ug/g	537	522	594	0.3
Molybdenum		ug/g	1.88	2.14	1.74	0.05
Nickel		ug/g	48.4	47.6	51.0	0.1
Phosphorus		ug/g	928	872	843	0.5
Potassium		ug/g	1980	2100	2270	5
Selenium		ug/g	1.04	1.67	1.73	0.3
Silver		ug/g	<0.15	<0.15	<0.15	0.2
Sodium		ug/g	276	306	416	1
Strontium		ug/g	59.0	59.1	76.2	0.02
Sulfur		ug/g	606	603	608	1
Thallium		ug/g	<0.25	<0.25	<0.25	0.3
Tin		ug/g	1.42	0.85	1.04	0.4
Titanium		ug/g	525	645	656	0.05
Vanadium		ug/g	67.9	69.2	81.4	0.2
Zinc		ug/g	161	166	173	0.1
Zirconium		ug/g	4.59	5.32	4.90	0.05

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J Gibson
Company:

Project:
ID: Silver Range (SRR)
Name: KEG
Location:
LSD:
P.O.:
Acct code:

Lot ID: **944114**
Control Number: B05945
Date Received: Jul 2, 2013
Date Reported: Jul 10, 2013
Report Number: 1838156

	Reference Number	944114-4	944114-5	944114-6	
	Sample Date	Jun 26, 2013	Jun 26, 2013	Jun 26, 2013	
	Sample Time	NA	NA	NA	
	Sample Location	Stream Sed.	Stream Sed.	Stream Sed.	
	Sample Description	Keg #11 / Sed #1	Keg #11 / Sed #2	Keg #11 / Sed #3	
	Matrix	Soil	Soil	Soil	
Analyte	**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Particle Size Analysis - Wet Sieve					
75 micron sieve % Retained	% by weight	92.8	95.2	93.7	0.1
Texture		Coarse-Grained	Coarse-Grained	Coarse-Grained	
Metals					
Aluminum	ug/g	7480	7650	7540	1
Antimony	ug/g	2.06	3.37	3.36	0.5
Arsenic	ug/g	16.1	16.4	16.8	0.2
Barium	ug/g	584	570	442	0.03
Beryllium	ug/g	0.481	0.533	0.497	0.02
Bismuth	ug/g	<0.5	<0.5	<0.5	0.5
Cadmium	ug/g	1.78	2.20	1.99	0.05
Calcium	ug/g	10000	10000	12500	2
Chromium	ug/g	12.7	14.1	14.2	0.04
Cobalt	ug/g	5.52	6.30	6.12	0.05
Copper	ug/g	16.9	18.3	17.8	0.05
Iron	ug/g	15400	16100	16100	1
Lead	ug/g	10.6	11.4	11.7	0.3
Lithium	ug/g	10.8	11.2	11.3	0.1
Magnesium	ug/g	3900	4310	4120	10
Manganese	ug/g	240	292	270	0.3
Molybdenum	ug/g	2.16	2.12	2.52	0.05
Nickel	ug/g	23.9	27.6	26.2	0.1
Phosphorus	ug/g	1020	836	992	0.5
Potassium	ug/g	1280	1380	1460	5
Selenium	ug/g	2.06	1.06	0.94	0.3
Silver	ug/g	<0.15	<0.15	<0.15	0.2
Sodium	ug/g	99.2	93.0	115	1
Strontium	ug/g	76.8	51.8	60.1	0.02
Sulfur	ug/g	597	600	450	1
Thallium	ug/g	<0.25	<0.25	<0.25	0.3
Tin	ug/g	0.84	0.68	0.50	0.4
Titanium	ug/g	162	156	145	0.05
Vanadium	ug/g	45.6	48.4	61.0	0.2
Zinc	ug/g	139	163	154	0.1
Zirconium	ug/g	4.73	4.34	4.08	0.05

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**944114**
Report To:	J. Gibson & Associates	ID:	Silver Range (SRR)	Control Number:	B05945
	Box 20913	Name:	KEG	Date Received:	Jul 2, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Jul 10, 2013
	Y1A 6P2	LSD:		Report Number:	1838156
Attn:	John Gibson	P.O.:			
Sampled By:	J Gibson	Acct code:			
Company:					

Approved by:

Mathieu Simoneau
Operations Manager

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Methodology and Notes

Bill To:	J. Gibson & Associates	Project:	
Report To:	J. Gibson & Associates	ID:	Silver Range (SRR)
	Box 20913	Name:	KEG
	Whitehorse, YT, Canada	Location:	
	Y1A 6P2	LSD:	
Attn:	John Gibson	P.O.:	
Sampled By:	J Gibson	Acct code:	
Company:			

Lot ID:	**944114**
Control Number:	B05945
Date Received:	Jul 2, 2013
Date Reported:	Jul 10, 2013
Report Number:	1838156

Method of Analysis

Method Name	Reference		Method	Date Analysis Started	Location
Metals in solids (Surrey)	US EPA	*	Metals & Trace Elements by ICP-AES, 6010C	04-Jul-13	Exova Surrey
Particle Size by Wet Sieve	ASTM	*	Standard Test Method for Materials Finer than 75-um (No. 200) Sieve in Mineral Aggregates by Washing, C 117 -04	05-Jul-13	Exova Edmonton

** Reference Method Modified*

References

Carter	Soil Sampling and Methods of Analysis.
US EPA	US Environmental Protection Agency Test Methods

Comments:

Please direct any inquiries regarding this report to our Client Services group.
Results relate only to samples as submitted.
The test report shall not be reproduced except in full, without the written approval of the laboratory.

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Project Information

Project ID: SILVER RANGE SRD
Project Name: KEG
Project Location:
Legal Location:
PO/AFE#:
Proj. Acct. Code:

Billing Information

Company: J. Gibson & Associates
Address:
Whitehorse, YT Y1A 6P2
Attention: John Gibson
Phone: (867) 633-4522
Cell:
Fax: (867) 668-6895
E-mail: ludditegibson@gmail.com
Agreement ID: 6646
Copy of report: X

Copy of Report To:

Company: J. Gibson & Associates
Address:
Whitehorse, YT Y1A 6P2
Attention: John Gibson
Phone: (867) 633-4522
Cell:
Fax: (867) 668-6895
E-mail: ludditegibson@gmail.com
Copy of invoice: X

RUSH Priority

Upon filling out this section, client accepts that surcharges will be applied to the analysis

Date Required
As Indicated | All Analysis

When "ASAP" is requested, turn around will default to a 100% RUSH priority, with pricing and turn around time to match. Please contact the lab prior to submitting RUSH samples.

Signature

Sample Custody (please print)

Sampled by: J GIBSON
Company:
I authorize Exova to proceed with the work indicated on this form:
Date: 1 July Initial: JG

This section for Lab use only

Date/Time stamp:

Report Results: E-mail / Mail; Online / Fax; PDF / Excel; QA/QC Report

Special Instructions/Comments (please include contact information including ph. # if different from above).

07-02-13P05:34 RCVD 10-1

Include Regulatory Requirements Below:

DK

	Sample Identification	Location	Depth IN CM M	Date/Time sampled	Matrix	Sampling Method	Number of Containers	METALS IN SOILS	AGGREGATE SIEVE ANALYSIS
1	KEG #1 SED #1			JUN 26	SOIL	GRAB	1	✓	✓
2	SED #2	STREAM	/				1	✓	✓
3	SED #3	SED					1	✓	✓
4									
5		↓							
6	KEG #11 SED #1						1	✓	✓
7	SED #2						1	✓	✓
8	SED #3						1	✓	✓
9									
10									
11									
12									
13									
14									
15									

Enter tests above (√ relevant samples below)

Indicate below any deficiencies in the condition of samples:

- Were Exova supplies used?
- Was there any damage to the shipping container?
- Were the containers packaged well?
- Were any extra samples received (document below)?
- Are samples within recommended holding times/temp?

ED 120-00

Environmental Sample Information Sheet

Note: Proper completion of this form is required in order to proceed with analysis

Please indicate any potentially hazardous samples

Page of Control # B05945

Indicate

LOT: 944114 COC

Shipping:
D Y/N
Cooler temp:
0-1

and size of coolers received:
Delivery Method:
Waybill:
Received by:

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Report Transmission Cover Page

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**944053**
Report To:	J. Gibson & Associates	ID:	Silver Range (SRR)	Control Number:	B05946
	Box 20913	Name:	KEG	Date Received:	Jul 2, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Jul 11, 2013
	Y1A 6P2	LSD:		Report Number:	1838090
Attn:	John Gibson	P.O.:			
Sampled By:	J Gibson	Acct code:			
Company:					

Contact & Affiliation	Address	Delivery Commitments
John Gibson J. Gibson & Associates	, Box 20913 Whitehorse, Yukon Territory Y1A 6P2 Phone: (867) 633-4522 Fax: (867) 668-6895 Email: ludditegibson@gmail.com	On [Lot Verification] send (COA) by Email - Single Report On [Report Approval] send (COC, Test Report) by Email - Merge Reports On [Report Approval] send (Test Report) by Email - Single Report On [Lot Approval and Final Test Report Approval] send (Invoice) by Email - Single Report On [Lot Creation] send (COR) by Email - Single Report

Notes To Clients:

- Analysis was performed on sample 944053-1 to 13 that exceeded the recommended holding time for nitrite/nitrate anions analysis.
- Sample 944053-14; 4467941 Some total metal results were less than dissolved metal results for 944053. The results were verified and are within expected measurement uncertainty.
- pH analysis was performed past the recommended holding time of 15 minutes from sample collection.

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J Gibson
Company:

Project:
ID: Silver Range (SRR)
Name: KEG
Location:
LSD:
P.O.:
Acct code:

Lot ID: **944053**
Control Number: B05946
Date Received: Jul 2, 2013
Date Reported: Jul 11, 2013
Report Number: 1838090

	Reference Number	944053-1	944053-2	944053-3	
	Sample Date	Jun 26, 2013	Jun 26, 2013	Jun 26, 2013	
	Sample Time	NA	NA	NA	
	Sample Location	Surface	Surface	Surface	
	Sample Description	Keg #1	Keg #2	Keg #3	
	Matrix	Water	Water	Water	
Analyte	**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Inorganic Nonmetallic Parameters					
Organic Carbon Total Nonpurgeable	mg/L	7.4	19.2	6.6	0.5
Cyanide Total	mg/L	<0.002	<0.002	<0.002	0.002
Phosphorus Total	mg/L	0.022	0.016	0.005	0.003
Ammonia - N	mg/L	<0.01	0.02	<0.01	.01
Metals Dissolved					
Sulfur Dissolved	mg/L	10.6	5.6	1.2	0.2
Aluminum Dissolved	mg/L	0.023	0.086	0.019	0.005
Antimony Dissolved	mg/L	<0.0002	0.0004	<0.0002	0.0002
Arsenic Dissolved	mg/L	0.0014	0.0022	0.0008	0.0002
Barium Dissolved	mg/L	0.046	0.032	0.031	0.001
Beryllium Dissolved	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Boron Dissolved	mg/L	0.009	0.008	0.005	0.004
Cadmium Dissolved	mg/L	0.00004	0.00022	0.00002	0.00001
Chromium Dissolved	mg/L	<0.0004	0.0005	<0.0004	0.0004
Cobalt Dissolved	mg/L	0.00014	0.00019	0.00004	0.00002
Copper Dissolved	mg/L	0.002	0.005	<0.001	0.001
Lead Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Lithium Dissolved	mg/L	0.003	0.001	0.006	0.001
Molybdenum Dissolved	mg/L	0.00130	0.00061	0.00066	0.0001
Nickel Dissolved	mg/L	0.003	0.003	0.001	0.001
Selenium Dissolved	mg/L	<0.0006	<0.0006	<0.0006	0.0006
Silver Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Titanium Dissolved	mg/L	<0.010	<0.010	<0.010	0.01
Strontium Dissolved	mg/L	0.094	0.055	0.049	0.001
Tellurium Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Thorium Dissolved	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Uranium Dissolved	mg/L	0.0014	<0.0004	0.0012	0.0004
Vanadium Dissolved	mg/L	0.00042	0.00042	0.00028	0.0001
Zinc Dissolved	mg/L	0.003	0.011	<0.001	0.001
Zirconium Dissolved	mg/L	0.00037	0.00056	0.00028	0.0001
Metals Total					
Calcium Total	mg/L	45.2	32.8	16.8	0.05
Iron Total	mg/L	0.609	0.492	0.066	0.01

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W: www.exova.com

Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**944053**
Report To:	J. Gibson & Associates	ID:	Silver Range (SRR)	Control Number:	B05946
	Box 20913	Name:	KEG	Date Received:	Jul 2, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Jul 11, 2013
	Y1A 6P2	LSD:		Report Number:	1838090
Attn:	John Gibson	P.O.:			
Sampled By:	J Gibson	Acct code:			
Company:					

		Reference Number	944053-1	944053-2	944053-3	
		Sample Date	Jun 26, 2013	Jun 26, 2013	Jun 26, 2013	
		Sample Time	NA	NA	NA	
		Sample Location	Surface	Surface	Surface	
		Sample Description	Keg #1	Keg #2	Keg #3	
		Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Total - Continued						
Magnesium	Total	mg/L	5.14	2.45	2.47	0.05
Manganese	Total	mg/L	0.0227	0.0424	<0.0050	0.005
Potassium	Total	mg/L	2.11	0.41	0.91	0.1
Silicon	Total	mg/L	4.91	6.24	4.48	0.05
Sulfur	Total	mg/L	11.0	5.9	1.3	0.1
Sodium	Total	mg/L	2.52	1.28	1.98	0.02
Titanium	Total	mg/L	0.0195	0.0078	0.0073	0.001
Aluminum	Total	mg/L	0.412	0.183	0.057	0.005
Antimony	Total	mg/L	0.0002	0.0005	<0.0002	0.0002
Arsenic	Total	mg/L	0.0021	0.0031	0.0009	0.0002
Barium	Total	mg/L	0.060	0.040	0.036	0.001
Beryllium	Total	mg/L	<0.00004	0.00004	<0.00004	0.00004
Bismuth	Total	mg/L	<0.001	<0.001	<0.001	0.001
Boron	Total	mg/L	0.009	0.008	<0.005	0.004
Cadmium	Total	mg/L	0.00008	0.00027	0.00001	0.00001
Chromium	Total	mg/L	0.0009	<0.0004	<0.0004	0.0004
Cobalt	Total	mg/L	0.00039	0.00028	0.00006	0.00002
Copper	Total	mg/L	0.003	0.007	0.001	0.001
Lead	Total	mg/L	0.0004	0.0007	<0.0001	0.0001
Lithium	Total	mg/L	0.004	0.001	0.006	0.001
Mercury	Total	mg/L	0.00002	0.00001	0.00002	0.00001
Molybdenum	Total	mg/L	0.0014	0.0007	0.0008	0.0001
Nickel	Total	mg/L	0.004	0.003	0.001	0.001
Selenium	Total	mg/L	<0.0006	<0.0006	<0.0006	0.0006
Silver	Total	mg/L	0.00001	<0.00001	<0.00001	0.00001
Strontium	Total	mg/L	0.10	0.059	0.053	0.001
Tellurium	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium	Total	mg/L	0.00001	<0.00001	<0.00001	0.00001
Thorium	Total	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin	Total	mg/L	<0.0001	<0.0001	0.0004	0.0001
Uranium	Total	mg/L	0.0015	<0.0004	0.0012	0.0004
Vanadium	Total	mg/L	0.0017	0.0007	0.0004	0.0001
Zinc	Total	mg/L	0.007	0.019	0.003	0.001
Zirconium	Total	mg/L	0.0005	0.0009	0.0003	0.0001
Physical and Aggregate Properties						
Solids	Total Suspended	mg/L	13	<2	<2	1

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**944053**
Report To:	J. Gibson & Associates	ID:	Silver Range (SRR)	Control Number:	B05946
	Box 20913	Name:	KEG	Date Received:	Jul 2, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Jul 11, 2013
	Y1A 6P2	LSD:		Report Number:	1838090
Attn:	John Gibson	P.O.:			
Sampled By:	J Gibson	Acct code:			
Company:					

			Reference Number	944053-1	944053-2	944053-3	
			Sample Date	Jun 26, 2013	Jun 26, 2013	Jun 26, 2013	
			Sample Time	NA	NA	NA	
			Sample Location	Surface	Surface	Surface	
			Sample Description	Keg #1	Keg #2	Keg #3	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Physical and Aggregate Properties - Continued							
Solids	Total Dissolved	mg/L		138	102	38	5
Routine Water							
pH	at 25 °C			7.94	6.96	7.76	
Electrical Conductivity		µS/cm at 25 C		239	155	96	1
Calcium	Dissolved	mg/L		43.1	31.2	16.1	0.1
Iron	Dissolved	mg/L		0.114	0.256	0.037	0.005
Magnesium	Dissolved	mg/L		4.79	2.33	2.40	0.1
Manganese	Dissolved	mg/L		0.007	0.035	<0.001	0.001
Potassium	Dissolved	mg/L		2.0	0.5	0.8	0.1
Silicon	Dissolved	mg/L		4.24	5.89	4.22	0.05
Sodium	Dissolved	mg/L		2.5	1.2	2.1	0.1
Bicarbonate		mg/L		113	73	56	5
Carbonate		mg/L		<6	<6	<6	6
Hydroxide		mg/L		<5	<5	<5	5
P-Alkalinity	as CaCO3	mg/L		<5	<5	<5	5
T-Alkalinity	as CaCO3	mg/L		92	60	46	5
Chloride	Dissolved	mg/L		0.38	0.07	0.06	0.05
Nitrate - N	Dissolved	mg/L		0.07	<0.01	<0.01	0.01
Nitrite - N	Dissolved	mg/L		0.02	<0.01	<0.01	0.01
Sulfate (SO4)	Dissolved	mg/L		34.3	17.8	3.8	0.5
Hardness	as CaCO3	mg/L		127	87	50	5
Hardness	Total	mg CaCO3/L		134	92.0	52.1	1

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J Gibson
Company:

Project:
ID: Silver Range (SRR)
Name: KEG
Location:
LSD:
P.O.:
Acct code:

Lot ID: **944053**
Control Number: B05946
Date Received: Jul 2, 2013
Date Reported: Jul 11, 2013
Report Number: 1838090

	Reference Number	944053-4	944053-5	944053-6	
	Sample Date	Jun 26, 2013	Jun 26, 2013	Jun 26, 2013	
	Sample Time	NA	NA	NA	
	Sample Location	Surface	Surface	Surface	
	Sample Description	Keg #4	Keg #5	Keg #6	
	Matrix	Water	Water	Water	
Analyte	**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Inorganic Nonmetallic Parameters					
Organic Carbon Total Nonpurgeable	mg/L	7.3	16.1	13.0	0.5
Cyanide Total	mg/L	<0.002	<0.002	<0.002	0.002
Phosphorus Total	mg/L	0.031	0.009	0.012	0.003
Ammonia - N	mg/L	0.02	0.02	0.04	.01
Metals Dissolved					
Sulfur Dissolved	mg/L	8.3	9.9	33.4	0.2
Aluminum Dissolved	mg/L	0.022	0.063	0.214	0.005
Antimony Dissolved	mg/L	<0.0002	0.0005	0.0003	0.0002
Arsenic Dissolved	mg/L	0.0014	0.0031	0.0009	0.0002
Barium Dissolved	mg/L	0.048	0.024	0.040	0.001
Beryllium Dissolved	mg/L	<0.00004	0.00004	0.00010	0.00004
Bismuth Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Boron Dissolved	mg/L	0.008	0.026	0.006	0.004
Cadmium Dissolved	mg/L	0.00003	0.00010	0.00013	0.00001
Chromium Dissolved	mg/L	0.0005	0.0004	<0.0004	0.0004
Cobalt Dissolved	mg/L	0.00010	0.00009	0.00281	0.00002
Copper Dissolved	mg/L	0.002	0.006	0.004	0.001
Lead Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Lithium Dissolved	mg/L	0.003	0.002	0.007	0.001
Molybdenum Dissolved	mg/L	0.00130	0.00280	0.00011	0.0001
Nickel Dissolved	mg/L	0.002	0.003	0.032	0.001
Selenium Dissolved	mg/L	<0.0006	0.0008	<0.0006	0.0006
Silver Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Titanium Dissolved	mg/L	<0.010	<0.010	<0.010	0.01
Strontium Dissolved	mg/L	0.086	0.073	0.063	0.001
Tellurium Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium Dissolved	mg/L	<0.00001	<0.00001	0.00002	0.00001
Thorium Dissolved	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Uranium Dissolved	mg/L	0.0015	<0.0004	<0.0004	0.0004
Vanadium Dissolved	mg/L	0.00050	0.00071	0.00012	0.0001
Zinc Dissolved	mg/L	0.002	0.004	0.072	0.001
Zirconium Dissolved	mg/L	0.00024	0.00058	0.00035	0.0001
Metals Total					
Calcium Total	mg/L	42.4	39.2	47.3	0.05
Iron Total	mg/L	0.798	0.151	6.16	0.01

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J Gibson
Company:

Project:
ID: Silver Range (SRR)
Name: KEG
Location:
LSD:
P.O.:
Acct code:

Lot ID: **944053**
Control Number: B05946
Date Received: Jul 2, 2013
Date Reported: Jul 11, 2013
Report Number: 1838090

			Reference Number	944053-4	944053-5	944053-6	
			Sample Date	Jun 26, 2013	Jun 26, 2013	Jun 26, 2013	
			Sample Time	NA	NA	NA	
			Sample Location	Surface	Surface	Surface	
			Sample Description	Keg #4	Keg #5	Keg #6	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Total - Continued							
Magnesium	Total	mg/L		5.05	3.00	4.63	0.05
Manganese	Total	mg/L		0.0355	<0.0050	0.104	0.005
Potassium	Total	mg/L		2.32	0.50	1.32	0.1
Silicon	Total	mg/L		4.99	7.04	4.83	0.05
Sulfur	Total	mg/L		8.8	10.2	34.2	0.1
Sodium	Total	mg/L		2.33	2.09	1.63	0.02
Titanium	Total	mg/L		0.0208	0.0072	0.0053	0.001
Aluminum	Total	mg/L		0.560	0.119	0.540	0.005
Antimony	Total	mg/L		0.0002	0.0005	0.0004	0.0002
Arsenic	Total	mg/L		0.0024	0.0034	0.0028	0.0002
Barium	Total	mg/L		0.064	0.029	0.049	0.001
Beryllium	Total	mg/L		<0.00004	<0.00004	0.00022	0.00004
Bismuth	Total	mg/L		<0.001	<0.001	<0.001	0.001
Boron	Total	mg/L		0.008	0.026	0.006	0.004
Cadmium	Total	mg/L		0.00008	0.00012	0.00014	0.00001
Chromium	Total	mg/L		0.0014	<0.0004	<0.0004	0.0004
Cobalt	Total	mg/L		0.00048	0.00012	0.00332	0.00002
Copper	Total	mg/L		0.003	0.007	0.007	0.001
Lead	Total	mg/L		0.0005	0.0001	0.0002	0.0001
Lithium	Total	mg/L		0.004	0.002	0.008	0.001
Mercury	Total	mg/L		0.00001	0.00002	0.00002	0.00001
Molybdenum	Total	mg/L		0.0014	0.0031	0.0002	0.0001
Nickel	Total	mg/L		0.003	0.003	0.036	0.001
Selenium	Total	mg/L		<0.0006	0.0007	<0.0006	0.0006
Silver	Total	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Strontium	Total	mg/L		0.095	0.077	0.068	0.001
Tellurium	Total	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Thallium	Total	mg/L		0.00001	<0.00001	0.00003	0.00001
Thorium	Total	mg/L		<0.0004	<0.0004	<0.0004	0.0004
Tin	Total	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Uranium	Total	mg/L		0.0016	0.0004	<0.0004	0.0004
Vanadium	Total	mg/L		0.0022	0.0009	0.0005	0.0001
Zinc	Total	mg/L		0.005	0.003	0.085	0.001
Zirconium	Total	mg/L		0.0003	0.0009	0.0005	0.0001
Physical and Aggregate Properties							
Solids	Total Suspended	mg/L		15	<2	6	1

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**944053**
Report To:	J. Gibson & Associates	ID:	Silver Range (SRR)	Control Number:	B05946
	Box 20913	Name:	KEG	Date Received:	Jul 2, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Jul 11, 2013
	Y1A 6P2	LSD:		Report Number:	1838090
Attn:	John Gibson	P.O.:			
Sampled By:	J Gibson	Acct code:			
Company:					

		Reference Number	944053-4	944053-5	944053-6	
		Sample Date	Jun 26, 2013	Jun 26, 2013	Jun 26, 2013	
		Sample Time	NA	NA	NA	
		Sample Location	Surface	Surface	Surface	
		Sample Description	Keg #4	Keg #5	Keg #6	
		Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Physical and Aggregate Properties - Continued						
Solids	Total Dissolved	mg/L	124	142	202	5
Routine Water						
pH	at 25 °C		7.90	7.85	6.82	
Electrical Conductivity		µS/cm at 25 C	232	196	270	1
Calcium	Dissolved	mg/L	40.8	37.5	45.5	0.1
Iron	Dissolved	mg/L	0.111	0.082	2.20	0.005
Magnesium	Dissolved	mg/L	4.74	2.92	4.54	0.1
Manganese	Dissolved	mg/L	0.013	<0.001	0.089	0.001
Potassium	Dissolved	mg/L	2.0	0.5	1.2	0.1
Silicon	Dissolved	mg/L	4.13	6.65	4.51	0.05
Sodium	Dissolved	mg/L	2.4	2.1	1.6	0.1
Bicarbonate		mg/L	114	82	28	5
Carbonate		mg/L	<6	<6	<6	6
Hydroxide		mg/L	<5	<5	<5	5
P-Alkalinity	as CaCO3	mg/L	<5	<5	<5	5
T-Alkalinity	as CaCO3	mg/L	93	67	23	5
Chloride	Dissolved	mg/L	0.11	0.08	0.14	0.05
Nitrate - N	Dissolved	mg/L	0.06	0.14	0.05	0.01
Nitrite - N	Dissolved	mg/L	<0.01	<0.01	<0.01	0.01
Sulfate (SO4)	Dissolved	mg/L	27.2	31.2	103	0.5
Hardness	as CaCO3	mg/L	121	106	132	5
Hardness	Total	mg CaCO3/L	127	110	137	1

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J Gibson
Company:

Project:
ID: Silver Range (SRR)
Name: KEG
Location:
LSD:
P.O.:
Acct code:

Lot ID: **944053**
Control Number: B05946
Date Received: Jul 2, 2013
Date Reported: Jul 11, 2013
Report Number: 1838090

	Reference Number	944053-7	944053-8	944053-9	
	Sample Date	Jun 26, 2013	Jun 26, 2013	Jun 26, 2013	
	Sample Time	NA	NA	NA	
	Sample Location	Surface	Surface	Surface	
	Sample Description	Keg #7	Keg #8	Keg #9	
	Matrix	Water	Water	Water	
Analyte	**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Inorganic Nonmetallic Parameters					
Organic Carbon Total Nonpurgeable	mg/L	10.5	6.7	6.9	0.5
Cyanide Total	mg/L	<0.002	<0.002	<0.002	0.002
Phosphorus Total	mg/L	0.023	<0.003	0.030	0.003
Ammonia - N	mg/L	0.03	0.02	0.02	.01
Metals Dissolved					
Sulfur Dissolved	mg/L	41.2	19.7	13.7	0.2
Aluminum Dissolved	mg/L	0.017	0.006	0.025	0.005
Antimony Dissolved	mg/L	0.0009	0.0006	0.0002	0.0002
Arsenic Dissolved	mg/L	0.0026	0.0013	0.0016	0.0002
Barium Dissolved	mg/L	0.047	0.045	0.056	0.001
Beryllium Dissolved	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Boron Dissolved	mg/L	0.019	0.006	0.006	0.004
Cadmium Dissolved	mg/L	0.00008	0.00002	0.00005	0.00001
Chromium Dissolved	mg/L	0.0005	0.0004	0.0006	0.0004
Cobalt Dissolved	mg/L	0.00023	0.00011	0.00011	0.00002
Copper Dissolved	mg/L	0.002	<0.001	0.001	0.001
Lead Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Lithium Dissolved	mg/L	0.001	0.002	0.004	0.001
Molybdenum Dissolved	mg/L	0.00202	0.00145	0.00120	0.0001
Nickel Dissolved	mg/L	0.004	0.002	0.002	0.001
Selenium Dissolved	mg/L	0.0024	0.0010	0.0007	0.0006
Silver Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Titanium Dissolved	mg/L	<0.010	<0.010	<0.010	0.01
Strontium Dissolved	mg/L	0.231	0.208	0.123	0.001
Tellurium Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium Dissolved	mg/L	0.00001	<0.00001	<0.00001	0.00001
Thorium Dissolved	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Uranium Dissolved	mg/L	0.0017	0.0010	0.0015	0.0004
Vanadium Dissolved	mg/L	0.00039	0.00020	0.00046	0.0001
Zinc Dissolved	mg/L	0.003	0.001	0.002	0.001
Zirconium Dissolved	mg/L	0.00036	0.00020	0.00018	0.0001
Metals Total					
Calcium Total	mg/L	91.3	70.1	46.1	0.05
Iron Total	mg/L	0.676	0.042	0.523	0.01

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J Gibson
Company:

Project:
ID: Silver Range (SRR)
Name: KEG
Location:
LSD:
P.O.:
Acct code:

Lot ID: **944053**
Control Number: B05946
Date Received: Jul 2, 2013
Date Reported: Jul 11, 2013
Report Number: 1838090

	Reference Number	944053-7	944053-8	944053-9	
	Sample Date	Jun 26, 2013	Jun 26, 2013	Jun 26, 2013	
	Sample Time	NA	NA	NA	
	Sample Location	Surface	Surface	Surface	
	Sample Description	Keg #7	Keg #8	Keg #9	
	Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Total - Continued						
Magnesium	Total	mg/L	10.0	5.73	6.72	0.05
Manganese	Total	mg/L	0.0566	<0.0050	0.0326	0.005
Potassium	Total	mg/L	2.40	1.40	1.50	0.1
Silicon	Total	mg/L	5.28	4.88	4.50	0.05
Sulfur	Total	mg/L	43.5	20.6	14.5	0.1
Sodium	Total	mg/L	3.63	1.98	2.88	0.02
Titanium	Total	mg/L	0.0093	0.0019	0.0032	0.001
Aluminum	Total	mg/L	0.133	0.012	0.181	0.005
Antimony	Total	mg/L	0.001	0.0006	0.0003	0.0002
Arsenic	Total	mg/L	0.0037	0.0013	0.0021	0.0002
Barium	Total	mg/L	0.067	0.052	0.073	0.001
Beryllium	Total	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Total	mg/L	<0.001	<0.001	<0.001	0.001
Boron	Total	mg/L	0.021	0.007	0.007	0.004
Cadmium	Total	mg/L	0.00011	0.00002	0.00009	0.00001
Chromium	Total	mg/L	0.0006	<0.0004	<0.0004	0.0004
Cobalt	Total	mg/L	0.00039	0.00011	0.00027	0.00002
Copper	Total	mg/L	0.004	0.001	0.002	0.001
Lead	Total	mg/L	0.0004	<0.0001	0.0004	0.0001
Lithium	Total	mg/L	0.002	0.002	0.004	0.001
Mercury	Total	mg/L	0.00002	<0.00001	<0.00001	0.00001
Molybdenum	Total	mg/L	0.0023	0.0016	0.0014	0.0001
Nickel	Total	mg/L	0.005	0.003	0.003	0.001
Selenium	Total	mg/L	0.0027	0.0009	<0.0006	0.0006
Silver	Total	mg/L	0.00001	<0.00001	<0.00001	0.00001
Strontium	Total	mg/L	0.247	0.225	0.134	0.001
Tellurium	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium	Total	mg/L	0.00002	<0.00001	<0.00001	0.00001
Thorium	Total	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Uranium	Total	mg/L	0.0018	0.0011	0.0016	0.0004
Vanadium	Total	mg/L	0.0016	0.0001	0.0011	0.0001
Zinc	Total	mg/L	0.008	<0.001	0.005	0.001
Zirconium	Total	mg/L	0.0006	0.0002	0.0003	0.0001
Physical and Aggregate Properties						
Solids	Total Suspended	mg/L	5	<2	8	1

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**944053**
Report To:	J. Gibson & Associates	ID:	Silver Range (SRR)	Control Number:	B05946
	Box 20913	Name:	KEG	Date Received:	Jul 2, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Jul 11, 2013
	Y1A 6P2	LSD:		Report Number:	1838090
Attn:	John Gibson	P.O.:			
Sampled By:	J Gibson	Acct code:			
Company:					

		Reference Number	944053-7	944053-8	944053-9	
		Sample Date	Jun 26, 2013	Jun 26, 2013	Jun 26, 2013	
		Sample Time	NA	NA	NA	
		Sample Location	Surface	Surface	Surface	
		Sample Description	Keg #7	Keg #8	Keg #9	
		Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Physical and Aggregate Properties - Continued						
Solids	Total Dissolved	mg/L	350	228	174	5
Routine Water						
pH	at 25 °C		7.82	7.86	7.94	
Electrical Conductivity		µS/cm at 25 C	481	351	264	1
Calcium	Dissolved	mg/L	88.2	68.2	45.7	0.1
Iron	Dissolved	mg/L	0.187	0.036	0.162	0.005
Magnesium	Dissolved	mg/L	9.60	5.63	6.65	0.1
Manganese	Dissolved	mg/L	0.049	0.002	0.018	0.001
Potassium	Dissolved	mg/L	2.3	1.3	1.4	0.1
Silicon	Dissolved	mg/L	4.70	4.63	4.14	0.05
Sodium	Dissolved	mg/L	3.1	2.4	2.6	0.1
Bicarbonate		mg/L	152	155	116	5
Carbonate		mg/L	<6	<6	<6	6
Hydroxide		mg/L	<5	<5	<5	5
P-Alkalinity	as CaCO3	mg/L	<5	<5	<5	5
T-Alkalinity	as CaCO3	mg/L	124	127	95	5
Chloride	Dissolved	mg/L	0.11	0.06	0.12	0.05
Nitrate - N	Dissolved	mg/L	<0.01	0.02	0.06	0.01
Nitrite - N	Dissolved	mg/L	<0.01	<0.01	0.02	0.01
Sulfate (SO4)	Dissolved	mg/L	133	63.2	44.8	0.5
Hardness	as CaCO3	mg/L	260	194	142	5
Hardness	Total	mg CaCO3/L	269	199	143	1

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**944053**
Report To:	J. Gibson & Associates	ID:	Silver Range (SRR)	Control Number:	B05946
	Box 20913	Name:	KEG	Date Received:	Jul 2, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Jul 11, 2013
	Y1A 6P2	LSD:		Report Number:	1838090
Attn:	John Gibson	P.O.:			
Sampled By:	J Gibson	Acct code:			
Company:					

		Reference Number	944053-10	944053-11	944053-12	
		Sample Date	Jun 26, 2013	Jun 26, 2013	Jun 26, 2013	
		Sample Time	NA	NA	NA	
		Sample Location	Surface	Surface	Surface	
		Sample Description	Keg #10	Keg #11	Keg #12	
		Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Inorganic Nonmetallic Parameters						
Organic Carbon	Total Nonpurgeable	mg/L	17.9	6.5	4.8	0.5
Cyanide	Total	mg/L	<0.002	<0.002	<0.002	0.002
Phosphorus	Total	mg/L	0.141	0.006	0.007	0.003
Ammonia - N		mg/L	0.02	<0.01	0.02	.01
Metals Dissolved						
Sulfur	Dissolved	mg/L	23.6	33.3	33.8	0.2
Aluminum	Dissolved	mg/L	0.077	0.035	0.008	0.005
Antimony	Dissolved	mg/L	0.0009	0.0004	0.0004	0.0002
Arsenic	Dissolved	mg/L	0.0018	0.0009	0.0005	0.0002
Barium	Dissolved	mg/L	0.036	0.044	0.050	0.001
Beryllium	Dissolved	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Boron	Dissolved	mg/L	<0.004	0.006	<0.004	0.004
Cadmium	Dissolved	mg/L	0.00010	0.00028	0.00028	0.00001
Chromium	Dissolved	mg/L	0.0004	0.0005	0.0006	0.0004
Cobalt	Dissolved	mg/L	0.00022	0.00015	0.00013	0.00002
Copper	Dissolved	mg/L	0.003	0.001	0.001	0.001
Lead	Dissolved	mg/L	0.0003	<0.0001	<0.0001	0.0001
Lithium	Dissolved	mg/L	0.002	0.002	0.003	0.001
Molybdenum	Dissolved	mg/L	0.00126	0.00100	0.00128	0.0001
Nickel	Dissolved	mg/L	0.004	0.004	0.004	0.001
Selenium	Dissolved	mg/L	<0.0006	0.0015	0.0032	0.0006
Silver	Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Titanium	Dissolved	mg/L	<0.010	<0.010	<0.010	0.01
Strontium	Dissolved	mg/L	0.154	0.172	0.229	0.001
Tellurium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium	Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Thorium	Dissolved	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Uranium	Dissolved	mg/L	0.0006	0.0017	0.0015	0.0004
Vanadium	Dissolved	mg/L	0.00072	0.00030	0.00031	0.0001
Zinc	Dissolved	mg/L	0.009	0.008	0.018	0.001
Zirconium	Dissolved	mg/L	0.00038	0.00020	0.00017	0.0001
Metals Total						
Calcium	Total	mg/L	44.0	71.7	78.4	0.05
Iron	Total	mg/L	2.23	0.064	0.066	0.01

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J Gibson
Company:

Project:
ID: Silver Range (SRR)
Name: KEG
Location:
LSD:
P.O.:
Acct code:

Lot ID: **944053**
Control Number: B05946
Date Received: Jul 2, 2013
Date Reported: Jul 11, 2013
Report Number: 1838090

	Reference Number	944053-10	944053-11	944053-12	
	Sample Date	Jun 26, 2013	Jun 26, 2013	Jun 26, 2013	
	Sample Time	NA	NA	NA	
	Sample Location	Surface	Surface	Surface	
	Sample Description	Keg #10	Keg #11	Keg #12	
	Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Total - Continued						
Magnesium	Total	mg/L	10.6	12.3	10.8	0.05
Manganese	Total	mg/L	0.0964	<0.0050	<0.0050	0.005
Potassium	Total	mg/L	0.94	1.27	1.12	0.1
Silicon	Total	mg/L	4.89	3.46	3.17	0.05
Sulfur	Total	mg/L	24.8	34.5	35.6	0.1
Sodium	Total	mg/L	2.29	2.08	1.16	0.02
Titanium	Total	mg/L	0.0208	0.0085	0.0018	0.001
Aluminum	Total	mg/L	1.47	0.069	0.034	0.005
Antimony	Total	mg/L	0.0014	0.0004	0.0004	0.0002
Arsenic	Total	mg/L	0.0063	0.001	0.0006	0.0002
Barium	Total	mg/L	0.10	0.050	0.057	0.001
Beryllium	Total	mg/L	0.00008	<0.00004	<0.00004	0.00004
Bismuth	Total	mg/L	<0.001	<0.001	<0.001	0.001
Boron	Total	mg/L	<0.005	0.006	0.005	0.004
Cadmium	Total	mg/L	0.00047	0.00031	0.00027	0.00001
Chromium	Total	mg/L	0.0019	<0.0004	<0.0004	0.0004
Cobalt	Total	mg/L	0.00124	0.00017	0.00016	0.00002
Copper	Total	mg/L	0.009	0.002	0.001	0.001
Lead	Total	mg/L	0.0047	<0.0001	0.0001	0.0001
Lithium	Total	mg/L	0.003	0.002	0.004	0.001
Mercury	Total	mg/L	0.00003	<0.00001	<0.00001	0.00001
Molybdenum	Total	mg/L	0.0016	0.0012	0.0014	0.0001
Nickel	Total	mg/L	0.009	0.004	0.005	0.001
Selenium	Total	mg/L	<0.0006	0.0016	0.0026	0.0006
Silver	Total	mg/L	0.00004	<0.00001	<0.00001	0.00001
Strontium	Total	mg/L	0.173	0.187	0.242	0.001
Tellurium	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium	Total	mg/L	0.00004	<0.00001	0.00001	0.00001
Thorium	Total	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin	Total	mg/L	<0.0001	0.0012	<0.0001	0.0001
Uranium	Total	mg/L	0.0009	0.0019	0.0015	0.0004
Vanadium	Total	mg/L	0.0065	0.0004	0.0003	0.0001
Zinc	Total	mg/L	0.040	0.009	0.021	0.001
Zirconium	Total	mg/L	0.0009	0.0003	0.0002	0.0001
Physical and Aggregate Properties						
Solids	Total Suspended	mg/L	99	<2	<2	1

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**944053**
Report To:	J. Gibson & Associates	ID:	Silver Range (SRR)	Control Number:	B05946
	Box 20913	Name:	KEG	Date Received:	Jul 2, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Jul 11, 2013
	Y1A 6P2	LSD:		Report Number:	1838090
Attn:	John Gibson	P.O.:			
Sampled By:	J Gibson	Acct code:			
Company:					

			Reference Number	944053-10	944053-11	944053-12	
			Sample Date	Jun 26, 2013	Jun 26, 2013	Jun 26, 2013	
			Sample Time	NA	NA	NA	
			Sample Location	Surface	Surface	Surface	
			Sample Description	Keg #10	Keg #11	Keg #12	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Physical and Aggregate Properties - Continued							
Solids	Total Dissolved	mg/L		206	286	292	5
Routine Water							
pH	at 25 °C			7.71	8.04	8.13	
Electrical Conductivity		µS/cm at 25 C		270	400	441	1
Calcium	Dissolved	mg/L		41.9	68.5	78.9	0.1
Iron	Dissolved	mg/L		0.286	0.032	0.043	0.005
Magnesium	Dissolved	mg/L		9.94	11.8	10.9	0.1
Manganese	Dissolved	mg/L		0.023	<0.001	0.001	0.001
Potassium	Dissolved	mg/L		0.8	1.1	1.1	0.1
Silicon	Dissolved	mg/L		3.40	3.30	3.07	0.05
Sodium	Dissolved	mg/L		1.8	1.8	1.6	0.1
Bicarbonate		mg/L		72	132	150	5
Carbonate		mg/L		<6	<6	<6	6
Hydroxide		mg/L		<5	<5	<5	5
P-Alkalinity	as CaCO3	mg/L		<5	<5	<5	5
T-Alkalinity	as CaCO3	mg/L		59	108	123	5
Chloride	Dissolved	mg/L		0.43	0.11	0.08	0.05
Nitrate - N	Dissolved	mg/L		0.02	0.09	0.14	0.01
Nitrite - N	Dissolved	mg/L		<0.01	<0.01	<0.01	0.01
Sulfate (SO4)	Dissolved	mg/L		77.3	106	113	0.5
Hardness	as CaCO3	mg/L		146	220	242	5
Hardness	Total	mg CaCO3/L		153	230	240	1

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**944053**
Report To:	J. Gibson & Associates	ID:	Silver Range (SRR)	Control Number:	B05946
	Box 20913	Name:	KEG	Date Received:	Jul 2, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Jul 11, 2013
	Y1A 6P2	LSD:		Report Number:	1838090
Attn:	John Gibson	P.O.:			
Sampled By:	J Gibson	Acct code:			
Company:					

Reference Number	944053-13
Sample Date	Jun 26, 2013
Sample Time	NA
Sample Location	Surface
Sample Description	Keg #13
Matrix	Water

Analyte		Units	Results	Results	Results	Nominal Detection Limit
Inorganic Nonmetallic Parameters						
Organic Carbon	Total Nonpurgeable	mg/L	3.9			0.5
Cyanide	Total	mg/L	<0.002			0.002
Phosphorus	Total	mg/L	0.004			0.003
Ammonia - N		mg/L	0.02			.01
Physical and Aggregate Properties						
Solids	Total Suspended	mg/L	3			1
Solids	Total Dissolved	mg/L	272			5

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**944053**
Report To:	J. Gibson & Associates	ID:	Silver Range (SRR)	Control Number:	B05946
	Box 20913	Name:	KEG	Date Received:	Jul 2, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Jul 11, 2013
	Y1A 6P2	LSD:		Report Number:	1838090
Attn:	John Gibson	P.O.:			
Sampled By:	J Gibson	Acct code:			
Company:					

		Reference Number	944053-13	944053-14		
		Sample Date	Jun 26, 2013	Jun 26, 2013		
		Sample Time	NA	NA		
		Sample Location	Surface	Surface		
		Sample Description	Keg #13	Keg #11 Duplicate		
		Matrix	Water	Water		
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Dissolved						
Sulfur	Dissolved	mg/L	34.6	32.0		0.2
Aluminum	Dissolved	mg/L	0.049	0.038		0.005
Antimony	Dissolved	mg/L	0.0003	0.0004		0.0002
Arsenic	Dissolved	mg/L	0.0011	0.0009		0.0002
Barium	Dissolved	mg/L	0.052	0.044		0.001
Beryllium	Dissolved	mg/L	<0.00004	<0.00004		0.00004
Bismuth	Dissolved	mg/L	<0.001	<0.001		0.001
Boron	Dissolved	mg/L	<0.004	0.006		0.004
Cadmium	Dissolved	mg/L	0.00071	0.00026		0.00001
Chromium	Dissolved	mg/L	0.0004	0.0005		0.0004
Cobalt	Dissolved	mg/L	0.00025	0.00013		0.00002
Copper	Dissolved	mg/L	0.001	0.002		0.001
Lead	Dissolved	mg/L	<0.0001	<0.0001		0.0001
Lithium	Dissolved	mg/L	0.002	0.002		0.001
Molybdenum	Dissolved	mg/L	0.00075	0.00099		0.0001
Nickel	Dissolved	mg/L	0.006	0.004		0.001
Selenium	Dissolved	mg/L	0.0024	0.0018		0.0006
Silver	Dissolved	mg/L	<0.00001	<0.00001		0.00001
Titanium	Dissolved	mg/L	<0.010	<0.010		0.01
Strontium	Dissolved	mg/L	0.164	0.170		0.001
Tellurium	Dissolved	mg/L	<0.0001	<0.0001		0.0001
Thallium	Dissolved	mg/L	<0.00001	<0.00001		0.00001
Thorium	Dissolved	mg/L	<0.0004	<0.0004		0.0004
Tin	Dissolved	mg/L	<0.0001	<0.0001		0.0001
Uranium	Dissolved	mg/L	0.0019	0.0017		0.0004
Vanadium	Dissolved	mg/L	0.00026	0.00032		0.0001
Zinc	Dissolved	mg/L	0.022	0.01		0.001
Zirconium	Dissolved	mg/L	0.00013	0.00018		0.0001
Metals Total						
Calcium	Total	mg/L	67.2	70.4		0.05
Iron	Total	mg/L	0.047	0.072		0.01
Magnesium	Total	mg/L	14.5	12.2		0.05
Manganese	Total	mg/L	0.0241	0.0185		0.005
Potassium	Total	mg/L	1.08	1.22		0.1
Silicon	Total	mg/L	3.06	3.44		0.05
Sulfur	Total	mg/L	37.4	35.2		0.1

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**944053**
Report To:	J. Gibson & Associates	ID:	Silver Range (SRR)	Control Number:	B05946
	Box 20913	Name:	KEG	Date Received:	Jul 2, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Jul 11, 2013
	Y1A 6P2	LSD:		Report Number:	1838090
Attn:	John Gibson	P.O.:			
Sampled By:	J Gibson	Acct code:			
Company:					

		Reference Number	944053-13	944053-14		
		Sample Date	Jun 26, 2013	Jun 26, 2013		
		Sample Time	NA	NA		
		Sample Location	Surface	Surface		
		Sample Description	Keg #13	Keg #11 Duplicate		
		Matrix	Water	Water		
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Total - Continued						
Sodium	Total	mg/L	1.84	2.28		0.02
Titanium	Total	mg/L	0.0045	0.0043		0.001
Aluminum	Total	mg/L	0.091	0.079		0.005
Antimony	Total	mg/L	0.0004	0.0004		0.0002
Arsenic	Total	mg/L	0.0013	0.0009		0.0002
Barium	Total	mg/L	0.058	0.050		0.001
Beryllium	Total	mg/L	<0.00004	<0.00004		0.00004
Bismuth	Total	mg/L	<0.001	<0.001		0.001
Boron	Total	mg/L	<0.005	0.005		0.004
Cadmium	Total	mg/L	0.00071	0.00028		0.00001
Chromium	Total	mg/L	<0.0004	<0.0004		0.0004
Cobalt	Total	mg/L	0.00031	0.00018		0.00002
Copper	Total	mg/L	0.002	0.002		0.001
Lead	Total	mg/L	<0.0001	<0.0001		0.0001
Lithium	Total	mg/L	0.002	0.002		0.001
Mercury	Total	mg/L	<0.00001	0.00003		0.00001
Molybdenum	Total	mg/L	0.0009	0.0012		0.0001
Nickel	Total	mg/L	0.007	0.004		0.001
Selenium	Total	mg/L	0.0023	0.0017		0.0006
Silver	Total	mg/L	<0.00001	<0.00001		0.00001
Strontium	Total	mg/L	0.178	0.185		0.001
Tellurium	Total	mg/L	<0.0001	<0.0001		0.0001
Thallium	Total	mg/L	0.00001	<0.00001		0.00001
Thorium	Total	mg/L	<0.0004	<0.0004		0.0004
Tin	Total	mg/L	<0.0001	<0.0001		0.0001
Uranium	Total	mg/L	0.0020	0.0018		0.0004
Vanadium	Total	mg/L	0.0003	0.0004		0.0001
Zinc	Total	mg/L	0.024	0.009		0.001
Zirconium	Total	mg/L	0.0002	0.0002		0.0001
Routine Water						
pH	at 25 °C		8.09			
Electrical Conductivity		µS/cm at 25 C	411			1
Calcium	Dissolved	mg/L	64.5	68.0		0.1
Iron	Dissolved	mg/L	0.025	0.035		0.005
Magnesium	Dissolved	mg/L	13.9	11.6		0.1
Manganese	Dissolved	mg/L	0.001	<0.001		0.001

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J Gibson
Company:

Project:
ID: Silver Range (SRR)
Name: KEG
Location:
LSD:
P.O.:
Acct code:

Lot ID: **944053**
Control Number: B05946
Date Received: Jul 2, 2013
Date Reported: Jul 11, 2013
Report Number: 1838090

		Reference Number	944053-13	944053-14		
		Sample Date	Jun 26, 2013	Jun 26, 2013		
		Sample Time	NA	NA		
		Sample Location	Surface	Surface		
		Sample Description	Keg #13	Keg #11 Duplicate		
		Matrix	Water	Water		
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Routine Water - Continued						
Potassium	Dissolved	mg/L	1.0	1.1		0.1
Silicon	Dissolved	mg/L	2.87	3.26		0.05
Sodium	Dissolved	mg/L	1.5	1.8		0.1
Bicarbonate		mg/L	126			5
Carbonate		mg/L	<6			6
Hydroxide		mg/L	<5			5
P-Alkalinity	as CaCO3	mg/L	<5			5
T-Alkalinity	as CaCO3	mg/L	103			5
Chloride	Dissolved	mg/L	0.08			0.05
Nitrate - N	Dissolved	mg/L	0.13			0.01
Nitrite - N	Dissolved	mg/L	<0.01			0.01
Sulfate (SO4)	Dissolved	mg/L	113			0.5
Hardness	as CaCO3	mg/L	218	218		5
Hardness	Total	mg CaCO3/L	227			1

Approved by:
Mathieu Simoneau
Operations Manager

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Methodology and Notes

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**944053**
Report To:	J. Gibson & Associates	ID:	Silver Range (SRR)	Control Number:	B05946
	Box 20913	Name:	KEG	Date Received:	Jul 2, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Jul 11, 2013
	Y1A 6P2	LSD:		Report Number:	1838090
Attn:	John Gibson	P.O.:			
Sampled By:	J Gibson	Acct code:			
Company:					

Method of Analysis

Method Name	Reference	Method	Date Analysis Started	Location
Alk, pH, EC, Turb in water (Surrey)	APHA	* Alkalinity - Titration Method, 2320 B	03-Jul-13	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	* Conductivity, 2510 B	03-Jul-13	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	* pH - Electrometric Method, 4500-H+ B	03-Jul-13	Exova Surrey
Ammonia-N in Water (Surrey)	APHA	* Flow Injection Analysis, 4500-NH3 H	04-Jul-13	Exova Surrey
Anions by IEC in water (Surrey)	APHA	* Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	03-Jul-13	Exova Surrey
Carbon Organic (Total) in water (TOC)	APHA	High-Temperature Combustion Method, 5310 B	05-Jul-13	Exova Edmonton
Cyanide (Total) in water	US EPA	* US EPA method, 335.3	05-Jul-13	Exova Edmonton
Mercury Low Level (Total) in water (Surrey)	EPA	* Mercury in Water by Cold Vapor Atomic Fluorescence Spectrometry, 245.7	08-Jul-13	Exova Surrey
Metals SemiTrace (Dissolved) in water (Surrey)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	04-Jul-13	Exova Surrey
Metals SemiTrace (Total) in Water (Surrey)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	03-Jul-13	Exova Surrey
Phosphorus - total (low level) - Surrey	APHA	* Preliminary Acid Hydrolysis, Ascorbic Acid Reduction Method, 4500-P B,E	03-Jul-13	Exova Surrey
Solids Dissolved (Total, Fixed and Volatile) - Surrey	APHA	* Total Dissolved Solids Dried at 180 C, 2540 C	04-Jul-13	Exova Surrey
Solids Suspended (Total, Fixed and Volatile)	APHA	* Total Suspended Solids Dried at 103-105'C, 2540 D	03-Jul-13	Exova Surrey
Trace Metals (dissolved) in Water (Surrey)	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	04-Jul-13	Exova Surrey
Trace Metals (dissolved) in Water (Surrey)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	04-Jul-13	Exova Surrey
Trace Metals (Total) in Water (Surrey)	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	03-Jul-13	Exova Surrey
Trace Metals (Total) in Water (Surrey)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	03-Jul-13	Exova Surrey

** Reference Method Modified*

References

APHA	Standard Methods for the Examination of Water and Wastewater
US EPA	US Environmental Protection Agency Test Methods

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Methodology and Notes

Bill To:	J. Gibson & Associates	Project:	
Report To:	J. Gibson & Associates	ID:	Silver Range (SRR)
	Box 20913	Name:	KEG
	Whitehorse, YT, Canada	Location:	
	Y1A 6P2	LSD:	
Attn:	John Gibson	P.O.:	
Sampled By:	J Gibson	Acct code:	
Company:			

Lot ID:	**944053**
Control Number:	B05946
Date Received:	Jul 2, 2013
Date Reported:	Jul 11, 2013
Report Number:	1838090

Comments:

- Analysis was performed on sample 944053-1 to 13 that exceeded the recommended holding time for nitrite/nitrate anions analysis.
- Sample 944053-14; 4467941 Some total metal results were less than dissolved metal results for 944053. The results were verified and are within expected measurement uncertainty.
- pH analysis was performed past the recommended holding time of 15 minutes from sample collection.

Please direct any inquiries regarding this report to our Client Services group.
Results relate only to samples as submitted.
The test report shall not be reproduced except in full, without the written approval of the laboratory.

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www.exova.com

Project Information

Project ID: SILVER RANGE (SRR)
Project Name: KEG.
Project Location:
Legal Location:
PO/AFE#:
Proj. Acct. Code:

Billing Information

Company: J. Gibson & Associates
Address: Whitehorse, YT Y1A 6P2
Attention: John Gibson
Phone: (867) 633-4522
Cell:
Fax: (867) 668-6895
E-mail: ludditegibson@gmail.com
Agreement ID: 6646
Copy of report: X

Copy of Report To:

Company: J. Gibson & Associates
Address: Whitehorse, YT Y1A 6P2
Attention: John Gibson
Phone: (867) 633-4522
Cell:
Fax: (867) 668-6895
E-mail: ludditegibson@gmail.com
Copy of invoice: X

RUSH Priority

Upon filling out this section, client accepts that surcharges will be applied to the analysis

Date Required
As Indicated | All Analysis

When "ASAP" is requested, turn around will default to a 100% RUSH priority, with pricing and turn around time to match. Please contact the lab prior to submitting RUSH samples.

Signature

Sample Custody (please print)

Sampled by: J. GIBSON
Company: —
I authorize Exova to proceed with the work indicated on this form:
Date: 1 July Initial: JG

This section for Lab use only

Date/Time stamp: 07-02-13P05:34 RCVD 10.1

Report Results: E-mail / Mail / Online / Fax / PDF / Excel / QA/QC Report

Special Instructions/Comments (please include contact information including ph. # if different from above).
RCHEM = pH, EG, TP, N_2, N_3, TALK, Cl, SO4, THARD, TSS, TDS
METALS + NITRIC, TW23'S FIELD FILTERED
NH4 + SULFURIC, TCN + NaOH, TOC + HCL

Include Regulatory Requirements Below: OK

	Sample Identification	Location	Depth IN CM M	Date/Time sampled	Matrix	Sampling Method	Number of Containers	RCHEM	NH4	TOC	TCN	TW23 ow F	TW24 ow + THg
1	KEG #1	SURF	—	JUN 26+27	H_2O	Grab	6	✓	✓	✓	✓	✓	✓
2	#2	↓					6	✓	✓	✓	✓	✓	✓
3	#3						6	✓	✓	✓	✓	✓	✓
4	#4						6	✓	✓	✓	✓	✓	✓
5	#5						6	✓	✓	✓	✓	✓	✓
6	#6						6	✓	✓	✓	✓	✓	✓
7	#7		07-02-	3P05:34 RCVD			6	✓	✓	✓	✓	✓	✓
8	#8						6	✓	✓	✓	✓	✓	✓
9	#9						6	✓	✓	✓	✓	✓	✓
10	#10						6	✓	✓	✓	✓	✓	✓
11	#11						6	✓	✓	✓	✓	✓	✓
12	#12						6	✓	✓	✓	✓	✓	✓
13	KEG #13						6	✓	✓	✓	✓	✓	✓
14	KEG #11 DUPLICATE						2					✓	✓
15													

Enter tests above (√ relevant samples below)

Indicate below any deficiencies in the condition of samples:

- Were Exova supplies used?
- Was there any damage to the shipping container?
- Were the containers packaged well?
- Were any extra samples received (document below)?
- Are samples within recommended holding times/temp?

ED 120-00

Environmental Sample Information Sheet

Note: Proper completion of this form is required in order to proceed with analysis

Please indicate any potentially hazardous samples

Page 1 of 1 Control # B05946

Inc LOT: 944053 COC

Shipping: COD Y/N
Cooler temp:

and size of coolers received:
Delivery Method:
Waybill:
Received by:

Exova
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Surrey, British Columbia
V3S 8P8, Canada

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Report Transmission Cover Page

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**948647**
Report To:	J. Gibson & Associates	ID:	Silver Range Res.	Control Number:	B05954
	Box 20913	Name:	KEG Project	Date Received:	Jul 24, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Jul 30, 2013
	Y1A 6P2	LSD:		Report Number:	1843808
Attn:	John Gibson	P.O.:			
Sampled By:	J.Gibson	Acct code:			
Company:	J.Gibson				

Contact & Affiliation	Address	Delivery Commitments
John Gibson J. Gibson & Associates	, Box 20913 Whitehorse, Yukon Territory Y1A 6P2 Phone: (867) 633-4522 Fax: (867) 668-6895 Email: ludditegibson@gmail.com	On [Lot Verification] send (COA) by Email - Single Report On [Report Approval] send (COC, Test Report) by Email - Merge Reports On [Report Approval] send (Test Report) by Email - Single Report On [Lot Approval and Final Test Report Approval] send (Invoice) by Email - Single Report On [Lot Creation] send (COR) by Email - Single Report

Notes To Clients:

- Te could not be reported due to instrument failure.
- Some total metal results were less than dissolved metal results for lot 948647. The results were verified and are within expected measurement uncertainty.
- pH analysis was performed past the recommended holding time of 15 minutes from sample collection.

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J.Gibson
Company: J.Gibson

Project:
ID: Silver Range Res.
Name: KEG Project
Location:
LSD:
P.O.:
Acct code:

Lot ID: **948647**
Control Number: B05954
Date Received: Jul 24, 2013
Date Reported: Jul 30, 2013
Report Number: 1843808

	Reference Number	948647-1	948647-2	948647-3	
	Sample Date	Jul 22, 2013	Jul 22, 2013	Jul 22, 2013	
	Sample Time	NA	NA	NA	
	Sample Location				
	Sample Description	REG #1 / Surface Water	REG #2 / Surface Water	REG #3 / Surface Water	
	Matrix				
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Inorganic Nonmetallic Parameters						
Organic Carbon	Total Nonpurgeable	mg/L	13.7	31.8	15.4	0.5
Cyanide	Total	mg/L	<0.002	<0.002	<0.002	0.002
Phosphorus	Total	mg/L	0.062	0.016	0.013	0.003
Ammonia - N		mg/L	<0.01	<0.01	0.02	.01
Nitrate - N		mg/L	0.03	<0.01	<0.01	0.01
Nitrite - N		mg/L	<0.005	0.005	<0.005	0.005
Metals Dissolved						
Sulfur	Dissolved	mg/L	7.4	2.6	1.9	0.2
Aluminum	Dissolved	mg/L	0.039	0.180	0.039	0.005
Antimony	Dissolved	mg/L	0.0002	0.0008	<0.0002	0.0002
Arsenic	Dissolved	mg/L	0.0013	0.0018	0.0008	0.0002
Barium	Dissolved	mg/L	0.039	0.021	0.038	0.001
Beryllium	Dissolved	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Boron	Dissolved	mg/L	0.005	0.004	0.004	0.004
Cadmium	Dissolved	mg/L	0.00005	0.00014	0.00002	0.00001
Chromium	Dissolved	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Cobalt	Dissolved	mg/L	0.00009	0.00006	0.00004	0.00002
Copper	Dissolved	mg/L	0.003	0.006	0.002	0.001
Lead	Dissolved	mg/L	<0.0001	0.0001	<0.0001	0.0001
Lithium	Dissolved	mg/L	0.003	<0.001	0.005	0.001
Molybdenum	Dissolved	mg/L	0.00077	0.00020	0.00040	0.0001
Nickel	Dissolved	mg/L	0.002	0.002	<0.001	0.001
Selenium	Dissolved	mg/L	<0.0006	<0.0006	<0.0006	0.0006
Silver	Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Titanium	Dissolved	mg/L	<0.010	<0.010	<0.010	0.01
Strontium	Dissolved	mg/L	0.069	0.031	0.056	0.001
Thallium	Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Thorium	Dissolved	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Uranium	Dissolved	mg/L	0.0008	<0.0004	0.0011	0.0004
Vanadium	Dissolved	mg/L	0.00041	0.00048	0.00026	0.0001
Zinc	Dissolved	mg/L	0.003	0.010	0.002	0.001
Zirconium	Dissolved	mg/L	0.00030	0.00053	0.00027	0.0001
Metals Total						
Calcium	Total	mg/L	37.5	19.8	21.6	0.05

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J.Gibson
Company: J.Gibson

Project:
ID: Silver Range Res.
Name: KEG Project
Location:
LSD:
P.O.:
Acct code:

Lot ID: **948647**
Control Number: B05954
Date Received: Jul 24, 2013
Date Reported: Jul 30, 2013
Report Number: 1843808

		Reference Number	948647-1	948647-2	948647-3	
		Sample Date	Jul 22, 2013	Jul 22, 2013	Jul 22, 2013	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	REG #1 / Surface	REG #2 / Surface	REG #3 / Surface	
		Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Total - Continued						
Iron	Total	mg/L	1.55	0.392	0.238	0.01
Magnesium	Total	mg/L	4.67	1.48	3.23	0.05
Manganese	Total	mg/L	0.0509	0.0065	0.0073	0.005
Potassium	Total	mg/L	1.92	0.18	0.71	0.1
Silicon	Total	mg/L	6.69	6.55	6.31	0.05
Sulfur	Total	mg/L	7.6	2.6	2.0	0.1
Sodium	Total	mg/L	2.26	1.10	2.11	0.02
Titanium	Total	mg/L	0.0415	0.0023	0.0035	0.001
Aluminum	Total	mg/L	0.930	0.267	0.163	0.005
Antimony	Total	mg/L	0.0004	0.0004	<0.0002	0.0002
Arsenic	Total	mg/L	0.0032	0.0028	0.0011	0.0002
Barium	Total	mg/L	0.074	0.027	0.048	0.001
Beryllium	Total	mg/L	0.00006	<0.00004	<0.00004	0.00004
Bismuth	Total	mg/L	<0.001	<0.001	<0.001	0.001
Boron	Total	mg/L	0.007	<0.005	<0.005	0.004
Cadmium	Total	mg/L	0.00017	0.00019	0.00004	0.00001
Chromium	Total	mg/L	0.0031	0.0005	<0.0004	0.0004
Cobalt	Total	mg/L	0.00081	0.00006	0.00007	0.00002
Copper	Total	mg/L	0.008	0.007	0.002	0.001
Lead	Total	mg/L	0.0011	0.0006	0.0002	0.0001
Lithium	Total	mg/L	0.004	<0.001	0.006	0.001
Mercury	Total	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Molybdenum	Total	mg/L	0.0011	0.0003	0.0006	0.0001
Nickel	Total	mg/L	0.008	0.003	0.001	0.001
Selenium	Total	mg/L	0.0007	<0.0006	<0.0006	0.0006
Silver	Total	mg/L	0.00001	<0.00001	<0.00001	0.00001
Strontium	Total	mg/L	0.088	0.036	0.064	0.001
Thallium	Total	mg/L	0.00002	<0.00001	<0.00001	0.00001
Thorium	Total	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Uranium	Total	mg/L	0.0012	<0.0004	0.0014	0.0004
Vanadium	Total	mg/L	0.0044	0.0008	0.0007	0.0001
Zinc	Total	mg/L	0.012	0.012	0.003	0.001
Zirconium	Total	mg/L	0.0003	0.0005	0.0002	0.0001
Physical and Aggregate Properties						
Solids	Total Suspended	mg/L	41	<2	5	1

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J.Gibson
Company: J.Gibson

Project:
ID: Silver Range Res.
Name: KEG Project
Location:
LSD:
P.O.:
Acct code:

Lot ID: **948647**
Control Number: B05954
Date Received: Jul 24, 2013
Date Reported: Jul 30, 2013
Report Number: 1843808

		Reference Number	948647-1	948647-2	948647-3	
		Sample Date	Jul 22, 2013	Jul 22, 2013	Jul 22, 2013	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	REG #1 / Surface	REG #2 / Surface	REG #3 / Surface	
		Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Physical and Aggregate Properties - Continued						
Solids	Total Dissolved	mg/L	120	86	76	5
Routine Water						
pH	at 25 °C		7.82	7.18	7.74	
Electrical Conductivity		µS/cm at 25 C	196	85	116	1
Calcium	Dissolved	mg/L	34.5	18.8	20.3	0.1
Iron	Dissolved	mg/L	0.153	0.209	0.073	0.005
Magnesium	Dissolved	mg/L	4.02	1.39	3.08	0.1
Manganese	Dissolved	mg/L	0.012	0.002	0.001	0.001
Potassium	Dissolved	mg/L	1.7	0.2	0.7	0.1
Silicon	Dissolved	mg/L	4.86	6.12	5.72	0.05
Sodium	Dissolved	mg/L	2.3	1.1	2.2	0.1
Bicarbonate		mg/L	97	41	68	5
Carbonate		mg/L	<6	<6	<6	6
Hydroxide		mg/L	<5	<5	<5	5
P-Alkalinity	as CaCO3	mg/L	<5	<5	<5	5
T-Alkalinity	as CaCO3	mg/L	79	34	56	5
Chloride	Dissolved	mg/L	0.08	0.06	0.28	0.05
Sulfate (SO4)	Dissolved	mg/L	23.7	7.6	5.4	0.5
Hardness	as CaCO3	mg/L	103	52	63	5
Hardness	Total	mg CaCO3/L	113	55.6	67.3	1

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**948647**
Report To:	J. Gibson & Associates	ID:	Silver Range Res.	Control Number:	B05954
	Box 20913	Name:	KEG Project	Date Received:	Jul 24, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Jul 30, 2013
	Y1A 6P2	LSD:		Report Number:	1843808
Attn:	John Gibson	P.O.:			
Sampled By:	J.Gibson	Acct code:			
Company:	J.Gibson				

			Reference Number	948647-4	948647-5	948647-6	
			Sample Date	Jul 22, 2013	Jul 22, 2013	Jul 22, 2013	
			Sample Time	NA	NA	NA	
			Sample Location				
			Sample Description	REG #4 / Surface	REG #5 / Surface	REG #6 / Surface	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Inorganic Nonmetallic Parameters							
Organic Carbon	Total Nonpurgeable	mg/L		13.8	28.3	12.2	0.5
Cyanide	Total	mg/L		<0.002	0.002	<0.002	0.002
Phosphorus	Total	mg/L		0.064	0.012	0.004	0.003
Ammonia - N		mg/L		0.02	0.03	0.05	.01
Nitrate - N		mg/L		0.02	0.11	0.03	0.01
Nitrite - N		mg/L		<0.005	0.005	<0.005	0.005
Metals Dissolved							
Sulfur	Dissolved	mg/L		6.0	4.0	35.5	0.2
Aluminum	Dissolved	mg/L		0.034	0.220	0.214	0.005
Antimony	Dissolved	mg/L		0.0002	0.0004	0.0004	0.0002
Arsenic	Dissolved	mg/L		0.0013	0.0026	0.0009	0.0002
Barium	Dissolved	mg/L		0.047	0.022	0.045	0.001
Beryllium	Dissolved	mg/L		<0.00004	<0.00004	0.00011	0.00004
Bismuth	Dissolved	mg/L		<0.001	<0.001	<0.001	0.001
Boron	Dissolved	mg/L		0.006	0.010	0.005	0.004
Cadmium	Dissolved	mg/L		0.00004	0.00014	0.00012	0.00001
Chromium	Dissolved	mg/L		<0.0004	0.0004	<0.0004	0.0004
Cobalt	Dissolved	mg/L		0.00007	0.00012	0.00298	0.00002
Copper	Dissolved	mg/L		0.003	0.006	0.005	0.001
Lead	Dissolved	mg/L		<0.0001	0.0001	0.0002	0.0001
Lithium	Dissolved	mg/L		0.003	<0.001	0.008	0.001
Molybdenum	Dissolved	mg/L		0.00079	0.00064	<0.00010	0.0001
Nickel	Dissolved	mg/L		0.002	0.002	0.036	0.001
Selenium	Dissolved	mg/L		<0.0006	0.0007	0.0006	0.0006
Silver	Dissolved	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Titanium	Dissolved	mg/L		<0.010	<0.010	<0.010	0.01
Strontium	Dissolved	mg/L		0.075	0.037	0.063	0.001
Thallium	Dissolved	mg/L		<0.00001	<0.00001	0.00002	0.00001
Thorium	Dissolved	mg/L		<0.0004	<0.0004	<0.0004	0.0004
Tin	Dissolved	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Uranium	Dissolved	mg/L		0.0010	<0.0004	<0.0004	0.0004
Vanadium	Dissolved	mg/L		0.00044	0.00106	<0.00010	0.0001
Zinc	Dissolved	mg/L		0.002	0.004	0.078	0.001
Zirconium	Dissolved	mg/L		0.00024	0.00058	0.00028	0.0001
Metals Total							
Calcium	Total	mg/L		34.4	21.0	47.5	0.05

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J.Gibson
Company: J.Gibson

Project:
ID: Silver Range Res.
Name: KEG Project
Location:
LSD:
P.O.:
Acct code:

Lot ID: **948647**
Control Number: B05954
Date Received: Jul 24, 2013
Date Reported: Jul 30, 2013
Report Number: 1843808

			Reference Number	948647-4	948647-5	948647-6	
			Sample Date	Jul 22, 2013	Jul 22, 2013	Jul 22, 2013	
			Sample Time	NA	NA	NA	
			Sample Location				
			Sample Description	REG #4 / Surface	REG #5 / Surface	REG #6 / Surface	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Total - Continued							
Iron	Total	mg/L		1.14	1.91	3.27	0.01
Magnesium	Total	mg/L		4.51	1.90	4.82	0.05
Manganese	Total	mg/L		0.0390	0.0428	0.106	0.005
Potassium	Total	mg/L		1.85	0.51	1.17	0.1
Silicon	Total	mg/L		6.17	8.90	5.29	0.05
Sulfur	Total	mg/L		6.1	4.0	35.2	0.1
Sodium	Total	mg/L		2.21	1.31	1.62	0.02
Titanium	Total	mg/L		0.0374	0.0316	<0.0010	0.001
Aluminum	Total	mg/L		0.701	1.31	0.254	0.005
Antimony	Total	mg/L		0.0003	0.0006	0.0004	0.0002
Arsenic	Total	mg/L		0.0022	0.0048	0.0011	0.0002
Barium	Total	mg/L		0.067	0.085	0.044	0.001
Beryllium	Total	mg/L		<0.00004	0.00009	0.00010	0.00004
Bismuth	Total	mg/L		<0.001	<0.0010	<0.001	0.001
Boron	Total	mg/L		0.007	0.010	0.005	0.004
Cadmium	Total	mg/L		0.00009	0.00040	0.00013	0.00001
Chromium	Total	mg/L		0.0024	0.0022	<0.0004	0.0004
Cobalt	Total	mg/L		0.00061	0.00083	0.00314	0.00002
Copper	Total	mg/L		0.007	0.011	0.006	0.001
Lead	Total	mg/L		0.0007	0.0025	<0.0001	0.0001
Lithium	Total	mg/L		0.004	0.003	0.008	0.001
Mercury	Total	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Molybdenum	Total	mg/L		0.001	0.0009	<0.0001	0.0001
Nickel	Total	mg/L		0.014	0.005	0.036	0.001
Selenium	Total	mg/L		<0.0006	0.0008	<0.0006	0.0006
Silver	Total	mg/L		<0.00001	0.00004	<0.00001	0.00001
Strontium	Total	mg/L		0.082	0.045	0.067	0.001
Thallium	Total	mg/L		0.00002	0.00003	0.00002	0.00001
Thorium	Total	mg/L		<0.0004	<0.0004	<0.0004	0.0004
Tin	Total	mg/L		<0.0001	0.0001	0.0002	0.0001
Uranium	Total	mg/L		0.0011	<0.0004	<0.0004	0.0004
Vanadium	Total	mg/L		0.0031	0.0060	0.0002	0.0001
Zinc	Total	mg/L		0.062	0.023	0.078	0.001
Zirconium	Total	mg/L		0.0003	0.0006	0.0003	0.0001
Physical and Aggregate Properties							
Solids	Total Suspended	mg/L		34	78	<2	1

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**948647**
Report To:	J. Gibson & Associates	ID:	Silver Range Res.	Control Number:	B05954
	Box 20913	Name:	KEG Project	Date Received:	Jul 24, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Jul 30, 2013
	Y1A 6P2	LSD:		Report Number:	1843808
Attn:	John Gibson	P.O.:			
Sampled By:	J.Gibson	Acct code:			
Company:	J.Gibson				

			Reference Number	948647-4	948647-5	948647-6	
			Sample Date	Jul 22, 2013	Jul 22, 2013	Jul 22, 2013	
			Sample Time	NA	NA	NA	
			Sample Location				
			Sample Description	REG #4 / Surface	REG #5 / Surface	REG #6 / Surface	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Physical and Aggregate Properties - Continued							
Solids	Total Dissolved	mg/L		112	92	200	5
Routine Water							
pH	at 25 °C			7.82	7.43	6.86	
Electrical Conductivity		µS/cm at 25 C		187	94	277	1
Calcium	Dissolved	mg/L		32.6	19.0	45.5	0.1
Iron	Dissolved	mg/L		0.137	0.244	2.76	0.005
Magnesium	Dissolved	mg/L		4.05	1.48	4.64	0.1
Manganese	Dissolved	mg/L		0.017	0.005	0.106	0.001
Potassium	Dissolved	mg/L		1.7	0.2	1.2	0.1
Silicon	Dissolved	mg/L		4.84	6.74	4.97	0.05
Sodium	Dissolved	mg/L		2.3	1.2	1.5	0.1
Bicarbonate		mg/L		95	39	22	5
Carbonate		mg/L		<6	<6	<6	6
Hydroxide		mg/L		<5	<5	<5	5
P-Alkalinity	as CaCO3	mg/L		<5	<5	<5	5
T-Alkalinity	as CaCO3	mg/L		78	32	18	5
Chloride	Dissolved	mg/L		0.12	0.06	0.21	0.05
Sulfate (SO4)	Dissolved	mg/L		18.7	12.2	114	0.5
Hardness	as CaCO3	mg/L		98	54	133	5
Hardness	Total	mg CaCO3/L		104	60.3	138	1

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**948647**
Report To:	J. Gibson & Associates	ID:	Silver Range Res.	Control Number:	B05954
	Box 20913	Name:	KEG Project	Date Received:	Jul 24, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Jul 30, 2013
	Y1A 6P2	LSD:		Report Number:	1843808
Attn:	John Gibson	P.O.:			
Sampled By:	J.Gibson	Acct code:			
Company:	J.Gibson				

Reference Number	948647-7
Sample Date	Jul 22, 2013
Sample Time	NA
Sample Location	
Sample Description	REG #9 / Surface
Matrix	Water

Analyte		Units	Results	Results	Results	Nominal Detection Limit
Inorganic Nonmetallic Parameters						
Organic Carbon	Total Nonpurgeable	mg/L	12.0			0.5
Cyanide	Total	mg/L	<0.002			0.002
Phosphorus	Total	mg/L	0.126			0.003
Ammonia - N		mg/L	<0.01			.01
Nitrate - N		mg/L	0.02			0.01
Nitrite - N		mg/L	<0.005			0.005
Metals Dissolved						
Sulfur	Dissolved	mg/L	13.1			0.2
Aluminum	Dissolved	mg/L	0.046			0.005
Antimony	Dissolved	mg/L	0.0004			0.0002
Arsenic	Dissolved	mg/L	0.0015			0.0002
Barium	Dissolved	mg/L	0.056			0.001
Beryllium	Dissolved	mg/L	<0.00004			0.00004
Bismuth	Dissolved	mg/L	<0.001			0.001
Boron	Dissolved	mg/L	0.006			0.004
Cadmium	Dissolved	mg/L	0.00006			0.00001
Chromium	Dissolved	mg/L	<0.0004			0.0004
Cobalt	Dissolved	mg/L	0.00009			0.00002
Copper	Dissolved	mg/L	0.002			0.001
Lead	Dissolved	mg/L	<0.0001			0.0001
Lithium	Dissolved	mg/L	0.004			0.001
Molybdenum	Dissolved	mg/L	0.00093			0.0001
Nickel	Dissolved	mg/L	0.002			0.001
Selenium	Dissolved	mg/L	0.0009			0.0006
Silver	Dissolved	mg/L	<0.00001			0.00001
Titanium	Dissolved	mg/L	<0.010			0.01
Strontium	Dissolved	mg/L	0.113			0.001
Thallium	Dissolved	mg/L	<0.00001			0.00001
Thorium	Dissolved	mg/L	<0.0004			0.0004
Tin	Dissolved	mg/L	0.0007			0.0001
Uranium	Dissolved	mg/L	0.0013			0.0004
Vanadium	Dissolved	mg/L	0.00045			0.0001
Zinc	Dissolved	mg/L	0.003			0.001
Zirconium	Dissolved	mg/L	0.00033			0.0001
Metals Total						
Calcium	Total	mg/L	44.6			0.05

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**948647**
Report To:	J. Gibson & Associates	ID:	Silver Range Res.	Control Number:	B05954
	Box 20913	Name:	KEG Project	Date Received:	Jul 24, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Jul 30, 2013
	Y1A 6P2	LSD:		Report Number:	1843808
Attn:	John Gibson	P.O.:			
Sampled By:	J.Gibson	Acct code:			
Company:	J.Gibson				

Reference Number	948647-7
Sample Date	Jul 22, 2013
Sample Time	NA
Sample Location	
Sample Description	REG #9 / Surface
Matrix	Water

Analyte		Units	Results	Results	Results	Nominal Detection Limit
Metals Total - Continued						
Iron	Total	mg/L	2.43			0.01
Magnesium	Total	mg/L	6.45			0.05
Manganese	Total	mg/L	0.0960			0.005
Potassium	Total	mg/L	1.54			0.1
Silicon	Total	mg/L	7.18			0.05
Sulfur	Total	mg/L	13.1			0.1
Sodium	Total	mg/L	2.46			0.02
Titanium	Total	mg/L	0.0315			0.001
Aluminum	Total	mg/L	1.12			0.005
Antimony	Total	mg/L	0.0006			0.0002
Arsenic	Total	mg/L	0.0043			0.0002
Barium	Total	mg/L	0.125			0.001
Beryllium	Total	mg/L	0.00008			0.00004
Bismuth	Total	mg/L	<0.001			0.001
Boron	Total	mg/L	0.006			0.004
Cadmium	Total	mg/L	0.00027			0.00001
Chromium	Total	mg/L	0.0027			0.0004
Cobalt	Total	mg/L	0.00087			0.00002
Copper	Total	mg/L	0.006			0.001
Lead	Total	mg/L	0.0019			0.0001
Lithium	Total	mg/L	0.005			0.001
Mercury	Total	mg/L	<0.00001			0.00001
Molybdenum	Total	mg/L	0.0011			0.0001
Nickel	Total	mg/L	0.006			0.001
Selenium	Total	mg/L	0.0011			0.0006
Silver	Total	mg/L	0.00003			0.00001
Strontium	Total	mg/L	0.122			0.001
Thallium	Total	mg/L	0.00003			0.00001
Thorium	Total	mg/L	<0.0004			0.0004
Tin	Total	mg/L	<0.0001			0.0001
Uranium	Total	mg/L	0.0014			0.0004
Vanadium	Total	mg/L	0.0054			0.0001
Zinc	Total	mg/L	0.020			0.001
Zirconium	Total	mg/L	0.0004			0.0001
Physical and Aggregate Properties						
Solids	Total Suspended	mg/L	77			1

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**948647**
Report To:	J. Gibson & Associates	ID:	Silver Range Res.	Control Number:	B05954
	Box 20913	Name:	KEG Project	Date Received:	Jul 24, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Jul 30, 2013
	Y1A 6P2	LSD:		Report Number:	1843808
Attn:	John Gibson	P.O.:			
Sampled By:	J.Gibson	Acct code:			
Company:	J.Gibson				

Reference Number	948647-7
Sample Date	Jul 22, 2013
Sample Time	NA
Sample Location	
Sample Description	REG #9 / Surface
Matrix	Water

Analyte		Units	Results	Results	Results	Nominal Detection Limit
Physical and Aggregate Properties - Continued						
Solids	Total Dissolved	mg/L	162			5
Routine Water						
pH	at 25 °C		7.77			
Electrical Conductivity		µS/cm at 25 C	250			1
Calcium	Dissolved	mg/L	42.2			0.1
Iron	Dissolved	mg/L	0.191			0.005
Magnesium	Dissolved	mg/L	5.79			0.1
Manganese	Dissolved	mg/L	0.025			0.001
Potassium	Dissolved	mg/L	1.2			0.1
Silicon	Dissolved	mg/L	5.10			0.05
Sodium	Dissolved	mg/L	2.5			0.1
Bicarbonate		mg/L	107			5
Carbonate		mg/L	<6			6
Hydroxide		mg/L	<5			5
P-Alkalinity	as CaCO3	mg/L	<5			5
T-Alkalinity	as CaCO3	mg/L	88			5
Chloride	Dissolved	mg/L	0.13			0.05
Sulfate (SO4)	Dissolved	mg/L	42.4			0.5
Hardness	as CaCO3	mg/L	129			5
Hardness	Total	mg CaCO3/L	138			1

Approved by:

Mathieu Simoneau
Operations Manager

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Methodology and Notes

Bill To:	J. Gibson & Associates	Project:	
Report To:	J. Gibson & Associates	ID:	Silver Range Res.
	Box 20913	Name:	KEG Project
	Whitehorse, YT, Canada	Location:	
	Y1A 6P2	LSD:	
Attn:	John Gibson	P.O.:	
Sampled By:	J.Gibson	Acct code:	
Company:	J.Gibson		

Lot ID:	**948647**
Control Number:	B05954
Date Received:	Jul 24, 2013
Date Reported:	Jul 30, 2013
Report Number:	1843808

Method of Analysis

Method Name	Reference	Method	Date Analysis Started	Location
Alk, pH, EC, Turb in water (Surrey)	APHA	* Alkalinity - Titration Method, 2320 B	25-Jul-13	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	* Conductivity, 2510 B	25-Jul-13	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	* pH - Electrometric Method, 4500-H+ B	25-Jul-13	Exova Surrey
Ammonia-N in Water (Surrey)	APHA	* Flow Injection Analysis, 4500-NH3 H	26-Jul-13	Exova Surrey
Anions by IEC in water (Surrey)	APHA	* Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	25-Jul-13	Exova Surrey
Carbon Organic (Total) in water (TOC)	APHA	High-Temperature Combustion Method, 5310 B	29-Jul-13	Exova Edmonton
Cyanide (Total) in water	US EPA	* US EPA method, 335.3	29-Jul-13	Exova Edmonton
Mercury Low Level (Total) in water (Surrey)	EPA	* Mercury in Water by Cold Vapor Atomic Fluorescence Spectrometry, 245.7	25-Jul-13	Exova Surrey
Metals SemiTrace (Dissolved) in water (Surrey)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	25-Jul-13	Exova Surrey
Metals SemiTrace (Total) in Water (Surrey)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	25-Jul-13	Exova Surrey
Nitrogen - nitrite+nitrate-N (Surrey)	APHA	* Automated Cadmium Reduction Method, 4500-NO3- F	25-Jul-13	Exova Surrey
Phosphorus - total (low level) - Surrey	APHA	* Preliminary Acid Hydrolysis, Ascorbic Acid Reduction Method, 4500-P B,E	25-Jul-13	Exova Surrey
Solids Dissolved (Total, Fixed and Volatile) - Surrey	APHA	* Total Dissolved Solids Dried at 180 C, 2540 C	25-Jul-13	Exova Surrey
Solids Suspended (Total, Fixed and Volatile)	APHA	* Total Suspended Solids Dried at 103-105'C, 2540 D	25-Jul-13	Exova Surrey
Trace Metals (dissolved) in Water (Surrey)	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	25-Jul-13	Exova Surrey
Trace Metals (dissolved) in Water (Surrey)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	25-Jul-13	Exova Surrey
Trace Metals (Total) in Water (Surrey)	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	25-Jul-13	Exova Surrey
Trace Metals (Total) in Water (Surrey)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	25-Jul-13	Exova Surrey

** Reference Method Modified*

References

US EPA	US Environmental Protection Agency Test Methods
APHA	Standard Methods for the Examination of Water and Wastewater

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Methodology and Notes

Bill To:	J. Gibson & Associates	Project:	
Report To:	J. Gibson & Associates	ID:	Silver Range Res.
	Box 20913	Name:	KEG Project
	Whitehorse, YT, Canada	Location:	
	Y1A 6P2	LSD:	
Attn:	John Gibson	P.O.:	
Sampled By:	J.Gibson	Acct code:	
Company:	J.Gibson		

Lot ID:	**948647**
Control Number:	B05954
Date Received:	Jul 24, 2013
Date Reported:	Jul 30, 2013
Report Number:	1843808

Comments:

- Te could not be reported due to instrument failure.
- Some total metal results were less than dissolved metal results for lot 948647. The results were verified and are within expected measurement uncertainty.
- pH analysis was performed past the recommended holding time of 15 minutes from sample collection.

Please direct any inquiries regarding this report to our Client Services group.
Results relate only to samples as submitted.
The test report shall not be reproduced except in full, without the written approval of the laboratory.

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Project Information	
Project ID:	SILVER RANGE RES.
Project Name:	KEG PROJECT
Project Location:	
Legal Location:	
PO/AFE#:	
Proj. Acct. Code:	

Billing Information	
Company:	J. Gibson & Associates
Address:	Whitehorse, YT Y1A 6P2
Attention:	John Gibson
Phone:	(867) 633-4522
Cell:	
Fax:	(867) 668-6895
E-mail:	ludditegibson@gmail.com
Agreement ID:	6646
Copy of report:	X

Copy of Report To:	
Company:	J. Gibson & Associates
Address:	Whitehorse, YT Y1A 6P2
Attention:	John Gibson
Phone:	(867) 633-4522
Cell:	
Fax:	(867) 668-6895
E-mail:	ludditegibson@gmail.com
Copy of invoice:	X

RUSH Priority

Upon filling out this section, client accepts that surcharges will be applied to the analysis

Date Required

As Indicated | All Analysis

When "ASAP" is requested, turn around will default to a 100% RUSH priority, with pricing and turn around time to match. Please contact the lab prior to submitting RUSH samples.

Signature

Report Results: E-mail / Mail / Online / Fax / PDF / Excel / QA/QC Report

Special Instructions/Comments (please include contact information including ph. # if different from above).
RCHEM = pH, EC, TP, N_2, N_3, TALK, CL, SO_4, HARDT, TSS, TDS, DM (F), METALS + NITRIC, NH_4 + SULFURIC, TOC + HCL.

Include Regulatory Requirements Below:

Sample Custody (please print)

Sampled by: J. GIBSON

Company: —

I authorize Exova to proceed with the work indicated on this form:
Date: Jul 23/13 Initial: JG

This section for Lab use only

Date/Time stamp: 07-24-13P03:11 RCVD

	Sample Identification	Location	Depth IN CM M	Date/Time sampled	Matrix	Sampling Method	Number of Containers	RCHEM	NH4	TOC	TW23ON F	TW24ON + THg	TCN
1	KEG #1	SURF	—	July 22	H2O	Grab	6						
2		↓		↓	↓	↓							
3	#2						6						
4													
5	#3						6						
6													
7	#4						6						
8													
9	#5						6						
10													
11	#6						6						
12													
13	#9						6						
14													
15													

Enter tests above (√ relevant samples below)

Indicate below any deficiencies in the condition of samples:

Were Exova supplies used? Yes

Was there any damage to the shipping container? NO

Were the containers packaged well? Yes

Were any extra samples received (document below)? NO

Are samples within recommended holding times/temp? Yes

ED 120-00

Environmental Sample Information Sheet

Note: Proper completion of this form is required in order to proceed with analysis

Please indicate any potentially hazardous samples

Page 1 of 1 Control # B05954

Indicate lot number or affix lot label here: 948647

Shipping: COD Y/N

Cooler temp: 9.6°C

and size of coolers received:

Delivery Method: AIR NORTH

Waybill:

Received by: Donna

APPENDIX 2

Flow Volume Calculations

June and July 2013

Stage Discharge Calculations

Project: **Silver Range - Keg Claims** **Date:** **26-Jun-13 0948 hrs**

Site: **Keg #1**

Point (m)	Depth (meters)	Width (meters)	Velocity (m/sec)	Area (m sq)	Volume (cms)
2.72	0	0.14	0	0	0
3	0.19	0.24	0.391	0.0456	0.0178
3.2	0.21	0.2	0.615	0.042	0.0258
3.4	0.28	0.2	0.752	0.056	0.0421
3.6	0.27	0.2	0.882	0.054	0.0476
3.8	0.33	0.2	0.845	0.066	0.0558
4	0.32	0.2	1.151	0.064	0.0737
4.2	0.3	0.2	0.735	0.06	0.0441
4.4	0.3	0.2	1.04	0.06	0.0624
4.6	0.27	0.2	1.104	0.054	0.0596
4.8	0.32	0.2	1.104	0.064	0.0707
5	0.43	0.2	1.151	0.086	0.0990
5.2	0.47	0.2	1.082	0.094	0.1017
5.4	0.46	0.2	0.944	0.092	0.0868
5.6	0.42	0.2	1.104	0.0840	0.0927
5.8	0.42	0.2	1.127	0.084	0.0947
6	0.43	0.2	1.176	0.086	0.1011
6.2	0.39	0.24	1.127	0.0936	0.1055
6.48	0	0.14	0	0.000	0.0000
3.76		**3.76**			**1.181**

All velocity readings at 0.6 depth

Staff Gauge 0.228 m @ 0948 hrs
0.227 m @ 1012 hrs

Data logger reading: OP check OK at 1015 hrs
Level survey done
Channel under ice? channel Ice free

Method: Price Velocity meter/ TS Wading Rod

Measurement By: J.Gibson

Stage Discharge Calculations

Project: **Silver Range - Keg Claims** **Date:** **26-Jun-13**

Site: **Keg #3**

Point (m)	Depth (meters)	Width (meters)	Velocity (m/sec)	Area (m sq)	Volume (cms)
1.15	0	0.175	0	0	0
1.5	0.16	0.325	0.208	0.052	0.0108
1.8	0.29	0.3	0.331	0.087	0.0288
2.1	0.34	0.3	0.391	0.102	0.0399
2.4	0.34	0.25	0.541	0.085	0.0460
2.6	0.38	0.2	0.676	0.076	0.0514
2.8	0.4	0.2	0.752	0.08	0.0602
3	0.37	0.2	0.735	0.074	0.0544
3.2	0.35	0.2	0.752	0.07	0.0526
3.4	0.36	0.2	0.601	0.072	0.0433
3.6	0.36	0.2	0.676	0.072	0.0487
3.8	0.35	0.2	0.629	0.07	0.0440
4	0.32	0.3	0.588	0.096	0.0564
4.4	0.32	0.35	0.391	0.112	0.0438
4.7	0.27	0.22	0.363	0.0594	0.0216
4.84	0	0.07	0	0	0.0000
3.69		**3.69**			**0.6018**

All velocity readings at 0.6 depth

no Staff Gauge

Data logger reading: no logger

Channel under ice? channel Ice free

Method: Price Velocity meter/ TS Wading Rod

Measurement By: J.Gibson

Stage Discharge Calculations

Project: **Silver Range - Keg Claims** **Date:** **26-Jun-13**

Site: **Keg #5**

Point (m)	Depth (meters)	Width (meters)	Velocity (m/sec)	Area (m sq)	Volume (cms)
1.18	0	0.06	0	0	0
1.3	0.03	0.11	0	0.0033	0.0000
1.4	0.06	0.1	0.105	0.006	0.0006
1.5	0.1	0.1	0.117	0.01	0.0012
1.6	0.05	0.1	0.204	0.005	0.0010
1.7	0.04	0.1	0.196	0.004	0.0008
1.8	0.04	0.1	0.145	0.004	0.0006
1.9	0.03	0.12	0.114	0.0036	0.0004
2.04	0	0.07	0	0	0.0000
0.86		0.86			**0.0046**

All velocity readings at 0.6 depth

no Staff Gauge

Data logger reading: no logger

Channel under ice? channel Ice free

Method: Price Velocity meter/ TS Wading Rod

Measurement By: J.Gibson

Stage Discharge Calculations

Project: **Silver Range - Keg Claims** **Date:** **26-Jun-13**

Site: **Keg #6**

Point (m)	Depth (meters)	Width (meters)	Velocity (m/sec)	Area (m sq)	Volume (cms)
3.2	0	0.1	0	0	0
3.4	0.07	0.15	0.196	0.0105	0.0021
3.5	0.08	0.1	0.282	0.008	0.0023
3.6	0.08	0.1	0.495	0.008	0.0040
3.7	0.8	0.1	0.415	0.08	0.0332
3.8	0.1	0.1	0.644	0.01	0.0064
3.9	0.1	0.1	0.676	0.01	0.0068
4	0.1	0.1	0.66	0.01	0.0066
4.1	0.1	0.1	0.383	0.01	0.0038
4.2	0.08	0.1	0.339	0.008	0.0027
4.3	0.06	0.125	0.136	0.0075	0.0010
4.45	0.05	0.155	0	0.00775	0.0000
4.61	0	0.08	0	0	0.0000
1.41		1.41			**0.0688**

All velocity readings at 0.6 depth

no Staff Gauge

Data logger reading: no logger

Channel under ice? channel Ice free

Method: Price Velocity meter/ TS Wading Rod

Measurement By: J.Gibson

Stage Discharge Calculations

Project: **Silver Range - Keg Claims** **Date:** **26-Jun-13**

Site: **Keg #7**

Point (m)	Depth (meters)	Width (meters)	Velocity (m/sec)	Area (m sq)	Volume (cms)
1.28	0	0.06	0	0	0
1.4	0.12	0.11	0.133	0.0132	0.0018
1.5	0.14	0.1	0.398	0.014	0.0056
1.6	0.12	0.1	0.277	0.012	0.0033
1.7	0.12	0.1	0.442	0.012	0.0053
1.8	0.13	0.1	0.383	0.013	0.0050
1.9	0.12	0.1	0.339	0.012	0.0041
2	0.13	0.1	0.231	0.013	0.0030
2.1	0.12	0.085	0.295	0.0102	0.0030
2.17	0.1	0.07	0.2	0.007	0.0014
2.24	0	0.035	0	0	0.0000
0.96		**0.96**			**0.0324**

All velocity readings at 0.6 depth

no Staff Gauge

Data logger reading: no logger

Channel under ice? channel Ice free

Method: Price Velocity meter/ TS Wading Rod

Measurement By: J.Gibson

Stage Discharge Calculations

Project: **Silver Range - Keg Claims** **Date:** **26-Jun-13**

Site: **Keg #10**

Point (m)	Depth (meters)	Width (meters)	Velocity (m/sec)	Area (m sq)	Volume (cms)
0.81	0	0.095	0	0	0
1	0.1	0.245	0.219	0.0245	0.0054
1.3	0.11	0.3	0.406	0.033	0.0134
1.6	0.16	0.3	0.601	0.048	0.0288
1.9	0.2	0.2	0.845	0.04	0.0338
2	0.23	0.2	0.615	0.046	0.0283
2.3	0.24	0.3	0.769	0.072	0.0554
2.6	0.26	0.3	0.676	0.078	0.0527
2.9	0.31	0.25	0.769	0.0775	0.0596
3.1	0.37	0.2	0.944	0.074	0.0699
3.3	0.37	0.2	1.014	0.074	0.0750
3.5	0.38	0.2	1.014	0.076	0.0771
3.7	0.39	0.2	1.014	0.078	0.0791
3.9	0.37	0.2	0.99	0.074	0.0733
4.1	0.35	0.2	0.825	0.07	0.0578
4.3	0.36	0.275	0.644	0.099	0.0638
4.65	0	0.175	0	0	0.0000
3.84		3.84			**0.7732**

All velocity readings at 0.6 depth

no Staff Gauge

Data logger reading: no logger

Channel under ice? channel Ice free

Method: Price Velocity meter/ TS Wading Rod

Measurement By: J.Gibson

Stage Discharge Calculations

Project: **Silver Range - Keg Claims** **Date:** **26-Jun-13 1300 hrs**

Site: **Keg #11**

Point (m)	Depth (meters)	Width (meters)	Velocity (m/sec)	Area (m sq)	Volume (cms)
1.42	0	0.09	0	0	0
1.6	0.19	0.24	0.122	0.0456	0.0056
1.9	0.16	0.3	0.308	0.048	0.0148
2.2	0.24	0.3	0.508	0.072	0.0366
2.5	0.26	0.3	0.735	0.078	0.0573
2.8	0.28	0.3	0.769	0.084	0.0646
3.1	0.28	0.3	0.825	0.084	0.0693
3.4	0.27	0.3	0.735	0.081	0.0595
3.7	0.31	0.3	0.863	0.093	0.0803
4	0.3	0.3	0.769	0.09	0.0692
4.3	0.29	0.3	0.825	0.087	0.0718
4.6	0.28	0.3	0.825	0.084	0.0693
4.9	0.25	0.3	0.805	0.075	0.0604
5.2	0.23	0.3	0.676	0.069	0.0466
5.5	0.24	0.3	0.66	0.072	0.0475
5.8	0.24	0.3	0.644	0.072	0.0464
6.1	0.22	0.295	0.615	0.0649	0.0399
6.39	0	0.145	0	0	0.0000
4.97		**4.97**			**0.8390**

All velocity readings at 0.6 depth

Staff Gauge = 0.118 m at 1300 hrs
0.126 m @ 1325 hrs

Data logger reading: OP check OK at 1328 hrs
Level survey done

Channel under ice? channel Ice free

Method: Price Velocity meter/ TS Wading Rod

Measurement By: J.Gibson

Stage Discharge Calculations

Project: **Silver Range - Keg Claims** **Date:** **27-Jun-13**

Site: **Keg #12**

Point (m)	Depth (meters)	Width (meters)	Velocity (m/sec)	Area (m sq)	Volume (cms)
1.09	0	0.105	0	0	0
1.3	0.21	0.205	0.383	0.04305	0.0165
1.5	0.21	0.2	0.415	0.042	0.0174
1.7	0.23	0.2	0.495	0.046	0.0228
1.9	0.24	0.2	0.295	0.048	0.0142
2.1	0.23	0.175	0.462	0.04025	0.0186
2.25	0.26	0.15	0.66	0.039	0.0257
2.4	0.27	0.15	0.66	0.0405	0.0267
2.55	0.23	0.15	0.676	0.0345	0.0233
2.7	0.26	0.15	0.66	0.039	0.0257
2.85	0.26	0.15	0.576	0.039	0.0225
3	0.28	0.15	0.495	0.042	0.0208
3.15	0.29	0.15	0.69	0.0435	0.0300
3.3	0.28	0.15	0.72	0.042	0.0302
3.45	0.25	0.105	0.541	0.02625	0.0142
3.51	0	0.03	0	0	0.0000
2.42		2.42			**0.3087**

All velocity readings at 0.6 depth

no Staff Gauge

Data logger reading: no logger

Channel under ice? channel Ice free

Method: Price Velocity meter/ TS Wading Rod

Measurement By: J.Gibson

Stage Discharge Calculations

Project: **Silver Range - Keg Claims** **Date:** **26-Jun-13**

Site: **Keg #13**

Point (m)	Depth (meters)	Width (meters)	Velocity (m/sec)	Area (m sq)	Volume (cms)
0.51	0	0.095	0	0	0
0.7	0.36	0.195	0.158	0.0702	0.0111
0.9	0.43	0.2	0.254	0.086	0.0218
1.1	0.42	0.2	0.472	0.084	0.0396
1.3	0.43	0.2	0.541	0.086	0.0465
1.5	0.44	0.2	0.552	0.088	0.0486
1.7	0.47	0.2	0.601	0.094	0.0565
1.9	0.48	0.2	0.705	0.096	0.0677
2.1	0.49	0.2	0.922	0.098	0.0904
2.3	0.36	0.2	1.061	0.072	0.0764
2.5	0.37	0.2	0.615	0.074	0.0455
2.7	0.34	0.2	0.805	0.068	0.0547
2.9	0.32	0.2	0.902	0.064	0.0577
3.1	0.17	0.2	0.676	0.034	0.0230
3.3	0.22	0.18	0.483	0.0396	0.0191
3.46	0	0.08	0	0	0.0000
2.95		2.95			**0.6587**

All velocity readings at 0.6 depth

no Staff Gauge

Data logger reading: no logger

Channel under ice? channel Ice free

Method: Price Velocity meter/ TS Wading Rod

Measurement By: J.Gibson

Stage Discharge Calculations

Project: **Silver Range - Keg Claims** **Date:** **22-Jul-13**

Site: **Keg #5**

Point (m)	Depth (meters)	Width (meters)	Velocity (m/sec)	Area (m sq)	Volume (cms)
1.53	0	0.035	0	0	0
1.6	0.16	0.085	0.882	0.0136	0.0120
1.7	0.18	0.1	0.825	0.018	0.0149
1.8	0.15	0.1	0.226	0.015	0.0034
1.9	0.16	0.1	0.398	0.016	0.0064
2	0.16	0.1	0.825	0.016	0.0132
2.1	0.18	0.1	0.72	0.018	0.0130
2.2	0.13	0.1	0.805	0.013	0.0105
2.3	0.14	0.1	0.423	0.014	0.0059
2.4	0.14	0.1	0.406	0.014	0.0057
2.5	0.12	0.1	0.676	0.012	0.0081
2.6	0.24	0.11	0.196	0.0264	0.0052
2.72	0	0.06	0	0	0.0000
1.19		1.19			**0.0981**

All velocity readings at 0.6 depth

no Staff Gauge

Data logger reading: no logger

Channel under ice? channel Ice free

Method: Price Velocity meter/ TS Wading Rod

Measurement By: J.Gibson

Stage Discharge Calculations

Project: **Silver Range - Keg Claims** **Date:** **22-Jul-13**

Site: **Keg #6**

Point (m)	Depth (meters)	Width (meters)	Velocity (m/sec)	Area (m sq)	Volume (cms)
0.47	0	0.315	0	0	0
1.1	0.08	0.365	0.111	0.0292	0.0032
1.2	0.1	0.1	0.451	0.01	0.0045
1.3	0.1	0.1	0.576	0.01	0.0058
1.4	0.1	0.1	0.495	0.01	0.0050
1.5	0.08	0.1	0.248	0.008	0.0020
1.6	0.09	0.1	0.552	0.009	0.0050
1.7	0.08	0.1	0.282	0.008	0.0023
1.8	0.07	0.1	0.208	0.007	0.0015
1.9	0.08	0.1	0	0.008	0.0000
2	0.07	0.1	0.383	0.007	0.0027
2.1	0.03	0.13	0.363	0.0039	0.0014
2.26	0	0.08	0	0	0.0000
1.79		1.79			**0.0332**

All velocity readings at 0.6 depth

no Staff Gauge

Data logger reading: no logger

Channel under ice? channel Ice free

Method: Price Velocity meter/ TS Wading Rod

Measurement By: J.Gibson

Stage Discharge Calculations

Project: **Silver Range - Keg Claims** **Date:** **22-Jul-13**

Site: **Keg #11**

Point (m)	Depth (meters)	Width (meters)	Velocity (m/sec)	Area (m sq)	Volume (cms)
1.71	0	0.145	0	0	0
2	0.24	0.295	0.383	0.0708	0.0271
2.3	0.29	0.3	0.415	0.087	0.0361
2.6	0.28	0.3	0.495	0.084	0.0416
2.9	0.34	0.3	0.295	0.102	0.0301
3.2	0.33	0.25	0.462	0.0825	0.0381
3.4	0.32	0.2	0.66	0.064	0.0422
3.6	0.39	0.2	0.66	0.078	0.0515
3.8	0.38	0.2	0.676	0.076	0.0514
4	0.32	0.2	0.66	0.064	0.0422
4.2	0.34	0.2	0.576	0.068	0.0392
4.4	0.33	0.25	0.495	0.0825	0.0408
4.7	0.32	0.3	0.69	0.096	0.0662
5	0.3	0.3	0.72	0.09	0.0648
5.3	0.29	0.3	0.541	0.087	0.0471
5.6	0.27	0.3	0.541	0.081	0.0438
5.9	0.29	0.35	0.541	0.1015	0.0549
6.3	0.26	0.345	0.541	0.0897	0.0485
6.59	0	0.145	0.541	0	0.0000
4.88		4.88			**0.7657**

All velocity readings at 0.6 depth

SG= 0.161 at 1000 hrs
0.161 at 1030 hrs

Data logger reading: OP check OK

Channel under ice? channel Ice free

Method: Price Velocity meter/ TS Wading Rod

Measurement By: J.Gibson

Silver Range Resources

REBEL/SNAP/HAMMER CLAIMS

Baseline Water Quality / Hydrology Survey

Environmental Data Update

June, 2013

J.Gibson Env. Consulting ***Whitehorse, Yukon***

REBEL/ SNAP/HAMMER Claims June 2013

Silver Range Resources baseline water quality / hydrology surveys of the REBEL, SNAP and HAMMER Claims surface waters continued in June, 2013.

Water quality / hydrology surveys of the SNAP and HAMMER Claims were started October 18, 2012.

The sites are located in the Anvil Range approximately 30 kilometers north of Faro, Yukon and 15 kilometers north of the former Faro Mine.

The REBEL Claims are located on tributaries to Anvil Creek and Rose Creeks.

The SNAP Claims are located on tributaries to Blind Creek.

The HAMMER Claims are located on tributaries to Rose Creek.

All surface waters are tributaries to the Pelly River.

All survey sites were accessed by helicopter.

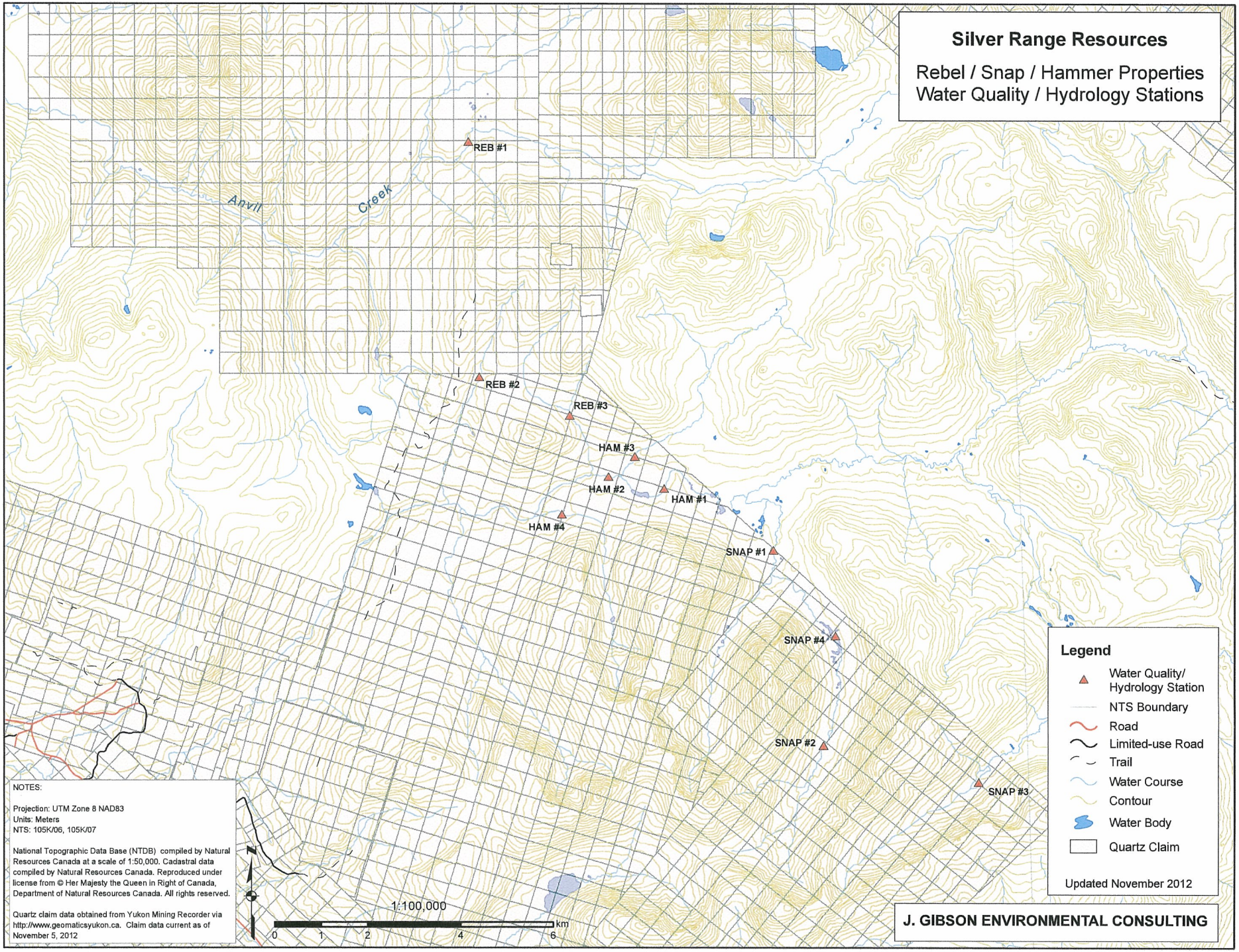
The baseline survey consisted of water quality samples for routine chemistry, total metals, dissolved metals, total organic carbon, total cyanide and total mercury with field measurements for pH, water temperature and flow volume.

Sample Locations

Three sample sites were established on the REBEL Claims during the initial survey in August 2010.

Four sites were established on each of the SNAP and HAMMER Claims in October 2012.

All sites are on the attached location map.


Silver Range Resources
Rebel / Snap / Hammer Properties
Water Quality / Hydrology Stations
REB #1
Anvil
Creek
REB #2
REB #3
HAM #3
HAM #2
HAM #1
HAM #4
SNAP #1
SNAP #4
SNAP #2
SNAP #3
Legend
Water Quality/ Hydrology Station
NTS Boundary
Road
Limited-use Road
Trail
Water Course
Contour
Water Body
Quartz Claim
Updated November 2012
NOTES:
Projection: UTM Zone 8 NAD83
Units: Meters
NTS: 105K/06, 105K/07
National Topographic Data Base (NTDB) compiled by Natural Resources Canada at a scale of 1:50,000. Cadastral data compiled by Natural Resources Canada. Reproduced under license from © Her Majesty the Queen in Right of Canada, Department of Natural Resources Canada. All rights reserved.
Quartz claim data obtained from Yukon Mining Recorder via http://www.geomaticsyukon.ca. Claim data current as of November 5, 2012
1:100,000
0 1 2 4 6 km
J. GIBSON ENVIRONMENTAL CONSULTING

REBEL Claim sample station designations and coordinates are:

Station #	Lat/Long Coordinates	Elevation(m)
REB #1	62 27 42.8N / 133 13 32.8W	1305
REB #2	62 24 58.7N / 133 13 26.1W	1425
REB #3	62 24 30.3N / 133 11 12.1W	1365

SNAP Claims station designations and coordinates are:

Station #	Lat/Long Coordinates	Elevation(m)
SNAP #1	62 22 52.6N / 133 6 13W	
SNAP #2	62 20 34.9N / 133 5 5.4 W	
SNAP #3	62 20 7 N / 133 1 17.1 W	
SNAP #4	62 21 51.3N / 133 4 43.4W	

HAMMER Claims station designations and coordinates are:

Station #	Lat/Long Coordinates	Elevation(m)
HAM#1	62 23 37.9N / 133 8 53.9W	
HAM #2	62 23 47.3N / 133 10 16.9W	
HAM #3	62 24 0.7N / 133 9 36.6W	
HAM #4	62 23 22.1N / 133 11 28.1W	

Station coordinates and elevations are for helicopter landing sites. Due to the topography and thick vegetation it was often necessary to located landing sites up to100 meters from sample sites.

Sample Analysis Parameters

All REBEL, SNAP and HAMMER Stations were sampled for total metals, dissolved metals and routine chemistry, total organic carbon, total cyanide and total mercury.

Dissolved metals samples were filtered onsite using disposable 60 ml syringes and 0.45 micron filters. New syringes and filters were used for each station.

Total and dissolved metal samples were preserved with nitric acid immediately after sampling.

All samples were stored in coolers, kept at 4 Celsius and shipped by air cargo to the Exova Canada Inc. laboratory in Surrey B.C. for analysis within recommended holding times.

Field measurements for pH, conductivity, total dissolved solids were taken with an Oakton PCS TestR 35, water temperatures with a digital thermometer.

Sample Frequency

All REBEL, SNAP and HAMMER stations are on a quarterly sample frequency.

Flow Volume Measurements

Stream flow volumes were measured with a Price AA velocity meter and cross sectional area calculations. All channels ice free and in post freshet, mid stage summer flow volumes.

Measured stream flow volumes are listed with Routine Chemistry and in a flow summary table for each project.

Stream flow volume data/calculations are attached in Appendix 2.

Analysis Results

Laboratory analysis and field measurement results are listed in the following tables:

Table 1. REBEL Stations June 2013 Routine Chemistry – laboratory analysis and field measurements.

Table 2. REBEL Stations June 2013 Total Metals ICP–MS laboratory analysis results

Table 3. REBEL Stations June 2013 Dissolved Metals ICP–MS laboratory analysis results

Table 4. REBEL/SNAP/HAMMER Stations Flow Volume Summary 2010- 2013.

Table 5. SNAP Stations June 2013 Routine Chemistry – laboratory analysis and field measurements

Table 6. SNAP Stations June 2013 Total Metals ICP–MS laboratory analysis results

Table 7. SNAP Stations June 2013 Dissolved Metals ICP-MS laboratory analysis results

Table 8. HAMMER Stations June 2013 Routine Chemistry – laboratory analysis and field measurements

Table 9. HAMMER Stations June 2013 Total Metals ICP–MS laboratory analysis results

Table 10. HAMMER Stations June 2013 Dissolved Metals ICP-MS laboratory analysis results

Table 11. Quality Control samples analysis results for Station Snap #2. June 2013.

Table 1. Silver Range Resources - REBEL Claims, June 2013.
Routine Chemistry and Field Measurement Results

		STATIONS				
Parameter	**Unit**	**REB #1**	**REB #2**	**REB #3**	**DWQ* G.lines**	**Aquatic** G.lines**
pH (field)	ru	7.63	7.8	7.67		
pH (lab)	ru	8.04	8.14	7.94	6.5-8.5	6.5-9
Conductivity (lab)	uS/cm	241	226	138		
Water temperature	C	7.3	6.2	6.5		
Flow Volume(field)	cms	1.476	0.0553	0.097		
Organic Carbon-Total	mg/L	1.5	1.6	2.4		
Cyanide - Total	mg/L	<0.002	<0.002	<0.002	0.2	0.005
Phosphorus (T)	mg/L	0.006	<0.003	<0.003		
Ammonia -N	mg/L	0.02	0.01	0.02		1.37-2.2
Nitrate - N	mg/L	0.05	0.07	0.02	10	
Nitrite - N	mg/L	<0.01	<0.01	<0.01	1	0.06
Alkalinity (as CaC03)	mg/L	105	108	67		
Chloride	mg/L	0.06	<0.05	<0.05	<250	
Sulphate (S04)	mg/L	26.4	15.8	7		
Hardness (as CaC03)	mg/L	132	131	75.6	<500	
T.Suspended Solids	mg/L	nr	nr	nr		
T.Dissolved Solids	mg/L	nr	nr	nr	500	

All results and limits in mg/L unless noted otherwis. Nr = no sample/reading

Indicates concentration exceeds Guideline limits

Table 2. Silver Range Resources - REBEL Claims June, 2013
Total Metals Analysis Results.

Parameter	Units	REB #1	REB #2	REB #3	DWQ* G.Lines	Aquatic** G.Lines
Calcium	mg/L	34.8	42.1	24.6		
Iron	mg/L	0.085	0.023	0.029	0.3	0.3
Magnesium	mg/L	10.9	6.24	3.42		
Manganese	mg/L	<0.0050	<0.0050	<0.0050	0.05	
Potassium	mg/L	0.92	0.17	0.4		
Silicon	mg/L	2.71	3.42	3.73		
Sodium	mg/L	8.1	5.2	2.2	<200	
Titanium	mg/L	0.0063	0.0036	0.002		
Aluminum	mg/L	0.014	0.009	0.022		0.1
Antimony	mg/L	0.0002	<0.0002	<0.0002	0.006	
Arsenic	mg/L	0.0005	0.0012	0.0004	0.01	
Barium	mg/L	0.055	0.041	0.031	1	
Beryllium	mg/L	<0.00004	<0.00004	<0.00004		
Bismuth	mg/L	<0.0010	<0.0010	<0.0010		
Boron	mg/L	<0.005	<0.005	<0.005	5	
Cadmium	mg/L	0.00007	0.00002	0.00001	0.005	0.0018
Chromium	mg/L	<0.0004	<0.0004	<0.0004	0.05	0.002
Cobalt	mg/L	0.00008	0.00008	0.00006		
Copper	mg/L	<0.001	<0.001	<0.001	1	0.004
Lead	mg/L	<0.0001	<0.0001	<0.0001	0.01	0.007
Lithium	mg/L	<0.001	<0.001	<0.001		
Molybdenum	mg/L	0.002	0.0004	0.0004		
Nickel	mg/L	0.002	0.001	<0.001		0.15
Selenium	mg/L	0.0012	<0.0006	<0.0006	0.01	0.001
Silver	mg/L	<0.00001	0.00002	0.00001		0.0001
Strontium	mg/L	0.075	0.134	0.093		
Thallium	mg/L	<0.00001	<0.00001	<0.00001		
Thorium	mg/L	<0.0004	<0.0004	<0.0004		
Tin	mg/L	<0.0001	<0.0001	<0.0001		
Uranium	mg/L	0.0016	0.0009	<0.0004	0.02	
Vanadium	mg/L	0.0003	<0.0001	0.0002		
Zinc	mg/L	0.002	0.001	<0.001	<5	0.03
Zirconium	mg/L	0.0005	0.0002	0.0003		
Mercury	mg/L	<0.00001	<0.00001	<0.00001	0.001	0.1

Indicates concentration exceeds Guideline limits

Table 3. Silver Range Resources - REBEL Claims June, 2013.
Dissolved Metals Analysis Results

Parameter	Units	REB#1	REB#2	REB#3
Calcium	mg/L	39.6	37.8	22.3
Iron	mg/L	0.01	<0.005	0.007
Magnesium	mg/L	5.91	5.76	3.18
Manganese	mg/L	<0.001	<0.001	<0.001
Potassium	mg/L	0.2	0.3	0.5
Silicon	mg/L	3.11	3.16	3.53
Sodium	mg/L	0.9	0.9	1.2
Sulfur	mg/L	5	5	2.2
Titanium	mg/L	<0.010	<0.010	<0.010
Aluminum	mg/L	<0.005	0.005	0.007
Antimony	mg/L	0.0002	<0.0002	<0.0002
Arsenic	mg/L	0.0005	0.0011	0.0004
Barium	mg/L	0.051	0.038	0.027
Beryllium	mg/L	<0.00004	<0.00004	<0.00004
Bismuth	mg/L	<0.001	<0.001	<0.001
Boron	mg/L	<0.004	<0.004	<0.004
Cadmium	mg/L	0.00004	0.00002	<0.00001
Chromium	mg/L	0.0005	0.0006	<0.0004
Cobalt	mg/L	0.00006	0.00006	0.00004
Copper	mg/L	<0.001	<0.001	<0.001
Lead	mg/L	<0.0001	<0.0001	<0.0001
Lithium	mg/L	<0.001	<0.001	<0.001
Molybdenum	mg/L	0.00184	0.00024	0.00032
Nickel	mg/L	0.001	<0.001	<0.001
Selenium	mg/L	0.0018	<0.0006	<0.0006
Silver	mg/L	<0.00001	<0.00001	<0.00001
Strontium	mg/L	0.073	0.126	0.089
Thallium	mg/L	<0.00001	<0.00001	<0.00001
Thorium	mg/L	<0.0004	<0.0004	<0.0004
Tin	mg/L	<0.0001	<0.0001	<0.0001
Uranium	mg/L	0.0015	0.0008	<0.0004
Vanadium	mg/L	0.00026	0.00018	0.00012
Zinc	mg/L	0.002	0.001	<0.001
Zirconium	mg/L	<0.00010	<0.00010	<0.00010

Table 4. Silver Range Resources - Summary of REB/SNAP/HAMMER Flow Volumes 2010 - 2013 (Cubic meters per second)

	Date										
Station	**Aug-10**	**Oct-10**	**Mar-11**	**Jun-11**	**Sep-11**	**Mar-12**	**May-12**	**Jul-12**	**Oct-12**	**Mar-13**	**Jun-13**
REB #1	0.403	0.311	0.068	1.252	0.776	0.055	0.218	nr	0.314	0.1024	1.476
REB #2	0.015	0.028	Dry	0.054	0.034	Dry	Dry	nr	0.018	nr	0.0553
REB #3	0.024	0.047	0.0015	0.639	0.040	0.002	0.1021	nr	0.106	nr	0.097
SNAP#1									0.0695	nr	1.526
SNAP#2									0.0935	0.0079	0.635
SNAP#3									0.0573	nr	0.277
SNAP#4									nr	nr	nr
HAM#1									nr	nr	nr
HAM#2									nr	nr	0.4957
HAM#3									0.0474	0.0332	0.5034
HAM#4									0.0469	nr	0.3118

Table 5 . Silver Range Resources - SNAP Claims, June 2013.
Routine Chemistry and Field Measurement Results
STATIONS

Parameter	Unit	SNAP#1	SNAP#2	SNAP#3	SNAP#4	DWQ* G.lines	Aquatic** G.lines
pH (field)	ru	7.14	7.65	6.65	6.85		
pH (lab)	ru	7.3	7.02	6.6	6.99	6.5-8.5	6.5-9
Conductivity (lab)	uS/cm	91	88	68	88		
Water temperature	C	9.2	4.9	9.3	9.9		
Flow Volume(field)	cms	0.1526	0.6348	0.2766	nr		
Organic Carbon-Total	mg/L	1.6	0.9	1.7	1.4		
Cyanide - Total	mg/L	<0.002	<0.002	<0.002	<0.002	0.2	0.005
Phosphorus (T)	mg/L	0.011	<0.003	<0.003	0.007		
Ammonia -N	mg/L	0.02	0.01	0.02	<0.01		1.37-2.2
Nitrate - N	mg/L	0.02	0.04	<0.01	0.02	10	
Nitrite - N	mg/L	<0.01	<0.01	<0.01	<0.01	1	0.06
Alkalinity (as CaC03)	mg/L	15	7	<5	8		
Chloride	mg/L	0.06	0.06	<0.05	0.06	<250	
Sulphate (S04)	mg/L	24.6	30	25.4	29.4		
Hardness (as CaC03)	mg/L	41.2	37.4	25.8	38.6	<500	
T.Suspended Solids	mg/L	6	<2	<2	<2		
T.Dissolved Solids	mg/L	32	42	24	34	500	

All results and limits in mg/L unless noted otherwis. Nr = no sample/reading

DWQ* Guidelines are Maximum Acceptable Concentrations according to
Canadian Drinking Water Quality

Aquatic** Guidelines are for protection of aquatic life in waters with pH >6.5 and Hardness as CaC03 >180 mg/L
Canadian Water Quality Guidelines

equal or exceeds Guideline limit

Table 6. Silver Range Resources - SNAP Claims June, 2013
Total Metals Analysis Results.

Parameter	Units	SNAP#1	SNAP#2	SNAP#3	SNAP#4	DWQ* G.Lines	Aquatic** G.Lines
Calcium	mg/L	12.8	10.8	8.05	11.4		
Iron	mg/L	0.361	<0.010	0.044	0.216	0.3	0.3
Magnesium	mg/L	2.22	2.53	1.38	2.48		
Manganese	mg/L	0.025	<0.0050	0.422	0.0147	0.05	
Potassium	mg/L	0.63	0.62	0.5	0.62		
Silicon	mg/L	2.78	2.56	3.31	2.76		
Sodium	mg/L	7.9	9.5	8.2	9.3	<200	
Titanium	mg/L	0.0063	0.0035	<0.0010	0.0083		
Aluminum	mg/L	0.1	0.057	0.606	0.057		0.1
Antimony	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	0.006	
Arsenic	mg/L	0.0012	<0.0002	0.0003	0.0012	0.01	
Barium	mg/L	0.016	0.012	0.016	0.015	1	
Beryllium	mg/L	0.00007	0.00037	0.00037	0.00014		
Bismuth	mg/L	<0.001	<0.001	<0.001	<0.001		
Boron	mg/L	<0.005	<0.005	<0.005	<0.005	5	
Cadmium	mg/L	0.00039	0.00078	0.00192	0.00067	0.005	0.0018
Chromium	mg/L	<0.0004	<0.0004	<0.0004	<0.0004	0.05	0.002
Cobalt	mg/L	0.00016	0.00011	0.00009	0.00012		
Copper	mg/L	<0.001	0.001	0.001	<0.001	1	0.004
Lead	mg/L	0.001	<0.0001	0.0005	0.0013	0.01	0.007
Lithium	mg/L	0.002	0.003	0.002	0.002		
Molybdenum	mg/L	0.0002	0.0001	<0.0001	<0.0001		
Nickel	mg/L	0.009	0.027	0.003	0.014		0.15
Selenium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	0.01	0.001
Silver	mg/L	<0.00001	<0.00001	<0.00001	<0.00001		0.0001
Strontium	mg/L	0.066	0.067	0.05	0.07		
Thallium	mg/L	<0.00001	<0.00001	0.00001	<0.00001		
Thorium	mg/L	<0.0004	<0.0004	<0.0004	<0.0004		
Tin	mg/L	<0.0001	<0.0001	<0.0001	<0.0001		
Uranium	mg/L	0.0005	<0.0004	<0.0004	<0.0004	0.02	
Vanadium	mg/L	0.0003	<0.0001	<0.0001	<0.0001		
Zinc	mg/L	0.095	0.1	0.552	0.141	<5	0.03
Zirconium	mg/L	0.0002	0.0001	0.0002	0.0002		
Mercury	mg/L	<0.00001	<0.00001	<0.00001	<0.00001	0.001	0.1

nr=no sample or analysis done

equal or exceeds Guideline limit

Table 7. Silver Range Resources - SNAP Claims June 2013.
Dissolved Metals Analysis Results

Parameter	Units	SNAP#1	SNAP#2	SNAP#3	SNAP#4
Calcium	mg/L	12.1	10.4	7.7	10.8
Iron	mg/L	0.154	<0.005	0.011	0.214
Magnesium	mg/L	2.11	2.46	1.31	2.41
Manganese	mg/L	0.017	0.005	0.391	0.016
Potassium	mg/L	0.5	0.5	0.4	0.6
Silicon	mg/L	2.42	2.34	2.92	2.5
Sodium	mg/L	1.6	1.6	1.1	1.2
Sulfur	mg/L	7.3	8.9	7.6	8.7
Titanium	mg/L	<0.010	<0.010	<0.010	0.016
Aluminum	mg/L	0.015	0.037	0.071	0.019
Antimony	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Arsenic	mg/L	0.0009	<0.0002	<0.0002	0.0011
Barium	mg/L	0.014	0.011	0.014	0.013
Beryllium	mg/L	<0.00004	0.00027	0.00022	0.00006
Bismuth	mg/L	<0.001	<0.001	<0.001	<0.001
Boron	mg/L	<0.004	<0.004	<0.004	<0.004
Cadmium	mg/L	0.00033	0.00071	0.00175	0.0006
Chromium	mg/L	<0.0004	<0.0004	<0.0004	<0.0004
Cobalt	mg/L	0.00008	0.00008	0.00006	0.0001
Copper	mg/L	<0.001	<0.001	<0.001	<0.001
Lead	mg/L	0.0003	<0.0001	0.0001	0.0004
Lithium	mg/L	0.001	0.002	0.001	0.002
Molybdenum	mg/L	0.00012	<0.00010	<0.00010	<0.00010
Nickel	mg/L	0.008	0.023	0.003	0.013
Selenium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006
Silver	mg/L	<0.00001	<0.00001	<0.00001	<0.00001
Strontium	mg/L	0.062	0.06	0.046	0.064
Thallium	mg/L	<0.00001	<0.00001	<0.00001	<0.00001
Thorium	mg/L	<0.0004	<0.0004	<0.0004	<0.0004
Tin	mg/L	<0.0001	<0.0001	<0.0001	<0.0001
Uranium	mg/L	<0.0004	<0.0004	<0.0004	<0.0004
Vanadium	mg/L	<0.00010	<0.00010	<0.0001	<0.00010
Zinc	mg/L	0.083	0.09	0.502	0.134
Zirconium	mg/L	<0.00010	<0.00010	<0.00010	<0.00010

Table 8. Silver Range Resources - HAMMER Claims, June 2013.
Routine Chemistry and Field Measurement Results

		STATIONS					
Parameter	**Unit**	**HAM#1**	**HAM#2**	**HAM#3**	**HAM#4**	**DWQ* G.lines**	**Aquatic** G.lines**
pH (field)	ru	6.72	7.64	7.91	7.12		
pH (lab)	ru	7.39	7.97	8.22	7.23	6.5-8.5	6.5-9
Conductivity (lab)	uS/cm	171	238	227	26		
Water temperature	C	14.4	6.3	7.5	6.3		
Flow Volume(field)	cms	nr	0.4957	0.5034	0.3118		
Organic Carbon-Total	mg/L	4.9	2.4	1.9	2.1		
Cyanide - Total	mg/L	<0.002	<0.002	<0.002	<0.002	0.2	0.005
Phosphorus (T)	mg/L	0.028	0.008	0.005	0.008		
Ammonia -N	mg/L	0.02	0.01	<0.01	0.02		1.37-2.2
Nitrate - N	mg/L	<0.01	0.04	0.05	0.02	10	
Nitrite - N	mg/L	<0.01	<0.01	<0.01	<0.01	1	0.06
Alkalinity (as CaC03)	mg/L	89	106	108	11		
Chloride	mg/L	<0.05	<0.05	<0.05	<0.05	<250	
Sulphate (S04)	mg/L	3.9	14.6	15.9	1.7		
Hardness (as CaC03)	mg/L	92.8	122	125	11.6	<500	
T.Suspended Solids	mg/L	<2	<2	3	3		
T.Dissolved Solids	mg/L	100	120	130	20	500	

All results and limits in mg/L unless noted otherwis. Nr = no sample/reading

DWQ* Guidelines are Maximum Acceptable Concentrations according to
Canadian Drinking Water Quality

Aquatic** Guidelines are for protection of aquatic life in waters with pH >6.5 and Hardness as CaC03 >180 mg/L
Canadian Water Quality Guidelines

equal or exceeds Guideline limit

Table 9. Silver Range Resources - HAMMER Claims June, 2013
Total Metals Analysis Results.

Parameter	Units	HAM#1	HAM#2	HAM#3	HAM#4	DWQ* G.Lines	Aquatic** G.Lines
Calcium	mg/L	27.2	32.1	32.6	3.69		
Iron	mg/L	0.532	0.187	0.078	0.12	0.3	0.3
Magnesium	mg/L	6.07	10.2	10.6	0.58		
Manganese	mg/L	0.0885	0.0187	0.0064	<0.0050	0.05	
Potassium	mg/L	0.81	0.29	0.36	0.28		
Silicon	mg/L	4.77	2.84	3.03	2.52		
Sodium	mg/L	2.75	1.35	1.4	1.24	<200	
Titanium	mg/L	<0.0010	0.0038	0.0052	0.0052		
Aluminum	mg/L	0.045	0.015	0.034	0.1		0.1
Antimony	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	0.006	
Arsenic	mg/L	0.007	0.001	0.0002	0.0003	0.01	
Barium	mg/L	0.14	0.062	0.057	0.014	1	
Beryllium	mg/L	<0.00004	<0.00004	<0.00004	<0.00004		
Bismuth	mg/L	<0.0010	<0.001	<0.001	<0.001		
Boron	mg/L	0.005	<0.005	<0.005	<0.005	5	
Cadmium	mg/L	0.00002	0.00001	0.00003	<0.00001	0.005	0.0018
Chromium	mg/L	<0.0004	<0.0004	<0.0004	<0.0004	0.05	0.002
Cobalt	mg/L	0.00014	0.0001	0.00012	0.00006		
Copper	mg/L	<0.001	<0.001	<0.001	<0.001	1	0.004
Lead	mg/L	<0.0001	<0.0001	<0.0001	0.0001	0.01	0.007
Lithium	mg/L	0.003	0.001	0.001	<0.001		
Molybdenum	mg/L	0.0012	0.0008	0.0008	0.0001		
Nickel	mg/L	0.001	<0.001	<0.001	<0.001		0.15
Selenium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	0.01	0.001
Silver	mg/L	0.00001	<0.00001	<0.00001	<0.00001		0.0001
Strontium	mg/L	0.13	0.089	0.086	0.02		
Thallium	mg/L	<0.00001	<0.00001	<0.00001	<0.00001		
Thorium	mg/L	<0.0004	<0.0004	<0.0004	<0.0004		
Tin	mg/L	<0.0001	<0.0001	<0.0001	<0.0001		
Uranium	mg/L	0.0005	0.001	0.001	<0.0004	0.02	
Vanadium	mg/L	0.0002	0.0002	0.0002	0.0002		
Zinc	mg/L	<0.001	<0.001	0.003	0.001	<5	0.03
Zirconium	mg/L	0.0006	0.0002	0.0002	0.0002		
Mercury	mg/L	<0.00001	<0.00001	<0.00001	<0.00001	0.001	0.1

nr=no sample or analysis done ***equal or exceeds Guideline limit***

Table 10. Silver Range Resources - HAMMER Claims June 2013.
Dissolved Metals Analysis Results

Parameter	Units	HAM#1	HAM#2	HAM#3	HAM#4
Calcium	mg/L	26.6	31.1	32.4	3.62
Iron	mg/L	0.248	0.1	0.024	0.045
Magnesium	mg/L	5.88	9.91	10.7	0.55
Manganese	mg/L	0.074	0.015	<0.001	<0.001
Potassium	mg/L	0.8	0.3	0.3	0.2
Silicon	mg/L	4.44	2.6	2.84	2.22
Sodium	mg/L	1.8	1	1.5	1.3
Sulfur	mg/L	1.3	4.5	5	0.5
Titanium	mg/L	<0.010	<0.010	<0.010	<0.010
Aluminum	mg/L	<0.005	0.006	0.007	0.028
Antimony	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Arsenic	mg/L	0.0054	0.0009	0.0002	0.0002
Barium	mg/L	0.129	0.057	0.054	0.013
Beryllium	mg/L	<0.00004	<0.00004	<0.00004	<0.00004
Bismuth	mg/L	<0.001	<0.001	<0.001	<0.001
Boron	mg/L	<0.004	<0.004	<0.004	<0.004
Cadmium	mg/L	0.00001	0.00001	<0.00001	<0.00001
Chromium	mg/L	<0.0004	0.0005	0.0005	<0.0004
Cobalt	mg/L	0.0001	0.00007	0.00006	0.00003
Copper	mg/L	<0.001	<0.001	<0.001	<0.001
Lead	mg/L	<0.0001	<0.0001	<0.0001	<0.0001
Lithium	mg/L	0.003	0.001	0.001	<0.001
Molybdenum	mg/L	0.00097	0.00068	0.00065	<0.00010
Nickel	mg/L	0.001	<0.001	<0.001	<0.001
Selenium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006
Silver	mg/L	<0.00001	<0.00001	<0.00001	<0.00001
Strontium	mg/L	0.122	0.085	0.082	0.019
Thallium	mg/L	<0.00001	<0.00001	<0.00001	<0.00001
Thorium	mg/L	<0.0004	<0.0004	<0.0004	<0.0004
Tin	mg/L	<0.0001	<0.0001	<0.0001	<0.0001
Uranium	mg/L	0.0005	0.0009	0.0009	<0.0004
Vanadium	mg/L	0.00014	0.00017	0.00015	0.00012
Zinc	mg/L	<0.001	<0.001	0.001	0.002
Zirconium	mg/L	<0.00010	<0.00010	<0.00010	<0.00010

Table 11 SNAP Claims. Quality Control Total Metals Analysis Results, June 2013.

Parameter	Units	SNAP#2	SNAP#2 Duplicate
Calcium	mg/L	10.8	10.8
Iron	mg/L	<0.010	<0.010
Magnesium	mg/L	2.53	2.53
Manganese	mg/L	<0.0050	<0.0050
Potassium	mg/L	0.62	0.62
Silicon	mg/L	2.56	2.56
Sodium	mg/L	1.24	2.18
Titanium	mg/L	0.0035	0.0035
Aluminum	mg/L	0.057	0.06
Antimony	mg/L	<0.0002	<0.0002
Arsenic	mg/L	<0.0002	<0.0002
Barium	mg/L	0.012	0.012
Beryllium	mg/L	0.00037	0.00028
Bismuth	mg/L	<0.001	<0.001
Boron	mg/L	<0.005	<0.005
Cadmium	mg/L	0.00078	0.00076
Chromium	mg/L	<0.0004	<0.0004
Cobalt	mg/L	0.00011	0.00011
Copper	mg/L	0.001	0.001
Lead	mg/L	<0.0001	<0.0001
Lithium	mg/L	0.003	0.003
Molybdenum	mg/L	0.0001	<0.0001
Nickel	mg/L	0.027	0.027
Selenium	mg/L	<0.0006	<0.0006
Silver	mg/L	<0.00001	<0.00001
Strontium	mg/L	0.067	0.066
Thallium	mg/L	<0.00001	<0.00001
Thorium	mg/L	<0.0004	<0.0004
Tin	mg/L	<0.0001	<0.0001
Uranium	mg/L	<0.0004	<0.0004
Vanadium	mg/L	<0.0001	<0.0001
Zinc	mg/L	0.1	0.096
Zirconium	mg/L	0.0001	0.0001
Mercury	mg/L	<0.00010	<0.00001

indicates>10% variation

As a guide for reviewing site water quality, the Maximum Acceptable Concentration (MAC) according to ***Canadian Drinking Water Quality*** are listed along with the Aquatic Guidelines for the protection of aquatic life in water with a pH of > 6.5 and a total hardness as CaC03 > 180 mg/L according to ***CCME – Canadian Water Quality Guidelines.***
All water quality ***Guideline*** concentrations are based on total metal values.

All laboratory analysis was done by Exova Canada Inc of Surrey B.C.

Laboratory Analytical Reports are attached in Appendix 1.

Data Summaries for REBEL, SNAP and HAMMER stations are on the attached Excel disc.

Quality Control

Quality control samples were taken at Snap #2 for total metals in June 2013.

Discussion

Hydrology

All water quality / hydrology stations were in post freshet mid / moderate summer flow conditions. All stations were ice free.

Flow volume measurements were done on all stations with exception of Snap #4 and Hammer #1. Both sites are in a pond area of the creeks with no suitable cross sections to wade. There was a significant increase in beaver activity near both sites from October 2012.

Laboratory Analytical Results

Parameters that equal or exceed either ***Drinking Water or Aquatic Guidelines*** are highlighted in yellow in the data reporting tables.

REBEL Stations

Station REBEL #1 results exceed the ***Aquatic Guidelines*** for selenium.

SNAP Stations

Station SNAP#1 results exceed ***Aquatic Guidelines*** for aluminum, iron and zinc; and exceeds the ***Drinking Water MAC*** for iron.

Station SNAP#3 results exceed ***Aquatic Guidelines*** for aluminum, cadmium and zinc; and exceeds the ***Drinking Water MAC*** for manganese.

Station SNAP #4 results exceed the ***Aquatic Guidelines*** for Zinc.

HAMMER Stations

Station HAM#1 results exceed ***Aquatic Guidelines*** for iron; and exceeds the ***Drinking Water MAC*** for iron and manganese.

Station HAM#4 results equal the ***Aquatic Guidelines*** limit for aluminum.

Total Mercury concentrations were below the detection limit of 0.0001 mg/L at all stations.

Total cyanide concentrations were at or below the lab detection limit of 0.002 mg/L at all stations.

APPENDIX 1

LABORATORY ANALYTICAL REPORTS

REBEL/SNAP/HAMMER Claims

June 2013

Exova
#104, 19575-55 A Ave.
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Report Transmission Cover Page

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**944092**
Report To:	J. Gibson & Associates	ID:	Silver Range (SRR)	Control Number:	B05944
	Box 20913	Name:	Rebel	Date Received:	Jul 2, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Jul 11, 2013
	Y1A 6P2	LSD:		Report Number:	1838131
Attn:	John Gibson	P.O.:			
Sampled By:	J Gibson	Acct code:			
Company:					

Contact & Affiliation	Address	Delivery Commitments
John Gibson J. Gibson & Associates	, Box 20913 Whitehorse, Yukon Territory Y1A 6P2 Phone: (867) 633-4522 Fax: (867) 668-6895 Email: ludditegibson@gmail.com	On [Lot Verification] send (COA) by Email - Single Report On [Report Approval] send (COC, Test Report) by Email - Merge Reports On [Report Approval] send (Test Report) by Email - Single Report On [Lot Approval and Final Test Report Approval] send (Invoice) by Email - Single Report On [Lot Creation] send (COR) by Email - Single Report

Notes To Clients:

- Analysis was performed on sample 944092-1 to 3 that exceeded the recommended holding time for nitrite/nitrate anions analysis.
- Some total metal results were less than dissolved metal results for sample 944092-1, -2, and -3. The results were verified and are within expected measurement uncertainty.
- pH analysis was performed past the recommended holding time of 15 minutes from sample collection.

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Exova

Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J Gibson
Company:

Project:
ID: Silver Range (SRR)
Name: Rebel
Location:
LSD:
P.O.:
Acct code:

Lot ID: **944092**
Control Number: B05944
Date Received: Jul 2, 2013
Date Reported: Jul 11, 2013
Report Number: 1838131

		Reference Number	944092-1	944092-2	944092-3	
		Sample Date	Jun 27, 2013	Jun 27, 2013	Jun 27, 2013	
		Sample Time	NA	NA	NA	
		Sample Location	Surface	Surface	Surface	
		Sample Description	REB #1	REB #2	REB #3	
		Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Inorganic Nonmetallic Parameters						
Organic Carbon	Total Nonpurgeable	mg/L	1.5	1.6	2.4	0.5
Cyanide	Total	mg/L	<0.002	<0.002	<0.002	0.002
Phosphorus	Total	mg/L	0.006	<0.003	<0.003	0.003
Ammonia - N		mg/L	0.02	0.01	0.02	.01
Metals Dissolved						
Sulfur	Dissolved	mg/L	5.0	5.0	2.2	0.2
Aluminum	Dissolved	mg/L	<0.005	0.005	0.007	0.005
Antimony	Dissolved	mg/L	0.0002	<0.0002	<0.0002	0.0002
Arsenic	Dissolved	mg/L	0.0005	0.0011	0.0004	0.0002
Barium	Dissolved	mg/L	0.051	0.038	0.027	0.001
Beryllium	Dissolved	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Boron	Dissolved	mg/L	<0.004	<0.004	<0.004	0.004
Cadmium	Dissolved	mg/L	0.00004	0.00002	<0.00001	0.00001
Chromium	Dissolved	mg/L	0.0005	0.0006	<0.0004	0.0004
Cobalt	Dissolved	mg/L	0.00006	0.00006	0.00004	0.00002
Copper	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Lead	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Lithium	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Molybdenum	Dissolved	mg/L	0.00184	0.00024	0.00032	0.0001
Nickel	Dissolved	mg/L	0.001	<0.001	<0.001	0.001
Selenium	Dissolved	mg/L	0.0018	<0.0006	<0.0006	0.0006
Silver	Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Titanium	Dissolved	mg/L	<0.010	<0.010	<0.010	0.01
Strontium	Dissolved	mg/L	0.073	0.126	0.089	0.001
Tellurium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium	Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Thorium	Dissolved	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Uranium	Dissolved	mg/L	0.0015	0.0008	<0.0004	0.0004
Vanadium	Dissolved	mg/L	0.00026	0.00018	0.00012	0.0001
Zinc	Dissolved	mg/L	0.002	0.001	<0.001	0.001
Zirconium	Dissolved	mg/L	<0.00010	<0.00010	<0.00010	0.0001
Metals Total						
Calcium	Total	mg/L	34.8	42.1	24.6	0.05
Iron	Total	mg/L	0.085	0.023	0.029	0.01

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J Gibson
Company:

Project:
ID: Silver Range (SRR)
Name: Rebel
Location:
LSD:
P.O.:
Acct code:

Lot ID: **944092**
Control Number: B05944
Date Received: Jul 2, 2013
Date Reported: Jul 11, 2013
Report Number: 1838131

		Reference Number	944092-1	944092-2	944092-3	
		Sample Date	Jun 27, 2013	Jun 27, 2013	Jun 27, 2013	
		Sample Time	NA	NA	NA	
		Sample Location	Surface	Surface	Surface	
		Sample Description	REB #1	REB #2	REB #3	
		Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Total - Continued						
Magnesium	Total	mg/L	10.9	6.24	3.42	0.05
Manganese	Total	mg/L	<0.0050	<0.0050	<0.0050	0.005
Potassium	Total	mg/L	0.92	0.17	0.40	0.1
Silicon	Total	mg/L	2.71	3.42	3.73	0.05
Sulfur	Total	mg/L	8.1	5.2	2.2	0.1
Sodium	Total	mg/L	0.98	0.96	1.72	0.02
Titanium	Total	mg/L	0.0063	0.0036	0.0020	0.001
Aluminum	Total	mg/L	0.014	0.009	0.022	0.005
Antimony	Total	mg/L	0.0002	<0.0002	<0.0002	0.0002
Arsenic	Total	mg/L	0.0005	0.0012	0.0004	0.0002
Barium	Total	mg/L	0.055	0.041	0.031	0.001
Beryllium	Total	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Total	mg/L	<0.0010	<0.0010	<0.0010	0.001
Boron	Total	mg/L	<0.005	<0.005	<0.005	0.004
Cadmium	Total	mg/L	0.00007	0.00002	0.00001	0.00001
Chromium	Total	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Cobalt	Total	mg/L	0.00008	0.00008	0.00006	0.00002
Copper	Total	mg/L	<0.001	<0.001	<0.001	0.001
Lead	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Lithium	Total	mg/L	<0.001	<0.001	<0.001	0.001
Mercury	Total	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Molybdenum	Total	mg/L	0.0020	0.0004	0.0004	0.0001
Nickel	Total	mg/L	0.002	0.001	<0.001	0.001
Selenium	Total	mg/L	0.0012	<0.0006	<0.0006	0.0006
Silver	Total	mg/L	<0.00001	0.00002	0.00001	0.00001
Strontium	Total	mg/L	0.075	0.134	0.093	0.001
Tellurium	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium	Total	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Thorium	Total	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Uranium	Total	mg/L	0.0016	0.0009	<0.0004	0.0004
Vanadium	Total	mg/L	0.0003	<0.0001	0.0002	0.0001
Zinc	Total	mg/L	0.002	0.001	<0.001	0.001
Zirconium	Total	mg/L	0.0005	0.0002	0.0003	0.0001
Routine Water						
pH	at 25 °C		8.04	8.14	7.94	

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**944092**
Report To:	J. Gibson & Associates	ID:	Silver Range (SRR)	Control Number:	B05944
	Box 20913	Name:	Rebel	Date Received:	Jul 2, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Jul 11, 2013
	Y1A 6P2	LSD:		Report Number:	1838131
Attn:	John Gibson	P.O.:			
Sampled By:	J Gibson	Acct code:			
Company:					

		Reference Number	944092-1	944092-2	944092-3	
		Sample Date	Jun 27, 2013	Jun 27, 2013	Jun 27, 2013	
		Sample Time	NA	NA	NA	
		Sample Location	Surface	Surface	Surface	
		Sample Description	REB #1	REB #2	REB #3	
		Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Routine Water - Continued						
Electrical Conductivity		µS/cm at 25 C	241	226	138	1
Calcium	Dissolved	mg/L	39.6	37.8	22.3	0.1
Iron	Dissolved	mg/L	0.010	<0.005	0.007	0.005
Magnesium	Dissolved	mg/L	5.91	5.76	3.18	0.1
Manganese	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Potassium	Dissolved	mg/L	0.2	0.3	0.5	0.1
Silicon	Dissolved	mg/L	3.11	3.16	3.53	0.05
Sodium	Dissolved	mg/L	0.9	0.9	1.2	0.1
Bicarbonate		mg/L	128	132	82	5
Carbonate		mg/L	<6	<6	<6	6
Hydroxide		mg/L	<5	<5	<5	5
P-Alkalinity	as CaCO3	mg/L	<5	<5	<5	5
T-Alkalinity	as CaCO3	mg/L	105	108	67	5
Chloride	Dissolved	mg/L	0.06	<0.05	<0.05	0.05
Nitrate - N	Dissolved	mg/L	0.05	0.07	0.02	0.01
Nitrite - N	Dissolved	mg/L	<0.01	<0.01	<0.01	0.01
Sulfate (SO4)	Dissolved	mg/L	26.4	15.8	7.0	0.5
Hardness	as CaCO3	mg/L	123	118	69	5
Hardness	Total	mg CaCO3/L	132	131	75.6	1

Approved by:

Mathieu Simoneau
Operations Manager

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Methodology and Notes

Bill To:	J. Gibson & Associates	Project:	
Report To:	J. Gibson & Associates	ID:	Silver Range (SRR)
	Box 20913	Name:	Rebel
	Whitehorse, YT, Canada	Location:	
	Y1A 6P2	LSD:	
Attn:	John Gibson	P.O.:	
Sampled By:	J Gibson	Acct code:	
Company:			

Lot ID:	**944092**
Control Number:	B05944
Date Received:	Jul 2, 2013
Date Reported:	Jul 11, 2013
Report Number:	1838131

Method of Analysis

Method Name	Reference	Method	Date Analysis Started	Location
Alk, pH, EC, Turb in water (Surrey)	APHA	* Alkalinity - Titration Method, 2320 B	03-Jul-13	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	* Conductivity, 2510 B	03-Jul-13	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	* pH - Electrometric Method, 4500-H+ B	03-Jul-13	Exova Surrey
Ammonia-N in Water (Surrey)	APHA	* Flow Injection Analysis, 4500-NH3 H	04-Jul-13	Exova Surrey
Anions by IEC in water (Surrey)	APHA	* Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	03-Jul-13	Exova Surrey
Carbon Organic (Total) in water (TOC)	APHA	High-Temperature Combustion Method, 5310 B	05-Jul-13	Exova Edmonton
Cyanide (Total) in water	US EPA	* US EPA method, 335.3	05-Jul-13	Exova Edmonton
Mercury Low Level (Total) in water (Surrey)	EPA	* Mercury in Water by Cold Vapor Atomic Fluorescence Spectrometry, 245.7	08-Jul-13	Exova Surrey
Metals SemiTrace (Dissolved) in water (Surrey)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	04-Jul-13	Exova Surrey
Metals SemiTrace (Dissolved) in water (Surrey)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	08-Jul-13	Exova Surrey
Metals SemiTrace (Total) in Water (Surrey)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	03-Jul-13	Exova Surrey
Metals SemiTrace (Total) in Water (Surrey)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	08-Jul-13	Exova Surrey
Phosphorus - total (low level) - Surrey	APHA	* Preliminary Acid Hydrolysis, Ascorbic Acid Reduction Method, 4500-P B,E	03-Jul-13	Exova Surrey
Trace Metals (dissolved) in Water (Surrey)	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	04-Jul-13	Exova Surrey
Trace Metals (dissolved) in Water (Surrey)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	04-Jul-13	Exova Surrey
Trace Metals (Total) in Water (Surrey)	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	03-Jul-13	Exova Surrey
Trace Metals (Total) in Water (Surrey)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	03-Jul-13	Exova Surrey

** Reference Method Modified*

References

APHA	Standard Methods for the Examination of Water and Wastewater
US EPA	US Environmental Protection Agency Test Methods

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V3S 8P8, Canada

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Methodology and Notes

Bill To:	J. Gibson & Associates	Project:	
Report To:	J. Gibson & Associates	ID:	Silver Range (SRR)
	Box 20913	Name:	Rebel
	Whitehorse, YT, Canada	Location:	
	Y1A 6P2	LSD:	
Attn:	John Gibson	P.O.:	
Sampled By:	J Gibson	Acct code:	
Company:			

Lot ID:	**944092**
Control Number:	B05944
Date Received:	Jul 2, 2013
Date Reported:	Jul 11, 2013
Report Number:	1838131

Comments:

- Analysis was performed on sample 944092-1 to 3 that exceeded the recommended holding time for nitrite/nitrate anions analysis.
- Some total metal results were less than dissolved metal results for sample 944092-1, -2, and -3. The results were verified and are within expected measurement uncertainty.
- pH analysis was performed past the recommended holding time of 15 minutes from sample collection.

Please direct any inquiries regarding this report to our Client Services group.
Results relate only to samples as submitted.
The test report shall not be reproduced except in full, without the written approval of the laboratory.

Exova Testing Advising Assuring

www.exova.com

Project Information

Project ID: SILVER RANGE (SRR)
Project Name: REBEL
Project Location:
Legal Location:
PO/AFE#:
Proj. Acct. Code:

Billing Information

Company: J. Gibson & Associates
Address: Whitehorse, YT Y1A 6P2
Attention: John Gibson
Phone: (867) 633-4522
Cell:
Fax: (867) 668-6895
E-mail: ludditegibson@gmail.com
Agreement ID: 6646
Copy of report: X

Copy of Report To:

Company: J. Gibson & Associates
Address: Whitehorse, YT Y1A 6P2
Attention: John Gibson
Phone: (867) 633-4522
Cell:
Fax: (867) 668-6895
E-mail: ludditegibson@gmail.com
Copy of invoice: X

RUSH Priority

Upon filling out this section, client accepts that surcharges will be applied to the analysis

Date Required
As Indicated | All Analysis

When "ASAP" is requested, turn around will default to a 100% RUSH priority, with pricing and turn around time to match. Please contact the lab prior to submitting RUSH samples.

Signature

Report Results: E-mail / Mail / Online / Fax / PDF / Excel / QA/QC Report

Special Instructions/Comments (please include contact information including ph. # if different from above).
RCHEM=PH, EC, TP, N2, N3, TALK, CL, SO4, HARDT, METALS + NITRIC, TW23'S FIELD FILTER. TSS, TDS NH4 + SULFURIC, TCN + NaOH, TOC + HCL

Include Regulatory Requirements Below:

Sample Custody (please print)

Sampled by: J GIBSON
Company:
I authorize Exova to proceed with the work indicated on this form:
Date: July, 13 Initial: 16

This section for Lab use only

Date/Time stamp:
07-02-13P05:35 RCVD
07-02-13P05:35 RCVD

	Sample Identification	Location	Depth IN CM M	Date/Time sampled	Matrix	Sampling Method	Number of Containers	RCHEM	NH4	TOC		TCN	TW23 SWF	TW24 90 + THg		
1																
2	REB #1	SURF	/	JUN 27	H2O	Grab	6	✓	✓	✓		✓	✓	✓		
3		↓		↓	↓	↓										
4	REB #2						6	✓	✓	✓		✓	✓	✓		
5																
6	REB #3						6	✓	✓	✓		✓	✓	✓		
7																
8																
9																
10																
11																
12																
13																
14																
15																

Enter tests above (√ relevant samples below)

Indicate below any deficiencies in the condition of samples:

Were Exova supplies used?
Was there any damage to the shipping container?
Were the containers packaged well?
Were any extra samples received (document below)?
Are samples within recommended holding times/temp?

ED 120-00

Environmental Sample Information Sheet

Note: Proper completion of this form is required in order to proceed with analysis

Please indicate any potentially hazardous samples

LOT: 944092 COC

Shipping: COD Y/N
Cooler temp: 10.1

and size of coolers received:
Delivery Method:
Waybill:
Received by:

Page 1 of 1 Control # B05944

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V3S 8P8, Canada

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Report Transmission Cover Page

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**944112**
Report To:	J. Gibson & Associates	ID:	Silver Range(SRR)	Control Number:	B05941
	Box 20913	Name:	Snap	Date Received:	Jul 2, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Jul 11, 2013
	Y1A 6P2	LSD:		Report Number:	1838155
Attn:	John Gibson	P.O.:			
Sampled By:	J.Gibson	Acct code:			
Company:					

Contact & Affiliation	Address	Delivery Commitments
John Gibson J. Gibson & Associates	, Box 20913 Whitehorse, Yukon Territory Y1A 6P2 Phone: (867) 633-4522 Fax: (867) 668-6895 Email: ludditegibson@gmail.com	On [Lot Verification] send (COA) by Email - Single Report On [Report Approval] send (COC, Test Report) by Email - Merge Reports On [Report Approval] send (Test Report) by Email - Single Report On [Lot Approval and Final Test Report Approval] send (Invoice) by Email - Single Report On [Lot Creation] send (COR) by Email - Single Report

Notes To Clients:

- Analysis was performed on sample 944112-1 to 4 that exceeded the recommended holding time for nitrite/nitrate anions analysis.
- Some total metal results were less than dissolved metal results for samples 944112-1, -2, and -4. The results were verified and are within expected measurement uncertainty.
- pH analysis was performed past the recommended holding time of 15 minutes from sample collection.

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**944112**
Report To:	J. Gibson & Associates	ID:	Silver Range(SRR)	Control Number:	B05941
	Box 20913	Name:	Snap	Date Received:	Jul 2, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Jul 11, 2013
	Y1A 6P2	LSD:		Report Number:	1838155
Attn:	John Gibson	P.O.:			
Sampled By:	J.Gibson	Acct code:			
Company:					

			Reference Number	944112-1	944112-2	944112-3	
			Sample Date	Jun 28, 2013	Jun 28, 2013	Jun 28, 2013	
			Sample Time	NA	NA	NA	
			Sample Location				
			Sample Description	Surf / Snap #1	Surf / Snap #2	Surf / Snap #3	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Inorganic Nonmetallic Parameters							
Organic Carbon	Total Nonpurgeable	mg/L		1.6	0.9	1.7	0.5
Cyanide	Total	mg/L		<0.002	<0.002	<0.002	0.002
Phosphorus	Total	mg/L		0.011	<0.003	<0.003	0.003
Ammonia - N		mg/L		0.02	0.01	0.02	.01
Metals Dissolved							
Sulfur	Dissolved	mg/L		7.3	8.9	7.6	0.2
Aluminum	Dissolved	mg/L		0.015	0.037	0.071	0.005
Antimony	Dissolved	mg/L		<0.0002	<0.0002	<0.0002	0.0002
Arsenic	Dissolved	mg/L		0.0009	<0.0002	<0.0002	0.0002
Barium	Dissolved	mg/L		0.014	0.011	0.014	0.001
Beryllium	Dissolved	mg/L		<0.00004	0.00027	0.00022	0.00004
Bismuth	Dissolved	mg/L		<0.001	<0.001	<0.001	0.001
Boron	Dissolved	mg/L		<0.004	<0.004	<0.004	0.004
Cadmium	Dissolved	mg/L		0.00033	0.00071	0.00175	0.00001
Chromium	Dissolved	mg/L		<0.0004	<0.0004	<0.0004	0.0004
Cobalt	Dissolved	mg/L		0.00008	0.00008	0.00006	0.00002
Copper	Dissolved	mg/L		<0.001	<0.001	<0.001	0.001
Lead	Dissolved	mg/L		0.0003	<0.0001	0.0001	0.0001
Lithium	Dissolved	mg/L		0.001	0.002	0.001	0.001
Molybdenum	Dissolved	mg/L		0.00012	<0.00010	<0.00010	0.0001
Nickel	Dissolved	mg/L		0.008	0.023	0.003	0.001
Selenium	Dissolved	mg/L		<0.0006	<0.0006	<0.0006	0.0006
Silver	Dissolved	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Titanium	Dissolved	mg/L		<0.010	<0.010	<0.010	0.01
Strontium	Dissolved	mg/L		0.062	0.060	0.046	0.001
Tellurium	Dissolved	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Thallium	Dissolved	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Thorium	Dissolved	mg/L		<0.0004	<0.0004	<0.0004	0.0004
Tin	Dissolved	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Uranium	Dissolved	mg/L		<0.0004	<0.0004	<0.0004	0.0004
Vanadium	Dissolved	mg/L		<0.00010	<0.00010	<0.0001	0.0001
Zinc	Dissolved	mg/L		0.083	0.090	0.502	0.001
Zirconium	Dissolved	mg/L		<0.00010	<0.00010	<0.00010	0.0001
Metals Total							
Calcium	Total	mg/L		12.8	10.8	8.05	0.05
Iron	Total	mg/L		0.361	<0.010	0.044	0.01

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**944112**
Report To:	J. Gibson & Associates	ID:	Silver Range(SRR)	Control Number:	B05941
	Box 20913	Name:	Snap	Date Received:	Jul 2, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Jul 11, 2013
	Y1A 6P2	LSD:		Report Number:	1838155
Attn:	John Gibson	P.O.:			
Sampled By:	J.Gibson	Acct code:			
Company:					

			Reference Number	944112-1	944112-2	944112-3	
			Sample Date	Jun 28, 2013	Jun 28, 2013	Jun 28, 2013	
			Sample Time	NA	NA	NA	
			Sample Location				
			Sample Description	Surf / Snap #1	Surf / Snap #2	Surf / Snap #3	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Total - Continued							
Magnesium	Total	mg/L		2.22	2.53	1.38	0.05
Manganese	Total	mg/L		0.0250	<0.0050	0.422	0.005
Potassium	Total	mg/L		0.63	0.62	0.50	0.1
Silicon	Total	mg/L		2.78	2.56	3.31	0.05
Sulfur	Total	mg/L		7.9	9.5	8.2	0.1
Sodium	Total	mg/L		1.22	1.24	1.47	0.02
Titanium	Total	mg/L		0.0063	0.0035	<0.0010	0.001
Aluminum	Total	mg/L		0.100	0.057	0.606	0.005
Antimony	Total	mg/L		<0.0002	<0.0002	<0.0002	0.0002
Arsenic	Total	mg/L		0.0012	<0.0002	0.0003	0.0002
Barium	Total	mg/L		0.016	0.012	0.016	0.001
Beryllium	Total	mg/L		0.00007	0.00037	0.00037	0.00004
Bismuth	Total	mg/L		<0.001	<0.001	<0.001	0.001
Boron	Total	mg/L		<0.005	<0.005	<0.005	0.004
Cadmium	Total	mg/L		0.00039	0.00078	0.00192	0.00001
Chromium	Total	mg/L		<0.0004	<0.0004	<0.0004	0.0004
Cobalt	Total	mg/L		0.00016	0.00011	0.00009	0.00002
Copper	Total	mg/L		<0.001	0.001	0.001	0.001
Lead	Total	mg/L		0.0010	<0.0001	0.0005	0.0001
Lithium	Total	mg/L		0.002	0.003	0.002	0.001
Mercury	Total	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Molybdenum	Total	mg/L		0.0002	0.0001	<0.0001	0.0001
Nickel	Total	mg/L		0.009	0.027	0.003	0.001
Selenium	Total	mg/L		<0.0006	<0.0006	<0.0006	0.0006
Silver	Total	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Strontium	Total	mg/L		0.066	0.067	0.050	0.001
Tellurium	Total	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Thallium	Total	mg/L		<0.00001	<0.00001	0.00001	0.00001
Thorium	Total	mg/L		<0.0004	<0.0004	<0.0004	0.0004
Tin	Total	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Uranium	Total	mg/L		0.0005	<0.0004	<0.0004	0.0004
Vanadium	Total	mg/L		0.0003	<0.0001	<0.0001	0.0001
Zinc	Total	mg/L		0.095	0.100	0.552	0.001
Zirconium	Total	mg/L		0.0002	0.0001	0.0002	0.0001
Physical and Aggregate Properties							
Solids	Total Suspended	mg/L		6	<2	<2	1

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**944112**
Report To:	J. Gibson & Associates	ID:	Silver Range(SRR)	Control Number:	B05941
	Box 20913	Name:	Snap	Date Received:	Jul 2, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Jul 11, 2013
	Y1A 6P2	LSD:		Report Number:	1838155
Attn:	John Gibson	P.O.:			
Sampled By:	J.Gibson	Acct code:			
Company:					

			Reference Number	944112-1	944112-2	944112-3	
			Sample Date	Jun 28, 2013	Jun 28, 2013	Jun 28, 2013	
			Sample Time	NA	NA	NA	
			Sample Location				
			Sample Description	Surf / Snap #1	Surf / Snap #2	Surf / Snap #3	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Physical and Aggregate Properties - Continued							
Solids	Total Dissolved	mg/L		32	42	24	5
Routine Water							
pH	at 25 °C			7.30	7.02	6.60	
Electrical Conductivity		µS/cm at 25 C		91	88	68	1
Calcium	Dissolved	mg/L		12.1	10.4	7.70	0.1
Iron	Dissolved	mg/L		0.154	<0.005	0.011	0.005
Magnesium	Dissolved	mg/L		2.11	2.46	1.31	0.1
Manganese	Dissolved	mg/L		0.017	0.005	0.391	0.001
Potassium	Dissolved	mg/L		0.5	0.5	0.4	0.1
Silicon	Dissolved	mg/L		2.42	2.34	2.92	0.05
Sodium	Dissolved	mg/L		1.6	1.6	1.1	0.1
Bicarbonate		mg/L		18	<5	<5	5
Carbonate		mg/L		<6	8	<6	6
Hydroxide		mg/L		<5	<5	<5	5
P-Alkalinity	as CaCO3	mg/L		<5	<5	<5	5
T-Alkalinity	as CaCO3	mg/L		15	7	<5	5
Chloride	Dissolved	mg/L		0.06	0.06	<0.05	0.05
Nitrate - N	Dissolved	mg/L		0.02	0.04	<0.01	0.01
Nitrite - N	Dissolved	mg/L		<0.01	<0.01	<0.01	0.01
Sulfate (SO4)	Dissolved	mg/L		24.6	30.0	25.4	0.5
Hardness	as CaCO3	mg/L		39	36	25	5
Hardness	Total	mg CaCO3/L		41.2	37.4	25.8	1

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**944112**
Report To:	J. Gibson & Associates	ID:	Silver Range(SRR)	Control Number:	B05941
	Box 20913	Name:	Snap	Date Received:	Jul 2, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Jul 11, 2013
	Y1A 6P2	LSD:		Report Number:	1838155
Attn:	John Gibson	P.O.:			
Sampled By:	J.Gibson	Acct code:			
Company:					

Reference Number	944112-4
Sample Date	Jun 28, 2013
Sample Time	NA
Sample Location	
Sample Description	Surf / Snap #4
Matrix	Water

Analyte		Units	Results	Results	Results	Nominal Detection Limit
Inorganic Nonmetallic Parameters						
Organic Carbon	Total Nonpurgeable	mg/L	1.4			0.5
Cyanide	Total	mg/L	<0.002			0.002
Phosphorus	Total	mg/L	0.007			0.003
Ammonia - N		mg/L	<0.01			.01
Metals Dissolved						
Sulfur	Dissolved	mg/L	8.7			0.2
Aluminum	Dissolved	mg/L	0.019			0.005
Antimony	Dissolved	mg/L	<0.0002			0.0002
Arsenic	Dissolved	mg/L	0.0011			0.0002
Barium	Dissolved	mg/L	0.013			0.001
Beryllium	Dissolved	mg/L	0.00006			0.00004
Bismuth	Dissolved	mg/L	<0.001			0.001
Boron	Dissolved	mg/L	<0.004			0.004
Cadmium	Dissolved	mg/L	0.00060			0.00001
Chromium	Dissolved	mg/L	<0.0004			0.0004
Cobalt	Dissolved	mg/L	0.00010			0.00002
Copper	Dissolved	mg/L	<0.001			0.001
Lead	Dissolved	mg/L	0.0004			0.0001
Lithium	Dissolved	mg/L	0.002			0.001
Molybdenum	Dissolved	mg/L	<0.00010			0.0001
Nickel	Dissolved	mg/L	0.013			0.001
Selenium	Dissolved	mg/L	<0.0006			0.0006
Silver	Dissolved	mg/L	<0.00001			0.00001
Titanium	Dissolved	mg/L	0.016			0.01
Strontium	Dissolved	mg/L	0.064			0.001
Tellurium	Dissolved	mg/L	<0.0001			0.0001
Thallium	Dissolved	mg/L	<0.00001			0.00001
Thorium	Dissolved	mg/L	<0.0004			0.0004
Tin	Dissolved	mg/L	<0.0001			0.0001
Uranium	Dissolved	mg/L	<0.0004			0.0004
Vanadium	Dissolved	mg/L	<0.00010			0.0001
Zinc	Dissolved	mg/L	0.134			0.001
Zirconium	Dissolved	mg/L	<0.00010			0.0001
Physical and Aggregate Properties						
Solids	Total Suspended	mg/L	<2			1
Solids	Total Dissolved	mg/L	34			5

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**944112**
Report To:	J. Gibson & Associates	ID:	Silver Range(SRR)	Control Number:	B05941
	Box 20913	Name:	Snap	Date Received:	Jul 2, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Jul 11, 2013
	Y1A 6P2	LSD:		Report Number:	1838155
Attn:	John Gibson	P.O.:			
Sampled By:	J.Gibson	Acct code:			
Company:					

Reference Number	944112-4
Sample Date	Jun 28, 2013
Sample Time	NA
Sample Location	
Sample Description	Surf / Snap #4
Matrix	Water

Analyte		Units	Results	Results	Results	Nominal Detection Limit
Routine Water						
pH	at 25 °C		6.99			
Electrical Conductivity		µS/cm at 25 C	88			1
Calcium	Dissolved	mg/L	10.8			0.1
Iron	Dissolved	mg/L	0.214			0.005
Magnesium	Dissolved	mg/L	2.41			0.1
Manganese	Dissolved	mg/L	0.016			0.001
Potassium	Dissolved	mg/L	0.6			0.1
Silicon	Dissolved	mg/L	2.50			0.05
Sodium	Dissolved	mg/L	1.2			0.1
Bicarbonate		mg/L	<5			5
Carbonate		mg/L	9			6
Hydroxide		mg/L	<5			5
P-Alkalinity	as CaCO3	mg/L	<5			5
T-Alkalinity	as CaCO3	mg/L	8			5
Chloride	Dissolved	mg/L	0.06			0.05
Nitrate - N	Dissolved	mg/L	0.02			0.01
Nitrite - N	Dissolved	mg/L	<0.01			0.01
Sulfate (SO4)	Dissolved	mg/L	29.4			0.5
Hardness	as CaCO3	mg/L	37			5
Hardness	Total	mg CaCO3/L	38.6			1

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Report To:	J. Gibson & Associates	ID:	Silver Range(SRR)	Control Number:	B05941
	Box 20913	Name:	Snap	Date Received:	Jul 2, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Jul 11, 2013
	Y1A 6P2	LSD:		Report Number:	1838155
Attn:	John Gibson	P.O.:			
Sampled By:	J.Gibson	Acct code:			
Company:					

			Reference Number	944112-4	944112-5		
			Sample Date	Jun 28, 2013	Jun 28, 2013		
			Sample Time	NA	NA		
			Sample Location				
			Sample Description	Surf / Snap #4	Surf / Snap #2 Duplicate		
			Matrix	Water	Water		
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Total							
Calcium	Total	mg/L		11.4	10.8		0.05
Iron	Total	mg/L		0.216	<0.010		0.01
Magnesium	Total	mg/L		2.48	2.57		0.05
Manganese	Total	mg/L		0.0147	<0.0050		0.005
Potassium	Total	mg/L		0.62	0.68		0.1
Silicon	Total	mg/L		2.76	2.56		0.05
Sulfur	Total	mg/L		9.3	9.4		0.1
Sodium	Total	mg/L		1.30	2.18		0.02
Titanium	Total	mg/L		0.0083	0.0080		0.001
Aluminum	Total	mg/L		0.057	0.060		0.005
Antimony	Total	mg/L		<0.0002	<0.0002		0.0002
Arsenic	Total	mg/L		0.0012	<0.0002		0.0002
Barium	Total	mg/L		0.015	0.012		0.001
Beryllium	Total	mg/L		0.00014	0.00028		0.00004
Bismuth	Total	mg/L		<0.001	<0.001		0.001
Boron	Total	mg/L		<0.005	<0.005		0.004
Cadmium	Total	mg/L		0.00067	0.00076		0.00001
Chromium	Total	mg/L		<0.0004	<0.0004		0.0004
Cobalt	Total	mg/L		0.00012	0.00011		0.00002
Copper	Total	mg/L		<0.001	0.001		0.001
Lead	Total	mg/L		0.0013	<0.0001		0.0001
Lithium	Total	mg/L		0.002	0.003		0.001
Mercury	Total	mg/L		<0.00001	<0.00001		0.00001
Molybdenum	Total	mg/L		<0.0001	<0.0001		0.0001
Nickel	Total	mg/L		0.014	0.027		0.001
Selenium	Total	mg/L		<0.0006	<0.0006		0.0006
Silver	Total	mg/L		<0.00001	<0.00001		0.00001
Strontium	Total	mg/L		0.070	0.066		0.001
Tellurium	Total	mg/L		<0.0001	<0.0001		0.0001
Thallium	Total	mg/L		<0.00001	<0.00001		0.00001
Thorium	Total	mg/L		<0.0004	<0.0004		0.0004
Tin	Total	mg/L		<0.0001	<0.0001		0.0001
Uranium	Total	mg/L		<0.0004	<0.0004		0.0004
Vanadium	Total	mg/L		<0.0001	<0.0001		0.0001
Zinc	Total	mg/L		0.141	0.096		0.001
Zirconium	Total	mg/L		0.0002	0.0001		0.0001

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Analytical Report

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Report To:	J. Gibson & Associates	ID:	Silver Range(SRR)
	Box 20913	Name:	Snap
	Whitehorse, YT, Canada	Location:	
	Y1A 6P2	LSD:	
Attn:	John Gibson	P.O.:	
Sampled By:	J.Gibson	Acct code:	
Company:			

Lot ID:	**944112**
Control Number:	B05941
Date Received:	Jul 2, 2013
Date Reported:	Jul 11, 2013
Report Number:	1838155

Approved by:

Mathieu Simoneau
Operations Manager

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Methodology and Notes

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**944112**
Report To:	J. Gibson & Associates	ID:	Silver Range(SRR)	Control Number:	B05941
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	Whitehorse, YT, Canada	Location:		Date Reported:	Jul 11, 2013
	Y1A 6P2	LSD:		Report Number:	1838155
Attn:	John Gibson	P.O.:			
Sampled By:	J.Gibson	Acct code:			
Company:					

Method of Analysis

Method Name	Reference		Method	Date Analysis Started	Location
Alk, pH, EC, Turb in water (Surrey)	APHA	*	Alkalinity - Titration Method, 2320 B	03-Jul-13	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	*	Conductivity, 2510 B	03-Jul-13	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	*	pH - Electrometric Method, 4500-H+ B	03-Jul-13	Exova Surrey
Ammonia-N in Water (Surrey)	APHA	*	Flow Injection Analysis, 4500-NH3 H	04-Jul-13	Exova Surrey
Anions by IEC in water (Surrey)	APHA	*	Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	03-Jul-13	Exova Surrey
Carbon Organic (Total) in water (TOC)	APHA		High-Temperature Combustion Method, 5310 B	05-Jul-13	Exova Edmonton
Cyanide (Total) in water	US EPA	*	US EPA method, 335.3	05-Jul-13	Exova Edmonton
Mercury Low Level (Total) in water (Surrey)	EPA	*	Mercury in Water by Cold Vapor Atomic Fluorescence Spectrometry, 245.7	08-Jul-13	Exova Surrey
Metals SemiTrace (Dissolved) in water (Surrey)	US EPA	*	Metals & Trace Elements by ICP-AES, 6010C	04-Jul-13	Exova Surrey
Metals SemiTrace (Total) in Water (Surrey)	US EPA	*	Metals & Trace Elements by ICP-AES, 6010C	03-Jul-13	Exova Surrey
Phosphorus - total (low level) - Surrey	APHA	*	Preliminary Acid Hydrolysis, Ascorbic Acid Reduction Method, 4500-P B,E	03-Jul-13	Exova Surrey
Solids Dissolved (Total, Fixed and Volatile) - Surrey	APHA	*	Total Dissolved Solids Dried at 180 C, 2540 C	04-Jul-13	Exova Surrey
Solids Suspended (Total, Fixed and Volatile)	APHA	*	Total Suspended Solids Dried at 103-105'C, 2540 D	04-Jul-13	Exova Surrey
Trace Metals (dissolved) in Water (Surrey)	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	04-Jul-13	Exova Surrey
Trace Metals (dissolved) in Water (Surrey)	US EPA	*	Metals & Trace Elements by ICP-AES, 6010C	04-Jul-13	Exova Surrey
Trace Metals (Total) in Water (Surrey)	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	03-Jul-13	Exova Surrey
Trace Metals (Total) in Water (Surrey)	US EPA	*	Metals & Trace Elements by ICP-AES, 6010C	03-Jul-13	Exova Surrey

** Reference Method Modified*

References

APHA	Standard Methods for the Examination of Water and Wastewater
US EPA	US Environmental Protection Agency Test Methods

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Methodology and Notes

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**944112**
Report To:	J. Gibson & Associates	ID:	Silver Range(SRR)	Control Number:	B05941
	Box 20913	Name:	Snap	Date Received:	Jul 2, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Jul 11, 2013
	Y1A 6P2	LSD:		Report Number:	1838155
Attn:	John Gibson	P.O.:			
Sampled By:	J.Gibson	Acct code:			
Company:					

Comments:

- Analysis was performed on sample 944112-1 to 4 that exceeded the recommended holding time for nitrite/nitrate anions analysis.
- Some total metal results were less than dissolved metal results for samples 944112-1, -2, and -4. The results were verified and are within expected measurement uncertainty.
- pH analysis was performed past the recommended holding time of 15 minutes from sample collection.

Please direct any inquiries regarding this report to our Client Services group.
Results relate only to samples as submitted.
The test report shall not be reproduced except in full, without the written approval of the laboratory.

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Project Information	
Project ID:	SILVER RANGE (SRR)
Project Name:	SNAP
Project Location:	
Legal Location:	
PO/AFE#:	
Proj. Acct. Code:	

Billing Information		Copy of Report To:	
Company:	J. Gibson & Associates	Company:	J. Gibson & Associates
Address:	Whitehorse, YT Y1A 6P2	Address:	Whitehorse, YT Y1A 6P2
Attention:	John Gibson	Attention:	John Gibson
Phone:	(867) 633-4522	Phone:	(867) 633-4522
Cell:		Cell:	
Fax:	(867) 668-6895	Fax:	(867) 668-6895
E-mail:	ludditegibson@gmail.com	E-mail:	ludditegibson@gmail.com
Agreement ID:	6646		
Copy of report:	X	Copy of invoice:	X

RUSH Priority

Upon filling out this section, client accepts that surcharges will be applied to the analysis

Date Required

As Indicated | All Analysis

When "ASAP" is requested, turn around will default to a 100% RUSH priority, with pricing and turn around time to match. Please contact the lab prior to submitting RUSH samples.

Signature

Sample Custody (please print)

Sampled by: J GIBSON

Company:

I authorize Exova to proceed with the work indicated on this form:

Date: July 1/13 Initial: JG

This section for Lab use only

Date/Time stamp: 07-02-13P05:35 RCVD

Report Results: E-mail / Mail / Online / Fax / PDF / Excel / QA/QC Report

Special Instructions/Comments (please include contact information including ph. # if different from above).

RC = PH, EC, TP, N_2, N_3, TALK, CL, SO4, HARDT, TSS, TDS
METALS + NITRIC, TW23S FIELD FILTERED
NH_4 + SULFURIC, TCN + NaOH, TOC + HCL

Include Regulatory Requirements Below: OK LS

	Sample Identification	Location	Depth IN CM M	Date/Time sampled	Matrix	Sampling Method	Number of Containers	RCHEM	NH4	TOC	TCN	TW23ENF	TW24ow+THg
1													
2	SNAP #1	SURF	/	JUNE 27+28	H_2O	Grab	6	✓	✓	✓	✓	✓	✓
3													
4	SNAP #2	↓		↓			6	✓	✓	✓	✓	✓	✓
5													
6	SNAP #3						6	✓	✓	✓	✓	✓	✓
7													
8	SNAP #4						6	✓	✓	✓	✓	✓	✓
9													
10													
11	SNAP #2 DUPLICATE						1						✓
12													
13													
14													
15													

Enter tests above (√ relevant samples below)

Indicate below any deficiencies in the condition of samples:

- Were Exova supplies used?
- Was there any damage to the shipping container?
- Were the containers packaged well?
- Were any extra samples received (document below)?
- Are samples within recommended holding times/temp?

ED 120-00

Environmental Sample Information Sheet

Note: Proper completion of this form is required in order to proceed with analysis

Please indicate any potentially hazardous samples

Page 1 of 1 Control # B05941

LOT: 944112 COC

Shipping: COD Y/N

Cooler temp: 10.1

and size of coolers received:

Delivery Method:

Waybill:

Received by:

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V3S 8P8, Canada

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Report Transmission Cover Page

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**944098**
Report To:	J. Gibson & Associates Box 20913 Whitehorse, YT, Canada Y1A 6P2	ID: Name: Location: LSD:	Silver Range (SRR) Hammer	Control Number: Date Received: Date Reported: Report Number:	B05943 Jul 2, 2013 Jul 11, 2013 1838142
Attn:	John Gibson	P.O.:			
Sampled By:	J.Gibson	Acct code:			
Company:					

Contact & Affiliation	Address	Delivery Commitments
John Gibson J. Gibson & Associates	, Box 20913 Whitehorse, Yukon Territory Y1A 6P2 Phone: (867) 633-4522 Fax: (867) 668-6895 Email: ludditegibson@gmail.com	On [Lot Verification] send (COA) by Email - Single Report On [Report Approval] send (COC, Test Report) by Email - Merge Reports On [Report Approval] send (Test Report) by Email - Single Report On [Lot Approval and Final Test Report Approval] send (Invoice) by Email - Single Report On [Lot Creation] send (COR) by Email - Single Report

Notes To Clients:

- Analysis was performed on sample 944098-1 o 4 that exceeded the recommended holding time for nitrite/nitrate anions analysis.
- Some total metal results were less than dissolved metal results for sample 944098-2, -3, and -4. The results were verified and are within expected measurement uncertainty.
- pH analysis was performed past the recommended holding time of 15 minutes from sample collection.
- pH analysis was performed past the recommended holding time of 15 minutes from sample collection.

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J.Gibson
Company:

Project:
ID: Silver Range (SRR)
Name: Hammer
Location:
LSD:
P.O.:
Acct code:

Lot ID: **944098**
Control Number: B05943
Date Received: Jul 2, 2013
Date Reported: Jul 11, 2013
Report Number: 1838142

			Reference Number	944098-1	944098-2	944098-3	
			Sample Date	Jun 27, 2013	Jun 27, 2013	Jun 27, 2013	
			Sample Time	NA	NA	NA	
			Sample Location				
			Sample Description	Surf / Ham #1	Surf / Ham #2	Surf / Ham #3	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Inorganic Nonmetallic Parameters							
Organic Carbon	Total Nonpurgeable	mg/L		4.9	2.4	1.9	0.5
Cyanide	Total	mg/L		<0.002	<0.002	<0.002	0.002
Phosphorus	Total	mg/L		0.028	0.008	0.005	0.003
Ammonia - N		mg/L		0.02	0.01	<0.01	.01
Metals Dissolved							
Sulfur	Dissolved	mg/L		1.3	4.5	5.0	0.2
Aluminum	Dissolved	mg/L		<0.005	0.006	0.007	0.005
Antimony	Dissolved	mg/L		<0.0002	<0.0002	<0.0002	0.0002
Arsenic	Dissolved	mg/L		0.0054	0.0009	0.0002	0.0002
Barium	Dissolved	mg/L		0.129	0.057	0.054	0.001
Beryllium	Dissolved	mg/L		<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Dissolved	mg/L		<0.001	<0.001	<0.001	0.001
Boron	Dissolved	mg/L		<0.004	<0.004	<0.004	0.004
Cadmium	Dissolved	mg/L		0.00001	0.00001	<0.00001	0.00001
Chromium	Dissolved	mg/L		<0.0004	0.0005	0.0005	0.0004
Cobalt	Dissolved	mg/L		0.00010	0.00007	0.00006	0.00002
Copper	Dissolved	mg/L		<0.001	<0.001	<0.001	0.001
Lead	Dissolved	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Lithium	Dissolved	mg/L		0.003	0.001	0.001	0.001
Molybdenum	Dissolved	mg/L		0.00097	0.00068	0.00065	0.0001
Nickel	Dissolved	mg/L		0.001	<0.001	<0.001	0.001
Selenium	Dissolved	mg/L		<0.0006	<0.0006	<0.0006	0.0006
Silver	Dissolved	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Titanium	Dissolved	mg/L		<0.010	<0.010	<0.010	0.01
Strontium	Dissolved	mg/L		0.122	0.085	0.082	0.001
Tellurium	Dissolved	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Thallium	Dissolved	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Thorium	Dissolved	mg/L		<0.0004	<0.0004	<0.0004	0.0004
Tin	Dissolved	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Uranium	Dissolved	mg/L		0.0005	0.0009	0.0009	0.0004
Vanadium	Dissolved	mg/L		0.00014	0.00017	0.00015	0.0001
Zinc	Dissolved	mg/L		<0.001	<0.001	0.001	0.001
Zirconium	Dissolved	mg/L		<0.00010	<0.00010	<0.00010	0.0001
Metals Total							
Calcium	Total	mg/L		27.2	32.1	32.6	0.05
Iron	Total	mg/L		0.532	0.187	0.078	0.01

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J.Gibson
Company:

Project:
ID: Silver Range (SRR)
Name: Hammer
Location:
LSD:
P.O.:
Acct code:

Lot ID: **944098**
Control Number: B05943
Date Received: Jul 2, 2013
Date Reported: Jul 11, 2013
Report Number: 1838142

			Reference Number	944098-1	944098-2	944098-3	
			Sample Date	Jun 27, 2013	Jun 27, 2013	Jun 27, 2013	
			Sample Time	NA	NA	NA	
			Sample Location				
			Sample Description	Surf / Ham #1	Surf / Ham #2	Surf / Ham #3	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Total - Continued							
Magnesium	Total	mg/L		6.07	10.2	10.6	0.05
Manganese	Total	mg/L		0.0885	0.0187	0.0064	0.005
Potassium	Total	mg/L		0.81	0.29	0.36	0.1
Silicon	Total	mg/L		4.77	2.84	3.03	0.05
Sulfur	Total	mg/L		1.4	4.8	5.0	0.1
Sodium	Total	mg/L		2.75	1.35	1.40	0.02
Titanium	Total	mg/L		<0.0010	0.0038	0.0052	0.001
Aluminum	Total	mg/L		0.045	0.015	0.034	0.005
Antimony	Total	mg/L		<0.0002	<0.0002	<0.0002	0.0002
Arsenic	Total	mg/L		0.0070	0.0010	0.0002	0.0002
Barium	Total	mg/L		0.140	0.062	0.057	0.001
Beryllium	Total	mg/L		<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Total	mg/L		<0.0010	<0.001	<0.001	0.001
Boron	Total	mg/L		0.005	<0.005	<0.005	0.004
Cadmium	Total	mg/L		0.00002	0.00001	0.00003	0.00001
Chromium	Total	mg/L		<0.0004	<0.0004	<0.0004	0.0004
Cobalt	Total	mg/L		0.00014	0.00010	0.00012	0.00002
Copper	Total	mg/L		<0.001	<0.001	<0.001	0.001
Lead	Total	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Lithium	Total	mg/L		0.003	0.001	0.001	0.001
Mercury	Total	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Molybdenum	Total	mg/L		0.0012	0.0008	0.0008	0.0001
Nickel	Total	mg/L		0.001	<0.001	<0.001	0.001
Selenium	Total	mg/L		<0.0006	<0.0006	<0.0006	0.0006
Silver	Total	mg/L		0.00001	<0.00001	<0.00001	0.00001
Strontium	Total	mg/L		0.130	0.089	0.086	0.001
Tellurium	Total	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Thallium	Total	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Thorium	Total	mg/L		<0.0004	<0.0004	<0.0004	0.0004
Tin	Total	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Uranium	Total	mg/L		0.0005	0.001	0.001	0.0004
Vanadium	Total	mg/L		0.0002	0.0002	0.0002	0.0001
Zinc	Total	mg/L		<0.001	<0.001	0.003	0.001
Zirconium	Total	mg/L		0.0006	0.0002	0.0002	0.0001
Physical and Aggregate Properties							
Solids	Total Suspended	mg/L		<2	<2	3	1

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J.Gibson
Company:

Project:
ID: Silver Range (SRR)
Name: Hammer
Location:
LSD:
P.O.:
Acct code:

Lot ID: **944098**
Control Number: B05943
Date Received: Jul 2, 2013
Date Reported: Jul 11, 2013
Report Number: 1838142

		Reference Number	944098-1	944098-2	944098-3	
		Sample Date	Jun 27, 2013	Jun 27, 2013	Jun 27, 2013	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	Surf / Ham #1	Surf / Ham #2	Surf / Ham #3	
		Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Physical and Aggregate Properties - Continued						
Solids	Total Dissolved	mg/L	100	120	130	5
Routine Water						
pH	at 25 °C		7.39	7.97	8.22	
Electrical Conductivity		µS/cm at 25 C	171	238	227	1
Calcium	Dissolved	mg/L	26.6	31.1	32.4	0.1
Iron	Dissolved	mg/L	0.248	0.100	0.024	0.005
Magnesium	Dissolved	mg/L	5.88	9.91	10.7	0.1
Manganese	Dissolved	mg/L	0.074	0.015	<0.001	0.001
Potassium	Dissolved	mg/L	0.8	0.3	0.3	0.1
Silicon	Dissolved	mg/L	4.44	2.60	2.84	0.05
Sodium	Dissolved	mg/L	1.8	1.0	1.5	0.1
Bicarbonate		mg/L	109	129	132	5
Carbonate		mg/L	<6	<6	<6	6
Hydroxide		mg/L	<5	<5	<5	5
P-Alkalinity	as CaCO3	mg/L	<5	<5	<5	5
T-Alkalinity	as CaCO3	mg/L	89	106	108	5
Chloride	Dissolved	mg/L	<0.05	<0.05	<0.05	0.05
Nitrate - N	Dissolved	mg/L	<0.01	0.04	0.05	0.01
Nitrite - N	Dissolved	mg/L	<0.01	<0.01	<0.01	0.01
Sulfate (SO4)	Dissolved	mg/L	3.9	14.6	15.9	0.5
Hardness	as CaCO3	mg/L	90	118	125	5
Hardness	Total	mg CaCO3/L	92.8	122	125	1

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J.Gibson
Company:

Project:
ID: Silver Range (SRR)
Name: Hammer
Location:
LSD:
P.O.:
Acct code:

Lot ID: **944098**
Control Number: B05943
Date Received: Jul 2, 2013
Date Reported: Jul 11, 2013
Report Number: 1838142

Reference Number	944098-4
Sample Date	Jun 27, 2013
Sample Time	NA
Sample Location	
Sample Description	Surf / Ham #4
Matrix	Water

Analyte		Units	Results	Results	Results	Nominal Detection Limit
Inorganic Nonmetallic Parameters						
Organic Carbon	Total Nonpurgeable	mg/L	2.1			0.5
Cyanide	Total	mg/L	<0.002			0.002
Phosphorus	Total	mg/L	0.008			0.003
Ammonia - N		mg/L	0.02			.01
Metals Dissolved						
Sulfur	Dissolved	mg/L	0.5			0.2
Aluminum	Dissolved	mg/L	0.028			0.005
Antimony	Dissolved	mg/L	<0.0002			0.0002
Arsenic	Dissolved	mg/L	0.0002			0.0002
Barium	Dissolved	mg/L	0.013			0.001
Beryllium	Dissolved	mg/L	<0.00004			0.00004
Bismuth	Dissolved	mg/L	<0.001			0.001
Boron	Dissolved	mg/L	<0.004			0.004
Cadmium	Dissolved	mg/L	<0.00001			0.00001
Chromium	Dissolved	mg/L	<0.0004			0.0004
Cobalt	Dissolved	mg/L	0.00003			0.00002
Copper	Dissolved	mg/L	<0.001			0.001
Lead	Dissolved	mg/L	<0.0001			0.0001
Lithium	Dissolved	mg/L	<0.001			0.001
Molybdenum	Dissolved	mg/L	<0.00010			0.0001
Nickel	Dissolved	mg/L	<0.001			0.001
Selenium	Dissolved	mg/L	<0.0006			0.0006
Silver	Dissolved	mg/L	<0.00001			0.00001
Titanium	Dissolved	mg/L	<0.010			0.01
Strontium	Dissolved	mg/L	0.019			0.001
Tellurium	Dissolved	mg/L	<0.0001			0.0001
Thallium	Dissolved	mg/L	<0.00001			0.00001
Thorium	Dissolved	mg/L	<0.0004			0.0004
Tin	Dissolved	mg/L	<0.0001			0.0001
Uranium	Dissolved	mg/L	<0.0004			0.0004
Vanadium	Dissolved	mg/L	0.00012			0.0001
Zinc	Dissolved	mg/L	0.002			0.001
Zirconium	Dissolved	mg/L	<0.00010			0.0001
Metals Total						
Calcium	Total	mg/L	3.69			0.05
Iron	Total	mg/L	0.120			0.01

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V3S 8P8, Canada

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Exova

Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**944098**
Report To:	J. Gibson & Associates	ID:	Silver Range (SRR)	Control Number:	B05943
	Box 20913	Name:	Hammer	Date Received:	Jul 2, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Jul 11, 2013
	Y1A 6P2	LSD:		Report Number:	1838142
Attn:	John Gibson	P.O.:			
Sampled By:	J.Gibson	Acct code:			
Company:					

Reference Number	944098-4
Sample Date	Jun 27, 2013
Sample Time	NA
Sample Location	
Sample Description	Surf / Ham #4
Matrix	Water

Analyte		Units	Results	Results	Results	Nominal Detection Limit
Metals Total - Continued						
Magnesium	Total	mg/L	0.58			0.05
Manganese	Total	mg/L	<0.0050			0.005
Potassium	Total	mg/L	0.28			0.1
Silicon	Total	mg/L	2.52			0.05
Sulfur	Total	mg/L	0.6			0.1
Sodium	Total	mg/L	1.24			0.02
Titanium	Total	mg/L	0.0052			0.001
Aluminum	Total	mg/L	0.100			0.005
Antimony	Total	mg/L	<0.0002			0.0002
Arsenic	Total	mg/L	0.0003			0.0002
Barium	Total	mg/L	0.014			0.001
Beryllium	Total	mg/L	<0.00004			0.00004
Bismuth	Total	mg/L	<0.001			0.001
Boron	Total	mg/L	<0.005			0.004
Cadmium	Total	mg/L	<0.00001			0.00001
Chromium	Total	mg/L	<0.0004			0.0004
Cobalt	Total	mg/L	0.00006			0.00002
Copper	Total	mg/L	<0.001			0.001
Lead	Total	mg/L	0.0001			0.0001
Lithium	Total	mg/L	<0.001			0.001
Mercury	Total	mg/L	<0.00001			0.00001
Molybdenum	Total	mg/L	0.0001			0.0001
Nickel	Total	mg/L	<0.001			0.001
Selenium	Total	mg/L	<0.0006			0.0006
Silver	Total	mg/L	<0.00001			0.00001
Strontium	Total	mg/L	0.020			0.001
Tellurium	Total	mg/L	<0.0001			0.0001
Thallium	Total	mg/L	<0.00001			0.00001
Thorium	Total	mg/L	<0.0004			0.0004
Tin	Total	mg/L	<0.0001			0.0001
Uranium	Total	mg/L	<0.0004			0.0004
Vanadium	Total	mg/L	0.0002			0.0001
Zinc	Total	mg/L	0.001			0.001
Zirconium	Total	mg/L	0.0002			0.0001
Physical and Aggregate Properties						
Solids	Total Suspended	mg/L	3			1

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Exova

Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J.Gibson
Company:

Project:
ID: Silver Range (SRR)
Name: Hammer
Location:
LSD:
P.O.:
Acct code:

Lot ID: **944098**
Control Number: B05943
Date Received: Jul 2, 2013
Date Reported: Jul 11, 2013
Report Number: 1838142

Reference Number	944098-4
Sample Date	Jun 27, 2013
Sample Time	NA
Sample Location	
Sample Description	Surf / Ham #4
Matrix	Water

Analyte		Units	Results	Results	Results	Nominal Detection Limit
Physical and Aggregate Properties - Continued						
Solids	Total Dissolved	mg/L	20			5
Routine Water						
pH	at 25 °C		7.23			
Electrical Conductivity		µS/cm at 25 C	26			1
Calcium	Dissolved	mg/L	3.62			0.1
Iron	Dissolved	mg/L	0.045			0.005
Magnesium	Dissolved	mg/L	0.55			0.1
Manganese	Dissolved	mg/L	<0.001			0.001
Potassium	Dissolved	mg/L	0.2			0.1
Silicon	Dissolved	mg/L	2.22			0.05
Sodium	Dissolved	mg/L	1.3			0.1
Bicarbonate		mg/L	13			5
Carbonate		mg/L	<6			6
Hydroxide		mg/L	<5			5
P-Alkalinity	as CaCO3	mg/L	<5			5
T-Alkalinity	as CaCO3	mg/L	11			5
Chloride	Dissolved	mg/L	<0.05			0.05
Nitrate - N	Dissolved	mg/L	0.02			0.01
Nitrite - N	Dissolved	mg/L	<0.01			0.01
Sulfate (SO4)	Dissolved	mg/L	1.7			0.5
Hardness	as CaCO3	mg/L	11			5
Hardness	Total	mg CaCO3/L	11.6			1

Approved by:

Mathieu Simoneau
Operations Manager

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Methodology and Notes

Bill To:	J. Gibson & Associates	Project:	
Report To:	J. Gibson & Associates	ID:	Silver Range (SRR)
	Box 20913	Name:	Hammer
	Whitehorse, YT, Canada	Location:	
	Y1A 6P2	LSD:	
Attn:	John Gibson	P.O.:	
Sampled By:	J.Gibson	Acct code:	
Company:			

Lot ID:	**944098**
Control Number:	B05943
Date Received:	Jul 2, 2013
Date Reported:	Jul 11, 2013
Report Number:	1838142

Method of Analysis

Method Name	Reference	Method	Date Analysis Started	Location
Alk, pH, EC, Turb in water (Surrey)	APHA	* Alkalinity - Titration Method, 2320 B	03-Jul-13	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	* Alkalinity - Titration Method, 2320 B	08-Jul-13	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	* Conductivity, 2510 B	03-Jul-13	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	* Conductivity, 2510 B	08-Jul-13	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	* pH - Electrometric Method, 4500-H+ B	03-Jul-13	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	* pH - Electrometric Method, 4500-H+ B	08-Jul-13	Exova Surrey
Ammonia-N in Water (Surrey)	APHA	* Flow Injection Analysis, 4500-NH3 H	04-Jul-13	Exova Surrey
Anions by IEC in water (Surrey)	APHA	* Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	03-Jul-13	Exova Surrey
Carbon Organic (Total) in water (TOC)	APHA	High-Temperature Combustion Method, 5310 B	05-Jul-13	Exova Edmonton
Cyanide (Total) in water	US EPA	* US EPA method, 335.3	05-Jul-13	Exova Edmonton
Mercury Low Level (Total) in water (Surrey)	EPA	* Mercury in Water by Cold Vapor Atomic Fluorescence Spectrometry, 245.7	08-Jul-13	Exova Surrey
Metals SemiTrace (Dissolved) in water (Surrey)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	04-Jul-13	Exova Surrey
Metals SemiTrace (Total) in Water (Surrey)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	03-Jul-13	Exova Surrey
Phosphorus - total (low level) - Surrey	APHA	* Preliminary Acid Hydrolysis, Ascorbic Acid Reduction Method, 4500-P B,E	03-Jul-13	Exova Surrey
Solids Dissolved (Total, Fixed and Volatile) - Surrey	APHA	* Total Dissolved Solids Dried at 180 C, 2540 C	04-Jul-13	Exova Surrey
Solids Suspended (Total, Fixed and Volatile)	APHA	* Total Suspended Solids Dried at 103-105'C, 2540 D	04-Jul-13	Exova Surrey
Trace Metals (dissolved) in Water (Surrey)	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	04-Jul-13	Exova Surrey
Trace Metals (dissolved) in Water (Surrey)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	04-Jul-13	Exova Surrey
Trace Metals (Total) in Water (Surrey)	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	03-Jul-13	Exova Surrey
Trace Metals (Total) in Water (Surrey)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	03-Jul-13	Exova Surrey

** Reference Method Modified*

References

APHA	Standard Methods for the Examination of Water and Wastewater
US EPA	US Environmental Protection Agency Test Methods

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Methodology and Notes

Bill To:	J. Gibson & Associates	Project:	
Report To:	J. Gibson & Associates	ID:	Silver Range (SRR)
	Box 20913	Name:	Hammer
	Whitehorse, YT, Canada	Location:	
	Y1A 6P2	LSD:	
Attn:	John Gibson	P.O.:	
Sampled By:	J.Gibson	Acct code:	
Company:			

Lot ID:	**944098**
Control Number:	B05943
Date Received:	Jul 2, 2013
Date Reported:	Jul 11, 2013
Report Number:	1838142

Comments:

- Analysis was performed on sample 944098-1 o 4 that exceeded the recommended holding time for nitrite/nitrate anions analysis.
- Some total metal results were less than dissolved metal results for sample 944098-2, -3, and -4. The results were verified and are within expected measurement uncertainty.
- pH analysis was performed past the recommended holding time of 15 minutes from sample collection.
- pH analysis was performed past the recommended holding time of 15 minutes from sample collection.

Please direct any inquiries regarding this report to our Client Services group.
Results relate only to samples as submitted.
The test report shall not be reproduced except in full, without the written approval of the laboratory.

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Project Information

Project ID: SILVER RANGE (~~HAMMER~~ SILVER)
Project Name: HAMMER
Project Location:
Legal Location:
PO/AFE#:
Proj. Acct. Code:

Billing Information

Company: J. Gibson & Associates
Address:
Whitehorse, YT Y1A 6P2
Attention: John Gibson
Phone: (867) 633-4522
Cell:
Fax: (867) 668-6895
E-mail: ludditegibson@gmail.com
Agreement ID: 6646
Copy of report: X

Copy of Report To:

Company: J. Gibson & Associates
Address:
Whitehorse, YT Y1A 6P2
Attention: John Gibson
Phone: (867) 633-4522
Cell:
Fax: (867) 668-6895
E-mail: ludditegibson@gmail.com
Copy of invoice: X

RUSH Priority

Upon filling out this section, client accepts that surcharges will be applied to the analysis

Date Required
As Indicated | All Analysis

When "ASAP" is requested, turn around will default to a 100% RUSH priority, with pricing and turn around time to match. Please contact the lab prior to submitting RUSH samples.

Signature

Sample Custody (please print)

Sampled by: J GIBSON
Company:
I authorize Exova to proceed with the work indicated on this form
Date: July 6/13 Initial: JG

This section for Lab use only

Date/Time stamp: 07-02-13P05:35 RCVD

Report Results: E-mail / Mail; Online / Fax; PDF / Excel; QA/QC Report

Special Instructions/Comments (please include contact information including ph. # if different from above).
RCHGM = pH, EC, TP, N_2, N_3, TALK, Cl, SO_4, HARDT, TSS, TDS
METALS + NITRIC, TW23 FIELD FILTERED
NH4 + SULFURIC, TCN + NaOH, TOC + HCl

Include Regulatory Requirements Below:
OK

Sample Identification	Location	Depth IN CM M	Date/Time sampled	Matrix	Sampling Method	Number of Containers	RCHGM	NH4	TOC	TCN	TW23 FIELD F	TW29 ew + THG	Enter tests above (√ relevant samples below)
1													
2 HAM #1	SURF	/	JUNE 27	H2O	Grab	6	√	√	√		√	√	√
3													
4 HAM #2	↓		↓	↓	↓	6	√	√	√		√	√	√
5													
6 HAM #3						6	√	√	√		√	√	√
7													
8 HAM #4						6	√	√	√		√	√	√
9													
10													
11													
12													
13													
14													
15													

Indicate below any deficiencies in the condition of samples:

- Were Exova supplies used?
- Was there any damage to the shipping container?
- Were the containers packaged well?
- Were any extra samples received (document below)?
- Are samples within recommended holding times/temp?

ED 120-00

Environmental Sample Information Sheet

Note: Proper completion of this form is required in order to proceed with analysis

Please indicate any potentially hazardous samples

Page | of | Control # B05943

LOT: 944098 COC

Shipping:
COD Y/N
Cooler temp: 10.1

and size of coolers received:
Delivery Method:
Waybill:
Received by:

APPENDIX 2

Flow Volume Calculations

June 2013

Stage Discharge Calculations

Project: **Silver Range - Rebel Claims** **Date:** **27-Jun-13**

Site: **Rebel #1**

Point *(m)*	**Depth** *(meters)*	**Width** *(meters)*	**Velocity** *(m/sec)*	**Area** *(m sq)*	**Volume** *(cms)*
1.09	0	0.155	0	0	0.000
1.4	0.3	0.305	0.308	0.0915	0.028
1.7	0.36	0.3	0.805	0.108	0.087
2	0.4	0.3	0.786	0.12	0.094
2.3	0.41	0.3	0.922	0.123	0.113
2.6	0.38	0.3	0.966	0.114	0.110
2.9	0.35	0.3	1.014	0.105	0.106
3.2	0.37	0.3	0.99	0.111	0.110
3.5	0.34	0.3	1.082	0.102	0.110
3.8	0.37	0.3	1.127	0.111	0.125
4.1	0.36	0.3	1.151	0.108	0.124
4.4	0.33	0.3	1.151	0.099	0.114
4.7	0.32	0.3	1.104	0.096	0.106
5	0.32	0.3	1.014	0.096	0.097
5.3	0.31	0.3	0.944	0.093	0.088
5.6	0.32	0.24	0.805	0.0768	0.062
5.78	0	0.09	0	0	0.000
4.69		4.69			**1.4760**

All velocity readings at 0.6 depth

No Staff Gauge

Data logger reading: No logger

Channel under ice? ice free

Method: Price Velocity meter/ TS Wading Rod

Measurement By: J.Gibson

Stage Discharge Calculations

Project: **Silver Range - Rebel Claims** **Date:** **27-Jun-13**

Site: **Rebel #2**

Point *(m)*	**Depth** *(meters)*	**Width** *(meters)*	**Velocity** *(m/sec)*	**Area** *(m sq)*	**Volume** *(cms)*
1.59	0	0.055	0	0	0.000
1.7	0.15	0.105	0.323	0.01575	0.005
1.8	0.15	0.1	0.588	0.015	0.009
1.9	0.16	0.1	0.295	0.016	0.005
2	0.17	0.1	0.277	0.017	0.005
2.1	0.19	0.1	0.339	0.019	0.006
2.2	0.2	0.1	0.495	0.02	0.010
2.3	0.18	0.1	0.308	0.018	0.006
2.4	0.2	0.1	0.237	0.02	0.005
2.5	0.22	0.1	0.242	0.022	0.005
2.6	0.16	0.115	0	0.0184	0.000
2.73	0	0.065	0	0	0.000
1.14		1.14			**0.0553**

All velocity readings at 0.6 depth

No Staff Gauge

Data logger reading: No logger

Channel under ice? ice free

Method: Price Velocity meter/ TS Wading Rod

Measurement By: J.Gibson

Stage Discharge Calculations

Project: **Silver Range - Rebel Claims** **Date:** **27-Jun-13**

Site: **Rebel #3**

Point *(m)*	**Depth** *(meters)*	**Width** *(meters)*	**Velocity** *(m/sec)*	**Area** *(m sq)*	**Volume** *(cms)*
1.72	0	0.09	0	0	0.000
1.9	0.07	0.14	0.629	0.0098	0.006
2	0.1	0.15	0.644	0.015	0.010
2.2	0.2	0.2	0.825	0.04	0.033
2.4	0.12	0.2	0.116	0.024	0.003
2.6	0.06	0.2	0.363	0.012	0.004
2.8	0.24	0.2	0.046	0.048	0.002
3	0.07	0.2	0.564	0.014	0.008
3.2	0.17	0.2	0.376	0.034	0.013
3.4	0.04	0.2	0.629	0.008	0.005
3.6	0.13	0.2	0.442	0.026	0.011
3.8	0.13	0.19	0.067	0.0247	0.002
3.98	0	0.09	0	0	0.000
2.26		2.26			**0.0970**

All velocity readings at 0.6 depth

No Staff Gauge

Data logger reading: No logger

Channel under ice?Y ice free

Method: Price Velocity meter/ TS Wading Rod

Measurement By: J.Gibson

Stage Discharge Calculations

Project: **Silver Range - SNAP Claims** **Date:** **28-Jun-13**

Site: **SNAP #1**

Point *(m)*	Depth *(meters)*	Width *(meters)*	Velocity *(m/sec)*	Area *(m sq)*	Volume *(cms)*
2.16	0	0.07	0	0	0.000
2.3	0.38	0.17	0.69	0.0646	0.045
2.5	0.28	0.3	0.564	0.084	0.047
2.9	0.28	0.4	0.615	0.112	0.069
3.3	0.2	0.4	0.769	0.08	0.062
3.7	0.2	0.4	0.72	0.08	0.058
4.1	0.18	0.4	0.472	0.072	0.034
4.5	0.24	0.4	0.369	0.096	0.035
4.9	0.21	0.4	0.398	0.084	0.033
5.3	0.22	0.4	0.363	0.088	0.032
5.7	0.22	0.4	0.629	0.088	0.055
6.1	0.2	0.4	0.588	0.08	0.047
6.5	0.2	0.4	0.769	0.08	0.062
6.9	0.24	0.4	0.472	0.096	0.045
7.3	0.25	0.4	0.882	0.1	0.088
7.7	0.3	0.4	1.104	0.12	0.132
8.1	0.38	0.4	0.902	0.152	0.137
8.5	0.4	0.4	0.966	0.16	0.155
8.9	0.44	0.4	1.014	0.176	0.178
9.3	0.41	0.4	0.825	0.164	0.135
9.7	0.35	0.3	0.72	0.105	0.076
9.9	0	0.1	0	0	0.000
7.74		7.74			**1.5257**

All velocity readings at 0.6 depth

No Staff Gauge

Data logger reading: No logger

Channel under ice? ice free

Method: Price Velocity meter/ TS Wading Rod

Measurement By: J.Gibson

Stage Discharge Calculations

Project: **Silver Range - SNAP Claims** **Date:** **28-Jun-13**

Site: **SNAP#2**

Point *(m)*	**Depth** *(meters)*	**Width** *(meters)*	**Velocity** *(m/sec)*	**Area** *(m sq)*	**Volume** *(cms)*
0.73	0	0.085	0	0	0.000
0.9	0.2	0.185	0.189	0.037	0.007
1.1	0.22	0.2	0.226	0.044	0.010
1.3	0.29	0.2	0.508	0.058	0.029
1.5	0.34	0.2	0.944	0.068	0.064
1.7	0.37	0.2	1.014	0.074	0.075
1.9	0.35	0.2	1.061	0.07	0.074
2.1	0.36	0.2	1.104	0.072	0.079
2.3	0.4	0.2	0.99	0.08	0.079
2.5	0.39	0.2	1.104	0.078	0.086
2.7	0.41	0.2	0.735	0.082	0.060
2.9	0.35	0.15	0.845	0.0525	0.044
3	0.24	0.11	0.966	0.0264	0.026
3.12	0	0.06	0	0	0.000
2.39		2.39			**0.6348**

All velocity readings at 0.6 depth

No Staff Gauge

Data logger reading: No logger

Channel under ice?Y ice free

Method: Price Velocity meter/ TS Wading Rod

Measurement By: J.Gibson

Stage Discharge Calculations

Project: Silver Range - SNAP Claims **Date:** 28-Jun-13

Site: SNAP#3

Point *(m)*	Depth *(meters)*	Width *(meters)*	Velocity *(m/sec)*	Area *(m sq)*	Volume *(cms)*
2.54	0	0.13	0	0	0.000
2.8	0.04	0.33	0.17	0.0132	0.002
3.2	0.12	0.35	0.308	0.042	0.013
3.5	0.13	0.3	0.196	0.039	0.008
3.8	0.18	0.3	0.922	0.054	0.050
4.1	0.14	0.25	0.376	0.035	0.013
4.3	0.22	0.2	0.357	0.044	0.016
4.5	0.2	0.2	0.508	0.04	0.020
4.7	0.19	0.2	0.66	0.038	0.025
4.9	0.28	0.2	0.902	0.056	0.051
5.1	0.27	0.2	0.99	0.054	0.053
5.3	0.2	0.2	0.644	0.04	0.026
5.5	0.18	0.2	0.644	0.036	0.023
5.7	0.11	0.2	0.541	0.022	0.012
5.9	0.06	0.17	0.231	0.0102	0.002
6.04	0	0.07	0	0	0.000
3.5		3.5			**0.2766**

All velocity readings at 0.6 depth

No Staff Gauge

Data logger reading: No logger

Channel under ice?Y ice free

Method: Price Velocity meter/ TS Wading Rod

Measurement By: J.Gibson

Stage Discharge Calculations

Project: Silver Range - HAMMER Claims **Date:** Jun27 2013

Site: HAM #2

Point (m)	Depth (meters)	Width (meters)	Velocity (m/sec)	Area (m sq)	Volume (cms)
2.17	0	0.165	0	0	0.000
2.5	0.07	0.315	0.124	0.02205	0.003
2.8	0.17	0.3	0.495	0.051	0.025
3.1	0.14	0.3	0.417	0.042	0.018
3.4	0.28	0.3	0.615	0.084	0.052
3.7	0.32	0.3	0.644	0.096	0.062
4	0.33	0.3	0.451	0.099	0.045
4.3	0.32	0.3	0.99	0.096	0.095
4.6	0.26	0.3	0.882	0.078	0.069
4.9	0.2	0.25	0.644	0.05	0.032
5.1	0.24	0.25	0.882	0.06	0.053
5.4	0.24	0.3	0.508	0.072	0.037
5.7	0.2	0.35	0.094	0.07	0.007
6.1	0	0.2	0	0	0.000
3.93		3.93			**0.4957**

All velocity readings at 0.6 depth

No Staff Gauge

Data logger reading: No logger

Channel under ice?Y ice free

Method: Price Velocity meter/ TS Wading Rod

Measurement By: R.Gibson

Stage Discharge Calculations

Project: Silver Range - HAMMER Claims **Date:** Jun27 2013

Site: HAM #3

Point *(m)*	Depth *(meters)*	Width *(meters)*	Velocity *(m/sec)*	Area *(m sq)*	Volume *(cms)*
1.16	0	0.22	0	0	0.000
1.6	0.14	0.42	0.423	0.0588	0.025
2	0.23	0.4	0.508	0.092	0.047
2.4	0.12	0.35	0.705	0.042	0.030
2.7	0.32	0.3	0.442	0.096	0.042
3	0.3	0.3	0.66	0.09	0.059
3.3	0.25	0.3	0.72	0.075	0.054
3.6	0.29	0.3	0.676	0.087	0.059
3.9	0.19	0.25	0.99	0.0475	0.047
4.1	0.13	0.25	0.922	0.0325	0.030
4.4	0.28	0.3	0.644	0.084	0.054
4.7	0.19	0.3	0.158	0.057	0.009
5	0	0.3	0	0	0.000
5.3	0.05	0.3	0.705	0.015	0.011
5.6	0.17	0.235	0.922	0.03995	0.037
5.77	0	0.085	0	0	0.000
4.61		4.61			**0.5034**

All velocity readings at 0.6 depth

No Staff Gauge

Data logger reading: No logger

Channel under ice?Y ice free

Method: Price Velocity meter/ TS Wading Rod

Measurement By: R.Gibson

Stage Discharge Calculations

Project: Silver Range - HAMMER Claims **Date:** 27-Jun-13

Site: HAM #4

Point *(m)*	Depth *(meters)*	Width *(meters)*	Velocity *(m/sec)*	Area *(m sq)*	Volume *(cms)*
1.53	0	0.06	0	0	0.000
1.65	0.49	0.11	0.845	0.0539	0.046
1.75	0.48	0.1	0.825	0.048	0.040
1.85	0.54	0.1	0.588	0.054	0.032
1.95	0.55	0.1	0.66	0.055	0.036
2.05	0.53	0.1	0.406	0.053	0.022
2.15	0.55	0.1	0.391	0.055	0.022
2.25	0.56	0.1	0.588	0.056	0.033
2.35	0.41	0.1	0.735	0.041	0.030
2.45	0.34	0.125	0.663	0.0425	0.028
2.6	0.3	0.135	0.601	0.0405	0.024
2.72	0	0.06	0	0	0.000
1.19		1.19			**0.3118**

All velocity readings at 0.6 depth

No Staff Gauge

Data logger reading: No logger

Channel under ice? ice free

Method: Price Velocity meter/ TS Wading Rod

Measurement By: R.Gibson

Silver Range Resources

KEG PROJECT

Baseline Water Quality / Hydrology Survey

Environmental Data Update

August and September, 2013

J.Gibson Env. Consulting *Whitehorse, Yukon*

KEG Project August and September 2013

Silver Range Resources baseline water quality / hydrology surveys of the KEG Claims surface waters continued in August monthly stations and September 2013 at all stations (monthly and quarterly).

KEG stations #1, #2, #3, #4, #5, #6 and #9 are on a monthly frequency as of November 2012. All other stations remain on a quarterly sampling frequency.

The sites are located in the Anvil Range approximately 30 kilometers north of Faro, Yukon and 15 kilometers north of the former Faro Mine.

The KEG Claims are located on tributaries to the Tay River.

All surface waters are tributaries to the Pelly River.

All survey sites were accessed by helicopter.

The baseline survey consisted of water quality samples for routine chemistry, total metals, dissolved metals, total organic carbon, total cyanide and total mercury with field measurements for pH, water temperature and flow volume measurements.

The Onset Weather Station installed in November 2012 had the base U30 Unit and solar panel changed in September due to logging problems.

Sample Locations

Nine water quality sample sites were established on the KEG Claims during the initial survey in August 2010.

Four sites were added in October 2010 on the eastern limits of the expanded claim block.

All sites are on the attached location map.

Sample Analysis Parameters

All KEG stations were sampled for total metals, dissolved metals and routine chemistry, total organic carbon, total cyanide and total mercury.

Dissolved metals samples were filtered onsite using disposable 60 ml syringes and 0.45 micron filters. New syringes and filters were used for each station.

Total and dissolved metal samples were preserved with nitric acid, Total Organic Carbon with HCL and Total Cyanide with NA0H immediately after sampling.

All samples were stored in coolers, kept at 4 Celsius and shipped by air cargo to the Exova Canada Inc. laboratory in Surrey B.C. for analysis within recommended holding times.

Field measurements for pH and conductivity were taken with an Oakton PCS TestR 35, water temperatures with a digital thermometer.

Flow Volume Measurements

August 2013

Stream flow volumes were measured in August 2013 at monthly stations. Volumes show an increase from July 2013 as a result of rainfall precipitation. Increases are noted at the downstream stations (KEG#1 and #11).

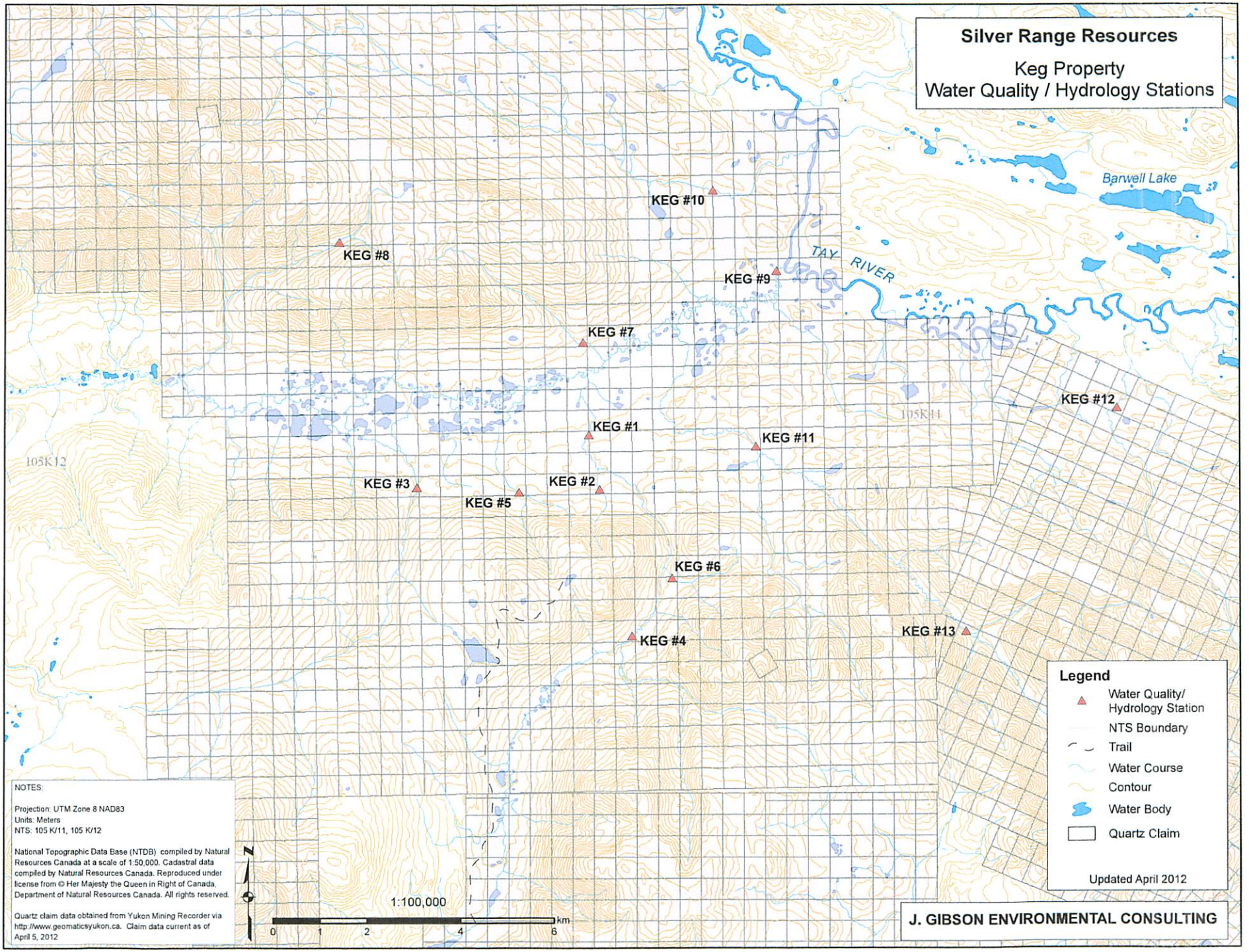
September 2013

Stream flow volumes in September show continued higher volumes as result of rainfall precipitation and snow melt from higher elevations.
A summary of KEG stream flow volumes from 2011 to 2013 are in Table 4.

Stream flow volumes data / calculations are attached in Appendix 2.

Keg Weather Station

The Keg weather station had operational problems in July and August with low battery voltage. The battery was changed in mid July and data downloaded.
On July 22 diagnostics were run on station sensors and problem is apparently fixed.
The weather station base U30 Computer Unit and solar panel were changed on September 21.


Silver Range Resources
Keg Property
Water Quality / Hydrology Stations
Barwell Lake
TAY RIVER
KEG #10
KEG #8
KEG #9
KEG #7
KEG #12
KEG #1
KEG #11
105K12
105K11
KEG #3
KEG #2
KEG #5
KEG #6
KEG #4
KEG #13
Legend
Water Quality/ Hydrology Station
NTS Boundary
Trail
Water Course
Contour
Water Body
Quartz Claim
Updated April 2012
NOTES:
Projection: UTM Zone 8 NAD83
Units: Meters
NTS: 105 K/11, 105 K/12
National Topographic Data Base (NTDB) compiled by Natural Resources Canada at a scale of 1:50,000. Cadastral data compiled by Natural Resources Canada. Reproduced under license from © Her Majesty the Queen in Right of Canada, Department of Natural Resources Canada. All rights reserved.
Quartz claim data obtained from Yukon Mining Recorder via http://www.geomaticsyukon.ca. Claim data current as of April 5, 2012
N
1:100,000
0 1 2 4 6 km
J. GIBSON ENVIRONMENTAL CONSULTING

Hammer Groundwater Well # Ham 13-023
The groundwater well was visited on July 22 for purging and sampling. The piezometer was blocked at 4.28 meter depth from surface and sampling was not possible.
The piezometer was re visited in August and remained blocked. An attempt was made to remove the blockage with no success.

Analysis Results

Laboratory analysis and field measurement results are listed in the following tables:

Table 1. August 2013 KEG Monthly Stations Routine Chemistry – laboratory analysis and field measurements

Table 2. August 2013 KEG Monthly Stations Total Metals ICP–MS laboratory analysis results

Table 3. August 2013 KEG Monthly Stations Dissolved Metals ICP–MS laboratory analysis results

Table 4. KEG Stations Flow Volume Summary to September 2013.

Table 5. September 2013 KEG Stations Routine Chemistry – laboratory analysis and field measurements

Table 6. September 2013 KEG Monthly Stations Total Metals ICP–MS laboratory analysis results

Table 7. September 2013 KEG Monthly Stations Dissolved Metals ICP–MS laboratory analysis results

Table 8. August and September 2013 Quality Control Sample Analysis Results at KEG Stations

Table 1.Silver Range Resources - KEG Claims August, 2013.
Routine Chemistry and Field Measurement Results

Parameter	Unit	STATIONS KEG #1	KEG #2	KEG #3	KEG #4	KEG #5	KEG #6	KEG #7	DWQ* G.lines	Aquatic** G.lines
Monitoring Frequency		***Monthly***	***Monthly***	***Monthly***	***Monthly***	***Monthly***	***Monthly***	***Quarterly***		
pH (field)	ru	7.79	6.96	7.79	7.88	7.51	7.31			
pH (lab)	ru	7.82	6.98	7.69	7.72	7.33	6.38		6.5-8.5	6.5-9
Electrical Conductivity (lab)		232	88	129	222	109	252			
Water temperature	C	6.6	3.5	7.3	6.4	3.1	5.2			
Flow Volume(field)	cms	1.439	0.0025	0.8387	nr	0.0796	0.0289			
Organic Carbon Total	mg/L	10	31.4	11.3	9.8	27.2	12.6			
Cyanide Total	mg/L	<0.002	<0.002	<0.002	<0.002	0.002	<0.002		0.2	0.005
Phosphorus Total	mg/L	0.046	0.008	0.01	0.025	0.302	0.006			
Ammonia - N	mg/L	0.02	0.02	0.02	0.02	0.03	0.05			1.37-2.2
Nitrate - N	mg/L	0.02	<0.01	<0.01	0.03	0.25	0.03		10	
Nitrite - N	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		1	0.06
T-Alkalinity	mg/L	97	39	66	98	38	26			
Chloride	mg/L	0.1	0.09	0.05	0.09	0.13	0.19		<250	
Sulfate (SO4)	mg/L	34.7	6.2	6.2	28	15.3	103			
Hardness	mg CaCO3/L	144	64.1	80.6	137	86.7	142		<500	
Total Suspended Solids	mg/L	38	<5	4	10	218	5			
Total Dissolved Solids	mg/L	180	118	104	162	130	218		<500	

All results and limits in mg/L unless noted otherwis. Nr = no sample/reading

DWQ* Guidelines are Maximum Acceptable Concentrations according to
Canadian Drinking Water Quality

Aquatic** Guidelines are for protection of aquatic life in waters with pH >6.5 and Hardness as CaC03 >180 mg/L
Canadian Water Quality Guidelines

Table 1.Silver Range Resources - KEG Claims August, 2013.
Routine Chemistry and Field Measurement Results

		STATIONS							
Parameter	**Unit**	**KEG#8**	**KEG#9**	**KEG#10**	**KEG#11**	**KEG#12**	**KEG#13**	**DWQ* G.lines**	**Aquatic** G.lines**
Monitoring Frequency		***Quarterly***	***Monthly***	***Quarterly***	***Quarterly***	***Quarterly***	***Quarterly***		
pH (field)	ru		7.45						
pH (lab)	ru		7.62					6.5-8.5	6.5-9
Electrical Conductivity (lab)	uS/cm		277						
Water temperature	C		7.8						
Flow Volume(field)	cms		nr		1.0245				
Organic Carbon Total	mg/L		9.7						
Cyanide Total	mg/L		<0.002					0.2	0.005
Phosphorus Total	mg/L		0.086						
Ammonia - N	mg/L		0.02						1.37-2.2
Nitrate - N	mg/L		0.03					10	
Nitrite - N	mg/L		<0.01					1	0.06
T-Alkalinity	mg/L		102						
Chloride	mg/L		0.09					<250	
Sulfate (SO4)	mg/L		51.2						
Hardness	mg CaCO3/L		171					<500	
Total Suspended Solids	mg/L		46						
Total Dissolved Solids	mg/L		218					<500	

All results and limits in mg/L unless noted otherwis. Nr = no sample/reading

DWQ* Guidelines are Maximum Acceptable Concentrations according to
Canadian Drinking Water Quality

Aquatic** Guidelines are for protection of aquatic life in waters with pH >6.5 and Hardness as CaC03 >180 mg/L
Canadian Water Quality Guidelines

Table 2.Silver Range Resources - KEG Claims August, 2013.

Total Metals Analysis Results.

Parameter	Units	KEG #1	KEG #2	KEG #3	KEG #4	KEG #5	KEG #6	KEG #7	DWQ* G.Lines	Aquatic** G.Lines
Calcium	mg/L	48.2	22.6	25.7	45.3	29.1	49.1			
Iron	mg/L	1.04	0.247	0.131	0.488	5.18	5.51		0.3	0.3
Magnesium	mg/L	5.82	1.84	4	5.75	3.43	4.57			
Manganese	mg/L	0.0411	0.0064	0.0075	0.0292	0.121	0.0931		0.05	
Potassium	mg/L	2.14	0.31	0.86	2.07	0.86	1.16			
Silicon	mg/L	6.61	8.54	6.98	6.14	12.9	6.42			
Sulfur	mg/L	12	2.4	2.3	9.8	5.8	35.4			
Sodium	mg/L	2.37	1.05	2.32	2.32	1.29	1.41		<200	
Titanium	mg/L	0.0224	0.0066	0.0038	0.0172	0.0536	0.005			
Aluminum	mg/L	0.656	0.22	0.084	0.222	2.74	0.354			0.1
Antimony	mg/L	0.0003	0.0003	<0.0002	<0.0002	0.0008	0.0004		0.006	
Arsenic	mg/L	0.0029	0.0026	0.0011	0.0017	0.007	0.0017		0.01	
Barium	mg/L	0.065	0.026	0.048	0.059	0.183	0.052		1	
Beryllium	mg/L	<0.00004	<0.00004	<0.00004	<0.00004	0.00018	0.00014			
Bismuth	mg/L	<0.001	<0.001	<0.001	<0.001	<0.0010	<0.001			
Boron	mg/L	<0.005	<0.005	<0.005	<0.005	0.006	<0.005			
Cadmium	mg/L	0.00012	0.00015	0.00005	0.00005	0.00101	0.00012		0.005	0.0018
Chromium	mg/L	0.0024	0.001	0.0006	0.0011	0.0048	<0.0004		0.05	0.002
Cobalt	mg/L	0.00051	0.00009	0.00008	0.00028	0.00254	0.00245			
Copper	mg/L	0.005	0.006	0.002	0.003	0.02	0.006		1	0.004
Lead	mg/L	0.0009	<0.0001	0.0001	0.0002	0.006	<0.0001			
Lithium	mg/L	0.004	0.001	0.008	0.004	0.004	0.007			
Molybdenum	mg/L	0.0012	0.0005	0.0009	0.0012	0.0012	0.0002			
Nickel	mg/L	0.005	0.003	0.001	0.003	0.013	0.026			0.15
Selenium	mg/L	0.0009	0.0007	<0.0006	0.0008	0.0011	0.0006		0.01	0.001
Silver	mg/L	0.00002	<0.00001	<0.00001	<0.00001	0.00016	<0.00001			0.0001
Strontium	mg/L	0.104	0.04	0.078	0.098	0.066	0.078			
Thallium	mg/L	<0.00001	<0.00001	<0.00001	<0.00001	0.00008	0.00002			
Tin	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0007			
Uranium	mg/L	0.0018	<0.0004	0.0026	0.0018	0.0007	<0.0004		0.02	
Vanadium	mg/L	0.0036	0.0008	0.0006	0.0012	0.0121	0.0004			
Zinc	mg/L	0.011	0.009	0.001	0.003	0.058	0.062		<5	0.03
Zirconium	mg/L	0.0003	0.0007	0.0002	0.0002	0.0011	0.0005			
Mercury	mg/L	<0.00001	<0.00001	<0.00001	<0.00001	0.00002	<0.00001		0.001	

indicates levels equal or exceed Guideline Limits

Table 2.Silver Range Resources - KEG Claims August, 2013.
Total Metals Analysis Results.

Parameter	Units	KEG#8	KEG#9	KEG#10	KEG#11	KEG#12	KEG#13	DWQ* G.Lines	Aquatic** G.Lines
Calcium	mg/L		55.1						
Iron	mg/L		1.8					0.3	0.3
Magnesium	mg/L		8.09						
Manganese	mg/L		0.0721					0.05	
Potassium	mg/L		1.65						
Silicon	mg/L		7.21						
Sulfur	mg/L		17.9						
Sodium	mg/L		2.72					<200	
Titanium	mg/L		0.0273						
Aluminum	mg/L		0.734						0.1
Antimony	mg/L		0.0004					0.006	
Arsenic	mg/L		0.0032					0.01	
Barium	mg/L		0.1					1	
Beryllium	mg/L		0.00008						
Bismuth	mg/L		<0.001						
Boron	mg/L		<0.005						
Cadmium	mg/L		0.00022					0.005	0.0018
Chromium	mg/L		0.0014					0.05	0.002
Cobalt	mg/L		0.00065						
Copper	mg/L		0.004					1	0.004
Lead	mg/L		0.0012						
Lithium	mg/L		0.006						
Molybdenum	mg/L		0.0013						
Nickel	mg/L		0.005						0.15
Selenium	mg/L		0.0013					0.01	0.001
Silver	mg/L		0.00004						0.0001
Strontium	mg/L		0.149						
Thallium	mg/L		0.00002						
Tin	mg/L		<0.0001						
Uranium	mg/L		0.0021					0.02	
Vanadium	mg/L		0.0032						
Zinc	mg/L		0.015					<5	0.03
Zirconium	mg/L		0.0003						
Mercury	mg/L		<0.00001					0.001	

indicates levels equal or exceed Guideline Limits

Table 3.Silver Range Resources - KEG Claims August, 2013.

Dissolved Metals Analysis Results

Parameter	Units	KEG #1	KEG #2	KEG #3	KEG #4	KEG #5	KEG #6	KEG #7
Calcium	mg/L	45.5	21.4	24.3	42.2	24.2	46.8	
Iron	mg/L	0.11	0.2	0.044	0.086	0.288	3.28	
Magnesium	mg/L	5.32	1.71	3.74	5.2	2.05	4.35	
Manganese	mg/L	0.009	0.002	<0.001	0.009	0.016	0.081	
Potassium	mg/L	1.8	0.1	0.7	1.9	0.3	1	
Silicon	mg/L	5.43	8.06	6.57	5.39	8.07	5.92	
Sodium	mg/L	2.5	1.2	2.5	2.4	1.4	1.6	
Sulfur	mg/L	11.4	2.3	2.3	9.1	5.3	33	
Aluminum	mg/L	0.035	0.205	0.035	0.023	0.219	0.239	
Antimony	mg/L	<0.0002	0.0002	<0.0002	<0.0002	0.0004	0.0004	
Arsenic	mg/L	0.0014	0.0023	0.0008	0.0011	0.0026	0.001	
Barium	mg/L	0.048	0.024	0.044	0.051	0.024	0.048	
Beryllium	mg/L	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	0.00011	
Bismuth	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Boron	mg/L	0.005	<0.004	<0.004	0.005	0.008	<0.004	
Cadmium	mg/L	0.00004	0.00015	0.00002	0.00004	0.00014	0.00012	
Chromium	mg/L	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	
Cobalt	mg/L	0.00014	0.00008	0.00006	0.0001	0.00017	0.00224	
Copper	mg/L	0.002	0.005	<0.001	0.002	0.006	0.005	
Lead	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	0.0002	<0.0001	
Lithium	mg/L	0.004	0.001	0.008	0.004	0.001	0.007	
Molybdenum	mg/L	0.00124	0.00051	0.00083	0.00115	0.00118	0.00018	
Nickel	mg/L	0.003	0.003	0.001	0.002	0.003	0.024	
Selenium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	
Silver	mg/L	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Strontium	mg/L	0.096	0.037	0.071	0.09	0.047	0.071	
Titanium	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
Thallium	mg/L	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00002	
Tin	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Uranium	mg/L	0.0017	<0.0004	0.0025	0.0018	<0.0004	<0.0004	
Vanadium	mg/L	0.00044	0.00054	0.0003	0.00034	0.00125	0.00015	
Zinc	mg/L	0.005	0.009	0.001	0.002	0.004	0.056	
Zirconium	mg/L	0.00018	0.00063	0.00019	0.00014	0.0007	0.00031	

Table 3.Silver Range Resources - KEG Claims August, 2013.

Dissolved Metals Analysis Results

Parameter	Units	KEG#8	KEG#9	KEG#10	KEG#11	KEG#12	KEG#13
Calcium	mg/L		51.5				
Iron	mg/L		0.147				
Magnesium	mg/L		7.4				
Manganese	mg/L		0.028				
Potassium	mg/L		1.2				
Silicon	mg/L		5.49				
Sodium	mg/L		2.7				
Sulfur	mg/L		16.7				
Aluminum	mg/L		0.029				
Antimony	mg/L		0.0003				
Arsenic	mg/L		0.0014				
Barium	mg/L		0.06				
Beryllium	mg/L		<0.00004				
Bismuth	mg/L		<0.001				
Boron	mg/L		<0.004				
Cadmium	mg/L		0.00007				
Chromium	mg/L		0.0013				
Cobalt	mg/L		0.00015				
Copper	mg/L		0.001				
Lead	mg/L		<0.0001				
Lithium	mg/L		0.005				
Molybdenum	mg/L		0.00128				
Nickel	mg/L		0.003				
Selenium	mg/L		<0.0006				
Silver	mg/L		<0.00001				
Strontium	mg/L		0.134				
Titanium	mg/L		<0.010				
Thallium	mg/L		<0.00001				
Tin	mg/L		<0.0001				
Uranium	mg/L		0.002				
Vanadium	mg/L		0.00082				
Zinc	mg/L		0.003				
Zirconium	mg/L		0.00019				

Table 4. Silver Range Resources - Summary of KEG Project Stations Flow Volumes 2011 to 2013

(Cubic meters per second)

Station	Date															
	Mar-11	Jun-11	Sep-11	Mar-12	May-12	Jul-12	Oct-12	Nov-12	Dec-12	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13
KEG #1	0.025	0.939	0.785	0.057	0.6995	1.270	0.312	0.215	0.114	0.12	0.077	2.131	1.181	nr	1.439	1.233
KEG #2	Dry	0.008 E	0.003 E	Dry	1.1247 0.0015 E	1.3736	0.0005 E	dry	dry	dry	dry	0.002	0.002	0.003	nr	nr
KEG #3	nr	nr	nr	nr	0.6237	0.9296	0.328	nr	nr	0.053	nr	2.285	0.6018	nr	0.8387	nr
KEG #4	0.028	0.758	nr	0.012	0.7403	1.206	0.323	nr	nr	0.069	nr	2.074	nr	nr	nr	nr
KEG #5	Dry	0.011	0.011	Dry	0.0253	0.013	0.004 E	dry	dry	dry	dry	0.003	0.0046	0.0981	0.0796	nr
KEG #6	0.001	0.013	0.013	Dry	0.0163	0.0269	0.006	<0.001 e	<0.001 e	<0.001e	<0.001e	0.057	0.0688	0.0332	0.0289	0.0269
KEG #7	Overflow	0.048	0.057	Overflow	0.0787	0.0485	0.031	nr	nr	dry	nr	nr	0.0324	nr	nr	0.0865
KEG #8	Dry	0.1003	0.050	nr	0.0787	0.0764	0.049	nr	nr	nr	nr	nr	nr	nr	nr	0.1046
KEG #10	Dry	0.644	0.18	Dry	0.7094	0.3262	0.107	nr	nr	dry	nr	nr	0.7732	nr	nr	0.6279
KEG #11	0.11	0.143	0.513	0.035	0.4049	0.751	0.288	nr	nr	0.044	nr	1.737	0.839	0.7657	1.0245	0.6447
KEG #12	Dry	0.250 E	0.210	0.007 E	0.5426 0.2044	0.7974 0.4203	0.035	nr	nr	nr	nr	nr	0.3087	nr	nr	0.2566
KEG #13	0.002 E	0.499	0.295	0.002 E	0.2423	0.7296	0.185	nr	nr	nr	nr	nr	0.6587	nr	nr	0.4218

Table 5.Silver Range Resources - KEG Claims September, 2013.
Routine Chemistry and Field Measurement Results

		STATIONS								
Parameter	**Unit**	**KEG #1**	**KEG #2**	**KEG #3**	**KEG #4**	**KEG #5**	**KEG #6**	**KEG #7**	**DWQ* G.lines**	**Aquatic** G.lines**
Monitoring Frequency		***Monthly***	***Monthly***	***Monthly***	***Monthly***	***Monthly***	***Monthly***	***Quarterly***		
pH (field)	ru	8.04	6.94	7.66	8.13	7.66	6.57	7.61		
pH (lab)	ru	7.92	7.05	7.57	7.86	7.54	6.47	7.62	6.5-8.5	6.5-9
Electrical Conductivity (lab)		286	109	130	279	148	324	427		
Water temperature	C	5.2	2.1	4.7	4.7	1.7	3.3	3.2		
Flow Volume(field)	cms	1.233	0.001	nr	nr	nr	0.0269	0.0865		
Organic Carbon Total	mg/L	8.3	26.6	11.6	8.2	23.8	9.2	13.5		
Cyanide Total	mg/L	<0.002	0.002	<0.002	<0.002	0.002	<0.002	<0.002	0.2	0.005
Phosphorus Total	mg/L	0.027	<0.003	0.06	0.013	0.097	0.005	0.026		
Ammonia - N	mg/L	<0.01	<0.01	0.01	<0.01	<0.01	0.05	0.01		1.37-2.2
Nitrate - N	mg/L	0.02	<0.01	<0.01	0.04	0.3	0.03	<0.01	10	
Nitrite - N	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	1	0.06
T-Alkalinity	mg/L	109	46	60	112	51	28	106		
Chloride	mg/L	0.14	0.14	0.22	0.13	<0.05	0.16	0.11	<250	
Sulfate (SO4)	mg/L	40.5	7.1	6.9	34.2	19.7	131	119		
Hardness	mg CaCO3/L	149	65.4	71.6	146	86.7	158	226	<500	
Total Suspended Solids	mg/L	19	<2	64	3	69	<2	13		
Total Dissolved Solids	mg/L	184	114	88	176	138	246	310	<500	

All results and limits in mg/L unless noted otherwis. Nr = no sample/reading

DWQ* Guidelines are Maximum Acceptable Concentrations according to
Canadian Drinking Water Quality

Aquatic** Guidelines are for protection of aquatic life in waters with pH >6.5 and Hardness as CaC03 >180 mg/L
Canadian Water Quality Guidelines

Table 5.Silver Range Resources - KEG Claims September, 2013.
Routine Chemistry and Field Measurement Results

		STATIONS							
Parameter	**Unit**	**KEG#8**	**KEG#9**	**KEG#10**	**KEG#11**	**KEG#12**	**KEG#13**	**DWQ* G.lines**	**Aquatic** G.lines**
Monitoring Frequency		***Quarterly***	***Monthly***	***Quarterly***	***Quarterly***	***Quarterly***	***Quarterly***		
pH (field)	ru	7.77	7.60	7.82	8.00	8.07	7.94		
pH (lab)	ru	7.67	7.72	7.59	7.88	8.03	7.92	6.5-8.5	6.5-9
Electrical Conductivity (lab)	uS/cm	308	297	289	487	509	519		
Water temperature	C	2.1	5.6	4.1	4.2	1.4	1.2		
Flow Volume(field)	cms	0.1046	nr	0.6279	0.6447	0.2566	0.4218		
Organic Carbon Total	mg/L	9.6	8.7	20.7	6.2	6.8	3.9		
Cyanide Total	mg/L	<0.002	<0.002	0.002	<0.002	<0.002	<0.002	0.2	0.005
Phosphorus Total	mg/L	0.009	0.038	0.258	0.008	0.01	0.006		
Ammonia - N	mg/L	<0.01	0.01	0.01	0.02	0.01	0.01		1.37-2.2
Nitrate - N	mg/L	<0.01	0.02	<0.01	0.06	0.2	0.13	10	
Nitrite - N	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	1	0.06
T-Alkalinity	mg/L	104	106	64	129	142	124		
Chloride	mg/L	0.12	0.12	0.1	0.07	0.06	0.14	<250	
Sulfate (SO4)	mg/L	55.7	47.5	81	132	127	146		
Hardness	mg CaCO3/L	162	154	165	263	273	274	<500	
Total Suspended Solids	mg/L	<2	20	180	6	3	4		
Total Dissolved Solids	mg/L	206	192	218	332	332	348	<500	

All results and limits in mg/L unless noted otherwis. Nr = no sample/reading

DWQ* Guidelines are Maximum Acceptable Concentrations according to
Canadian Drinking Water Quality

Aquatic** Guidelines are for protection of aquatic life in waters with pH >6.5 and Hardness as CaC03 >180 mg/L
Canadian Water Quality Guidelines

Table 6.Silver Range Resources - KEG Claims September, 2013.

Total Metals Analysis Results.

Parameter	Units	KEG #1	KEG #2	KEG #3	KEG #4	KEG #5	KEG #6	KEG #7	DWQ* G.Lines	Aquatic** G.Lines
Calcium	mg/L	49.6	23	22.5	48.4	30	54.8	76.1		
Iron	mg/L	0.647	0.239	1.03	0.244	1.48	4.72	0.699	0.3	0.3
Magnesium	mg/L	6.2	1.91	3.74	6.24	2.85	5.07	8.63		
Manganese	mg/L	0.0276	0.0079	0.0322	0.0225	0.0359	0.127	0.0463	0.05	
Potassium	mg/L	2.23	0.39	1.03	2.2	0.6	1.37	2.05		
Silicon	mg/L	5.79	8	7.12	5.48	9.25	5.93	6.29		
Sulfur	mg/L	13.2	2.6	2.4	11.4	6.4	41	37.1		
Sodium	mg/L	2.71	1.18	2.27	2.72	1.44	1.58	2.65	<200	
Titanium	mg/L	0.0136	0.0018	0.0163	0.0035	0.0196	<0.0010	0.0048		
Aluminum	mg/L	0.086	0.158	0.811	0.097	1.11	0.371	0.225		0.1
Antimony	mg/L	0.0003	0.0003	<0.0002	<0.0002	0.0006	0.0005	0.0009	0.006	
Arsenic	mg/L	0.0028	0.0024	0.0019	0.0015	0.0046	0.0017	0.0045	0.01	
Barium	mg/L	0.068	0.026	0.073	0.058	0.071	0.058	0.048	1	
Beryllium	mg/L	<0.00004	<0.00004	<0.00004	<0.00004	0.00006	0.00011	<0.00004		
Bismuth	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
Boron	mg/L	0.008	<0.005	<0.005	0.008	0.012	<0.005	0.016		
Cadmium	mg/L	0.00009	0.00014	0.0001	0.00006	0.00034	0.00016	0.00018	0.005	0.0018
Chromium	mg/L	0.001	0.0005	0.0012	0.0005	0.0019	<0.0004	0.0006	0.05	0.002
Cobalt	mg/L	0.0004	0.00008	0.00042	0.00015	0.00072	0.00327	0.00029		
Copper	mg/L	0.003	0.006	0.003	0.002	0.011	0.007	0.004	1	0.004
Lead	mg/L	0.001	<0.0001	0.0009	<0.0001	0.002	<0.0001	0.0006		
Lithium	mg/L	0.005	0.001	0.008	0.005	0.002	0.008	0.001		
Molybdenum	mg/L	0.0014	0.0006	0.0008	0.0015	0.0016	0.0001	0.0019		
Nickel	mg/L	0.004	0.003	0.003	0.002	0.006	0.034	0.004		0.15
Selenium	mg/L	0.0008	<0.0006	<0.0006	0.0007	0.0008	0.0008	0.002	0.01	0.001
Silver	mg/L	0.00001	<0.00001	0.00002	<0.00001	0.00004	<0.00001	<0.00001		0.0001
Strontium	mg/L	0.119	0.043	0.072	0.117	0.065	0.09	0.202		
Thallium	mg/L	<0.00001	<0.00001	0.00002	<0.00001	0.00003	0.00002	0.00001		
Tin	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001		
Uranium	mg/L	0.0022	<0.0004	0.0022	0.0024	<0.0004	<0.0004	0.0015	0.02	
Vanadium	mg/L	0.0016	0.0005	0.0027	0.0007	0.0048	0.0004	0.0013		
Zinc	mg/L	0.01	0.011	0.009	0.003	0.022	0.08	0.011	<5	0.03
Zirconium	mg/L	0.0004	0.0007	0.0008	0.0002	0.0008	0.0004	0.0004		
Mercury	mg/L	<0.00001	<0.00001	<0.00001	<0.00001	0.00001	<0.00001	<0.00001	0.001	

indicates levels equal or exceed Guideline Limits

Table 6.Silver Range Resources - KEG Claims September, 2013.
Total Metals Analysis Results.

Parameter	Units	KEG#8	KEG#9	KEG#10	KEG#11	KEG#12	KEG#13	DWQ* G.Lines	Aquatic** G.Lines
Calcium	mg/L	56.5	49.3	45.4	83	88.4	81.4		
Iron	mg/L	0.08	0.713	4.2	0.169	0.291	0.17	0.3	0.3
Magnesium	mg/L	4.97	7.42	12.5	13.6	12.6	17.3		
Manganese	mg/L	0.009	0.0458	0.165	0.0111	0.008	0.0167	0.05	
Potassium	mg/L	1.23	1.48	1.17	1.41	1.23	1.25		
Silicon	mg/L	5.45	5.73	8.68	4.27	3.88	3.74		
Sulfur	mg/L	18.2	15.9	26.4	42.3	41.6	47.7		
Sodium	mg/L	1.98	2.78	2.24	2.09	1.62	1.66	<200	
Titanium	mg/L	<0.0010	0.0056	0.0393	<0.0010	<0.0010	<0.0010		
Aluminum	mg/L	0.034	0.208	2.78	0.131	0.082	0.21		0.1
Antimony	mg/L	0.0005	0.0003	0.0017	0.0004	0.0004	0.0004	0.006	
Arsenic	mg/L	0.0012	0.0021	0.0091	0.0009	0.0005	0.001	0.01	
Barium	mg/L	0.042	0.076	0.162	0.057	0.059	0.061	1	
Beryllium	mg/L	<0.00004	<0.00004	0.00015	<0.00004	<0.00004	<0.00004		
Bismuth	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
Boron	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		
Cadmium	mg/L	0.00003	0.00014	0.00076	0.00091	0.0008	0.00258	0.005	0.0018
Chromium	mg/L	0.0004	0.0006	0.0042	<0.0004	0.0004	<0.0004	0.05	0.002
Cobalt	mg/L	0.00011	0.00032	0.00203	0.00048	0.00041	0.0015		
Copper	mg/L	0.001	0.002	0.016	0.002	0.002	0.004	1	0.004
Lead	mg/L	<0.0001	0.0005	0.0083	0.0002	0.0001	0.0002		
Lithium	mg/L	0.002	0.006	0.006	0.002	0.004	0.002		
Molybdenum	mg/L	0.0012	0.0013	0.0016	0.0012	0.0015	0.0009		
Nickel	mg/L	0.002	0.004	0.013	0.006	0.008	0.011		0.15
Selenium	mg/L	0.0011	<0.0006	0.0009	0.002	0.0024	0.0024	0.01	0.001
Silver	mg/L	<0.00001	<0.00001	0.00016	<0.00001	<0.00001	<0.00001		0.0001
Strontium	mg/L	0.182	0.146	0.186	0.23	0.283	0.221		
Thallium	mg/L	<0.00001	<0.00001	0.00007	<0.00001	<0.00001	<0.00001		
Tin	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001		
Uranium	mg/L	0.0007	0.002	0.0012	0.0022	0.0021	0.0026	0.02	
Vanadium	mg/L	0.0003	0.0014	0.0127	0.0006	0.0004	0.0004		
Zinc	mg/L	0.003	0.008	0.076	0.028	0.048	0.084	<5	0.03
Zirconium	mg/L	0.0002	0.0002	0.0008	0.0002	0.0002	0.0002		
Mercury	mg/L	<0.00001	<0.00001	0.00002	<0.00001	<0.00001	<0.00001	0.001	

indicates levels equal or exceed Guideline Limits

Table 7.Silver Range Resources - KEG Claims September, 2013.

Dissolved Metals Analysis Results

Parameter	Units	KEG #1	KEG #2	KEG #3	KEG #4	KEG #5	KEG #6	KEG #7
Calcium	mg/L	49.3	23.2	21.9	47.8	28.5	54.2	77
Iron	mg/L	0.09	<0.005	0.057	0.098	0.19	3.83	<0.005
Magnesium	mg/L	5.94	1.91	3.49	6.02	2.43	4.93	8.44
Manganese	mg/L	0.012	0.006	0.005	0.015	0.005	0.116	0.035
Potassium	mg/L	2	0.4	0.9	2.1	0.4	1.3	2
Silicon	mg/L	5.19	7.59	5.94	5.12	7.7	5.53	5.7
Sodium	mg/L	2.5	1.2	2.1	2.6	1.4	1.5	2.5
Sulfur	mg/L	13.4	2.6	2.4	11.1	6.4	40.1	36.8
Aluminum	mg/L	0.029	0.146	0.037	0.014	0.158	0.294	0.038
Antimony	mg/L	0.0002	0.0003	<0.0002	<0.0002	0.0005	0.0004	0.0008
Arsenic	mg/L	0.0014	0.0022	0.0009	0.0014	0.0028	0.0014	0.0028
Barium	mg/L	0.053	0.025	0.042	0.055	0.025	0.055	0.038
Beryllium	mg/L	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	0.00009	<0.00004
Bismuth	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/L	0.007	<0.004	<0.004	0.006	0.01	<0.004	0.014
Cadmium	mg/L	0.00006	0.00014	0.00001	0.00004	0.00013	0.00015	0.0001
Chromium	mg/L	0.0005	0.0008	0.0005	0.0007	0.0007	0.0004	0.0007
Cobalt	mg/L	0.00017	0.00009	0.00007	0.00009	0.00011	0.00311	0.00017
Copper	mg/L	0.002	0.005	0.001	0.001	0.006	0.006	0.003
Lead	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	0.0001	<0.0001	<0.0001
Lithium	mg/L	0.004	<0.001	0.006	0.004	<0.001	0.007	<0.001
Molybdenum	mg/L	0.00134	0.00049	0.00076	0.00137	0.00153	0.0001	0.00184
Nickel	mg/L	0.003	0.003	0.002	0.002	0.003	0.032	0.004
Selenium	mg/L	0.0009	<0.0006	<0.0006	0.0006	<0.0006	<0.0006	0.0022
Silver	mg/L	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Strontium	mg/L	0.115	0.043	0.067	0.113	0.058	0.086	0.195
Titanium	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Thallium	mg/L	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00003	<0.00001
Tin	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Uranium	mg/L	0.0021	<0.0004	0.0018	0.0024	<0.0004	<0.0004	0.0015
Vanadium	mg/L	0.00046	0.00059	0.00042	0.00048	0.00108	0.00028	0.00046
Zinc	mg/L	0.005	0.011	0.002	0.002	0.004	0.079	0.005
Zirconium	mg/L	0.00029	0.00064	0.00026	0.00014	0.00068	0.00028	0.00035

Table 7.Silver Range Resources - KEG Claims September, 2013.
Dissolved Metals Analysis Results

Parameter	Units	KEG#8	KEG#9	KEG#10	KEG#11	KEG#12	KEG#13
Calcium	mg/L	56.6	48.8	43.9	83.6	89.2	81.2
Iron	mg/L	0.05	0.165	0.293	0.029	0.074	0.049
Magnesium	mg/L	4.9	7.21	11	13.2	12.3	16.7
Manganese	mg/L	0.006	0.028	0.048	0.006	0.006	0.012
Potassium	mg/L	1.1	1.4	0.8	1.3	1.3	1.2
Silicon	mg/L	5.16	5.04	5.44	4.07	3.73	3.5
Sodium	mg/L	1.9	2.6	2	2.1	1.6	1.6
Sulfur	mg/L	17.7	15.4	25.7	42.4	41.6	46.6
Aluminum	mg/L	0.015	0.022	0.111	0.038	0.022	0.078
Antimony	mg/L	0.0005	0.0002	0.0009	0.0004	0.0004	0.0004
Arsenic	mg/L	0.0012	0.0013	0.0016	0.0007	0.0005	0.0009
Barium	mg/L	0.041	0.06	0.04	0.051	0.055	0.058
Beryllium	mg/L	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004
Bismuth	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/L	<0.004	0.005	<0.004	<0.004	<0.004	<0.004
Cadmium	mg/L	0.00002	0.00007	0.00012	0.00081	0.00062	0.00242
Chromium	mg/L	0.0007	0.0005	0.0006	0.0006	0.0009	0.0008
Cobalt	mg/L	0.00009	0.00013	0.00027	0.00037	0.00034	0.00138
Copper	mg/L	0.001	0.001	0.003	0.001	0.001	0.001
Lead	mg/L	<0.0001	<0.0001	0.0003	<0.0001	<0.0001	<0.0001
Lithium	mg/L	0.001	0.005	0.002	0.002	0.004	0.002
Molybdenum	mg/L	0.00114	0.0012	0.00121	0.00116	0.00144	0.00084
Nickel	mg/L	0.004	0.003	0.004	0.006	0.007	0.01
Selenium	mg/L	0.001	0.0006	<0.0006	0.0018	0.0024	0.0025
Silver	mg/L	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Strontium	mg/L	0.176	0.14	0.162	0.219	0.275	0.211
Titanium	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Thallium	mg/L	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Tin	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Uranium	mg/L	0.0007	0.002	0.0007	0.0021	0.002	0.0025
Vanadium	mg/L	0.00032	0.00039	0.00079	0.00033	0.0004	0.00036
Zinc	mg/L	0.003	0.004	0.01	0.022	0.037	0.07
Zirconium	mg/L	0.00019	0.00016	0.00052	0.00014	0.00018	0.00013

Table 8.Silver Range Resources - KEG Claims August , 2013.
Quality Control Total and Dissolved Metals Analysis Results.

Parameter	Units	KEG #1 August Diss.Metals	KEG #1 August Diss.Metals Duplicate	KEG #1 August Total Metals	KEG #1 August Total Metals Duplicate
Calcium	mg/L	45.5	45	48.2	48.4
Iron	mg/L	0.11	0.119	1.04	0.986
Magnesium	mg/L	5.32	5.28	5.82	5.85
Manganese	mg/L	0.009	0.008	0.0411	0.0394
Potassium	mg/L	1.8	1.9	2.14	2.08
Silicon	mg/L	5.43	5.39	6.61	6.6
Sodium	mg/L	2.5	2.5	2.37	2.34
Titanium	mg/L	<0.010	<0.010	0.0224	0.0236
Aluminum	mg/L	0.035	0.037	0.656	0.619
Antimony	mg/L	<0.0002	<0.0002	0.0003	0.0003
Arsenic	mg/L	0.0014	0.0016	0.0029	0.0027
Barium	mg/L	0.048	0.048	0.065	0.066
Beryllium	mg/L	<0.00004	<0.00004	<0.00004	0.00008
Bismuth	mg/L	<0.001	<0.001	<0.001	<0.001
Boron	mg/L	0.005	0.005	<0.005	<0.005
Cadmium	mg/L	0.00004	0.00005	0.00012	0.00013
Chromium	mg/L	<0.0004	0.0006	0.0024	0.0019
Cobalt	mg/L	0.00014	0.00016	0.00051	0.0005
Copper	mg/L	0.002	0.002	0.005	0.004
Lead	mg/L	<0.0001	<0.0001	0.0009	0.0008
Lithium	mg/L	0.004	0.004	0.004	0.004
Molybdenum	mg/L	0.00124	0.00118	0.0012	0.0012
Nickel	mg/L	0.003	0.003	0.005	0.005
Selenium	mg/L	<0.0006	<0.0006	0.0009	0.0007
Silver	mg/L	<0.00001	<0.00001	0.00002	0.00002
Strontium	mg/L	0.096	0.097	0.104	0.109
Thallium	mg/L	<0.00001	<0.00001	<0.00001	<0.00001
Tin	mg/L	<0.0001	<0.0001	<0.0001	<0.0001
Uranium	mg/L	0.0017	0.0017	0.0018	0.0018
Vanadium	mg/L	0.00044	0.00071	0.0036	0.0034
Zinc	mg/L	0.005	0.006	0.011	0.011
Zirconium	mg/L	0.00018	0.00015	0.0003	0.0003
Mercury	mg/L			<0.00001	<0.00001

indicates >10% variation between samples

Table 8. Silver Range Resources - KEG Claims September, 2013.
Quality Control Total and Dissolved Metals Analysis Results.

Parameter	Units	KEG #4 Sept Diss.Metals	KEG #4 Sept Diss.Metals Duplicate	KEG #4 Sept Total Metals	KEG #4 Sept Total Metals Duplicate	KEG #13 Sept Diss.Metals	KEG #13 Sept Diss.Metals Duplicate
Calcium	mg/L	47.8	48.6	48.4	49	81.2	81.1
Iron	mg/L	0.098	0.09	0.244	0.461	0.049	0.044
Magnesium	mg/L	6.02	6.12	6.24	6.31	16.7	16.8
Manganese	mg/L	0.015	0.016	0.0225	0.0229	0.012	0.012
Potassium	mg/L	2.1	2.2	2.2	2.26	1.2	1.2
Silicon	mg/L	5.12	5.13	5.48	5.54	3.5	3.55
Sodium	mg/L	2.6	2.7	2.72	2.8	1.6	1.7
Titanium	mg/L	<0.010	<0.010	0.0035	0.0022	<0.010	<0.010
Aluminum	mg/L	0.014	0.015	0.097	0.104	0.078	0.073
Antimony	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	0.0004	0.0004
Arsenic	mg/L	0.0014	0.0013	0.0015	0.0015	0.0009	0.0007
Barium	mg/L	0.055	0.054	0.058	0.058	0.058	0.058
Beryllium	mg/L	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004
Bismuth	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/L	0.006	0.006	0.008	0.007	<0.004	<0.004
Cadmium	mg/L	0.00004	0.00005	0.00006	0.00006	0.00242	0.00232
Chromium	mg/L	0.0007	0.0008	0.0005	0.0006	0.0008	0.0008
Cobalt	mg/L	0.00009	0.0001	0.00015	0.00015	0.00138	0.00138
Copper	mg/L	0.001	0.001	0.002	0.002	0.001	0.001
Lead	mg/L	<0.0001	<0.0001	<0.0001	0.0001	<0.0001	<0.0001
Lithium	mg/L	0.004	0.004	0.005	0.004	0.002	0.002
Molybdenum	mg/L	0.00137	0.00136	0.0015	0.0014	0.00084	0.00084
Nickel	mg/L	0.002	0.002	0.002	0.002	0.01	0.01
Selenium	mg/L	0.0006	<0.0006	0.0007	<0.0006	0.0025	0.0024
Silver	mg/L	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Strontium	mg/L	0.113	0.112	0.117	0.114	0.211	0.215
Thallium	mg/L	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Tin	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Uranium	mg/L	0.0024	0.0024	0.0024	0.0024	0.0025	0.0026
Vanadium	mg/L	0.00048	0.00047	0.0007	0.0007	0.00036	0.00035
Zinc	mg/L	0.002	0.002	0.003	0.004	0.07	0.069
Zirconium	mg/L	0.00014	0.00016	0.0002	0.0002	0.00013	0.00014
Mercury	mg/L			<0.00001	<0.00001		

indicates >10% variation between samples

As a guide for reviewing site water quality, the Maximum Acceptable Concentration (MAC) according to ***Canadian Drinking Water Quality*** are listed along with the Aquatic Guidelines for the protection of aquatic life in water with a pH of > 6.5 and a total hardness as CaC03 > 180 mg/L according to ***CCME – Canadian Water Quality Guidelines.***
All water quality ***Guideline*** concentrations are based on total metal values.

All laboratory analysis was done by Exova Canada Inc of Surrey B.C.

Laboratory Analytical Reports are attached in Appendix 1.

Data Summaries for each station are on the attached Excel disc.

Quality Control

Total and dissolved metals duplicate samples were taken at KEG #1 for quality control.in August and at KEG #4 in September. KEG#13 had dissolved metals quality control samples taken in September.

Quality control analysis results are listed in Table 8.

Discussion

Laboratory Analytical Results

Parameters that equal or exceed either ***Drinking Water or Aquatic Guidelines*** are highlighted in yellow.

August 2013

Station KEG#1 results exceed the ***Aquatic Guidelines*** for aluminum, iron and copper; and the ***Drinking Water MAC*** for iron.

Station KEG#2 results exceed the ***Aquatic Guidelines*** for aluminum and copper;

Station KEG#4 results exceed ***Aquatic Guidelines*** for aluminum and iron; the ***Drinking Water MAC*** for iron.

Station KEG#5 results exceed ***Aquatic Guidelines*** for aluminum, iron, copper, chromium, selenium, silver and zinc; the ***Drinking Water MAC*** for iron and manganese

Station KEG#6 results exceed ***Aquatic Guidelines*** for aluminum, iron and copper; the ***Drinking Water MAC*** for iron and manganese.

Station KEG#9 (receiving waters) results exceed the ***Aquatic Guidelines*** for aluminum, iron and selenium; and the ***Drinking Water MAC*** for iron and manganese.

September 2013

Station KEG#1 results exceed the ***Aquatic Guidelines*** and the ***Drinking Water MAC*** for iron.

Station KEG#2 results exceed the ***Aquatic Guidelines*** for aluminum and copper.

Station KEG#3 results exceed the ***Aquatic Guidelines*** for aluminum and iron; and the ***Drinking Water MAC*** for iron.

Station KEG#5 results exceed ***Aquatic Guidelines*** for iron, aluminum and cooper; and exceed the ***Drinking Water MAC*** for iron.

Station KEG#6 results exceed ***Aquatic Guidelines*** for aluminum, iron, copper and zinc and exceed the ***Drinking Water MAC*** for iron and manganese.

Station KEG#7 results exceed ***Aquatic Guidelines*** for aluminum, iron, copper and selenium; and exceed the ***Drinking Water MAC*** for iron.

Station KEG#8 results exceed the ***Aquatic Guidelines*** for selenium.

Station KEG #9 (receiving waters) results exceed ***Aquatic Guideline*** for iron and aluminum; and the ***Drinking Water MAC's*** for iron.

Station KEG#10 results exceed ***Aquatic Guidelines*** for aluminum, iron, chromium, silver and zinc and exceed the ***Drinking Water MAC*** for iron and manganese.

Station KEG#11 results exceed the ***Aquatic Guidelines*** for aluminum and selenium.

Station KEG#12 results exceed the ***Aquatic Guidelines*** for selenium and zinc.

Station KEG#13 results exceed the ***Aquatic Guidelines*** for aluminum, selenium and zinc.

In August 2013, Total Mercury concentrations were detected at Stations KEG# 5 slightly above (0.0002 mg/L) the detection limit of 0.0001 mg/L. All other monthly stations had total mercury below the detection limits.

In September 2013, Total Mercury concentrations were detected at Stations KEG# 5 at the detection limit of 0.0001 mg/L and at Station KEG#10 (0.0002 mg/L). All other stations had concentrations below the detection limit..

Total Cyanide concentrations were below the detection limit of 0.002 mg/L at all KEG stations in August 2013. Total cyanide was at detection limits in September at Stations KEG#2 and KEG#10.

APPENDIX 1

LABORATORY ANALYTICAL REPORTS

KEG PROJECT

August and September 2013

Exova
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Report Transmission Cover Page

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**955085**
Report To:	J. Gibson & Associates	ID:	Silver Range Res.	Control Number:	B05980
	Box 20913	Name:		Date Received:	Aug 27, 2013
	Whitehorse, YT, Canada	Location:	Keg Project	Date Reported:	Sep 5, 2013
	Y1A 6P2	LSD:		Report Number:	1851944
Attn:	John Gibson	P.O.:			
Sampled By:	J. Gibson	Acct code:			
Company:					

Contact & Affiliation	Address	Delivery Commitments
John Gibson J. Gibson & Associates	, Box 20913 Whitehorse, Yukon Territory Y1A 6P2 Phone: (867) 633-4522 Fax: (867) 668-6895 Email: ludditegibson@gmail.com	On [Lot Verification] send (COA) by Email - Single Report On [Report Approval] send (COC, Test Report) by Email - Merge Reports On [Report Approval] send (Test Report) by Email - Single Report On [Lot Approval and Final Test Report Approval] send (Invoice) by Email - Single Report On [Lot Creation] send (COR) by Email - Single Report

Notes To Clients:

- Some total metal results were less than dissolved metal results for lot 955085. The results were verified and are within expected measurement uncertainty.
- pH analysis was performed past the recommended holding time of 15 minutes from sample collection.

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Sample Custody

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**955085**
Report To:	J. Gibson & Associates	ID:	Silver Range Res.	Control Number:	B05980
	Box 20913	Name:		Date Received:	Aug 27, 2013
	Whitehorse, YT, Canada	Location:	Keg Project	Date Reported:	Sep 5, 2013
	Y1A 6P2	LSD:		Report Number:	1851944
Attn:	John Gibson	P.O.:			
Sampled By:	J. Gibson	Acct code:			
Company:					

Sample Disposal Date: October 05, 2013

All samples will be stored until this date unless other instructions are received. Please indicate other requirements below and return this form to the address or fax number on the top of this page.

☐ Extend Sample Storage Until _____ (MM/DD/YY)

The following charges apply to extended sample storage:

Storage for an additional 30 days	$ 2.50 per sample
Storage for an additional 60 days	$ 5.00 per sample
Storage for an additional 90 days	$ 7.50 per sample

☐ Return Sample, collect, to the address below via:

- ☐ Greyhound
- ☐ DHL
- ☐ Purolator
- ☐ Other (specify) _____

Name _____
Company _____
Address _____
_____
Phone _____
Fax _____

Signature _____

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W: www.exova.com

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**955085**
Report To:	J. Gibson & Associates	ID:	Silver Range Res.	Control Number:	B05980
	Box 20913	Name:		Date Received:	Aug 27, 2013
	Whitehorse, YT, Canada	Location:	Keg Project	Date Reported:	Sep 5, 2013
	Y1A 6P2	LSD:		Report Number:	1851944
Attn:	John Gibson	P.O.:			
Sampled By:	J. Gibson	Acct code:			
Company:					

			Reference Number	955085-1	955085-2	955085-3	
			Sample Date	Aug 25, 2013	Aug 25, 2013	Aug 25, 2013	
			Sample Time	NA	NA	NA	
			Sample Location	Surf	Surf	Surf	
			Sample Description	KEG #1	KEG #2	KEG #3	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Inorganic Nonmetallic Parameters							
Organic Carbon	Total Nonpurgeable	mg/L		10	31.4	11.3	0.5
Cyanide	Total	mg/L		<0.002	<0.002	<0.002	0.002
Ammonia - N		mg/L		0.02	0.02	0.02	.01
Phosphorus	Total	mg/L		0.046	0.008	0.010	0.003
Metals Dissolved							
Sulfur	Dissolved	mg/L		11.4	2.3	2.3	0.2
Aluminum	Dissolved	mg/L		0.035	0.205	0.035	0.005
Antimony	Dissolved	mg/L		<0.0002	0.0002	<0.0002	0.0002
Arsenic	Dissolved	mg/L		0.0014	0.0023	0.0008	0.0002
Barium	Dissolved	mg/L		0.048	0.024	0.044	0.001
Beryllium	Dissolved	mg/L		<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Dissolved	mg/L		<0.001	<0.001	<0.001	0.001
Boron	Dissolved	mg/L		0.005	<0.004	<0.004	0.004
Cadmium	Dissolved	mg/L		0.00004	0.00015	0.00002	0.00001
Chromium	Dissolved	mg/L		<0.0004	<0.0004	<0.0004	0.0004
Cobalt	Dissolved	mg/L		0.00014	0.00008	0.00006	0.00002
Copper	Dissolved	mg/L		0.002	0.005	<0.001	0.001
Lead	Dissolved	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Lithium	Dissolved	mg/L		0.004	0.001	0.008	0.001
Molybdenum	Dissolved	mg/L		0.00124	0.00051	0.00083	0.0001
Nickel	Dissolved	mg/L		0.003	0.003	0.001	0.001
Selenium	Dissolved	mg/L		<0.0006	<0.0006	<0.0006	0.0006
Silver	Dissolved	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Titanium	Dissolved	mg/L		<0.010	<0.010	<0.010	0.01
Strontium	Dissolved	mg/L		0.096	0.037	0.071	0.001
Tellurium	Dissolved	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Thallium	Dissolved	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Thorium	Dissolved	mg/L		<0.0004	<0.0004	<0.0004	0.0004
Tin	Dissolved	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Uranium	Dissolved	mg/L		0.0017	<0.0004	0.0025	0.0004
Vanadium	Dissolved	mg/L		0.00044	0.00054	0.00030	0.0001
Zinc	Dissolved	mg/L		0.005	0.009	0.001	0.001
Zirconium	Dissolved	mg/L		0.00018	0.00063	0.00019	0.0001
Metals Total							
Calcium	Total	mg/L		48.2	22.6	25.7	0.05
Iron	Total	mg/L		1.04	0.247	0.131	0.01

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W: www.exova.com

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J. Gibson
Company:

Project:
ID: Silver Range Res.
Name:
Location: Keg Project
LSD:
P.O.:
Acct code:

Lot ID: **955085**
Control Number: B05980
Date Received: Aug 27, 2013
Date Reported: Sep 5, 2013
Report Number: 1851944

			Reference Number	955085-1	955085-2	955085-3	
			Sample Date	Aug 25, 2013	Aug 25, 2013	Aug 25, 2013	
			Sample Time	NA	NA	NA	
			Sample Location	Surf	Surf	Surf	
			Sample Description	KEG #1	KEG #2	KEG #3	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Total - Continued							
Magnesium	Total	mg/L		5.82	1.84	4.00	0.05
Manganese	Total	mg/L		0.0411	0.0064	0.0075	0.005
Potassium	Total	mg/L		2.14	0.31	0.86	0.1
Silicon	Total	mg/L		6.61	8.54	6.98	0.05
Sulfur	Total	mg/L		12.0	2.4	2.3	0.1
Sodium	Total	mg/L		2.37	1.05	2.32	0.02
Titanium	Total	mg/L		0.0224	0.0066	0.0038	0.001
Aluminum	Total	mg/L		0.656	0.220	0.084	0.005
Antimony	Total	mg/L		0.0003	0.0003	<0.0002	0.0002
Arsenic	Total	mg/L		0.0029	0.0026	0.0011	0.0002
Barium	Total	mg/L		0.065	0.026	0.048	0.001
Beryllium	Total	mg/L		<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Total	mg/L		<0.001	<0.001	<0.001	0.001
Boron	Total	mg/L		<0.005	<0.005	<0.005	0.004
Cadmium	Total	mg/L		0.00012	0.00015	0.00005	0.00001
Chromium	Total	mg/L		0.0024	0.0010	0.0006	0.0004
Cobalt	Total	mg/L		0.00051	0.00009	0.00008	0.00002
Copper	Total	mg/L		0.005	0.006	0.002	0.001
Lead	Total	mg/L		0.0009	<0.0001	0.0001	0.0001
Lithium	Total	mg/L		0.004	0.001	0.008	0.001
Mercury	Total	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Molybdenum	Total	mg/L		0.0012	0.0005	0.0009	0.0001
Nickel	Total	mg/L		0.005	0.003	0.001	0.001
Selenium	Total	mg/L		0.0009	0.0007	<0.0006	0.0006
Silver	Total	mg/L		0.00002	<0.00001	<0.00001	0.00001
Strontium	Total	mg/L		0.104	0.040	0.078	0.001
Tellurium	Total	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Thallium	Total	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Thorium	Total	mg/L		<0.0004	<0.0004	<0.0004	0.0004
Tin	Total	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Uranium	Total	mg/L		0.0018	<0.0004	0.0026	0.0004
Vanadium	Total	mg/L		0.0036	0.0008	0.0006	0.0001
Zinc	Total	mg/L		0.011	0.009	0.001	0.001
Zirconium	Total	mg/L		0.0003	0.0007	0.0002	0.0001
Physical and Aggregate Properties							
Solids	Total Suspended	mg/L		38	<5	4	1

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J. Gibson
Company:

Project:
ID: Silver Range Res.
Name:
Location: Keg Project
LSD:
P.O.:
Acct code:

Lot ID: **955085**
Control Number: B05980
Date Received: Aug 27, 2013
Date Reported: Sep 5, 2013
Report Number: 1851944

			Reference Number	955085-1	955085-2	955085-3	
			Sample Date	Aug 25, 2013	Aug 25, 2013	Aug 25, 2013	
			Sample Time	NA	NA	NA	
			Sample Location	Surf	Surf	Surf	
			Sample Description	KEG #1	KEG #2	KEG #3	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Physical and Aggregate Properties - Continued							
Solids	Total Dissolved	mg/L		180	118	104	5
Routine Water							
pH	at 25 °C			7.82	6.98	7.69	
Electrical Conductivity		µS/cm at 25 C		232	88	129	1
Calcium	Dissolved	mg/L		45.5	21.4	24.3	0.1
Iron	Dissolved	mg/L		0.110	0.200	0.044	0.005
Magnesium	Dissolved	mg/L		5.32	1.71	3.74	0.1
Manganese	Dissolved	mg/L		0.009	0.002	<0.001	0.001
Potassium	Dissolved	mg/L		1.8	0.1	0.7	0.1
Silicon	Dissolved	mg/L		5.43	8.06	6.57	0.05
Sodium	Dissolved	mg/L		2.5	1.2	2.5	0.1
Bicarbonate		mg/L		118	48	80	5
Carbonate		mg/L		<6	<6	<6	6
Hydroxide		mg/L		<5	<5	<5	5
P-Alkalinity	as CaCO3	mg/L		<5	<5	<5	5
T-Alkalinity	as CaCO3	mg/L		97	39	66	5
Chloride	Dissolved	mg/L		0.10	0.09	0.05	0.05
Nitrate - N	Dissolved	mg/L		0.02	<0.01	<0.01	0.01
Nitrite - N	Dissolved	mg/L		<0.01	<0.01	<0.01	0.01
Sulfate (SO4)	Dissolved	mg/L		34.7	6.2	6.2	0.5
Hardness	as CaCO3	mg/L		135	60	76	5
Hardness	Total	mg CaCO3/L		144	64.1	80.6	1

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**955085**
Report To:	J. Gibson & Associates	ID:	Silver Range Res.	Control Number:	B05980
	Box 20913	Name:		Date Received:	Aug 27, 2013
	Whitehorse, YT, Canada	Location:	Keg Project	Date Reported:	Sep 5, 2013
	Y1A 6P2	LSD:		Report Number:	1851944
Attn:	John Gibson	P.O.:			
Sampled By:	J. Gibson	Acct code:			
Company:					

			Reference Number	955085-4	955085-5	955085-6	
			Sample Date	Aug 25, 2013	Aug 25, 2013	Aug 25, 2013	
			Sample Time	NA	NA	NA	
			Sample Location	Surf	Surf	Surf	
			Sample Description	KEG #4	KEG #5	KEG #6	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Inorganic Nonmetallic Parameters							
Organic Carbon	Total Nonpurgeable	mg/L		9.8	27.2	12.6	0.5
Cyanide	Total	mg/L		<0.002	0.002	<0.002	0.002
Ammonia - N		mg/L		0.02	0.03	0.05	.01
Phosphorus	Total	mg/L		0.025	0.302	0.006	0.003
Metals Dissolved							
Sulfur	Dissolved	mg/L		9.1	5.3	33.0	0.2
Aluminum	Dissolved	mg/L		0.023	0.219	0.239	0.005
Antimony	Dissolved	mg/L		<0.0002	0.0004	0.0004	0.0002
Arsenic	Dissolved	mg/L		0.0011	0.0026	0.0010	0.0002
Barium	Dissolved	mg/L		0.051	0.024	0.048	0.001
Beryllium	Dissolved	mg/L		<0.00004	<0.00004	0.00011	0.00004
Bismuth	Dissolved	mg/L		<0.001	<0.001	<0.001	0.001
Boron	Dissolved	mg/L		0.005	0.008	<0.004	0.004
Cadmium	Dissolved	mg/L		0.00004	0.00014	0.00012	0.00001
Chromium	Dissolved	mg/L		<0.0004	<0.0004	<0.0004	0.0004
Cobalt	Dissolved	mg/L		0.00010	0.00017	0.00224	0.00002
Copper	Dissolved	mg/L		0.002	0.006	0.005	0.001
Lead	Dissolved	mg/L		<0.0001	0.0002	<0.0001	0.0001
Lithium	Dissolved	mg/L		0.004	0.001	0.007	0.001
Molybdenum	Dissolved	mg/L		0.00115	0.00118	0.00018	0.0001
Nickel	Dissolved	mg/L		0.002	0.003	0.024	0.001
Selenium	Dissolved	mg/L		<0.0006	<0.0006	<0.0006	0.0006
Silver	Dissolved	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Titanium	Dissolved	mg/L		<0.010	<0.010	<0.010	0.01
Strontium	Dissolved	mg/L		0.090	0.047	0.071	0.001
Tellurium	Dissolved	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Thallium	Dissolved	mg/L		<0.00001	<0.00001	0.00002	0.00001
Thorium	Dissolved	mg/L		<0.0004	<0.0004	<0.0004	0.0004
Tin	Dissolved	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Uranium	Dissolved	mg/L		0.0018	<0.0004	<0.0004	0.0004
Vanadium	Dissolved	mg/L		0.00034	0.00125	0.00015	0.0001
Zinc	Dissolved	mg/L		0.002	0.004	0.056	0.001
Zirconium	Dissolved	mg/L		0.00014	0.00070	0.00031	0.0001
Metals Total							
Calcium	Total	mg/L		45.3	29.1	49.1	0.05
Iron	Total	mg/L		0.488	5.18	5.51	0.01

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J. Gibson
Company:

Project:
ID: Silver Range Res.
Name:
Location: Keg Project
LSD:
P.O.:
Acct code:

Lot ID: **955085**
Control Number: B05980
Date Received: Aug 27, 2013
Date Reported: Sep 5, 2013
Report Number: 1851944

			Reference Number	955085-4	955085-5	955085-6	
			Sample Date	Aug 25, 2013	Aug 25, 2013	Aug 25, 2013	
			Sample Time	NA	NA	NA	
			Sample Location	Surf	Surf	Surf	
			Sample Description	KEG #4	KEG #5	KEG #6	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Total - Continued							
Magnesium	Total	mg/L		5.75	3.43	4.57	0.05
Manganese	Total	mg/L		0.0292	0.121	0.0931	0.005
Potassium	Total	mg/L		2.07	0.86	1.16	0.1
Silicon	Total	mg/L		6.14	12.9	6.42	0.05
Sulfur	Total	mg/L		9.8	5.8	35.4	0.1
Sodium	Total	mg/L		2.32	1.29	1.41	0.02
Titanium	Total	mg/L		0.0172	0.0536	0.0050	0.001
Aluminum	Total	mg/L		0.222	2.74	0.354	0.005
Antimony	Total	mg/L		<0.0002	0.0008	0.0004	0.0002
Arsenic	Total	mg/L		0.0017	0.0070	0.0017	0.0002
Barium	Total	mg/L		0.059	0.183	0.052	0.001
Beryllium	Total	mg/L		<0.00004	0.00018	0.00014	0.00004
Bismuth	Total	mg/L		<0.001	<0.0010	<0.001	0.001
Boron	Total	mg/L		<0.005	0.006	<0.005	0.004
Cadmium	Total	mg/L		0.00005	0.00101	0.00012	0.00001
Chromium	Total	mg/L		0.0011	0.0048	<0.0004	0.0004
Cobalt	Total	mg/L		0.00028	0.00254	0.00245	0.00002
Copper	Total	mg/L		0.003	0.020	0.006	0.001
Lead	Total	mg/L		0.0002	0.0060	<0.0001	0.0001
Lithium	Total	mg/L		0.004	0.004	0.007	0.001
Mercury	Total	mg/L		<0.00001	0.00002	<0.00001	0.00001
Molybdenum	Total	mg/L		0.0012	0.0012	0.0002	0.0001
Nickel	Total	mg/L		0.003	0.013	0.026	0.001
Selenium	Total	mg/L		0.0008	0.0011	0.0006	0.0006
Silver	Total	mg/L		<0.00001	0.00016	<0.00001	0.00001
Strontium	Total	mg/L		0.098	0.066	0.078	0.001
Tellurium	Total	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Thallium	Total	mg/L		<0.00001	0.00008	0.00002	0.00001
Thorium	Total	mg/L		<0.0004	0.0004	<0.0004	0.0004
Tin	Total	mg/L		<0.0001	<0.0001	0.0007	0.0001
Uranium	Total	mg/L		0.0018	0.0007	<0.0004	0.0004
Vanadium	Total	mg/L		0.0012	0.0121	0.0004	0.0001
Zinc	Total	mg/L		0.003	0.058	0.062	0.001
Zirconium	Total	mg/L		0.0002	0.0011	0.0005	0.0001
Physical and Aggregate Properties							
Solids	Total Suspended	mg/L		10	218	5	1

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**955085**
Report To:	J. Gibson & Associates	ID:	Silver Range Res.	Control Number:	B05980
	Box 20913	Name:		Date Received:	Aug 27, 2013
	Whitehorse, YT, Canada	Location:	Keg Project	Date Reported:	Sep 5, 2013
	Y1A 6P2	LSD:		Report Number:	1851944
Attn:	John Gibson	P.O.:			
Sampled By:	J. Gibson	Acct code:			
Company:					

			Reference Number	955085-4	955085-5	955085-6	
			Sample Date	Aug 25, 2013	Aug 25, 2013	Aug 25, 2013	
			Sample Time	NA	NA	NA	
			Sample Location	Surf	Surf	Surf	
			Sample Description	KEG #4	KEG #5	KEG #6	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Physical and Aggregate Properties - Continued							
Solids	Total Dissolved	mg/L		162	130	218	5
Routine Water							
pH	at 25 °C			7.72	7.33	6.38	
Electrical Conductivity		µS/cm at 25 C		222	109	252	1
Calcium	Dissolved	mg/L		42.2	24.2	46.8	0.1
Iron	Dissolved	mg/L		0.086	0.288	3.28	0.005
Magnesium	Dissolved	mg/L		5.20	2.05	4.35	0.1
Manganese	Dissolved	mg/L		0.009	0.016	0.081	0.001
Potassium	Dissolved	mg/L		1.9	0.3	1.0	0.1
Silicon	Dissolved	mg/L		5.39	8.07	5.92	0.05
Sodium	Dissolved	mg/L		2.4	1.4	1.6	0.1
Bicarbonate		mg/L		119	47	32	5
Carbonate		mg/L		<6	<6	<6	6
Hydroxide		mg/L		<5	<5	<5	5
P-Alkalinity	as CaCO3	mg/L		<5	<5	<5	5
T-Alkalinity	as CaCO3	mg/L		98	38	26	5
Chloride	Dissolved	mg/L		0.09	0.13	0.19	0.05
Nitrate - N	Dissolved	mg/L		0.03	0.25	0.03	0.01
Nitrite - N	Dissolved	mg/L		<0.01	<0.01	<0.01	0.01
Sulfate (SO4)	Dissolved	mg/L		28.0	15.3	103	0.5
Hardness	as CaCO3	mg/L		127	69	135	5
Hardness	Total	mg CaCO3/L		137	86.7	142	1

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**955085**
Report To:	J. Gibson & Associates	ID:	Silver Range Res.	Control Number:	B05980
	Box 20913	Name:		Date Received:	Aug 27, 2013
	Whitehorse, YT, Canada	Location:	Keg Project	Date Reported:	Sep 5, 2013
	Y1A 6P2	LSD:		Report Number:	1851944
Attn:	John Gibson	P.O.:			
Sampled By:	J. Gibson	Acct code:			
Company:					

Reference Number	955085-7
Sample Date	Aug 25, 2013
Sample Time	NA
Sample Location	Surf
Sample Description	KEG #9
Matrix	Water

Analyte		Units	Results	Results	Results	Nominal Detection Limit
Inorganic Nonmetallic Parameters						
Organic Carbon	Total Nonpurgeable	mg/L	9.7			0.5
Cyanide	Total	mg/L	<0.002			0.002
Ammonia - N		mg/L	0.02			.01
Phosphorus	Total	mg/L	0.086			0.003
Physical and Aggregate Properties						
Solids	Total Suspended	mg/L	46			1
Solids	Total Dissolved	mg/L	218			5

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J. Gibson
Company:

Project:
ID: Silver Range Res.
Name:
Location: Keg Project
LSD:
P.O.:
Acct code:

Lot ID: **955085**
Control Number: B05980
Date Received: Aug 27, 2013
Date Reported: Sep 5, 2013
Report Number: 1851944

		Reference Number	955085-7	955085-8		
		Sample Date	Aug 25, 2013	Aug 25, 2013		
		Sample Time	NA	NA		
		Sample Location	Surf	Surf		
		Sample Description	KEG #9	KEG #1 DUPLICATE		
		Matrix	Water	Water		
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Dissolved						
Sulfur	Dissolved	mg/L	16.7	11.3		0.2
Aluminum	Dissolved	mg/L	0.029	0.037		0.005
Antimony	Dissolved	mg/L	0.0003	<0.0002		0.0002
Arsenic	Dissolved	mg/L	0.0014	0.0016		0.0002
Barium	Dissolved	mg/L	0.060	0.048		0.001
Beryllium	Dissolved	mg/L	<0.00004	<0.00004		0.00004
Bismuth	Dissolved	mg/L	<0.001	<0.001		0.001
Boron	Dissolved	mg/L	<0.004	0.005		0.004
Cadmium	Dissolved	mg/L	0.00007	0.00005		0.00001
Chromium	Dissolved	mg/L	0.0013	0.0006		0.0004
Cobalt	Dissolved	mg/L	0.00015	0.00016		0.00002
Copper	Dissolved	mg/L	0.001	0.002		0.001
Lead	Dissolved	mg/L	<0.0001	<0.0001		0.0001
Lithium	Dissolved	mg/L	0.005	0.004		0.001
Molybdenum	Dissolved	mg/L	0.00128	0.00118		0.0001
Nickel	Dissolved	mg/L	0.003	0.003		0.001
Selenium	Dissolved	mg/L	<0.0006	<0.0006		0.0006
Silver	Dissolved	mg/L	<0.00001	<0.00001		0.00001
Titanium	Dissolved	mg/L	<0.010	<0.010		0.01
Strontium	Dissolved	mg/L	0.134	0.097		0.001
Tellurium	Dissolved	mg/L	<0.0001	<0.0001		0.0001
Thallium	Dissolved	mg/L	<0.00001	<0.00001		0.00001
Thorium	Dissolved	mg/L	<0.0004	<0.0004		0.0004
Tin	Dissolved	mg/L	<0.0001	<0.0001		0.0001
Uranium	Dissolved	mg/L	0.0020	0.0017		0.0004
Vanadium	Dissolved	mg/L	0.00082	0.00071		0.0001
Zinc	Dissolved	mg/L	0.003	0.006		0.001
Zirconium	Dissolved	mg/L	0.00019	0.00015		0.0001
Metals Total						
Calcium	Total	mg/L	55.1	48.4		0.05
Iron	Total	mg/L	1.80	0.986		0.01
Magnesium	Total	mg/L	8.09	5.85		0.05
Manganese	Total	mg/L	0.0721	0.0394		0.005
Potassium	Total	mg/L	1.65	2.08		0.1
Silicon	Total	mg/L	7.21	6.60		0.05
Sulfur	Total	mg/L	17.9	12.1		0.1

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**955085**
Report To:	J. Gibson & Associates	ID:	Silver Range Res.	Control Number:	B05980
	Box 20913	Name:		Date Received:	Aug 27, 2013
	Whitehorse, YT, Canada	Location:	Keg Project	Date Reported:	Sep 5, 2013
	Y1A 6P2	LSD:		Report Number:	1851944
Attn:	John Gibson	P.O.:			
Sampled By:	J. Gibson	Acct code:			
Company:					

		Reference Number	955085-7	955085-8		
		Sample Date	Aug 25, 2013	Aug 25, 2013		
		Sample Time	NA	NA		
		Sample Location	Surf	Surf		
		Sample Description	KEG #9	KEG #1 DUPLICATE		
		Matrix	Water	Water		
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Total - Continued						
Sodium	Total	mg/L	2.72	2.34		0.02
Titanium	Total	mg/L	0.0273	0.0236		0.001
Aluminum	Total	mg/L	0.734	0.619		0.005
Antimony	Total	mg/L	0.0004	0.0003		0.0002
Arsenic	Total	mg/L	0.0032	0.0027		0.0002
Barium	Total	mg/L	0.100	0.066		0.001
Beryllium	Total	mg/L	0.00008	0.00008		0.00004
Bismuth	Total	mg/L	<0.001	<0.001		0.001
Boron	Total	mg/L	<0.005	<0.005		0.004
Cadmium	Total	mg/L	0.00022	0.00013		0.00001
Chromium	Total	mg/L	0.0014	0.0019		0.0004
Cobalt	Total	mg/L	0.00065	0.00050		0.00002
Copper	Total	mg/L	0.004	0.004		0.001
Lead	Total	mg/L	0.0012	0.0008		0.0001
Lithium	Total	mg/L	0.006	0.004		0.001
Mercury	Total	mg/L	<0.00001	<0.00001		0.00001
Molybdenum	Total	mg/L	0.0013	0.0012		0.0001
Nickel	Total	mg/L	0.005	0.005		0.001
Selenium	Total	mg/L	0.0013	0.0007		0.0006
Silver	Total	mg/L	0.00004	0.00002		0.00001
Strontium	Total	mg/L	0.149	0.109		0.001
Tellurium	Total	mg/L	<0.0001	<0.0001		0.0001
Thallium	Total	mg/L	0.00002	<0.00001		0.00001
Thorium	Total	mg/L	<0.0004	<0.0004		0.0004
Tin	Total	mg/L	<0.0001	<0.0001		0.0001
Uranium	Total	mg/L	0.0021	0.0018		0.0004
Vanadium	Total	mg/L	0.0032	0.0034		0.0001
Zinc	Total	mg/L	0.015	0.011		0.001
Zirconium	Total	mg/L	0.0003	0.0003		0.0001
Routine Water						
pH	at 25 °C		7.62			
Electrical Conductivity		µS/cm at 25 C	277			1
Calcium	Dissolved	mg/L	51.5	45.0		0.1
Iron	Dissolved	mg/L	0.147	0.119		0.005
Magnesium	Dissolved	mg/L	7.40	5.28		0.1
Manganese	Dissolved	mg/L	0.028	0.008		0.001

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**955085**
Report To:	J. Gibson & Associates	ID:	Silver Range Res.	Control Number:	B05980
	Box 20913	Name:		Date Received:	Aug 27, 2013
	Whitehorse, YT, Canada	Location:	Keg Project	Date Reported:	Sep 5, 2013
	Y1A 6P2	LSD:		Report Number:	1851944
Attn:	John Gibson	P.O.:			
Sampled By:	J. Gibson	Acct code:			
Company:					

		Reference Number	955085-7	955085-8		
		Sample Date	Aug 25, 2013	Aug 25, 2013		
		Sample Time	NA	NA		
		Sample Location	Surf	Surf		
		Sample Description	KEG #9	KEG #1 DUPLICATE		
		Matrix	Water	Water		
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Routine Water - Continued						
Potassium	Dissolved	mg/L	1.2	1.9		0.1
Silicon	Dissolved	mg/L	5.49	5.39		0.05
Sodium	Dissolved	mg/L	2.7	2.5		0.1
Bicarbonate		mg/L	125			5
Carbonate		mg/L	<6			6
Hydroxide		mg/L	<5			5
P-Alkalinity	as CaCO3	mg/L	<5			5
T-Alkalinity	as CaCO3	mg/L	102			5
Chloride	Dissolved	mg/L	0.09			0.05
Nitrate - N	Dissolved	mg/L	0.03			0.01
Nitrite - N	Dissolved	mg/L	<0.01			0.01
Sulfate (SO4)	Dissolved	mg/L	51.2			0.5
Hardness	as CaCO3	mg/L	159	134		5
Hardness	Total	mg CaCO3/L	171			1

Approved by:

Mathieu Simoneau
Operations Manager

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Methodology and Notes

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**955085**
Report To:	J. Gibson & Associates	ID:	Silver Range Res.	Control Number:	B05980
	Box 20913	Name:		Date Received:	Aug 27, 2013
	Whitehorse, YT, Canada	Location:	Keg Project	Date Reported:	Sep 5, 2013
	Y1A 6P2	LSD:		Report Number:	1851944
Attn:	John Gibson	P.O.:			
Sampled By:	J. Gibson	Acct code:			
Company:					

Method of Analysis

Method Name	Reference		Method	Date Analysis Started	Location
Alk, pH, EC, Turb in water (Surrey)	APHA	*	Alkalinity - Titration Method, 2320 B	28-Aug-13	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	*	Conductivity, 2510 B	28-Aug-13	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	*	pH - Electrometric Method, 4500-H+ B	28-Aug-13	Exova Surrey
Ammonia-N in Water (Surrey)	APHA	*	Flow Injection Analysis, 4500-NH3 H	29-Aug-13	Exova Surrey
Anions by IEC in water (Surrey)	APHA	*	Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	28-Aug-13	Exova Surrey
Carbon Organic (Total) in water (TOC)	APHA		High-Temperature Combustion Method, 5310 B	29-Aug-13	Exova Edmonton
Cyanide (Total) in water	US EPA	*	US EPA method, 335.3	30-Aug-13	Exova Edmonton
Mercury Low Level (Total) in water (Surrey)	EPA	*	Mercury in Water by Cold Vapor Atomic Fluorescence Spectrometry, 245.7	30-Aug-13	Exova Surrey
Metals SemiTrace (Dissolved) in water (Surrey)	US EPA	*	Metals & Trace Elements by ICP-AES, 6010C	28-Aug-13	Exova Surrey
Metals SemiTrace (Total) in Water (Surrey)	US EPA	*	Metals & Trace Elements by ICP-AES, 6010C	29-Aug-13	Exova Surrey
Phosphorus - total by Smartchem (Surrey)	APHA	*	Preliminary Acid Hydrolysis, Ascorbic Acid Reduction Method, 4500-P B,E	28-Aug-13	Exova Surrey
Solids Dissolved (Total, Fixed and Volatile) - Surrey	APHA	*	Total Dissolved Solids Dried at 180 C, 2540 C	29-Aug-13	Exova Surrey
Solids Suspended (Total, Fixed and Volatile)	APHA	*	Total Suspended Solids Dried at 103-105'C, 2540 D	29-Aug-13	Exova Surrey
Trace Metals (dissolved) in Water (Surrey)	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	28-Aug-13	Exova Surrey
Trace Metals (dissolved) in Water (Surrey)	US EPA	*	Metals & Trace Elements by ICP-AES, 6010C	28-Aug-13	Exova Surrey
Trace Metals (Total) in Water (Surrey)	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	29-Aug-13	Exova Surrey
Trace Metals (Total) in Water (Surrey)	US EPA	*	Metals & Trace Elements by ICP-AES, 6010C	29-Aug-13	Exova Surrey

** Reference Method Modified*

References

APHA	Standard Methods for the Examination of Water and Wastewater
US EPA	US Environmental Protection Agency Test Methods

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Methodology and Notes

Bill To:	J. Gibson & Associates	Project:	
Report To:	J. Gibson & Associates	ID:	Silver Range Res.
	Box 20913	Name:	
	Whitehorse, YT, Canada	Location:	Keg Project
	Y1A 6P2	LSD:	
Attn:	John Gibson	P.O.:	
Sampled By:	J. Gibson	Acct code:	
Company:			

Lot ID:	**955085**
Control Number:	B05980
Date Received:	Aug 27, 2013
Date Reported:	Sep 5, 2013
Report Number:	1851944

Comments:

- Some total metal results were less than dissolved metal results for lot 955085. The results were verified and are within expected measurement uncertainty.
- pH analysis was performed past the recommended holding time of 15 minutes from sample collection.

Please direct any inquiries regarding this report to our Client Services group.
Results relate only to samples as submitted.
The test report shall not be reproduced except in full, without the written approval of the laboratory.

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Project Information

Project ID: SILVER RANGE RES.
Project Name:
Project Location: KEG PROJECT
Legal Location:
PO/AFE#:
Proj. Acct. Code:

Billing Information

Company: J. Gibson & Associates
Address:
Whitehorse, YT Y1A 6P2
Attention: John Gibson
Phone: (867) 633-4522
Cell:
Fax: (867) 668-6895
E-mail: ludditegibson@gmail.com
Agreement ID: 6646
Copy of report: X

Copy of Report To:

Company: J. Gibson & Associates
Address:
Whitehorse, YT Y1A 6P2
Attention: John Gibson
Phone: (867) 633-4522
Cell:
Fax: (867) 668-6895
E-mail: ludditegibson@gmail.com
Copy of invoice: X

RUSH Priority

Upon filling out this section, client accepts that surcharges will be applied to the analysis

Date Required
As Indicated | All Analysis

When "ASAP" is requested, turn around will default to a 100% RUSH priority, with pricing and turn around time to match. Please contact the lab prior to submitting RUSH samples.

Signature

Sample Custody (please print)

Sampled by: JR GIBSON
Company:
I authorize Exova to proceed with the work indicated on this form:
Date: Aug 26/13 Initial: JG

This section for Lab use only

Date/Time stamp:

Report Results: E-mail / Mail / Online / Fax / PDF / Excel / QA/QC Report

Special Instructions/Comments (please include contact information including ph. # if different from above).
RCHEM = pH, EC, TP, N_2, N_3, TALK, HARDT, SO4, CL, TSS, TDS
METALS + NITRIC, NH_4 + SULFURIC
TOC + HCL, TCN + NaOH

Include Regulatory Requirements Below:

Enter tests above (√ relevant samples below)

	Sample Identification	Location	Depth IN CM M	Date/Time sampled	Matrix	Sampling Method	Number of Containers	RCHEM	NH4	TOC	TCN	TW24ew+THg	TW23ew F.
1	KEG #1	SURF	—	AUG 25	H_2O	Grab	6	√	√	√	√	√	√
2		↓	↓	↓	↓	↓							
3	#2						6	√	√	√	√	√	√
4													
5	#3						6	√	√	√	√	√	√
6													
7	#4						6	√	√	√	√	√	√
8													
9	#5						6	√	√	√	√	√	√
10													
11	#6						6	√	√	√	√	√	√
12													
13	#9						6	√	√	√	√	√	√
14	KEG #1 DUPLICATE						2					√	√
15													

Indicate below any deficiencies in the condition of samples:

Were Exova supplies used?
Was there any damage to the shipping container?
Were the containers packaged well?
Were any extra samples received (document below)?
Are samples within recommended holding times/temp?

ED 120-00

Environmental Sample Information Sheet

Note: Proper completion of this form is required in order to proceed with analysis

Please indicate any potentially hazardous samples

Page 1 of 1 Control # B05980

Ir... affix lot label here:
LOT: 955085 COC

Shipping: COD Y/N
Cooler temp:

and size of coolers received:
Delivery Method:
Waybill:
Received by:

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V3S 8P8, Canada

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E: Surrey@exova.com
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Report Transmission Cover Page

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**960813**
Report To:	J. Gibson & Associates	ID:	Silver Range Res.	Control Number:	B05978
	Box 20913	Name:	Keg Project	Date Received:	Sep 24, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Sep 30, 2013
	Y1A 6P2	LSD:		Report Number:	1859247
Attn:	John Gibson	P.O.:			
Sampled By:	J. Gibson	Acct code:			
Company:					

Contact & Affiliation	Address	Delivery Commitments
John Gibson J. Gibson & Associates	, Box 20913 Whitehorse, Yukon Territory Y1A 6P2 Phone: (867) 633-4522 Fax: (867) 668-6895 Email: ludditegibson@gmail.com	On [Lot Verification] send (COA) by Email - Single Report On [Report Approval] send (COC, Test Report) by Email - Merge Reports On [Report Approval] send (Test Report) by Email - Single Report On [Lot Approval and Final Test Report Approval] send (Invoice) by Email - Single Report On [Lot Creation] send (COR) by Email - Single Report

Notes To Clients:

- Analysis was performed on samples 960813-1 to 14 that exceeded the recommended holding time for Total Phosphorus analysis.
- Some total metal results were less than dissolved metal results for lot 960813. The results were verified and are within expected measurement uncertainty.
- pH analysis was performed past the recommended holding time of 15 minutes from sample collection.

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J. Gibson
Company:

Project:
ID: Silver Range Res.
Name: Keg Project
Location:
LSD:
P.O.:
Acct code:

Lot ID: **960813**
Control Number: B05978
Date Received: Sep 24, 2013
Date Reported: Sep 30, 2013
Report Number: 1859247

			Reference Number	960813-1	960813-2	960813-3	
			Sample Date	Sep 21, 2013	Sep 21, 2013	Sep 21, 2013	
			Sample Time	NA	NA	NA	
			Sample Location	Surf.	Surf.	Surf.	
			Sample Description	Keg #1	Keg #2	Keg #3	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Inorganic Nonmetallic Parameters							
Organic Carbon	Total Nonpurgeable	mg/L		8.3	26.6	11.6	0.5
Cyanide	Total	mg/L		<0.002	0.002	<0.002	0.002
Ammonia - N		mg/L		<0.01	<0.01	0.01	.01
Phosphorus	Total	mg/L		0.027	<0.003	0.060	0.003
Metals Dissolved							
Sulfur	Dissolved	mg/L		13.4	2.6	2.4	0.2
Aluminum	Dissolved	mg/L		0.029	0.146	0.037	0.005
Antimony	Dissolved	mg/L		0.0002	0.0003	<0.0002	0.0002
Arsenic	Dissolved	mg/L		0.0014	0.0022	0.0009	0.0002
Barium	Dissolved	mg/L		0.053	0.025	0.042	0.001
Beryllium	Dissolved	mg/L		<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Dissolved	mg/L		<0.001	<0.001	<0.001	0.001
Boron	Dissolved	mg/L		0.007	<0.004	<0.004	0.004
Cadmium	Dissolved	mg/L		0.00006	0.00014	0.00001	0.00001
Chromium	Dissolved	mg/L		0.0005	0.0008	0.0005	0.0004
Cobalt	Dissolved	mg/L		0.00017	0.00009	0.00007	0.00002
Copper	Dissolved	mg/L		0.002	0.005	0.001	0.001
Lead	Dissolved	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Lithium	Dissolved	mg/L		0.004	<0.001	0.006	0.001
Molybdenum	Dissolved	mg/L		0.00134	0.00049	0.00076	0.0001
Nickel	Dissolved	mg/L		0.003	0.003	0.002	0.001
Selenium	Dissolved	mg/L		0.0009	<0.0006	<0.0006	0.0006
Silver	Dissolved	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Titanium	Dissolved	mg/L		<0.010	<0.010	<0.010	0.01
Strontium	Dissolved	mg/L		0.115	0.043	0.067	0.001
Tellurium	Dissolved	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Thallium	Dissolved	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Thorium	Dissolved	mg/L		<0.0004	<0.0004	<0.0004	0.0004
Tin	Dissolved	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Uranium	Dissolved	mg/L		0.0021	<0.0004	0.0018	0.0004
Vanadium	Dissolved	mg/L		0.00046	0.00059	0.00042	0.0001
Zinc	Dissolved	mg/L		0.005	0.011	0.002	0.001
Zirconium	Dissolved	mg/L		0.00029	0.00064	0.00026	0.0001
Metals Total							
Calcium	Total	mg/L		49.6	23.0	22.5	0.05
Iron	Total	mg/L		0.647	0.239	1.03	0.01

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J. Gibson
Company:

Project:
ID: Silver Range Res.
Name: Keg Project
Location:
LSD:
P.O.:
Acct code:

Lot ID: **960813**
Control Number: B05978
Date Received: Sep 24, 2013
Date Reported: Sep 30, 2013
Report Number: 1859247

			Reference Number	960813-1	960813-2	960813-3	
			Sample Date	Sep 21, 2013	Sep 21, 2013	Sep 21, 2013	
			Sample Time	NA	NA	NA	
			Sample Location	Surf.	Surf.	Surf.	
			Sample Description	Keg #1	Keg #2	Keg #3	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Total - Continued							
Magnesium	Total	mg/L		6.20	1.91	3.74	0.05
Manganese	Total	mg/L		0.0276	0.0079	0.0322	0.005
Potassium	Total	mg/L		2.23	0.39	1.03	0.1
Silicon	Total	mg/L		5.79	8.00	7.12	0.05
Sulfur	Total	mg/L		13.2	2.6	2.4	0.1
Sodium	Total	mg/L		2.71	1.18	2.27	0.02
Titanium	Total	mg/L		0.0136	0.0018	0.0163	0.001
Aluminum	Total	mg/L		0.086	0.158	0.811	0.005
Antimony	Total	mg/L		0.0003	0.0003	<0.0002	0.0002
Arsenic	Total	mg/L		0.0028	0.0024	0.0019	0.0002
Barium	Total	mg/L		0.068	0.026	0.073	0.001
Beryllium	Total	mg/L		<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Total	mg/L		<0.001	<0.001	<0.001	0.001
Boron	Total	mg/L		0.008	<0.005	<0.005	0.004
Cadmium	Total	mg/L		0.00009	0.00014	0.00010	0.00001
Chromium	Total	mg/L		0.0010	0.0005	0.0012	0.0004
Cobalt	Total	mg/L		0.00040	0.00008	0.00042	0.00002
Copper	Total	mg/L		0.003	0.006	0.003	0.001
Lead	Total	mg/L		0.0010	<0.0001	0.0009	0.0001
Lithium	Total	mg/L		0.005	0.001	0.008	0.001
Mercury	Total	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Molybdenum	Total	mg/L		0.0014	0.0006	0.0008	0.0001
Nickel	Total	mg/L		0.004	0.003	0.003	0.001
Selenium	Total	mg/L		0.0008	<0.0006	<0.0006	0.0006
Silver	Total	mg/L		0.00001	<0.00001	0.00002	0.00001
Strontium	Total	mg/L		0.119	0.043	0.072	0.001
Tellurium	Total	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Thallium	Total	mg/L		<0.00001	<0.00001	0.00002	0.00001
Thorium	Total	mg/L		<0.0004	<0.0004	<0.0004	0.0004
Tin	Total	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Uranium	Total	mg/L		0.0022	<0.0004	0.0022	0.0004
Vanadium	Total	mg/L		0.0016	0.0005	0.0027	0.0001
Zinc	Total	mg/L		0.010	0.011	0.009	0.001
Zirconium	Total	mg/L		0.0004	0.0007	0.0008	0.0001
Physical and Aggregate Properties							
Solids	Total Suspended	mg/L		19	<2	64	1

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J. Gibson
Company:

Project:
ID: Silver Range Res.
Name: Keg Project
Location:
LSD:
P.O.:
Acct code:

Lot ID: **960813**
Control Number: B05978
Date Received: Sep 24, 2013
Date Reported: Sep 30, 2013
Report Number: 1859247

			Reference Number	960813-1	960813-2	960813-3	
			Sample Date	Sep 21, 2013	Sep 21, 2013	Sep 21, 2013	
			Sample Time	NA	NA	NA	
			Sample Location	Surf.	Surf.	Surf.	
			Sample Description	Keg #1	Keg #2	Keg #3	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Physical and Aggregate Properties - Continued							
Solids	Total Dissolved	mg/L		184	114	88	5
Routine Water							
pH	at 25 °C			7.92	7.05	7.57	
Electrical Conductivity		µS/cm at 25 C		286	109	130	1
Calcium	Dissolved	mg/L		49.3	23.2	21.9	0.1
Iron	Dissolved	mg/L		0.090	<0.005	0.057	0.005
Magnesium	Dissolved	mg/L		5.94	1.91	3.49	0.1
Manganese	Dissolved	mg/L		0.012	0.006	0.005	0.001
Potassium	Dissolved	mg/L		2.0	0.4	0.9	0.1
Silicon	Dissolved	mg/L		5.19	7.59	5.94	0.05
Sodium	Dissolved	mg/L		2.5	1.2	2.1	0.1
Bicarbonate		mg/L		133	56	73	5
Carbonate		mg/L		<6	<6	<6	6
Hydroxide		mg/L		<5	<5	<5	5
P-Alkalinity	as CaCO3	mg/L		<5	<5	<5	5
T-Alkalinity	as CaCO3	mg/L		109	46	60	5
Chloride	Dissolved	mg/L		0.14	0.14	0.22	0.05
Nitrate - N	Dissolved	mg/L		0.02	<0.01	<0.01	0.01
Nitrite - N	Dissolved	mg/L		<0.01	<0.01	<0.01	0.01
Sulfate (SO4)	Dissolved	mg/L		40.5	7.1	6.9	0.5
Hardness	as CaCO3	mg/L		148	66	69	5
Hardness	Total	mg CaCO3/L		149	65.4	71.6	1

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Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J. Gibson
Company:

Project:
ID: Silver Range Res.
Name: Keg Project
Location:
LSD:
P.O.:
Acct code:

Lot ID: **960813**
Control Number: B05978
Date Received: Sep 24, 2013
Date Reported: Sep 30, 2013
Report Number: 1859247

			Reference Number	960813-4	960813-5	960813-6	
			Sample Date	Sep 21, 2013	Sep 21, 2013	Sep 21, 2013	
			Sample Time	NA	NA	NA	
			Sample Location	Surf.	Surf.	Surf.	
			Sample Description	Keg #4	Keg #4 Duplicate	Keg #5	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Dissolved							
Sulfur	Dissolved	mg/L		11.1	11.2	6.4	0.2
Aluminum	Dissolved	mg/L		0.014	0.015	0.158	0.005
Antimony	Dissolved	mg/L		<0.0002	<0.0002	0.0005	0.0002
Arsenic	Dissolved	mg/L		0.0014	0.0013	0.0028	0.0002
Barium	Dissolved	mg/L		0.055	0.054	0.025	0.001
Beryllium	Dissolved	mg/L		<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Dissolved	mg/L		<0.001	<0.001	<0.001	0.001
Boron	Dissolved	mg/L		0.006	0.006	0.01	0.004
Cadmium	Dissolved	mg/L		0.00004	0.00005	0.00013	0.00001
Chromium	Dissolved	mg/L		0.0007	0.0008	0.0007	0.0004
Cobalt	Dissolved	mg/L		0.00009	0.00010	0.00011	0.00002
Copper	Dissolved	mg/L		0.001	0.001	0.006	0.001
Lead	Dissolved	mg/L		<0.0001	<0.0001	0.0001	0.0001
Lithium	Dissolved	mg/L		0.004	0.004	<0.001	0.001
Molybdenum	Dissolved	mg/L		0.00137	0.00136	0.00153	0.0001
Nickel	Dissolved	mg/L		0.002	0.002	0.003	0.001
Selenium	Dissolved	mg/L		0.0006	<0.0006	<0.0006	0.0006
Silver	Dissolved	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Titanium	Dissolved	mg/L		<0.010	<0.010	<0.010	0.01
Strontium	Dissolved	mg/L		0.113	0.112	0.058	0.001
Tellurium	Dissolved	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Thallium	Dissolved	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Thorium	Dissolved	mg/L		<0.0004	<0.0004	<0.0004	0.0004
Tin	Dissolved	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Uranium	Dissolved	mg/L		0.0024	0.0024	<0.0004	0.0004
Vanadium	Dissolved	mg/L		0.00048	0.00047	0.00108	0.0001
Zinc	Dissolved	mg/L		0.002	0.002	0.004	0.001
Zirconium	Dissolved	mg/L		0.00014	0.00016	0.00068	0.0001
Metals Total							
Calcium	Total	mg/L		48.4	49.0	30.0	0.05
Iron	Total	mg/L		0.244	0.461	1.48	0.01
Magnesium	Total	mg/L		6.24	6.31	2.85	0.05
Manganese	Total	mg/L		0.0225	0.0229	0.0359	0.005
Potassium	Total	mg/L		2.20	2.26	0.60	0.1
Silicon	Total	mg/L		5.48	5.54	9.25	0.05
Sulfur	Total	mg/L		11.4	11.3	6.4	0.1

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Bill To: J. Gibson & Associates
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Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J. Gibson
Company:

Project:
ID: Silver Range Res.
Name: Keg Project
Location:
LSD:
P.O.:
Acct code:

Lot ID: **960813**
Control Number: B05978
Date Received: Sep 24, 2013
Date Reported: Sep 30, 2013
Report Number: 1859247

		Reference Number	960813-4	960813-5	960813-6	
		Sample Date	Sep 21, 2013	Sep 21, 2013	Sep 21, 2013	
		Sample Time	NA	NA	NA	
		Sample Location	Surf.	Surf.	Surf.	
		Sample Description	Keg #4	Keg #4 Duplicate	Keg #5	
		Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Total - Continued						
Sodium	Total	mg/L	2.72	2.80	1.44	0.02
Titanium	Total	mg/L	0.0035	0.0022	0.0196	0.001
Aluminum	Total	mg/L	0.097	0.104	1.11	0.005
Antimony	Total	mg/L	<0.0002	<0.0002	0.0006	0.0002
Arsenic	Total	mg/L	0.0015	0.0015	0.0046	0.0002
Barium	Total	mg/L	0.058	0.058	0.071	0.001
Beryllium	Total	mg/L	<0.00004	<0.00004	0.00006	0.00004
Bismuth	Total	mg/L	<0.001	<0.001	<0.001	0.001
Boron	Total	mg/L	0.008	0.007	0.012	0.004
Cadmium	Total	mg/L	0.00006	0.00006	0.00034	0.00001
Chromium	Total	mg/L	0.0005	0.0006	0.0019	0.0004
Cobalt	Total	mg/L	0.00015	0.00015	0.00072	0.00002
Copper	Total	mg/L	0.002	0.002	0.011	0.001
Lead	Total	mg/L	<0.0001	0.0001	0.0020	0.0001
Lithium	Total	mg/L	0.005	0.004	0.002	0.001
Mercury	Total	mg/L	<0.00001	<0.00001	0.00001	0.00001
Molybdenum	Total	mg/L	0.0015	0.0014	0.0016	0.0001
Nickel	Total	mg/L	0.002	0.002	0.006	0.001
Selenium	Total	mg/L	0.0007	<0.0006	0.0008	0.0006
Silver	Total	mg/L	<0.00001	<0.00001	0.00004	0.00001
Strontium	Total	mg/L	0.117	0.114	0.065	0.001
Tellurium	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium	Total	mg/L	<0.00001	<0.00001	0.00003	0.00001
Thorium	Total	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Uranium	Total	mg/L	0.0024	0.0024	<0.0004	0.0004
Vanadium	Total	mg/L	0.0007	0.0007	0.0048	0.0001
Zinc	Total	mg/L	0.003	0.004	0.022	0.001
Zirconium	Total	mg/L	0.0002	0.0002	0.0008	0.0001
Routine Water						
pH	at 25 °C		7.86		7.54	
Electrical Conductivity		µS/cm at 25 C	279		148	1
Calcium	Dissolved	mg/L	47.8	48.6	28.5	0.1
Iron	Dissolved	mg/L	0.098	0.090	0.190	0.005
Magnesium	Dissolved	mg/L	6.02	6.12	2.43	0.1
Manganese	Dissolved	mg/L	0.015	0.016	0.005	0.001

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J. Gibson
Company:

Project:
ID: Silver Range Res.
Name: Keg Project
Location:
LSD:
P.O.:
Acct code:

Lot ID: **960813**
Control Number: B05978
Date Received: Sep 24, 2013
Date Reported: Sep 30, 2013
Report Number: 1859247

		Reference Number	960813-4	960813-5	960813-6	
		Sample Date	Sep 21, 2013	Sep 21, 2013	Sep 21, 2013	
		Sample Time	NA	NA	NA	
		Sample Location	Surf.	Surf.	Surf.	
		Sample Description	Keg #4	Keg #4 Duplicate	Keg #5	
		Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Routine Water - Continued						
Potassium	Dissolved	mg/L	2.1	2.2	0.4	0.1
Silicon	Dissolved	mg/L	5.12	5.13	7.70	0.05
Sodium	Dissolved	mg/L	2.6	2.7	1.4	0.1
Bicarbonate		mg/L	136		62	5
Carbonate		mg/L	<6		<6	6
Hydroxide		mg/L	<5		<5	5
P-Alkalinity	as CaCO3	mg/L	<5		<5	5
T-Alkalinity	as CaCO3	mg/L	112		51	5
Chloride	Dissolved	mg/L	0.13		<0.05	0.05
Nitrate - N	Dissolved	mg/L	0.04		0.30	0.01
Nitrite - N	Dissolved	mg/L	<0.01		<0.01	0.01
Sulfate (SO4)	Dissolved	mg/L	34.2		19.7	0.5
Hardness	as CaCO3	mg/L	144	147	81	5
Hardness	Total	mg CaCO3/L	146		86.7	1

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**960813**
Report To:	J. Gibson & Associates	ID:	Silver Range Res.	Control Number:	B05978
	Box 20913	Name:	Keg Project	Date Received:	Sep 24, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Sep 30, 2013
	Y1A 6P2	LSD:		Report Number:	1859247
Attn:	John Gibson	P.O.:			
Sampled By:	J. Gibson	Acct code:			
Company:					

			Reference Number	960813-4	960813-6	960813-7	
			Sample Date	Sep 21, 2013	Sep 21, 2013	Sep 21, 2013	
			Sample Time	NA	NA	NA	
			Sample Location	Surf.	Surf.	Surf.	
			Sample Description	Keg #4	Keg #5	Keg #6	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Inorganic Nonmetallic Parameters							
Organic Carbon	Total Nonpurgeable	mg/L		8.2	23.8	9.2	0.5
Cyanide	Total	mg/L		<0.002	0.002	<0.002	0.002
Ammonia - N		mg/L		<0.01	<0.01	0.05	.01
Phosphorus	Total	mg/L		0.013	0.097	0.005	0.003
Physical and Aggregate Properties							
Solids	Total Suspended	mg/L		3	69	<2	1
Solids	Total Dissolved	mg/L		176	138	246	5

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J. Gibson
Company:

Project:
ID: Silver Range Res.
Name: Keg Project
Location:
LSD:
P.O.:
Acct code:

Lot ID: **960813**
Control Number: B05978
Date Received: Sep 24, 2013
Date Reported: Sep 30, 2013
Report Number: 1859247

			Reference Number	960813-7	960813-8	960813-9	
			Sample Date	Sep 21, 2013	Sep 21, 2013	Sep 22, 2013	
			Sample Time	NA	NA	NA	
			Sample Location	Surf.	Surf.	Surf.	
			Sample Description	Keg #6	Keg #7	Keg #8	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Dissolved							
Sulfur	Dissolved	mg/L		40.1	36.8	17.7	0.2
Aluminum	Dissolved	mg/L		0.294	0.038	0.015	0.005
Antimony	Dissolved	mg/L		0.0004	0.0008	0.0005	0.0002
Arsenic	Dissolved	mg/L		0.0014	0.0028	0.0012	0.0002
Barium	Dissolved	mg/L		0.055	0.038	0.041	0.001
Beryllium	Dissolved	mg/L		0.00009	<0.00004	<0.00004	0.00004
Bismuth	Dissolved	mg/L		<0.001	<0.001	<0.001	0.001
Boron	Dissolved	mg/L		<0.004	0.014	<0.004	0.004
Cadmium	Dissolved	mg/L		0.00015	0.00010	0.00002	0.00001
Chromium	Dissolved	mg/L		0.0004	0.0007	0.0007	0.0004
Cobalt	Dissolved	mg/L		0.00311	0.00017	0.00009	0.00002
Copper	Dissolved	mg/L		0.006	0.003	0.001	0.001
Lead	Dissolved	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Lithium	Dissolved	mg/L		0.007	<0.001	0.001	0.001
Molybdenum	Dissolved	mg/L		0.00010	0.00184	0.00114	0.0001
Nickel	Dissolved	mg/L		0.032	0.004	0.004	0.001
Selenium	Dissolved	mg/L		<0.0006	0.0022	0.0010	0.0006
Silver	Dissolved	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Titanium	Dissolved	mg/L		<0.010	<0.010	<0.010	0.01
Strontium	Dissolved	mg/L		0.086	0.195	0.176	0.001
Tellurium	Dissolved	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Thallium	Dissolved	mg/L		0.00003	<0.00001	<0.00001	0.00001
Thorium	Dissolved	mg/L		<0.0004	<0.0004	<0.0004	0.0004
Tin	Dissolved	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Uranium	Dissolved	mg/L		<0.0004	0.0015	0.0007	0.0004
Vanadium	Dissolved	mg/L		0.00028	0.00046	0.00032	0.0001
Zinc	Dissolved	mg/L		0.079	0.005	0.003	0.001
Zirconium	Dissolved	mg/L		0.00028	0.00035	0.00019	0.0001
Metals Total							
Calcium	Total	mg/L		54.8	76.1	56.5	0.05
Iron	Total	mg/L		4.72	0.699	0.080	0.01
Magnesium	Total	mg/L		5.07	8.63	4.97	0.05
Manganese	Total	mg/L		0.127	0.0463	0.0090	0.005
Potassium	Total	mg/L		1.37	2.05	1.23	0.1
Silicon	Total	mg/L		5.93	6.29	5.45	0.05
Sulfur	Total	mg/L		41.0	37.1	18.2	0.1

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J. Gibson
Company:

Project:
ID: Silver Range Res.
Name: Keg Project
Location:
LSD:
P.O.:
Acct code:

Lot ID: **960813**
Control Number: B05978
Date Received: Sep 24, 2013
Date Reported: Sep 30, 2013
Report Number: 1859247

			Reference Number	960813-7	960813-8	960813-9	
			Sample Date	Sep 21, 2013	Sep 21, 2013	Sep 22, 2013	
			Sample Time	NA	NA	NA	
			Sample Location	Surf.	Surf.	Surf.	
			Sample Description	Keg #6	Keg #7	Keg #8	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Total - Continued							
Sodium	Total	mg/L		1.58	2.65	1.98	0.02
Titanium	Total	mg/L		<0.0010	0.0048	<0.0010	0.001
Aluminum	Total	mg/L		0.371	0.225	0.034	0.005
Antimony	Total	mg/L		0.0005	0.0009	0.0005	0.0002
Arsenic	Total	mg/L		0.0017	0.0045	0.0012	0.0002
Barium	Total	mg/L		0.058	0.048	0.042	0.001
Beryllium	Total	mg/L		0.00011	<0.00004	<0.00004	0.00004
Bismuth	Total	mg/L		<0.001	<0.001	<0.001	0.001
Boron	Total	mg/L		<0.005	0.016	<0.005	0.004
Cadmium	Total	mg/L		0.00016	0.00018	0.00003	0.00001
Chromium	Total	mg/L		<0.0004	0.0006	0.0004	0.0004
Cobalt	Total	mg/L		0.00327	0.00029	0.00011	0.00002
Copper	Total	mg/L		0.007	0.004	0.001	0.001
Lead	Total	mg/L		<0.0001	0.0006	<0.0001	0.0001
Lithium	Total	mg/L		0.008	0.001	0.002	0.001
Mercury	Total	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Molybdenum	Total	mg/L		0.0001	0.0019	0.0012	0.0001
Nickel	Total	mg/L		0.034	0.004	0.002	0.001
Selenium	Total	mg/L		0.0008	0.0020	0.0011	0.0006
Silver	Total	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Strontium	Total	mg/L		0.090	0.202	0.182	0.001
Tellurium	Total	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Thallium	Total	mg/L		0.00002	0.00001	<0.00001	0.00001
Thorium	Total	mg/L		<0.0004	<0.0004	<0.0004	0.0004
Tin	Total	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Uranium	Total	mg/L		<0.0004	0.0015	0.0007	0.0004
Vanadium	Total	mg/L		0.0004	0.0013	0.0003	0.0001
Zinc	Total	mg/L		0.080	0.011	0.003	0.001
Zirconium	Total	mg/L		0.0004	0.0004	0.0002	0.0001
Routine Water							
pH	at 25 °C			6.47	7.62	7.67	
Electrical Conductivity		µS/cm at 25 C		324	427	308	1
Calcium	Dissolved	mg/L		54.2	77.0	56.6	0.1
Iron	Dissolved	mg/L		3.83	<0.005	0.050	0.005
Magnesium	Dissolved	mg/L		4.93	8.44	4.90	0.1
Manganese	Dissolved	mg/L		0.116	0.035	0.006	0.001

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J. Gibson
Company:

Project:
ID: Silver Range Res.
Name: Keg Project
Location:
LSD:
P.O.:
Acct code:

Lot ID: **960813**
Control Number: B05978
Date Received: Sep 24, 2013
Date Reported: Sep 30, 2013
Report Number: 1859247

		Reference Number	960813-7	960813-8	960813-9	
		Sample Date	Sep 21, 2013	Sep 21, 2013	Sep 22, 2013	
		Sample Time	NA	NA	NA	
		Sample Location	Surf.	Surf.	Surf.	
		Sample Description	Keg #6	Keg #7	Keg #8	
		Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Routine Water - Continued						
Potassium	Dissolved	mg/L	1.3	2.0	1.1	0.1
Silicon	Dissolved	mg/L	5.53	5.70	5.16	0.05
Sodium	Dissolved	mg/L	1.5	2.5	1.9	0.1
Bicarbonate		mg/L	34	130	126	5
Carbonate		mg/L	<6	<6	<6	6
Hydroxide		mg/L	<5	<5	<5	5
P-Alkalinity	as CaCO3	mg/L	<5	<5	<5	5
T-Alkalinity	as CaCO3	mg/L	28	106	104	5
Chloride	Dissolved	mg/L	0.16	0.11	0.12	0.05
Nitrate - N	Dissolved	mg/L	0.03	<0.01	<0.01	0.01
Nitrite - N	Dissolved	mg/L	<0.01	<0.01	<0.01	0.01
Sulfate (SO4)	Dissolved	mg/L	131	119	55.7	0.5
Hardness	as CaCO3	mg/L	156	227	162	5
Hardness	Total	mg CaCO3/L	158	226	162	1

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Analytical Report

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Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J. Gibson
Company:

Project:
ID: Silver Range Res.
Name: Keg Project
Location:
LSD:
P.O.:
Acct code:

Lot ID: **960813**
Control Number: B05978
Date Received: Sep 24, 2013
Date Reported: Sep 30, 2013
Report Number: 1859247

			Reference Number	960813-8	960813-9	960813-10	
			Sample Date	Sep 21, 2013	Sep 22, 2013	Sep 21, 2013	
			Sample Time	NA	NA	NA	
			Sample Location	Surf.	Surf.	Surf.	
			Sample Description	Keg #7	Keg #8	Keg #9	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Inorganic Nonmetallic Parameters							
Organic Carbon	Total Nonpurgeable	mg/L		13.5	9.6	8.7	0.5
Cyanide	Total	mg/L		<0.002	<0.002	<0.002	0.002
Ammonia - N		mg/L		0.01	<0.01	0.01	.01
Phosphorus	Total	mg/L		0.026	0.009	0.038	0.003
Physical and Aggregate Properties							
Solids	Total Suspended	mg/L		13	<2	20	1
Solids	Total Dissolved	mg/L		310	206	192	5

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Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J. Gibson
Company:

Project:
ID: Silver Range Res.
Name: Keg Project
Location:
LSD:
P.O.:
Acct code:

Lot ID: **960813**
Control Number: B05978
Date Received: Sep 24, 2013
Date Reported: Sep 30, 2013
Report Number: 1859247

		Reference Number	960813-10	960813-11	960813-12	
		Sample Date	Sep 21, 2013	Sep 21, 2013	Sep 21, 2013	
		Sample Time	NA	NA	NA	
		Sample Location	Surf.	Surf.	Surf.	
		Sample Description	Keg #9	Keg #10	Keg #11	
		Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Dissolved						
Sulfur	Dissolved	mg/L	15.4	25.7	42.4	0.2
Aluminum	Dissolved	mg/L	0.022	0.111	0.038	0.005
Antimony	Dissolved	mg/L	0.0002	0.0009	0.0004	0.0002
Arsenic	Dissolved	mg/L	0.0013	0.0016	0.0007	0.0002
Barium	Dissolved	mg/L	0.060	0.040	0.051	0.001
Beryllium	Dissolved	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Boron	Dissolved	mg/L	0.005	<0.004	<0.004	0.004
Cadmium	Dissolved	mg/L	0.00007	0.00012	0.00081	0.00001
Chromium	Dissolved	mg/L	0.0005	0.0006	0.0006	0.0004
Cobalt	Dissolved	mg/L	0.00013	0.00027	0.00037	0.00002
Copper	Dissolved	mg/L	0.001	0.003	0.001	0.001
Lead	Dissolved	mg/L	<0.0001	0.0003	<0.0001	0.0001
Lithium	Dissolved	mg/L	0.005	0.002	0.002	0.001
Molybdenum	Dissolved	mg/L	0.00120	0.00121	0.00116	0.0001
Nickel	Dissolved	mg/L	0.003	0.004	0.006	0.001
Selenium	Dissolved	mg/L	0.0006	<0.0006	0.0018	0.0006
Silver	Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Titanium	Dissolved	mg/L	<0.010	<0.010	<0.010	0.01
Strontium	Dissolved	mg/L	0.140	0.162	0.219	0.001
Tellurium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium	Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Thorium	Dissolved	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Uranium	Dissolved	mg/L	0.0020	0.0007	0.0021	0.0004
Vanadium	Dissolved	mg/L	0.00039	0.00079	0.00033	0.0001
Zinc	Dissolved	mg/L	0.004	0.010	0.022	0.001
Zirconium	Dissolved	mg/L	0.00016	0.00052	0.00014	0.0001
Metals Total						
Calcium	Total	mg/L	49.3	45.4	83.0	0.05
Iron	Total	mg/L	0.713	4.20	0.169	0.01
Magnesium	Total	mg/L	7.42	12.5	13.6	0.05
Manganese	Total	mg/L	0.0458	0.165	0.0111	0.005
Potassium	Total	mg/L	1.48	1.17	1.41	0.1
Silicon	Total	mg/L	5.73	8.68	4.27	0.05
Sulfur	Total	mg/L	15.9	26.4	42.3	0.1

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J. Gibson
Company:

Project:
ID: Silver Range Res.
Name: Keg Project
Location:
LSD:
P.O.:
Acct code:

Lot ID: **960813**
Control Number: B05978
Date Received: Sep 24, 2013
Date Reported: Sep 30, 2013
Report Number: 1859247

			Reference Number	960813-10	960813-11	960813-12	
			Sample Date	Sep 21, 2013	Sep 21, 2013	Sep 21, 2013	
			Sample Time	NA	NA	NA	
			Sample Location	Surf.	Surf.	Surf.	
			Sample Description	Keg #9	Keg #10	Keg #11	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Total - Continued							
Sodium	Total	mg/L		2.78	2.24	2.09	0.02
Titanium	Total	mg/L		0.0056	0.0393	<0.0010	0.001
Aluminum	Total	mg/L		0.208	2.78	0.131	0.005
Antimony	Total	mg/L		0.0003	0.0017	0.0004	0.0002
Arsenic	Total	mg/L		0.0021	0.0091	0.0009	0.0002
Barium	Total	mg/L		0.076	0.162	0.057	0.001
Beryllium	Total	mg/L		<0.00004	0.00015	<0.00004	0.00004
Bismuth	Total	mg/L		<0.001	<0.001	<0.001	0.001
Boron	Total	mg/L		<0.005	<0.005	<0.005	0.004
Cadmium	Total	mg/L		0.00014	0.00076	0.00091	0.00001
Chromium	Total	mg/L		0.0006	0.0042	<0.0004	0.0004
Cobalt	Total	mg/L		0.00032	0.00203	0.00048	0.00002
Copper	Total	mg/L		0.002	0.016	0.002	0.001
Lead	Total	mg/L		0.0005	0.0083	0.0002	0.0001
Lithium	Total	mg/L		0.006	0.006	0.002	0.001
Mercury	Total	mg/L		<0.00001	0.00002	<0.00001	0.00001
Molybdenum	Total	mg/L		0.0013	0.0016	0.0012	0.0001
Nickel	Total	mg/L		0.004	0.013	0.006	0.001
Selenium	Total	mg/L		<0.0006	0.0009	0.0020	0.0006
Silver	Total	mg/L		<0.00001	0.00016	<0.00001	0.00001
Strontium	Total	mg/L		0.146	0.186	0.230	0.001
Tellurium	Total	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Thallium	Total	mg/L		<0.00001	0.00007	<0.00001	0.00001
Thorium	Total	mg/L		<0.0004	<0.0004	<0.0004	0.0004
Tin	Total	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Uranium	Total	mg/L		0.0020	0.0012	0.0022	0.0004
Vanadium	Total	mg/L		0.0014	0.0127	0.0006	0.0001
Zinc	Total	mg/L		0.008	0.076	0.028	0.001
Zirconium	Total	mg/L		0.0002	0.0008	0.0002	0.0001
Routine Water							
pH	at 25 °C			7.72	7.59	7.88	
Electrical Conductivity		µS/cm at 25 C		297	289	487	1
Calcium	Dissolved	mg/L		48.8	43.9	83.6	0.1
Iron	Dissolved	mg/L		0.165	0.293	0.029	0.005
Magnesium	Dissolved	mg/L		7.21	11.0	13.2	0.1
Manganese	Dissolved	mg/L		0.028	0.048	0.006	0.001

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J. Gibson
Company:

Project:
ID: Silver Range Res.
Name: Keg Project
Location:
LSD:
P.O.:
Acct code:

Lot ID: **960813**
Control Number: B05978
Date Received: Sep 24, 2013
Date Reported: Sep 30, 2013
Report Number: 1859247

		Reference Number	960813-10	960813-11	960813-12	
		Sample Date	Sep 21, 2013	Sep 21, 2013	Sep 21, 2013	
		Sample Time	NA	NA	NA	
		Sample Location	Surf.	Surf.	Surf.	
		Sample Description	Keg #9	Keg #10	Keg #11	
		Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Routine Water - Continued						
Potassium	Dissolved	mg/L	1.4	0.8	1.3	0.1
Silicon	Dissolved	mg/L	5.04	5.44	4.07	0.05
Sodium	Dissolved	mg/L	2.6	2.0	2.1	0.1
Bicarbonate		mg/L	129	78	157	5
Carbonate		mg/L	<6	<6	<6	6
Hydroxide		mg/L	<5	<5	<5	5
P-Alkalinity	as CaCO3	mg/L	<5	<5	<5	5
T-Alkalinity	as CaCO3	mg/L	106	64	129	5
Chloride	Dissolved	mg/L	0.12	0.10	0.07	0.05
Nitrate - N	Dissolved	mg/L	0.02	<0.01	0.06	0.01
Nitrite - N	Dissolved	mg/L	<0.01	<0.01	<0.01	0.01
Sulfate (SO4)	Dissolved	mg/L	47.5	81.0	132	0.5
Hardness	as CaCO3	mg/L	152	155	263	5
Hardness	Total	mg CaCO3/L	154	165	263	1

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**960813**
Report To:	J. Gibson & Associates	ID:	Silver Range Res.	Control Number:	B05978
	Box 20913	Name:	Keg Project	Date Received:	Sep 24, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Sep 30, 2013
	Y1A 6P2	LSD:		Report Number:	1859247
Attn:	John Gibson	P.O.:			
Sampled By:	J. Gibson	Acct code:			
Company:					

			Reference Number	960813-11	960813-12	960813-13	
			Sample Date	Sep 21, 2013	Sep 21, 2013	Sep 22, 2013	
			Sample Time	NA	NA	NA	
			Sample Location	Surf.	Surf.	Surf.	
			Sample Description	Keg #10	Keg #11	Keg #12	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Inorganic Nonmetallic Parameters							
Organic Carbon	Total Nonpurgeable	mg/L		20.7	6.2	6.8	0.5
Cyanide	Total	mg/L		0.002	<0.002	<0.002	0.002
Ammonia - N		mg/L		0.01	0.02	0.01	.01
Phosphorus	Total	mg/L		0.258	0.008	0.01	0.003
Physical and Aggregate Properties							
Solids	Total Suspended	mg/L		180	6	3	1
Solids	Total Dissolved	mg/L		218	332	332	5

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J. Gibson
Company:

Project:
ID: Silver Range Res.
Name: Keg Project
Location:
LSD:
P.O.:
Acct code:

Lot ID: **960813**
Control Number: B05978
Date Received: Sep 24, 2013
Date Reported: Sep 30, 2013
Report Number: 1859247

		Reference Number	960813-13	960813-14		
		Sample Date	Sep 22, 2013	Sep 22, 2013		
		Sample Time	NA	NA		
		Sample Location	Surf.	Surf.		
		Sample Description	Keg #12	Keg #13		
		Matrix	Water	Water		
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Total						
Calcium	Total	mg/L	88.4	81.4		0.05
Iron	Total	mg/L	0.291	0.170		0.01
Magnesium	Total	mg/L	12.6	17.3		0.05
Manganese	Total	mg/L	0.0080	0.0167		0.005
Potassium	Total	mg/L	1.23	1.25		0.1
Silicon	Total	mg/L	3.88	3.74		0.05
Sulfur	Total	mg/L	41.6	47.7		0.1
Sodium	Total	mg/L	1.62	1.66		0.02
Titanium	Total	mg/L	<0.0010	<0.0010		0.001
Aluminum	Total	mg/L	0.082	0.210		0.005
Antimony	Total	mg/L	0.0004	0.0004		0.0002
Arsenic	Total	mg/L	0.0005	0.0010		0.0002
Barium	Total	mg/L	0.059	0.061		0.001
Beryllium	Total	mg/L	<0.00004	<0.00004		0.00004
Bismuth	Total	mg/L	<0.001	<0.001		0.001
Boron	Total	mg/L	<0.005	<0.005		0.004
Cadmium	Total	mg/L	0.00080	0.00258		0.00001
Chromium	Total	mg/L	0.0004	<0.0004		0.0004
Cobalt	Total	mg/L	0.00041	0.00150		0.00002
Copper	Total	mg/L	0.002	0.004		0.001
Lead	Total	mg/L	0.0001	0.0002		0.0001
Lithium	Total	mg/L	0.004	0.002		0.001
Mercury	Total	mg/L	<0.00001	<0.00001		0.00001
Molybdenum	Total	mg/L	0.0015	0.0009		0.0001
Nickel	Total	mg/L	0.008	0.011		0.001
Selenium	Total	mg/L	0.0024	0.0024		0.0006
Silver	Total	mg/L	<0.00001	<0.00001		0.00001
Strontium	Total	mg/L	0.283	0.221		0.001
Tellurium	Total	mg/L	<0.0001	<0.0001		0.0001
Thallium	Total	mg/L	<0.00001	<0.00001		0.00001
Thorium	Total	mg/L	<0.0004	<0.0004		0.0004
Tin	Total	mg/L	<0.0001	<0.0001		0.0001
Uranium	Total	mg/L	0.0021	0.0026		0.0004
Vanadium	Total	mg/L	0.0004	0.0004		0.0001
Zinc	Total	mg/L	0.048	0.084		0.001
Zirconium	Total	mg/L	0.0002	0.0002		0.0001

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J. Gibson
Company:

Project:
ID: Silver Range Res.
Name: Keg Project
Location:
LSD:
P.O.:
Acct code:

Lot ID: **960813**
Control Number: B05978
Date Received: Sep 24, 2013
Date Reported: Sep 30, 2013
Report Number: 1859247

			Reference Number	960813-13	960813-14	960813-15	
			Sample Date	Sep 22, 2013	Sep 22, 2013	Sep 22, 2013	
			Sample Time	NA	NA	NA	
			Sample Location	Surf.	Surf.	Surf.	
			Sample Description	Keg #12	Keg #13	Keg #13 Duplicate	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Dissolved							
Sulfur	Dissolved	mg/L		41.6	46.6	47.4	0.2
Aluminum	Dissolved	mg/L		0.022	0.078	0.073	0.005
Antimony	Dissolved	mg/L		0.0004	0.0004	0.0004	0.0002
Arsenic	Dissolved	mg/L		0.0005	0.0009	0.0007	0.0002
Barium	Dissolved	mg/L		0.055	0.058	0.058	0.001
Beryllium	Dissolved	mg/L		<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Dissolved	mg/L		<0.001	<0.001	<0.001	0.001
Boron	Dissolved	mg/L		<0.004	<0.004	<0.004	0.004
Cadmium	Dissolved	mg/L		0.00062	0.00242	0.00232	0.00001
Chromium	Dissolved	mg/L		0.0009	0.0008	0.0008	0.0004
Cobalt	Dissolved	mg/L		0.00034	0.00138	0.00138	0.00002
Copper	Dissolved	mg/L		0.001	0.001	0.001	0.001
Lead	Dissolved	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Lithium	Dissolved	mg/L		0.004	0.002	0.002	0.001
Molybdenum	Dissolved	mg/L		0.00144	0.00084	0.00084	0.0001
Nickel	Dissolved	mg/L		0.007	0.010	0.010	0.001
Selenium	Dissolved	mg/L		0.0024	0.0025	0.0024	0.0006
Silver	Dissolved	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Titanium	Dissolved	mg/L		<0.010	<0.010	<0.010	0.01
Strontium	Dissolved	mg/L		0.275	0.211	0.215	0.001
Tellurium	Dissolved	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Thallium	Dissolved	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Thorium	Dissolved	mg/L		<0.0004	<0.0004	<0.0004	0.0004
Tin	Dissolved	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Uranium	Dissolved	mg/L		0.0020	0.0025	0.0026	0.0004
Vanadium	Dissolved	mg/L		0.00040	0.00036	0.00035	0.0001
Zinc	Dissolved	mg/L		0.037	0.070	0.069	0.001
Zirconium	Dissolved	mg/L		0.00018	0.00013	0.00014	0.0001
Routine Water							
pH	at 25 °C			8.03	7.92		
Electrical Conductivity		µS/cm at 25 C		509	519		1
Calcium	Dissolved	mg/L		89.2	81.2	81.1	0.1
Iron	Dissolved	mg/L		0.074	0.049	0.044	0.005
Magnesium	Dissolved	mg/L		12.3	16.7	16.8	0.1
Manganese	Dissolved	mg/L		0.006	0.012	0.012	0.001
Potassium	Dissolved	mg/L		1.3	1.2	1.2	0.1

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**960813**
Report To:	J. Gibson & Associates	ID:	Silver Range Res.	Control Number:	B05978
	Box 20913	Name:	Keg Project	Date Received:	Sep 24, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Sep 30, 2013
	Y1A 6P2	LSD:		Report Number:	1859247
Attn:	John Gibson	P.O.:			
Sampled By:	J. Gibson	Acct code:			
Company:					

		Reference Number	960813-13	960813-14	960813-15	
		Sample Date	Sep 22, 2013	Sep 22, 2013	Sep 22, 2013	
		Sample Time	NA	NA	NA	
		Sample Location	Surf.	Surf.	Surf.	
		Sample Description	Keg #12	Keg #13	Keg #13 Duplicate	
		Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Routine Water - Continued						
Silicon	Dissolved	mg/L	3.73	3.50	3.55	0.05
Sodium	Dissolved	mg/L	1.6	1.6	1.7	0.1
Bicarbonate		mg/L	174	151		5
Carbonate		mg/L	<6	<6		6
Hydroxide		mg/L	<5	<5		5
P-Alkalinity	as CaCO3	mg/L	<5	<5		5
T-Alkalinity	as CaCO3	mg/L	142	124		5
Chloride	Dissolved	mg/L	0.06	0.14		0.05
Nitrate - N	Dissolved	mg/L	0.20	0.13		0.01
Nitrite - N	Dissolved	mg/L	<0.01	<0.01		0.01
Sulfate (SO4)	Dissolved	mg/L	127	146		0.5
Hardness	as CaCO3	mg/L	274	272	272	5
Hardness	Total	mg CaCO3/L	273	274		1

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Bill To:	J. Gibson & Associates	Project:		Lot ID:	**960813**
Report To:	J. Gibson & Associates	ID:	Silver Range Res.	Control Number:	B05978
	Box 20913	Name:	Keg Project	Date Received:	Sep 24, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Sep 30, 2013
	Y1A 6P2	LSD:		Report Number:	1859247
Attn:	John Gibson	P.O.:			
Sampled By:	J. Gibson	Acct code:			
Company:					

Reference Number	960813-14
Sample Date	Sep 22, 2013
Sample Time	NA
Sample Location	Surf.
Sample Description	Keg #13
Matrix	Water

Analyte		Units	Results	Results	Results	Nominal Detection Limit
Inorganic Nonmetallic Parameters						
Organic Carbon	Total Nonpurgeable	mg/L	3.9			0.5
Cyanide	Total	mg/L	<0.002			0.002
Ammonia - N		mg/L	0.01			.01
Phosphorus	Total	mg/L	0.006			0.003
Physical and Aggregate Properties						
Solids	Total Suspended	mg/L	4			1
Solids	Total Dissolved	mg/L	348			5

Approved by:

Anthony Neumann, MSc
Laboratory Operations Manager

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Methodology and Notes

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**960813**
Report To:	J. Gibson & Associates	ID:	Silver Range Res.	Control Number:	B05978
	Box 20913	Name:	Keg Project	Date Received:	Sep 24, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Sep 30, 2013
	Y1A 6P2	LSD:		Report Number:	1859247
Attn:	John Gibson	P.O.:			
Sampled By:	J. Gibson	Acct code:			
Company:					

Method of Analysis

Method Name	Reference	Method	Date Analysis Started	Location
Alk, pH, EC, Turb in water (Surrey)	APHA	* Alkalinity - Titration Method, 2320 B	25-Sep-13	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	* Conductivity, 2510 B	25-Sep-13	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	* pH - Electrometric Method, 4500-H+ B	25-Sep-13	Exova Surrey
Ammonia-N in Water (Surrey)	APHA	* Flow Injection Analysis, 4500-NH3 H	26-Sep-13	Exova Surrey
Anions by IEC in water (Surrey)	APHA	* Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	25-Sep-13	Exova Surrey
Carbon Organic (Total) in water (TOC)	APHA	High-Temperature Combustion Method, 5310 B	26-Sep-13	Exova Edmonton
Cyanide (Total) in water	US EPA	* US EPA method, 335.3	30-Sep-13	Exova Edmonton
Mercury Low Level (Total) in water (Surrey)	EPA	* Mercury in Water by Cold Vapor Atomic Fluorescence Spectrometry, 245.7	27-Sep-13	Exova Surrey
Metals SemiTrace (Dissolved) in water (Surrey)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	26-Sep-13	Exova Surrey
Metals SemiTrace (Total) in Water (Surrey)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	26-Sep-13	Exova Surrey
Phosphorus - total by Smartchem (Surrey)	APHA	* Preliminary Acid Hydrolysis, Ascorbic Acid Reduction Method, 4500-P B,E	26-Sep-13	Exova Surrey
Solids Dissolved (Total, Fixed and Volatile) - Surrey	APHA	* Total Dissolved Solids Dried at 180 C, 2540 C	26-Sep-13	Exova Surrey
Solids Suspended (Total, Fixed and Volatile)	APHA	* Total Suspended Solids Dried at 103-105'C, 2540 D	26-Sep-13	Exova Surrey
Trace Metals (dissolved) in Water (Surrey)	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	26-Sep-13	Exova Surrey
Trace Metals (dissolved) in Water (Surrey)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	26-Sep-13	Exova Surrey
Trace Metals (Total) in Water (Surrey)	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	26-Sep-13	Exova Surrey
Trace Metals (Total) in Water (Surrey)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	26-Sep-13	Exova Surrey

** Reference Method Modified*

References

APHA	Standard Methods for the Examination of Water and Wastewater
US EPA	US Environmental Protection Agency Test Methods

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Methodology and Notes

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**960813**
Report To:	J. Gibson & Associates	ID:	Silver Range Res.	Control Number:	B05978
	Box 20913	Name:	Keg Project	Date Received:	Sep 24, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Sep 30, 2013
	Y1A 6P2	LSD:		Report Number:	1859247
Attn:	John Gibson	P.O.:			
Sampled By:	J. Gibson	Acct code:			
Company:					

Comments:

- Analysis was performed on samples 960813-1 to 14 that exceeded the recommended holding time for Total Phosphorus analysis.
- Some total metal results were less than dissolved metal results for lot 960813. The results were verified and are within expected measurement uncertainty.
- pH analysis was performed past the recommended holding time of 15 minutes from sample collection.

Please direct any inquiries regarding this report to our Client Services group.
Results relate only to samples as submitted.
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Project Information
Project ID: SILVER RANGE RES.
Project Name: KEG PROJECT
Project Location:
Legal Location:
PO/AFE#:
Proj. Acct. Code:

Billing Information
Company: J. Gibson & Associates
Address:
Whitehorse, YT Y1A 6P2
Attention: John Gibson
Phone: (867) 633-4522
Cell:
Fax: (867) 668-6895
E-mail: ludditegibson@gmail.com
Agreement ID: 6646
Copy of report: X

Copy of Report To:
Company: J. Gibson & Associates
Address:
Whitehorse, YT Y1A 6P2
Attention: John Gibson
Phone: (867) 633-4522
Cell:
Fax: (867) 668-6895
E-mail: ludditegibson@gmail.com
Copy of invoice: X

RUSH Priority
Upon filling out this section, client accepts that surcharges will be applied to the analysis
Date Required
As Indicated | All Analysis
When "ASAP" is requested, turn around will default to a 100% RUSH priority, with pricing and turn around time to match. Please contact the lab prior to submitting RUSH samples.
Signature

Sample Custody (please print)
Sampled by: J GIBSON
Company: —
I authorize Exova to proceed with the work indicated on this form:
Date: Sept 23/13 Initial: JG.

This section for Lab use only
Date/Time stamp: 13-09-24-13P05:17 RCVD

Report Results
E-mail / Mail / Online / Fax / PDF / Excel / QA/QC Report

Special Instructions/Comments (please include contact information including ph. # if different from above).
RCHEM = pH, EC, TP, N_2, N_3, TALK, Cl, SO_4, Hard T, TSS, TDS.
TW23 (F), METALS+ NITRIC, NH_4 + SULFURIC, TOC+ HCL

Include Regulatory Requirements Below:

Sample Identification	Location	Depth IN CM M	Date/Time sampled	Matrix	Sampling Method	↓ Number of Containers	Enter tests above (√ relevant samples below): RCHEM	NH_4	TOC	TW23 ew F	TW24 ew+THg	Tan.
1 KEG #1	SURF		Sept 21	H2O	GRAB	6	√	√	√		√	√
2 #2	↓			↓	↓	6	√	√	√		√	√
3 #3						6	√	√	√		√	√
4 #4						6	√	√	√		√	√
5 KEG #4 DUPLICATE						2					√	√
6 #5						6	√	√	√		√	√
7 #6						6	√	√	√		√	√
8 #7						1	√	√	√		√	√
9 #8			SEPT 22			6	√	√	√		√	√
10 #9			SEPT 21			6	√	√	√		√	√
11 #10			↓			6	√	√	√		√	√
12 #11						6	√	√	√		√	√
13 #12			SEPT 22			6	√	√	√		√	√
14 #13			↓			1					√	
15 KEG #13 DUPLICATE												

Indicate below any deficiencies in the condition of samples:
- Were Exova supplies used?
- Was there any damage to the shipping container?
- Were the containers packaged well?
- Were any extra samples received (document below)?
- Are samples within recommended holding times/temp?

Environmental Sample Information Sheet
Note: Proper completion of this form is required in order to proceed with analysis
Please indicate any potentially hazardous samples

Indicate lot number or affix lot label here:
13-09-24-13P05:18 RCVD
LOT: 960813 COC

Shipping: COD Y/N
Cooler temp: 3.3

and size of coolers received:
Delivery Method:
Waybill:
Received by:

Page 1 of 1 Control # B05978

ED 120-00

APPENDIX 2

Flow Volume Calculations

August and September 2013

Stage Discharge Calculations

Project: **Silver Range - Keg Claims** **Date:** **25-Aug-13**

Site: **Keg #1**

Point (m)	Depth (meters)	Width (meters)	Velocity (m/sec)	Area (m sq)	Volume (cms)
2.57	0	0.115	0	0	0.0000
2.8	0.21	0.215	0.444	0.04515	0.0200
3	0.25	0.2	0.318	0.05	0.0159
3.2	0.24	0.2	0.705	0.048	0.0338
3.4	0.38	0.2	0.901	0.076	0.0685
3.6	0.31	0.2	0.989	0.062	0.0613
3.8	0.36	0.2	0.989	0.072	0.0712
4	0.34	0.2	1.174	0.068	0.0798
4.2	0.38	0.2	1.06	0.076	0.0806
4.4	0.37	0.2	1.174	0.074	0.0869
4.6	0.38	0.2	1.227	0.076	0.0933
4.8	0.44	0.2	1.174	0.088	0.1033
5	0.5	0.2	1.2	0.1	0.1200
5.2	0.52	0.2	1.013	0.1040	0.1054
5.4	0.51	0.2	1.06	0.102	0.1081
5.6	0.5	0.2	1.081	0.1	0.1081
5.8	0.48	0.2	0.882	0.096	0.0847
6	0.46	0.2	1.06	0.092	0.0975
6.2	0.38	0.24	1.103	0.0912	0.1006
6.48	0	0.14	0	0	0.0000
3.91		**3.91**			**1.439**

All velocity readings at 0.6 depth

Staff Gauge 0.254 m @ 1410 hrs / 0.252 m @ 1440 hrs

Data logger reading: OP check OK at 1400 hrs
Level survey done
Channel under ice? channel Ice free

Method: Price Velocity meter#2/ TS Wading Rod

Measurement By: J.Gibson

Stage Discharge Calculations

Project: **Silver Range - Keg Claims** **Date:** **25-Aug-13**

Site: **Keg #3**

Point (m)	Depth (meters)	Width (meters)	Velocity (m/sec)	Area (m sq)	Volume (cms)
0.47	0	0.115	0	0	0.0000
0.7	0.2	0.265	0.132	0.053	0.0070
1	0.29	0.3	0.359	0.087	0.0312
1.3	0.36	0.3	0.513	0.108	0.0554
1.6	0.35	0.3	0.603	0.105	0.0633
1.9	0.43	0.25	0.769	0.1075	0.0827
2.1	0.45	0.2	0.922	0.09	0.0830
2.3	0.46	0.2	0.901	0.092	0.0829
2.5	0.39	0.2	0.825	0.078	0.0644
2.7	0.41	0.2	0.901	0.082	0.0739
2.9	0.39	0.2	0.805	0.078	0.0628
3.1	0.45	0.2	0.705	0.09	0.0635
3.3	0.42	0.25	0.543	0.105	0.0570
3.6	0.4	0.3	0.453	0.12	0.0544
3.9	0.34	0.3	0.341	0.102	0.0348
4.2	0.24	0.33	0.285	0.0792	0.0226
4.56	0	0.18	0	0	0.0000
4.09		**4.09**			**0.8387**

All velocity readings at 0.6 depth

no Staff Gauge

Data logger reading: no logger

Channel under ice? channel Ice free

Method: Price Velocity meter#2/ TS Wading Rod

Measurement By: J.Gibson

Stage Discharge Calculations

Project: **Silver Range - Keg Claims** **Date:** **25-Aug-13**

Site: **Keg #5**

Point (m)	Depth (meters)	Width (meters)	Velocity (m/sec)	Area (m sq)	Volume (cms)
1.02	0	0.04	0	0	0.0000
1.1	0.12	0.09	0.661	0.0108	0.0071
1.2	0.16	0.1	0.677	0.016	0.0108
1.3	0.13	0.1	0.474	0.013	0.0062
1.4	0.15	0.1	0.677	0.015	0.0102
1.5	0.14	0.1	0.705	0.014	0.0099
1.6	0.11	0.1	1.2	0.011	0.0132
1.7	0.1	0.1	0.989	0.01	0.0099
1.8	0.1	0.1	0.577	0.01	0.0058
1.9	0.06	0.1	0.631	0.006	0.0038
2	0.11	0.11	0.235	0.0121	0.0028
2.12	0	0.06	0	0	0.0000
1.1		1.1			**0.0796**

All velocity readings at 0.6 depth

no Staff Gauge

Data logger reading: no logger

Channel under ice? channel Ice free

Method: Price Velocity meter#2/ TS Wading Rod

Measurement By: J.Gibson

Stage Discharge Calculations

Project: **Silver Range - Keg Claims** **Date:** **25-Aug-13**

Site: **Keg #6**

Point (m)	Depth (meters)	Width (meters)	Velocity (m/sec)	Area (m sq)	Volume (cms)
0.72	0	0.065	0	0	0.0000
0.85	0.07	0.115	0.311	0.00805	0.0025
0.95	0.08	0.1	0.318	0.008	0.0025
1.05	0.08	0.1	0.341	0.008	0.0027
1.15	0.07	0.1	0.365	0.007	0.0026
1.25	0.08	0.1	0.379	0.008	0.0030
1.35	0.11	0.1	0.372	0.011	0.0041
1.45	0.09	0.1	0.444	0.009	0.0040
1.55	0.08	0.1	0.245	0.008	0.0020
1.65	0.08	0.1	0.291	0.008	0.0023
1.75	0.06	0.15	0.203	0.009	0.0018
1.95	0.05	0.185	0.14	0.00925	0.0013
2.12	0	0.085	0	0	0.0000
1.4		1.4			**0.0289**

All velocity readings at 0.6 depth

no Staff Gauge

Data logger reading: no logger

Channel under ice? channel Ice free

Method: Price Velocity meter #2/ TS Wading Rod

Measurement By: J.Gibson

Stage Discharge Calculations

Project: **Silver Range - Keg Claims** **Date:** **25-Aug-13**

Site: **Keg #11**

Point (m)	Depth (meters)	Width (meters)	Velocity (m/sec)	Area (m sq)	Volume (cms)
1.01	0	0.095	0	0	0.0000
1.2	0.17	0.245	0.065	0.042	0.0027
1.5	0.23	0.3	0.359	0.069	0.0248
1.8	0.28	0.3	0.565	0.084	0.0475
2.1	0.29	0.3	0.845	0.087	0.0735
2.4	0.32	0.3	0.922	0.096	0.0885
2.7	0.3	0.3	0.825	0.09	0.0743
3	0.31	0.3	0.845	0.093	0.0786
3.3	0.33	0.3	0.901	0.099	0.0892
3.6	0.32	0.3	0.922	0.096	0.0885
3.9	0.32	0.3	0.965	0.096	0.0926
4.2	0.3	0.3	0.922	0.09	0.0830
4.5	0.28	0.3	0.825	0.084	0.0693
4.8	0.26	0.3	0.769	0.078	0.0600
5.1	0.25	0.3	0.825	0.075	0.0619
5.4	0.3	0.3	0.645	0.09	0.0581
5.7	0.26	0.255	0.485	0.066	0.0322
5.91	0	0.105	0	0	0.0000
4.9		**4.9**			**1.0245**

All velocity readings at 0.6 depth

Staff Gauge = 0.152 m at 1716 hrs / 0.151 m @ 1754 hrs

Data logger reading: OP check OK at 1720hrs
Level survey done

Channel under ice? channel Ice free

Method: Price Velocity meter#2/ TS Wading Rod

Measurement By: J.Gibson

Stage Discharge Calculations

Project: **Silver Range - Keg Claims** **Date:** **21 Sept, 2013**

Site: **Keg #1**

Point (m)	Depth (meters)	Width (meters)	Velocity (m/sec)	Area (m sq)	Volume (cms)
1.5	0	0.1	0	0	0.0000
1.7	0.32	0.2	1.07	0.064	0.0685
1.9	0.42	0.2	1.234	0.084	0.1037
2.1	0.44	0.2	1.205	0.088	0.1060
2.3	0.44	0.2	1.205	0.088	0.1060
2.5	0.42	0.2	1.177	0.084	0.0989
2.7	0.38	0.2	1.097	0.076	0.0834
2.9	0.4	0.2	1.181	0.08	0.0945
3.1	0.36	0.2	1.181	0.072	0.0850
3.3	0.3	0.2	1.181	0.06	0.0709
3.5	0.33	0.2	0.787	0.066	0.0519
3.7	0.33	0.2	1.013	0.066	0.0669
3.9	0.29	0.2	0.944	0.058	0.0548
4.1	0.32	0.2	1.045	0.1	0.0669
4.3	0.29	0.2	0.906	0.058	0.0525
4.5	0.26	0.2	0.787	0.052	0.0409
4.7	0.22	0.25	0.708	0.055	0.0389
5	0.18	0.3	0.59	0.054	0.0319
5.3	0.17	0.225	0.291	0.03825	0.0111
5.45	0	0.075	0	0	0.0000
3.95		**3.95**			**1.233**

All velocity readings at 0.6 depth

Staff Gauge 0.224 m @ 1416 hrs

Data logger reading: Logger pulled
Level survey done

Channel under ice? channel Ice free

Method: Price Velocity meter #2/ TS Wading Rod

Measurement By: G.Ford

Stage Discharge Calculations

Project: **Silver Range - Keg Claims** **Date:** **21-Sep-13**

Site: **Keg #6**

Point (m)	Depth (meters)	Width (meters)	Velocity (m/sec)	Area (m sq)	Volume (cms)
1.54	0	0.03	0	0	0
1.6	0.02	0.08	0	0.0016	0.0000
1.7	0.1	0.1	0.029	0.01	0.0003
1.8	0.1	0.1	0.198	0.01	0.0020
1.9	0.09	0.1	0.156	0.009	0.0014
2	0.1	0.1	0.298	0.01	0.0030
2.1	0.08	0.1	0.425	0.008	0.0034
2.2	0.08	0.1	0.485	0.008	0.0039
2.3	0.09	0.1	0.474	0.009	0.0043
2.4	0.08	0.1	0.333	0.008	0.0027
2.5	0.07	0.1	0.341	0.007	0.0024
2.6	0.08	0.11	0.409	0.0088	0.0036
2.72	0	0.06	0	0	0.0000
1.18		1.18			**0.0269**

All velocity readings at 0.6 depth

no Staff Gauge

Data logger reading: no logger

Channel under ice? channel Ice free

Method: Price Velocity meter #2/ TS Wading Rod

Measurement By: J.Gibson

Stage Discharge Calculations

Project: **Silver Range - Keg Claims** **Date:** **21-Sep-13**

Site: **Keg #7**

Point (m)	Depth (meters)	Width (meters)	Velocity (m/sec)	Area (m sq)	Volume (cms)
0.78	0	0.06	0	0	0
0.9	0.14	0.11	0.101	0.0154	0.0016
1	0.16	0.1	0.245	0.016	0.0039
1.1	0.17	0.1	0.386	0.017	0.0066
1.2	0.19	0.1	0.425	0.019	0.0081
1.3	0.23	0.1	0.464	0.023	0.0107
1.4	0.26	0.1	0.474	0.026	0.0123
1.5	0.28	0.1	0.497	0.028	0.0139
1.6	0.32	0.1	0.444	0.032	0.0142
1.7	0.36	0.11	0.386	0.0396	0.0153
1.82	0	0.06	0	0	0.0000
1.04		**1.04**			**0.0865**

All velocity readings at 0.6 depth

no Staff Gauge

Data logger reading: no logger

Channel under ice? channel Ice free

Method: Price Velocity meter #2/ TS Wading Rod

Measurement By: J.Gibson

Stage Discharge Calculations

Project: **Silver Range - Keg Claims** **Date:** **22 Sept, 2013**

Site: **Keg #8**

Point (m)	Depth (meters)	Width (meters)	Velocity (m/sec)	Area (m sq)	Volume (cms)
0.86	0	0.07	0	0	0
1	0.45	0.12	0.28	0.054	0.0151
1.1	0.41	0.1	0.365	0.041	0.0150
1.2	0.39	0.1	0.304	0.039	0.0119
1.3	0.37	0.1	0.401	0.037	0.0148
1.4	0.34	0.1	0.444	0.034	0.0151
1.5	0.36	0.1	0.434	0.036	0.0156
1.6	0.38	0.11	0.409	0.0418	0.0171
1.72	0	0.06	0	0	0.0000
0.86		0.86			**0.1046**

All velocity readings at 0.6 depth

no Staff Gauge

Data logger reading: no logger

Channel under ice? channel Ice free

Method: Price Velocity meter #2/ TS Wading Rod

Measurement By: J.Gibson

Stage Discharge Calculations

Project: **Silver Range - Keg Claims** **Date:** **21-Sep-13**

Site: **Keg #10**

Point (m)	Depth (meters)	Width (meters)	Velocity (m/sec)	Area (m sq)	Volume (cms)
0.74	0	0.13	0	0	0
1	0.18	0.28	0.165	0.0504	0.0083
1.3	0.24	0.3	0.325	0.072	0.0234
1.6	0.23	0.3	0.603	0.069	0.0416
1.9	0.25	0.3	0.661	0.075	0.0496
2.2	0.25	0.3	0.691	0.075	0.0518
2.5	0.26	0.3	0.677	0.078	0.0528
2.8	0.29	0.25	0.769	0.073	0.0558
3	0.28	0.2	0.863	0.056	0.0483
3.2	0.32	0.2	0.901	0.064	0.0577
3.4	0.34	0.2	0.965	0.068	0.0656
3.6	0.37	0.2	0.901	0.074	0.0667
3.8	0.32	0.2	0.736	0.064	0.0471
4	0.31	0.2	0.434	0.062	0.0269
4.2	0.31	0.205	0.509	0.064	0.0323
4.41	0	0.105	0	0	0.0000
3.67		3.67			**0.6279**

All velocity readings at 0.6 depth

no Staff Gauge

Data logger reading: no logger

Channel under ice? channel Ice free

Method: Price Velocity meter #2/ TS Wading Rod

Measurement By: J.Gibson

Stage Discharge Calculations

Project: **Silver Range - Keg Claims** **Date:** **21-Sep-13**

Site: **Keg #11**

Point (m)	Depth (meters)	Width (meters)	Velocity (m/sec)	Area (m sq)	Volume (cms)
1.43	0	0.135	0	0	0
1.7	0.13	0.285	0.036	0.03705	0.0013
2	0.22	0.3	0.453	0.066	0.0299
2.3	0.23	0.3	0.386	0.069	0.0266
2.6	0.25	0.3	0.691	0.075	0.0518
2.9	0.21	0.3	0.805	0.063	0.0507
3.2	0.24	0.3	0.645	0.072	0.0464
3.5	0.19	0.3	0.752	0.057	0.0429
3.8	0.26	0.3	0.769	0.078	0.0600
4.1	0.28	0.3	0.616	0.084	0.0517
4.4	0.26	0.3	0.72	0.078	0.0562
4.7	0.24	0.3	0.677	0.072	0.0487
5	0.22	0.3	0.645	0.066	0.0426
5.3	0.22	0.3	0.577	0.066	0.0381
5.6	0.21	0.3	0.603	0.063	0.0380
5.9	0.21	0.3	0.565	0.063	0.0356
6.2	0.2	0.255	0.474	0.051	0.0242
6.41	0	0.105	0	0	0.0000
4.98		**4.98**			**0.6447**

All velocity readings at 0.6 depth

Staff Gauge = 0.113 m at 1512 hrs

Data logger reading: Logger pulled
Level survey done

Channel under ice? channel Ice free

Method: Price Velocity meter #2/ TS Wading Rod

Measurement By: J.Gibson

Stage Discharge Calculations

Project: **Silver Range - Keg Claims** **Date:** **22 Sept, 2013**

Site: **Keg #12**

Point (m)	Depth (meters)	Width (meters)	Velocity (m/sec)	Area (m sq)	Volume (cms)
1.11	0	0.045	0	0	0
1.2	0.13	0.145	0.182	0.01885	0.0034
1.4	0.19	0.2	0.251	0.038	0.0095
1.6	0.22	0.2	0.474	0.044	0.0209
1.8	0.24	0.2	0.444	0.048	0.0213
2	0.23	0.2	0.365	0.046	0.0168
2.2	0.24	0.175	0.509	0.042	0.0214
2.35	0.29	0.15	0.603	0.0435	0.0262
2.5	0.28	0.15	0.769	0.042	0.0323
2.65	0.26	0.15	0.661	0.039	0.0258
2.8	0.25	0.15	0.677	0.0375	0.0254
2.95	0.25	0.15	0.497	0.0375	0.0186
3.1	0.23	0.175	0.554	0.04025	0.0223
3.3	0.18	0.145	0.485	0.0261	0.0127
3.39	0	0.045	0	0	0.0000
2.28		2.28			**0.2566**

All velocity readings at 0.6 depth

no Staff Gauge

Data logger reading: no logger

Channel under ice? channel Ice free

Method: Price Velocity meter #2/ TS Wading Rod

Measurement By: J.Gibson

Stage Discharge Calculations

Project: **Silver Range - Keg Claims** **Date:** **22 Sept, 2013**

Site: **Keg #13**

Point (m)	Depth (meters)	Width (meters)	Velocity (m/sec)	Area (m sq)	Volume (cms)
1.24	0	0.18	0	0	0
1.6	0.3	0.33	0.103	0.099	0.0102
1.9	0.33	0.3	0.341	0.099	0.0338
2.2	0.34	0.3	0.453	0.102	0.0462
2.5	0.39	0.225	0.453	0.08775	0.0398
2.65	0.4	0.15	0.805	0.06	0.0483
2.8	0.41	0.15	0.805	0.0615	0.0495
2.95	0.34	0.15	0.509	0.051	0.0260
3.1	0.31	0.15	0.736	0.0465	0.0342
3.25	0.32	0.15	0.464	0.048	0.0223
3.4	0.32	0.15	0.341	0.048	0.0164
3.55	0.31	0.15	0.417	0.0465	0.0194
3.7	0.3	0.15	0.645	0.045	0.0290
3.85	0.23	0.15	0.485	0.0345	0.0167
4	0.24	0.175	0.509	0.042	0.0214
4.2	0.18	0.13	0.372	0.0234	0.0087
4.26	0	0.03	0	0	0.0000
3.02		3.02			**0.4218**

All velocity readings at 0.6 depth

no Staff Gauge

Data logger reading: no logger

Channel under ice? channel Ice free

Method: Price Velocity meter #2/ TS Wading Rod

Measurement By: J.Gibson

Silver Range Resources

KEG PROJECT

Baseline Water Quality / Hydrology Survey

Environmental Data Update

October and November, 2013

J.Gibson Env. Consulting *Whitehorse, Yukon*

KEG Project October and November 2013

Silver Range Resources baseline water quality / hydrology surveys of the KEG Claims surface waters continued in October and November 2013 at monthly stations.

KEG stations #1, #2, #3, #4, #5, #6 and #9 are on a monthly frequency as of November 2012. All other stations remain on a quarterly sampling frequency.

The sites are located in the Anvil Range approximately 30 kilometers north of Faro, Yukon and 15 kilometers north of the former Faro Mine.

The KEG Claims are located on tributaries to the Tay River.

All surface waters are tributaries to the Pelly River.

All survey sites were accessed by helicopter.

The baseline survey consisted of water quality samples for routine chemistry, total metals, dissolved metals, total organic carbon, total cyanide and total mercury with field measurements for pH, water temperature and flow volume measurements.

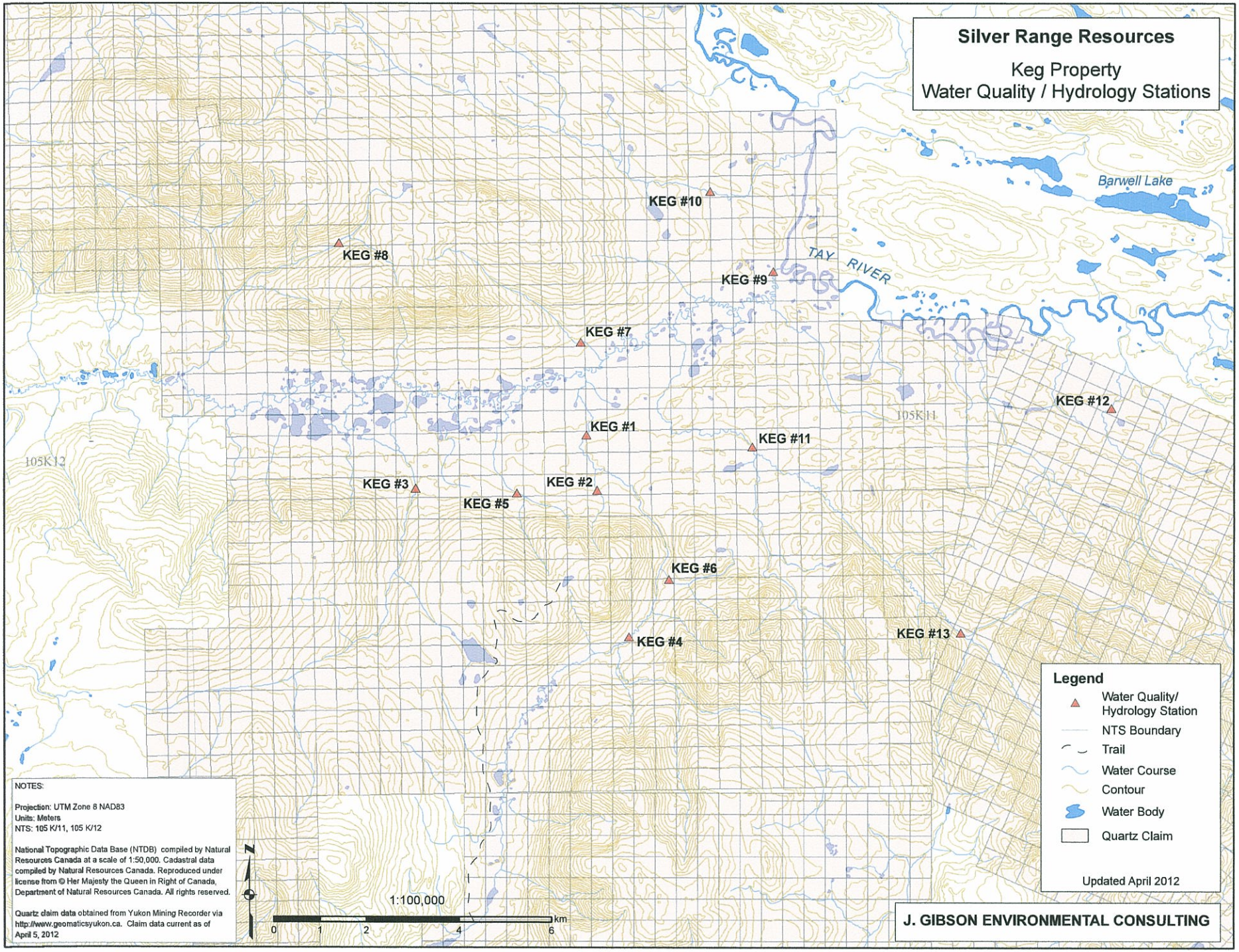
The Onset Weather Station installed in November 2012 had the base U30 Unit and solar panel changed in September due to logging problems.

Sample Locations

Nine water quality sample sites were established on the KEG Claims during the initial survey in August 2010.

Four sites were added in October 2010 on the eastern limits of the expanded claim block.

All sites are on the attached location map.


Silver Range Resources
Keg Property
Water Quality / Hydrology Stations
Barwell Lake
TAY RIVER
KEG #10
KEG #8
KEG #9
KEG #7
KEG #12
KEG #1
KEG #11
105K11
105K12
KEG #3
KEG #2
KEG #5
KEG #6
KEG #4
KEG #13
Legend
Water Quality/ Hydrology Station
NTS Boundary
Trail
Water Course
Contour
Water Body
Quartz Claim
Updated April 2012
NOTES:
Projection: UTM Zone 8 NAD83
Units: Meters
NTS: 105 K/11, 105 K/12
National Topographic Data Base (NTDB) compiled by Natural Resources Canada at a scale of 1:50,000. Cadastral data compiled by Natural Resources Canada. Reproduced under license from © Her Majesty the Queen in Right of Canada, Department of Natural Resources Canada. All rights reserved.
Quartz claim data obtained from Yukon Mining Recorder via http://www.geomaticsyukon.ca. Claim data current as of April 5, 2012
N
1:100,000
0 1 2 4 6 km
J. GIBSON ENVIRONMENTAL CONSULTING

Sample Analysis Parameters

All KEG stations were sampled for total metals, dissolved metals, routine chemistry, total organic carbon, total cyanide and total mercury.

Dissolved metals samples were filtered onsite using disposable 60 ml syringes and 0.45 micron filters. New syringes and filters were used for each station.

Total and Dissolved metal samples were preserved with nitric acid, Total Organic Carbon with HCL and Total Cyanide with NA0H immediately after sampling.

New B.C. Ministry of Environment protocols require total mercury to be sampled in a 125 ml glass bottle with a Teflon lid and be preserved with HCL. The new protocol was initiated in November Keg sampling.

All samples were stored in coolers, kept at 4 Celsius and shipped by air cargo to the Exova Canada Inc. laboratory in Surrey B.C. for analysis within recommended holding times.

Field measurements for pH and conductivity were taken with an Oakton PCS TestR 35, water temperatures with a digital thermometer.

Flow Volume Measurements

October 2013
Stream flow volumes were measured in October 2013 at monthly station Keg #1, #3 and #6. Volumes at Keg#1 show an 80% decrease from September with Keg#6 showing a 50% decrease. Stations KEG#2 and #5 had total ice cover with the remaining stations showing minor shore ice formation.

November 2013
Stream flow volumes in November at KEG#1 show continued decrease to 50% of October volumes.
Stations KEG #2 and #5 had ice to the channel invert with no flow.
Stations KEG #1, #3, #4 and #6 had ice coverage at 1 to 2 inches thickness.
Station KEG #9 (receiving waters) had total ice cover along its length at 6 to 7 inches thickness.
A summary of KEG stream flow volumes for 2012 and 2013 are in Table 4.

Stream flow volumes data / calculations are attached in Appendix 2.

Keg Weather Station

The Keg weather station was serviced and downloaded in October. An operational check in November showed all sensors operating.

Analysis Results

Laboratory analysis and field measurement results are listed in the following tables:

Table 1. October 2013 KEG Monthly Stations Routine Chemistry – Laboratory Analytical results and field measurements

Table 2. October 2013 KEG Monthly Stations Total Metals ICP–MS Laboratory Analytical results

Table 3. October 2013 KEG Monthly Stations Dissolved Metals ICP–MS Laboratory Analytical results

Table 4. KEG Stations Flow Volume Summary 2012 and 2013.

Table 5. November 2013 KEG Stations Routine Chemistry – Laboratory Analytical results and field measurements

Table 6. November 2013 KEG Monthly Stations Total Metals ICP–MS Laboratory Analytical results

Table 7. November 2013 KEG Monthly Stations Dissolved Metals ICP–MS Laboratory Analytical results

Table 8. November 2013 Quality Control Sample Analytical Results at KEG #1

Note: Routine Chemistry sample for Station KEG#1 in November was lost in transit.

Table 1.Silver Range Resources - KEG Claims October, 2013.
Routine Chemistry and Field Measurement Results

Parameter	Unit	STATIONS							DWQ* G.lines	Aquatic** G.lines
		KEG #1	KEG #2	KEG #3	KEG #4	KEG #5	KEG #6	KEG #7		
Monitoring Frequency		***Monthly***	***Monthly***	***Monthly***	***Monthly***	***Monthly***	***Monthly***	***Quarterly***		
pH (field)	ru	8.04	6.93	8.09	7.98	8.15	6.8			
pH (lab)	ru	8.02	7.29	7.73	8.04	7.89	6.82		6.5-8.5	6.5-9
Electrical Conductivity (lab)		348	148	148	346	258	390			
Water temperature	C	0.5	0.1	0.7	0.9	0.1	1.7			
Flow Volume(field)	cms	0.468	nr	0.2875	nr	nr	0.0138			
Organic Carbon Total	mg/L	5.9	22.5	6.1	6	14.3	6.3			
Cyanide Total	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002		0.2	0.005
Phosphorus Total	mg/L	0.006	0.01	<0.003	0.008	0.01	0.008			
Ammonia - N	mg/L	<0.01	0.01	<0.01	0.01	0.01	0.07			1.37-2.2
Nitrate - N	mg/L	0.07	<0.01	0.02	0.07	0.3	0.06		10	
Nitrite - N	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		1	0.06
T-Alkalinity	mg/L	126	66	74	132	87	31			
Chloride	mg/L	0.15	0.1	0.09	0.14	0.13	0.18		<250	
Sulfate (SO4)	mg/L	55.7	11.4	8.1	47.9	43.3	154			
Hardness	mg CaCO3/L	183	84	74	179	136	191		<500	
Total Suspended Solids	mg/L	6	6	<2	<2	7	16			
Total Dissolved Solids	mg/L	184	104	80	180	178	258		<500	

All results and limits in mg/L unless noted otherwis. Nr = no sample/reading

DWQ* Guidelines are Maximum Acceptable Concentrations according to
Canadian Drinking Water Quality

Aquatic** Guidelines are for protection of aquatic life in waters with pH >6.5 and Hardness as CaC03 >180 mg/L
Canadian Water Quality Guidelines

Table 1.Silver Range Resources - KEG Claims October, 2013.
Routine Chemistry and Field Measurement Results

Parameter	Unit	STATIONS KEG#8	KEG#9	KEG#10	KEG#11	KEG#12	KEG#13	DWQ* G.lines	Aquatic** G.lines
Monitoring Frequency		***Quarterly***	***Monthly***	***Quarterly***	***Quarterly***	***Quarterly***	***Quarterly***		
pH (field)	ru		7.77						
pH (lab)	ru		7.94					6.5-8.5	6.5-9
Electrical Conductivity (lab)	uS/cm		325						
Water temperature	C		0.3						
Flow Volume(field)	cms		nr						
Organic Carbon Total	mg/L		6.1						
Cyanide Total	mg/L		<0.002					0.2	0.005
Phosphorus Total	mg/L		0.02						
Ammonia - N	mg/L		0.02						1.37-2.2
Nitrate - N	mg/L		0.07					10	
Nitrite - N	mg/L		<0.01					1	0.06
T-Alkalinity	mg/L		120						
Chloride	mg/L		0.18					<250	
Sulfate (SO4)	mg/L		50.5						
Hardness	mg CaCO3/L		167					<500	
Total Suspended Solids	mg/L		7						
Total Dissolved Solids	mg/L		180					<500	

All results and limits in mg/L unless noted otherwis. Nr = no sample/reading

DWQ* Guidelines are Maximum Acceptable Concentrations according to
Canadian Drinking Water Quality

Aquatic** Guidelines are for protection of aquatic life in waters with pH >6.5 and Hardness as CaC03 >180 mg/L
Canadian Water Quality Guidelines

Table 2.Silver Range Resources - KEG Claims October, 2013.

Total Metals Analysis Results.

Parameter	Units	KEG #1	KEG #2	KEG #3	KEG #4	KEG #5	KEG #6	KEG #7	DWQ* G.Lines	Aquatic** G.Lines
Calcium	mg/L	59.7	29.2	23.3	59	47.9	65.9			
Iron	mg/L	0.176	0.386	0.034	0.204	0.102	6.73		0.3	0.3
Magnesium	mg/L	7.62	2.42	3.74	7.83	3.86	5.84			
Manganese	mg/L	0.0171	0.0239	<0.0050	0.026	<0.0050	0.158		0.05	
Potassium	mg/L	2.22	0.36	0.88	2.35	0.47	1.36			
Silicon	mg/L	5.36	8.42	5.84	5.5	8.05	5.49			
Sulfur	mg/L	18.4	4	2.8	15.6	14.6	51.9			
Sodium	mg/L	3.14	1.14	2.48	3.25	2.1	1.58		<200	
Titanium	mg/L	<0.0010	0.0012	0.0013	<0.0010	<0.0010	<0.0010			
Aluminum	mg/L	0.031	0.111	0.018	0.038	0.064	0.446			0.1
Antimony	mg/L	0.0002	0.0003	<0.0002	<0.0002	0.0006	0.0005		0.006	
Arsenic	mg/L	0.0017	0.0031	0.0008	0.0018	0.0042	0.0024		0.01	
Barium	mg/L	0.063	0.032	0.043	0.067	0.029	0.065		1	
Beryllium	mg/L	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	0.00012			
Bismuth	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010			
Boron	mg/L	<0.005	<0.005	<0.005	<0.005	0.013	<0.005			
Cadmium	mg/L	0.00006	0.00018	<0.00001	0.00004	0.00012	0.00018		0.005	0.0018
Chromium	mg/L	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004		0.05	0.002
Cobalt	mg/L	0.00015	0.00014	0.00004	0.00023	0.00008	0.00433			
Copper	mg/L	0.002	0.005	<0.001	0.001	0.006	0.007		1	0.004
Lead	mg/L	<0.0001	0.0001	<0.0001	<0.0001	<0.0001	<0.0001			
Lithium	mg/L	0.005	0.001	0.007	0.005	0.002	0.008			
Molybdenum	mg/L	0.0019	0.0006	0.001	0.002	0.0034	0.0002			
Nickel	mg/L	0.003	0.003	<0.001	0.002	0.002	0.043			0.15
Selenium	mg/L	0.0011	<0.0006	<0.0006	0.001	0.001	<0.0006		0.01	0.001
Silver	mg/L	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001			0.0001
Strontium	mg/L	0.146	0.054	0.074	0.142	0.096	0.104			
Thallium	mg/L	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00003			
Tin	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001			
Uranium	mg/L	0.0031	<0.0004	0.0033	0.0035	0.0007	<0.0004		0.02	
Vanadium	mg/L	0.0004	0.0004	0.0002	0.0004	0.0007	0.0004			
Zinc	mg/L	0.005	0.01	0.001	0.003	0.003	0.102		<5	0.03
Zirconium	mg/L	0.0005	0.0009	0.0002	0.0002	0.0006	0.0003			
Mercury	mg/L	nr	nr	nr	nr	nr	nr		0.001	

indicates levels equal or exceed Guideline Limits

Table 2.Silver Range Resources - KEG Claims October, 2013.
Total Metals Analysis Results.

Parameter	Units	KEG#8	KEG#9	KEG#10	KEG#11	KEG#12	KEG#13	DWQ* G.Lines	Aquatic** G.Lines
Calcium	mg/L		53.1						
Iron	mg/L		0.473					0.3	0.3
Magnesium	mg/L		8.07						
Manganese	mg/L		0.0495					0.05	
Potassium	mg/L		1.42						
Silicon	mg/L		5.13						
Sulfur	mg/L		16.6						
Sodium	mg/L		3					<200	
Titanium	mg/L		0.0044						
Aluminum	mg/L		0.064						0.1
Antimony	mg/L		0.0002					0.006	
Arsenic	mg/L		0.0019					0.01	
Barium	mg/L		0.07					1	
Beryllium	mg/L		<0.00004						
Bismuth	mg/L		<0.0010						
Boron	mg/L		<0.005						
Cadmium	mg/L		0.00006					0.005	0.0018
Chromium	mg/L		<0.0004					0.05	0.002
Cobalt	mg/L		0.00014						
Copper	mg/L		0.001					1	0.004
Lead	mg/L		<0.0001						
Lithium	mg/L		0.006						
Molybdenum	mg/L		0.0014						
Nickel	mg/L		0.002						0.15
Selenium	mg/L		0.0008					0.01	0.001
Silver	mg/L		<0.00001						0.0001
Strontium	mg/L		0.159						
Thallium	mg/L		<0.00001						
Tin	mg/L		<0.0001						
Uranium	mg/L		0.0024					0.02	
Vanadium	mg/L		0.0004						
Zinc	mg/L		0.004					<5	0.03
Zirconium	mg/L		0.0002						
Mercury	mg/L		nr					0.001	

indicates levels equal or exceed Guideline Limits

Table 3.Silver Range Resources - KEG Claims October, 2013.
Dissolved Metals Analysis Results

Parameter	Units	KEG #1	KEG #2	KEG #3	KEG #4	KEG #5	KEG #6	KEG #7
Calcium	mg/L	60.5	29.4	23.5	58.8	48.1	66.6	
Iron	mg/L	0.096	0.304	0.032	0.09	0.054	4.88	
Magnesium	mg/L	7.74	2.5	3.81	7.86	3.93	5.92	
Manganese	mg/L	0.01	0.013	<0.001	0.018	<0.001	0.15	
Potassium	mg/L	2.2	0.2	0.7	2.2	0.4	1.3	
Silicon	mg/L	5.32	8.4	5.94	5.46	8.06	5.5	
Sodium	mg/L	3.3	1.3	2.7	3.2	2.2	1.7	
Sulfur	mg/L	18	3.9	2.9	15.4	14	51	
Aluminum	mg/L	0.009	0.09	0.013	0.006	0.033	0.179	
Antimony	mg/L	0.0002	0.0003	<0.0002	<0.0002	0.0006	0.0005	
Arsenic	mg/L	0.0014	0.0026	0.0008	0.0016	0.004	0.0015	
Barium	mg/L	0.059	0.031	0.043	0.063	0.028	0.062	
Beryllium	mg/L	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	0.00009	
Bismuth	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Boron	mg/L	0.009	<0.004	<0.004	0.007	0.019	<0.004	
Cadmium	mg/L	0.00006	0.00018	0.00008	0.00004	0.0001	0.00018	
Chromium	mg/L	0.0004	0.0004	<0.0004	0.0006	0.0004	<0.0004	
Cobalt	mg/L	0.00014	0.00012	0.00004	0.00008	0.00007	0.0041	
Copper	mg/L	0.001	0.004	<0.001	<0.001	0.006	0.006	
Lead	mg/L	<0.0001	<0.0001	0.0001	<0.0001	<0.0001	<0.0001	
Lithium	mg/L	0.005	0.001	0.007	0.005	0.002	0.008	
Molybdenum	mg/L	0.00223	0.00086	0.00116	0.00194	0.00351	0.00024	
Nickel	mg/L	0.003	0.003	<0.001	0.002	0.002	0.041	
Selenium	mg/L	0.0012	0.0007	<0.0006	0.0014	0.0016	0.0011	
Silver	mg/L	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Strontium	mg/L	0.136	0.051	0.071	0.135	0.092	0.102	
Titanium	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
Thallium	mg/L	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00003	
Tin	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Uranium	mg/L	0.003	<0.0004	0.0032	0.0033	0.0007	<0.0004	
Vanadium	mg/L	0.00034	0.00037	0.00018	0.00041	0.00065	0.00016	
Zinc	mg/L	0.005	0.01	0.003	0.002	0.003	0.096	
Zirconium	mg/L	<0.00010	0.00045	<0.00010	<0.00010	0.00035	0.00016	

Table 3.Silver Range Resources - KEG Claims October, 2013.
Dissolved Metals Analysis Results

Parameter	Units	KEG#8	KEG#9	KEG#10	KEG#11	KEG#12	KEG#13
Calcium	mg/L		53.4				
Iron	mg/L		0.298				
Magnesium	mg/L		8.18				
Manganese	mg/L		0.04				
Potassium	mg/L		1.3				
Silicon	mg/L		5.05				
Sodium	mg/L		3				
Sulfur	mg/L		16.2				
Aluminum	mg/L		0.009				
Antimony	mg/L		0.0002				
Arsenic	mg/L		0.0016				
Barium	mg/L		0.065				
Beryllium	mg/L		<0.00004				
Bismuth	mg/L		<0.001				
Boron	mg/L		<0.004				
Cadmium	mg/L		0.00006				
Chromium	mg/L		<0.0004				
Cobalt	mg/L		0.00011				
Copper	mg/L		<0.001				
Lead	mg/L		<0.0001				
Lithium	mg/L		0.005				
Molybdenum	mg/L		0.00144				
Nickel	mg/L		0.002				
Selenium	mg/L		0.0012				
Silver	mg/L		<0.00001				
Strontium	mg/L		0.152				
Titanium	mg/L		<0.010				
Thallium	mg/L		<0.00001				
Tin	mg/L		<0.0001				
Uranium	mg/L		0.0023				
Vanadium	mg/L		0.00024				
Zinc	mg/L		0.003				
Zirconium	mg/L		<0.00010				

Table 4. Silver Range Resources - Summary of KEG Project Stations Flow Volumes 2012 to 2013

	Date														
Station	**Mar-12**	**May-12**	**Jul-12**	**Oct-12**	**Nov-12**	**Dec-12**	**Mar-13**	**Apr-13**	**May-13**	**Jun-13**	**Jul-13**	**Aug-13**	**Sep-13**	**Oct-13**	**Nov-13**
KEG #1	0.057	0.6995	1.270	0.312	0.215	0.114	0.12	0.077	2.131	1.181	nr	1.439	1.233	0.468	0.203
KEG #2	Dry	1.1247 0.0015 E	1.3736	0.0005 E	dry	dry	dry	dry	0.002	0.002	0.003	nr	nr	nr	nr
KEG #3	nr	0.6237	0.9296	0.328	nr	nr	0.053	nr	2.285	0.6018	nr	0.8387	nr	0.2875	nr
KEG #4	0.012	0.7403	1.206	0.323	nr	nr	0.069	nr	2.074	nr	nr	nr	nr	nr	nr
KEG #5	Dry	0.0253	0.013	0.004 E	dry	dry	dry	dry	0.003	0.0046	0.0981	0.0796	nr	nr	nr
KEG #6	Dry	0.0163	0.0269	0.006	<0.001 e	<0.001 e	<0.001e	<0.001e	0.057	0.0688	0.0332	0.0289	0.0269	0.0138	nr
KEG #7	Overflow	0.0787	0.0485	0.031	nr	nr	dry	nr	nr	0.0324	nr	nr	0.0865	nr	nr
KEG #8	nr	0.0787	0.0764	0.049	nr	nr	nr	nr	nr	nr	nr	nr	0.1046	nr	nr
KEG #10	Dry	0.7094	0.3262	0.107	nr	nr	dry	nr	nr	0.7732	nr	nr	0.6279	nr	nr
KEG #11	0.035	0.4049	0.751	0.288	nr	nr	0.044	nr	1.737	0.839	0.7657	1.0245	0.6447	nr	nr
KEG #12	0.007 E	0.5426 0.2044	0.7974 0.4203	0.035	nr	nr	nr	nr	nr	0.3087	nr	nr	0.2566	nr	nr
KEG #13	0.002 E	0.2423	0.7296	0.185	nr	nr	nr	nr	nr	0.6587	nr	nr	0.4218	nr	nr

Table 5.Silver Range Resources - KEG Claims November, 2013.
Routine Chemistry and Field Measurement Results

		STATIONS								
Parameter	**Unit**	**KEG #1**	**KEG #2**	**KEG #3**	**KEG #4**	**KEG #5**	**KEG #6**	**KEG #7**	**DWQ* G.lines**	**Aquatic** G.lines**
Monitoring Frequency		***Monthly***	***Monthly***	***Monthly***	***Monthly***	***Monthly***	***Monthly***	***Quarterly***		
pH (field)	ru	7.72		7.26	7.89		7.00			
pH (lab)	ru			7.45	7.81		6.71		6.5-8.5	6.5-9
Electrical Conductivity (lab)			No Flow	174	400	No Flow	388			
Water temperature	C	0.0		0.0	0.0		0.0			
Flow Volume(field)	cms	0.203		nr	nr		nr			
Organic Carbon Total	mg/L	3.8		4.6	3.5		3.7			
Cyanide Total	mg/L	<0.002		<0.002	<0.002		<0.002		0.2	0.005
Phosphorus Total	mg/L			0.004	0.007		0.004			
Ammonia - N	mg/L	0.02		0.02	0.03		0.06			1.37-2.2
Nitrate - N	mg/L			0.06	0.16		0.13		10	
Nitrite - N	mg/L	Chem		<0.01	<0.01		<0.01		1	0.06
T-Alkalinity	mg/L	sample		85	158		26			
Chloride	mg/L	lost in		0.1	0.25		0.17		<250	
Sulfate (SO4)	mg/L	transit		9.2	69.4		180			
Hardness	mg CaCO3/L			101	237		222		<500	
Total Suspended Solids	mg/L			<2	<2		6			
Total Dissolved Solids	mg/L			102	258		256		<500	

All results and limits in mg/L unless noted otherwis. Nr = no sample/reading

DWQ* Guidelines are Maximum Acceptable Concentrations according to
Canadian Drinking Water Quality

Aquatic** Guidelines are for protection of aquatic life in waters with pH >6.5 and Hardness as CaC03 >180 mg/L
Canadian Water Quality Guidelines

Table 5.Silver Range Resources - KEG Claims November, 2013.
Routine Chemistry and Field Measurement Results

Parameter	Unit	STATIONS KEG#8	KEG#9	KEG#10	KEG#11	KEG#12	KEG#13	DWQ* G.lines	Aquatic** G.lines
Monitoring Frequency		***Quarterly***	***Monthly***	***Quarterly***	***Quarterly***	***Quarterly***	***Quarterly***		
pH (field)	ru		7.61						
pH (lab)	ru		7.32					6.5-8.5	6.5-9
Electrical Conductivity (lab)	uS/cm		347						
Water temperature	C		0.0						
Flow Volume(field)	cms		nr						
Organic Carbon Total	mg/L		4						
Cyanide Total	mg/L		<0.002					0.2	0.005
Phosphorus Total	mg/L		0.006						
Ammonia - N	mg/L		0.04						1.37-2.2
Nitrate - N	mg/L		0.18					10	
Nitrite - N	mg/L		<0.01					1	0.06
T-Alkalinity	mg/L		142						
Chloride	mg/L		0.61					<250	
Sulfate (SO4)	mg/L		52.4						
Hardness	mg CaCO3/L		208					<500	
Total Suspended Solids	mg/L		<2						
Total Dissolved Solids	mg/L		206					<500	

All results and limits in mg/L unless noted otherwis. Nr = no sample/reading

DWQ* Guidelines are Maximum Acceptable Concentrations according to
Canadian Drinking Water Quality

Aquatic** Guidelines are for protection of aquatic life in waters with pH >6.5 and Hardness as CaC03 >180 mg/L
Canadian Water Quality Guidelines

Table 6.Silver Range Resources - KEG Claims November, 2013.

Total Metals Analysis Results.

Parameter	Units	KEG #1	KEG #2	KEG #3	KEG #4	KEG #5	KEG #6	KEG #7	DWQ* G.Lines	Aquatic** G.Lines
Calcium	mg/L	75.7		29.5	73.2		76.8			
Iron	mg/L	0.091		0.17	0.174		5.37		0.3	0.3
Magnesium	mg/L	8.66		4.28	8.92		5.7			
Manganese	mg/L	0.012		0.0441	0.0378		0.132		0.05	
Potassium	mg/L	2.4		0.8	2.6		1.4			
Silicon	mg/L	6.11		6.65	6.2		5.78			
Sulfur	mg/L									
Sodium	mg/L	3.8		2.6	4		1.4		<200	
Titanium	mg/L	<0.0010	No	<0.0010	<0.0010	No	<0.0010			
Aluminum	mg/L	0.024	Flow	0.021	0.019	Flow	0.288			0.1
Antimony	mg/L	<0.0002		<0.0002	<0.0002		0.0004		0.006	
Arsenic	mg/L	0.00143		0.00094	0.00158		0.00171		0.01	
Barium	mg/L	0.0743		0.0641	0.0806		0.0695		1	
Beryllium	mg/L	<0.00010		<0.00010	<0.00010		<0.00010			
Bismuth	mg/L	<0.0002		<0.0002	<0.0002		<0.0002			
Boron	mg/L	0.009		<0.004	0.009		<0.004			
Cadmium	mg/L	0.00009		0.00003	0.00006		0.00018		0.005	0.0018
Chromium	mg/L	<0.0010		<0.0010	<0.0010		<0.0010		0.05	0.002
Cobalt	mg/L	<0.0002		<0.0002	<0.0002		0.0041			
Copper	mg/L	0.0017		0.0014	0.0012		0.0094		1	0.004
Lead	mg/L	<0.0002		<0.0002	<0.0002		<0.0002			
Lithium	mg/L	0.0056		0.0075	0.006		0.0083			
Molybdenum	mg/L	0.00213		0.00106	0.00235		0.00021			
Nickel	mg/L	0.0028		0.0009	0.0009		0.044			0.15
Selenium	mg/L	0.0016		0.0003	0.0015		0.001		0.01	0.001
Silver	mg/L	<0.00010		<0.00010	<0.00010		<0.00010			0.0001
Strontium	mg/L	0.169		0.0862	0.162		0.113			
Thallium	mg/L	<0.00002		<0.00002	<0.00002		0.00003			
Tin	mg/L	<0.0002		<0.0002	<0.0002		<0.0002			
Uranium	mg/L	0.00332		0.00384	0.00384		0.00006		0.02	
Vanadium	mg/L	<0.0002		0.0004	0.0004		0.0003			
Zinc	mg/L	0.0076		0.0022	0.0079		0.0997		<5	0.03
Zirconium	mg/L	<0.0010		<0.0010	<0.0010		<0.0010			
Mercury	mg/L	<0.00001		<0.00001	<0.00001		<0.00001		0.001	

indicates levels equal or exceed Guideline Limits

Table 6.Silver Range Resources - KEG Claims November, 2013.
Total Metals Analysis Results.

Parameter	Units	KEG#8	KEG#9	KEG#10	KEG#11	KEG#12	KEG#13	DWQ* G.Lines	Aquatic** G.Lines
Calcium	mg/L		67.4						
Iron	mg/L		0.213					0.3	0.3
Magnesium	mg/L		9.75						
Manganese	mg/L		0.0568					0.05	
Potassium	mg/L		1.6						
Silicon	mg/L		6.28						
Sulfur	mg/L								
Sodium	mg/L		3.7					<200	
Titanium	mg/L		0.0013						
Aluminum	mg/L		0.03						0.1
Antimony	mg/L		<0.0002					0.006	
Arsenic	mg/L		0.0012					0.01	
Barium	mg/L		0.0944					1	
Beryllium	mg/L		<0.00010						
Bismuth	mg/L		<0.0002						
Boron	mg/L		0.004						
Cadmium	mg/L		0.00008					0.005	0.0018
Chromium	mg/L		<0.0010					0.05	0.002
Cobalt	mg/L		<0.0002						
Copper	mg/L		0.0027					1	0.004
Lead	mg/L		<0.0002						
Lithium	mg/L		0.0064						
Molybdenum	mg/L		0.00164						
Nickel	mg/L		0.0012						0.15
Selenium	mg/L		0.0008					0.01	0.001
Silver	mg/L		<0.00010						0.0001
Strontium	mg/L		0.193						
Thallium	mg/L		<0.00002						
Tin	mg/L		<0.0002						
Uranium	mg/L		0.00273					0.02	
Vanadium	mg/L		0.0003						
Zinc	mg/L		0.0046					<5	0.03
Zirconium	mg/L		<0.0010						
Mercury	mg/L		<0.00001					0.001	

indicates levels equal or exceed Guideline Limits

Table 7.Silver Range Resources - KEG Claims November, 2013.
Dissolved Metals Analysis Results

Parameter	Units	KEG #1	KEG #2	KEG #3	KEG #4	KEG #5	KEG #6	KEG #7
Calcium	mg/L	83.1		34.2	85.3		82.6	
Iron	mg/L	0.034		0.131	0.085		4.27	
Magnesium	mg/L	9.75		4.99	10.5		6.4	
Manganese	mg/L	0.009		0.039	0.036		0.125	
Potassium	mg/L	2.6		0.9	2.9		1.5	
Silicon	mg/L	5.56		6.21	5.74		5.13	
Sodium	mg/L	3.8		2.9	4.1		1.6	
Sulfur	mg/L	27.6		3.4	23.5		62.1	
Aluminum	mg/L	0.007		0.007	<0.005		0.157	
Antimony	mg/L	0.0002		<0.0002	<0.0002		0.0005	
Arsenic	mg/L	0.0013		0.0009	0.0012		0.001	
Barium	mg/L	0.069		0.061	0.08		0.063	
Beryllium	mg/L	<0.00004		<0.00004	<0.00004		0.00007	
Bismuth	mg/L	<0.001		<0.001	<0.001		<0.001	
Boron	mg/L	0.009		<0.004	0.01		<0.004	
Cadmium	mg/L	0.00008		0.00002	0.00006		0.00015	
Chromium	mg/L	<0.0004		<0.0004	<0.0004		<0.0004	
Cobalt	mg/L	0.00015		0.00011	0.0001		0.00378	
Copper	mg/L	<0.001		<0.001	<0.001		0.003	
Lead	mg/L	<0.0001		<0.0001	<0.0001		<0.0001	
Lithium	mg/L	0.005		0.007	0.006		0.008	
Molybdenum	mg/L	0.00196		0.00103	0.00225		0.00019	
Nickel	mg/L	0.004		0.001	0.002		0.042	
Selenium	mg/L	0.0011		<0.0006	0.0012		<0.0006	
Silver	mg/L	<0.00001		<0.00001	<0.00001		<0.00001	
Strontium	mg/L	0.165		0.09	0.168		0.111	
Titanium	mg/L	<0.010		0.023	<0.010		0.018	
Thallium	mg/L	<0.00001		<0.00001	<0.00001		0.00002	
Tin	mg/L	<0.0001		<0.0001	<0.0001		<0.0001	
Uranium	mg/L	0.0031		0.0035	0.0035		<0.0004	
Vanadium	mg/L	0.00054		0.00046	0.00079		0.00017	
Zinc	mg/L	0.006		0.002	0.002		0.092	
Zirconium	mg/L	0.00012		0.00014	<0.00010		0.00016	

Table 7.Silver Range Resources - KEG Claims November, 2013.
Dissolved Metals Analysis Results

Parameter	Units	KEG#8	KEG#9	KEG#10	KEG#11	KEG#12	KEG#13
Calcium	mg/L		70.9				
Iron	mg/L		0.104				
Magnesium	mg/L		10.5				
Manganese	mg/L		0.049				
Potassium	mg/L		1.6				
Silicon	mg/L		5.37				
Sodium	mg/L		3.6				
Sulfur	mg/L		18				
Aluminum	mg/L		<0.005				
Antimony	mg/L		0.0002				
Arsenic	mg/L		0.0009				
Barium	mg/L		0.084				
Beryllium	mg/L		<0.00004				
Bismuth	mg/L		<0.001				
Boron	mg/L		0.005				
Cadmium	mg/L		0.00005				
Chromium	mg/L		<0.0004				
Cobalt	mg/L		0.00011				
Copper	mg/L		<0.001				
Lead	mg/L		<0.0001				
Lithium	mg/L		0.006				
Molybdenum	mg/L		0.00148				
Nickel	mg/L		0.002				
Selenium	mg/L		<0.0006				
Silver	mg/L		<0.00001				
Strontium	mg/L		0.183				
Titanium	mg/L		<0.010				
Thallium	mg/L		<0.00001				
Tin	mg/L		<0.0001				
Uranium	mg/L		0.0023				
Vanadium	mg/L		0.00061				
Zinc	mg/L		0.003				
Zirconium	mg/L		<0.00010				

Table 8.Silver Range Resources - KEG Claims November, 2013.
Quality Control Total and Dissolved Metals Analysis Results.

Parameter	Units	November Keg # 1 Total Metals	November Keg # 1 Total Metals Duplicate	November Keg # 1 Diss.Metals	November Keg # 1 Diss.Metals Duplicate
Calcium	mg/L	75.7	77.8	83.1	76.4
Iron	mg/L	0.091	0.089	0.034	0.046
Magnesium	mg/L	8.66	8.94	9.75	8.98
Manganese	mg/L	0.012	0.012	0.009	0.009
Potassium	mg/L	2.4	2.4	2.6	2.6
Silicon	mg/L	6.11	6.25	5.56	5.58
Sodium	mg/L	3.8	3.9	3.8	3.7
Titanium	mg/L	<0.0010	<0.0010	<0.010	<0.010
Aluminum	mg/L	0.024	0.022	0.007	0.008
Antimony	mg/L	<0.0002	<0.0002	0.0002	0.0002
Arsenic	mg/L	0.00143	0.00146	0.0013	0.0012
Barium	mg/L	0.0743	0.0756	0.069	0.07
Beryllium	mg/L	<0.00010	<0.00010	<0.00004	<0.00004
Bismuth	mg/L	<0.0002	<0.0002	<0.001	<0.001
Boron	mg/L	0.009	0.008	0.009	0.009
Cadmium	mg/L	0.00009	0.00009	0.00008	0.00008
Chromium	mg/L	<0.0010	<0.0010	<0.0004	<0.0004
Cobalt	mg/L	<0.0002	<0.0002	0.00015	0.00015
Copper	mg/L	0.0017	0.0021	<0.001	<0.001
Lead	mg/L	<0.0002	<0.0002	<0.0001	<0.0001
Lithium	mg/L	0.0056	0.0055	0.005	0.005
Molybdenum	mg/L	0.00213	0.00212	0.00196	0.00198
Nickel	mg/L	0.0028	0.003	0.004	0.004
Selenium	mg/L	0.0016	0.0017	0.0011	0.0011
Silver	mg/L	<0.00010	<0.00010	<0.00001	<0.00001
Strontium	mg/L	0.169	0.169	0.165	0.171
Thallium	mg/L	<0.00002	<0.00002	<0.00001	<0.00001
Tin	mg/L	<0.0002	<0.0002	<0.0001	<0.0001
Uranium	mg/L	0.00332	0.00347	0.0031	0.0029
Vanadium	mg/L	<0.0002	0.0003	0.00054	0.00055
Zinc	mg/L	0.0076	0.0074	0.006	0.006
Zirconium	mg/L	<0.0010	<0.0010	0.00012	0.0001
Mercury	mg/L	<0.00001	nr	nr	nr

indicates >10% variation between samples

As a guide for reviewing site water quality, the Maximum Acceptable Concentration (MAC) according to ***Canadian Drinking Water Quality*** are listed along with the Aquatic Guidelines for the protection of aquatic life in water with a pH of > 6.5 and a total hardness as CaC03 > 180 mg/L according to ***CCME – Canadian Water Quality Guidelines.***
All water quality ***Guideline*** concentrations are based on total metal values.

All laboratory analysis was done by Exova Canada Inc of Surrey B.C.

Laboratory Analytical Reports are attached in Appendix 1.

Data Summaries for each station are on the attached Excel disc.

Quality Control

Total and dissolved metals duplicate samples were taken at KEG #1 for quality control.in November.

Quality control analysis results are listed in Table 8.

Discussion

Laboratory Analytical Results

Parameters that equal or exceed either ***Drinking Water or Aquatic Guidelines*** are highlighted in yellow.

October 2013

Station KEG#1 results exceed the ***Aquatic Guidelines*** for selenium.

Station KEG#2 results exceed the ***Aquatic Guidelines*** for aluminum, iron and copper; and the ***Drinking Water MAC*** for iron.

Station KEG#4 results exceed ***Aquatic Guidelines*** for selenium.

Station KEG#5 results exceed ***Aquatic Guidelines*** for copper and equaled the ***Aquatic Guidelines*** for selenium.

Station KEG#6 results exceed ***Aquatic Guidelines*** for aluminum, iron, copper and zinc; the ***Drinking Water MAC*** for iron and manganese.

Station KEG#9 (receiving waters) results exceed the ***Aquatic Guidelines*** and the ***Drinking Water MAC*** for iron.

November 2013

Station KEG#1 results exceed the ***Aquatic Guidelines*** for selenium.

Station KEG#4 results exceed the ***Aquatic Guidelines*** for selenium.

Station KEG#6 results exceed ***Aquatic Guidelines*** for aluminum, iron, copper and zinc, equaled the ***Aquatic Guidelines*** for selenium; and exceed the ***Drinking Water MAC*** for iron and manganese.

Station KEG #9 (receiving waters) results exceed ***Drinking Water MAC's*** for manganese.

In October and November 2013, Total Mercury concentrations were below detection limits at all Stations.

In October and November 2013, Total Cyanide concentrations were below detection limits at all Stations.

In November, Stations KEG#2 and #5 had no flow with ice to the channel base.

A P P E N D I X 1

LABORATORY ANALYTICAL REPORTS

KEG PROJECT

October and November 2013

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Report Transmission Cover Page

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**966770**
Report To:	J. Gibson & Associates	ID:	Silver Range Res.	Control Number:	B14622
	Box 20913	Name:	Keg	Date Received:	Oct 22, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Oct 28, 2013
	Y1A 6P2	LSD:		Report Number:	1868355
Attn:	John Gibson	P.O.:			
Sampled By:	J.Gibson	Acct code:			
Company:					

Contact & Affiliation	Address	Delivery Commitments
John Gibson J. Gibson & Associates	, Box 20913 Whitehorse, Yukon Territory Y1A 6P2 Phone: (867) 633-4522 Fax: (867) 668-6895 Email: ludditegibson@gmail.com	On [Lot Verification] send (COA) by Email - Single Report On [Report Approval] send (COC, Test Report) by Email - Merge Reports On [Report Approval] send (Test Report) by Email - Single Report On [Lot Approval and Final Test Report Approval] send (Invoice) by Email - Single Report On [Lot Creation] send (COR) by Email - Single Report

Notes To Clients:

- Some total metal results were less than dissolved metal results for lot 966770. The results were verified and are within expected measurement uncertainty.
- pH analysis was performed past the recommended holding time of 15 minutes from sample collection.

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Exova

Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**966770**
Report To:	J. Gibson & Associates	ID:	Silver Range Res.	Control Number:	B14622
	Box 20913	Name:	Keg	Date Received:	Oct 22, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Oct 28, 2013
	Y1A 6P2	LSD:		Report Number:	1868355
Attn:	John Gibson	P.O.:			
Sampled By:	J.Gibson	Acct code:			
Company:					

			Reference Number	966770-1	966770-2	966770-3	
			Sample Date	Oct 19, 2013	Oct 19, 2013	Oct 19, 2013	
			Sample Time	NA	NA	NA	
			Sample Location				
			Sample Description	Surf / Keg #1	Surf / Keg #2	Surf / Keg #3	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Inorganic Nonmetallic Parameters							
Organic Carbon	Total Nonpurgeable	mg/L		5.9	22.5	6.1	0.5
Cyanide	Total	mg/L		<0.002	<0.002	<0.002	0.002
Ammonia - N		mg/L		<0.01	0.01	<0.01	.01
Phosphorus	Total	mg/L		0.006	0.010	<0.003	0.003
Metals Dissolved							
Sulfur	Dissolved	mg/L		18.0	3.9	2.9	0.2
Aluminum	Dissolved	mg/L		0.009	0.090	0.013	0.005
Antimony	Dissolved	mg/L		0.0002	0.0003	<0.0002	0.0002
Arsenic	Dissolved	mg/L		0.0014	0.0026	0.0008	0.0002
Barium	Dissolved	mg/L		0.059	0.031	0.043	0.001
Beryllium	Dissolved	mg/L		<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Dissolved	mg/L		<0.001	<0.001	<0.001	0.001
Boron	Dissolved	mg/L		0.009	<0.004	<0.004	0.004
Cadmium	Dissolved	mg/L		0.00006	0.00018	0.00008	0.00001
Chromium	Dissolved	mg/L		0.0004	0.0004	<0.0004	0.0004
Cobalt	Dissolved	mg/L		0.00014	0.00012	0.00004	0.00002
Copper	Dissolved	mg/L		0.001	0.004	<0.001	0.001
Lead	Dissolved	mg/L		<0.0001	<0.0001	0.0001	0.0001
Lithium	Dissolved	mg/L		0.005	0.001	0.007	0.001
Molybdenum	Dissolved	mg/L		0.00223	0.00086	0.00116	0.0001
Nickel	Dissolved	mg/L		0.003	0.003	<0.001	0.001
Selenium	Dissolved	mg/L		0.0012	0.0007	<0.0006	0.0006
Silver	Dissolved	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Titanium	Dissolved	mg/L		<0.010	<0.010	<0.010	0.01
Strontium	Dissolved	mg/L		0.136	0.051	0.071	0.001
Tellurium	Dissolved	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Thallium	Dissolved	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Thorium	Dissolved	mg/L		<0.0004	<0.0004	<0.0004	0.0004
Tin	Dissolved	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Uranium	Dissolved	mg/L		0.0030	<0.0004	0.0032	0.0004
Vanadium	Dissolved	mg/L		0.00034	0.00037	0.00018	0.0001
Zinc	Dissolved	mg/L		0.005	0.01	0.003	0.001
Zirconium	Dissolved	mg/L		<0.00010	0.00045	<0.00010	0.0001
Metals Total							
Calcium	Total	mg/L		59.7	29.2	23.3	0.05
Iron	Total	mg/L		0.176	0.386	0.034	0.01

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Exova

Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J.Gibson
Company:

Project:
ID: Silver Range Res.
Name: Keg
Location:
LSD:
P.O.:
Acct code:

Lot ID: **966770**
Control Number: B14622
Date Received: Oct 22, 2013
Date Reported: Oct 28, 2013
Report Number: 1868355

			Reference Number	966770-1	966770-2	966770-3	
			Sample Date	Oct 19, 2013	Oct 19, 2013	Oct 19, 2013	
			Sample Time	NA	NA	NA	
			Sample Location				
			Sample Description	Surf / Keg #1	Surf / Keg #2	Surf / Keg #3	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Total - Continued							
Magnesium	Total	mg/L		7.62	2.42	3.74	0.05
Manganese	Total	mg/L		0.0171	0.0239	<0.0050	0.005
Potassium	Total	mg/L		2.22	0.36	0.88	0.1
Silicon	Total	mg/L		5.36	8.42	5.84	0.05
Sulfur	Total	mg/L		18.4	4.0	2.8	0.1
Sodium	Total	mg/L		3.14	1.14	2.48	0.02
Titanium	Total	mg/L		<0.0010	0.0012	0.0013	0.001
Aluminum	Total	mg/L		0.031	0.111	0.018	0.005
Antimony	Total	mg/L		0.0002	0.0003	<0.0002	0.0002
Arsenic	Total	mg/L		0.0017	0.0031	0.0008	0.0002
Barium	Total	mg/L		0.063	0.032	0.043	0.001
Beryllium	Total	mg/L		<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Total	mg/L		<0.0010	<0.0010	<0.0010	0.001
Boron	Total	mg/L		<0.005	<0.005	<0.005	0.004
Cadmium	Total	mg/L		0.00006	0.00018	<0.00001	0.00001
Chromium	Total	mg/L		<0.0004	<0.0004	<0.0004	0.0004
Cobalt	Total	mg/L		0.00015	0.00014	0.00004	0.00002
Copper	Total	mg/L		0.002	0.005	<0.001	0.001
Lead	Total	mg/L		<0.0001	0.0001	<0.0001	0.0001
Lithium	Total	mg/L		0.005	0.001	0.007	0.001
Molybdenum	Total	mg/L		0.0019	0.0006	0.001	0.0001
Nickel	Total	mg/L		0.003	0.003	<0.001	0.001
Selenium	Total	mg/L		0.0011	<0.0006	<0.0006	0.0006
Silver	Total	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Strontium	Total	mg/L		0.146	0.054	0.074	0.001
Tellurium	Total	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Thallium	Total	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Thorium	Total	mg/L		<0.0004	<0.0004	<0.0004	0.0004
Tin	Total	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Uranium	Total	mg/L		0.0031	<0.0004	0.0033	0.0004
Vanadium	Total	mg/L		0.0004	0.0004	0.0002	0.0001
Zinc	Total	mg/L		0.005	0.010	0.001	0.001
Zirconium	Total	mg/L		0.0005	0.0009	0.0002	0.0001
Physical and Aggregate Properties							
Solids	Total Suspended	mg/L		6	6	<2	1
Solids	Total Dissolved	mg/L		184	104	80	5

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Analytical Report

Bill To: J. Gibson & Associates
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Attn: John Gibson
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ID: Silver Range Res.
Name: Keg
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		Reference Number	966770-1	966770-2	966770-3	
		Sample Date	Oct 19, 2013	Oct 19, 2013	Oct 19, 2013	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	Surf / Keg #1	Surf / Keg #2	Surf / Keg #3	
		Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Routine Water						
pH	at 25 °C		8.02	7.29	7.73	
Electrical Conductivity		µS/cm at 25 C	348	148	148	1
Calcium	Dissolved	mg/L	60.5	29.4	23.5	0.1
Iron	Dissolved	mg/L	0.096	0.304	0.032	0.005
Magnesium	Dissolved	mg/L	7.74	2.50	3.81	0.1
Manganese	Dissolved	mg/L	0.010	0.013	<0.001	0.001
Potassium	Dissolved	mg/L	2.2	0.2	0.7	0.1
Silicon	Dissolved	mg/L	5.32	8.40	5.94	0.05
Sodium	Dissolved	mg/L	3.3	1.3	2.7	0.1
Bicarbonate		mg/L	154	80	90	5
Carbonate		mg/L	<6	<6	<6	6
Hydroxide		mg/L	<5	<5	<5	5
P-Alkalinity	as CaCO3	mg/L	<5	<5	<5	5
T-Alkalinity	as CaCO3	mg/L	126	66	74	5
Chloride	Dissolved	mg/L	0.15	0.10	0.09	0.05
Nitrate - N	Dissolved	mg/L	0.07	<0.01	0.02	0.01
Nitrite - N	Dissolved	mg/L	<0.01	<0.01	<0.01	0.01
Sulfate (SO4)	Dissolved	mg/L	55.7	11.4	8.1	0.5
Hardness	as CaCO3	mg/L	183	84	74	5
Hardness	Total	mg CaCO3/L	180	82.9	73.6	1

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J.Gibson
Company:

Project:
ID: Silver Range Res.
Name: Keg
Location:
LSD:
P.O.:
Acct code:

Lot ID: **966770**
Control Number: B14622
Date Received: Oct 22, 2013
Date Reported: Oct 28, 2013
Report Number: 1868355

			Reference Number	966770-4	966770-5	966770-6	
			Sample Date	Oct 19, 2013	Oct 19, 2013	Oct 19, 2013	
			Sample Time	NA	NA	NA	
			Sample Location				
			Sample Description	Surf / Keg #4	Surf / Keg #5	Surf / Keg #6	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Inorganic Nonmetallic Parameters							
Organic Carbon	Total Nonpurgeable	mg/L		6.0	14.3	6.3	0.5
Cyanide	Total	mg/L		<0.002	<0.002	<0.002	0.002
Ammonia - N		mg/L		0.01	0.01	0.07	.01
Phosphorus	Total	mg/L		0.008	0.010	0.008	0.003
Metals Dissolved							
Sulfur	Dissolved	mg/L		15.4	14.0	51.0	0.2
Aluminum	Dissolved	mg/L		0.006	0.033	0.179	0.005
Antimony	Dissolved	mg/L		<0.0002	0.0006	0.0005	0.0002
Arsenic	Dissolved	mg/L		0.0016	0.0040	0.0015	0.0002
Barium	Dissolved	mg/L		0.063	0.028	0.062	0.001
Beryllium	Dissolved	mg/L		<0.00004	<0.00004	0.00009	0.00004
Bismuth	Dissolved	mg/L		<0.001	<0.001	<0.001	0.001
Boron	Dissolved	mg/L		0.007	0.019	<0.004	0.004
Cadmium	Dissolved	mg/L		0.00004	0.00010	0.00018	0.00001
Chromium	Dissolved	mg/L		0.0006	0.0004	<0.0004	0.0004
Cobalt	Dissolved	mg/L		0.00008	0.00007	0.00410	0.00002
Copper	Dissolved	mg/L		<0.001	0.006	0.006	0.001
Lead	Dissolved	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Lithium	Dissolved	mg/L		0.005	0.002	0.008	0.001
Molybdenum	Dissolved	mg/L		0.00194	0.00351	0.00024	0.0001
Nickel	Dissolved	mg/L		0.002	0.002	0.041	0.001
Selenium	Dissolved	mg/L		0.0014	0.0016	0.0011	0.0006
Silver	Dissolved	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Titanium	Dissolved	mg/L		<0.010	<0.010	<0.010	0.01
Strontium	Dissolved	mg/L		0.135	0.092	0.102	0.001
Tellurium	Dissolved	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Thallium	Dissolved	mg/L		<0.00001	<0.00001	0.00003	0.00001
Thorium	Dissolved	mg/L		<0.0004	<0.0004	<0.0004	0.0004
Tin	Dissolved	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Uranium	Dissolved	mg/L		0.0033	0.0007	<0.0004	0.0004
Vanadium	Dissolved	mg/L		0.00041	0.00065	0.00016	0.0001
Zinc	Dissolved	mg/L		0.002	0.003	0.096	0.001
Zirconium	Dissolved	mg/L		<0.00010	0.00035	0.00016	0.0001
Metals Total							
Calcium	Total	mg/L		59.0	47.9	65.9	0.05
Iron	Total	mg/L		0.204	0.102	6.73	0.01

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J.Gibson
Company:

Project:
ID: Silver Range Res.
Name: Keg
Location:
LSD:
P.O.:
Acct code:

Lot ID: **966770**
Control Number: B14622
Date Received: Oct 22, 2013
Date Reported: Oct 28, 2013
Report Number: 1868355

	Reference Number	966770-4	966770-5	966770-6	
	Sample Date	Oct 19, 2013	Oct 19, 2013	Oct 19, 2013	
	Sample Time	NA	NA	NA	
	Sample Location				
	Sample Description	Surf / Keg #4	Surf / Keg #5	Surf / Keg #6	
	Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Total - Continued						
Magnesium	Total	mg/L	7.83	3.86	5.84	0.05
Manganese	Total	mg/L	0.0260	<0.0050	0.158	0.005
Potassium	Total	mg/L	2.35	0.47	1.36	0.1
Silicon	Total	mg/L	5.50	8.05	5.49	0.05
Sulfur	Total	mg/L	15.6	14.6	51.9	0.1
Sodium	Total	mg/L	3.25	2.10	1.58	0.02
Titanium	Total	mg/L	<0.0010	<0.0010	<0.0010	0.001
Aluminum	Total	mg/L	0.038	0.064	0.446	0.005
Antimony	Total	mg/L	<0.0002	0.0006	0.0005	0.0002
Arsenic	Total	mg/L	0.0018	0.0042	0.0024	0.0002
Barium	Total	mg/L	0.067	0.029	0.065	0.001
Beryllium	Total	mg/L	<0.00004	<0.00004	0.00012	0.00004
Bismuth	Total	mg/L	<0.0010	<0.0010	<0.0010	0.001
Boron	Total	mg/L	<0.005	0.013	<0.005	0.004
Cadmium	Total	mg/L	0.00004	0.00012	0.00018	0.00001
Chromium	Total	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Cobalt	Total	mg/L	0.00023	0.00008	0.00433	0.00002
Copper	Total	mg/L	0.001	0.006	0.007	0.001
Lead	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Lithium	Total	mg/L	0.005	0.002	0.008	0.001
Molybdenum	Total	mg/L	0.0020	0.0034	0.0002	0.0001
Nickel	Total	mg/L	0.002	0.002	0.043	0.001
Selenium	Total	mg/L	0.001	0.0010	<0.0006	0.0006
Silver	Total	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Strontium	Total	mg/L	0.142	0.096	0.104	0.001
Tellurium	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium	Total	mg/L	<0.00001	<0.00001	0.00003	0.00001
Thorium	Total	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Uranium	Total	mg/L	0.0035	0.0007	<0.0004	0.0004
Vanadium	Total	mg/L	0.0004	0.0007	0.0004	0.0001
Zinc	Total	mg/L	0.003	0.003	0.102	0.001
Zirconium	Total	mg/L	0.0002	0.0006	0.0003	0.0001
Physical and Aggregate Properties						
Solids	Total Suspended	mg/L	<2	7	16	1
Solids	Total Dissolved	mg/L	180	178	258	5

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J.Gibson
Company:

Project:
ID: Silver Range Res.
Name: Keg
Location:
LSD:
P.O.:
Acct code:

Lot ID: **966770**
Control Number: B14622
Date Received: Oct 22, 2013
Date Reported: Oct 28, 2013
Report Number: 1868355

		Reference Number	966770-4	966770-5	966770-6	
		Sample Date	Oct 19, 2013	Oct 19, 2013	Oct 19, 2013	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	Surf / Keg #4	Surf / Keg #5	Surf / Keg #6	
		Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Routine Water						
pH	at 25 °C		8.04	7.89	6.82	
Electrical Conductivity		µS/cm at 25 C	346	258	390	1
Calcium	Dissolved	mg/L	58.8	48.1	66.6	0.1
Iron	Dissolved	mg/L	0.090	0.054	4.88	0.005
Magnesium	Dissolved	mg/L	7.86	3.93	5.92	0.1
Manganese	Dissolved	mg/L	0.018	<0.001	0.150	0.001
Potassium	Dissolved	mg/L	2.2	0.4	1.3	0.1
Silicon	Dissolved	mg/L	5.46	8.06	5.50	0.05
Sodium	Dissolved	mg/L	3.2	2.2	1.7	0.1
Bicarbonate		mg/L	160	106	38	5
Carbonate		mg/L	<6	<6	<6	6
Hydroxide		mg/L	<5	<5	<5	5
P-Alkalinity	as CaCO3	mg/L	<5	<5	<5	5
T-Alkalinity	as CaCO3	mg/L	132	87	31	5
Chloride	Dissolved	mg/L	0.14	0.13	0.18	0.05
Nitrate - N	Dissolved	mg/L	0.07	0.30	0.06	0.01
Nitrite - N	Dissolved	mg/L	<0.01	<0.01	<0.01	0.01
Sulfate (SO4)	Dissolved	mg/L	47.9	43.3	154	0.5
Hardness	as CaCO3	mg/L	179	136	191	5
Hardness	Total	mg CaCO3/L	180	136	189	1

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J.Gibson
Company:

Project:
ID: Silver Range Res.
Name: Keg
Location:
LSD:
P.O.:
Acct code:

Lot ID: **966770**
Control Number: B14622
Date Received: Oct 22, 2013
Date Reported: Oct 28, 2013
Report Number: 1868355

Reference Number	966770-7
Sample Date	Oct 19, 2013
Sample Time	NA
Sample Location	
Sample Description	Surf / Keg #9
Matrix	Water

Analyte		Units	Results	Results	Results	Nominal Detection Limit
Inorganic Nonmetallic Parameters						
Organic Carbon	Total Nonpurgeable	mg/L	6.1			0.5
Cyanide	Total	mg/L	<0.002			0.002
Ammonia - N		mg/L	0.02			.01
Phosphorus	Total	mg/L	0.020			0.003
Metals Dissolved						
Sulfur	Dissolved	mg/L	16.2			0.2
Aluminum	Dissolved	mg/L	0.009			0.005
Antimony	Dissolved	mg/L	0.0002			0.0002
Arsenic	Dissolved	mg/L	0.0016			0.0002
Barium	Dissolved	mg/L	0.065			0.001
Beryllium	Dissolved	mg/L	<0.00004			0.00004
Bismuth	Dissolved	mg/L	<0.001			0.001
Boron	Dissolved	mg/L	<0.004			0.004
Cadmium	Dissolved	mg/L	0.00006			0.00001
Chromium	Dissolved	mg/L	<0.0004			0.0004
Cobalt	Dissolved	mg/L	0.00011			0.00002
Copper	Dissolved	mg/L	<0.001			0.001
Lead	Dissolved	mg/L	<0.0001			0.0001
Lithium	Dissolved	mg/L	0.005			0.001
Molybdenum	Dissolved	mg/L	0.00144			0.0001
Nickel	Dissolved	mg/L	0.002			0.001
Selenium	Dissolved	mg/L	0.0012			0.0006
Silver	Dissolved	mg/L	<0.00001			0.00001
Titanium	Dissolved	mg/L	<0.010			0.01
Strontium	Dissolved	mg/L	0.152			0.001
Tellurium	Dissolved	mg/L	<0.0001			0.0001
Thallium	Dissolved	mg/L	<0.00001			0.00001
Thorium	Dissolved	mg/L	<0.0004			0.0004
Tin	Dissolved	mg/L	<0.0001			0.0001
Uranium	Dissolved	mg/L	0.0023			0.0004
Vanadium	Dissolved	mg/L	0.00024			0.0001
Zinc	Dissolved	mg/L	0.003			0.001
Zirconium	Dissolved	mg/L	<0.00010			0.0001
Metals Total						
Calcium	Total	mg/L	53.1			0.05
Iron	Total	mg/L	0.473			0.01

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**966770**
Report To:	J. Gibson & Associates	ID:	Silver Range Res.	Control Number:	B14622
	Box 20913	Name:	Keg	Date Received:	Oct 22, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Oct 28, 2013
	Y1A 6P2	LSD:		Report Number:	1868355
Attn:	John Gibson	P.O.:			
Sampled By:	J.Gibson	Acct code:			
Company:					

Reference Number	966770-7
Sample Date	Oct 19, 2013
Sample Time	NA
Sample Location	
Sample Description	Surf / Keg #9
Matrix	Water

Analyte		Units	Results	Results	Results	Nominal Detection Limit
Metals Total - Continued						
Magnesium	Total	mg/L	8.07			0.05
Manganese	Total	mg/L	0.0495			0.005
Potassium	Total	mg/L	1.42			0.1
Silicon	Total	mg/L	5.13			0.05
Sulfur	Total	mg/L	16.6			0.1
Sodium	Total	mg/L	3.00			0.02
Titanium	Total	mg/L	0.0044			0.001
Aluminum	Total	mg/L	0.064			0.005
Antimony	Total	mg/L	0.0002			0.0002
Arsenic	Total	mg/L	0.0019			0.0002
Barium	Total	mg/L	0.070			0.001
Beryllium	Total	mg/L	<0.00004			0.00004
Bismuth	Total	mg/L	<0.0010			0.001
Boron	Total	mg/L	<0.005			0.004
Cadmium	Total	mg/L	0.00006			0.00001
Chromium	Total	mg/L	<0.0004			0.0004
Cobalt	Total	mg/L	0.00014			0.00002
Copper	Total	mg/L	0.001			0.001
Lead	Total	mg/L	<0.0001			0.0001
Lithium	Total	mg/L	0.006			0.001
Molybdenum	Total	mg/L	0.0014			0.0001
Nickel	Total	mg/L	0.002			0.001
Selenium	Total	mg/L	0.0008			0.0006
Silver	Total	mg/L	<0.00001			0.00001
Strontium	Total	mg/L	0.159			0.001
Tellurium	Total	mg/L	<0.0001			0.0001
Thallium	Total	mg/L	<0.00001			0.00001
Thorium	Total	mg/L	<0.0004			0.0004
Tin	Total	mg/L	<0.0001			0.0001
Uranium	Total	mg/L	0.0024			0.0004
Vanadium	Total	mg/L	0.0004			0.0001
Zinc	Total	mg/L	0.004			0.001
Zirconium	Total	mg/L	0.0002			0.0001
Physical and Aggregate Properties						
Solids	Total Suspended	mg/L	7			1
Solids	Total Dissolved	mg/L	180			5

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**966770**
Report To:	J. Gibson & Associates	ID:	Silver Range Res.	Control Number:	B14622
	Box 20913	Name:	Keg	Date Received:	Oct 22, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Oct 28, 2013
	Y1A 6P2	LSD:		Report Number:	1868355
Attn:	John Gibson	P.O.:			
Sampled By:	J.Gibson	Acct code:			
Company:					

		Reference Number	966770-7			
		Sample Date	Oct 19, 2013			
		Sample Time	NA			
		Sample Location				
		Sample Description	Surf / Keg #9			
		Matrix	Water			
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Routine Water						
pH	at 25 °C		7.94			
Electrical Conductivity		µS/cm at 25 C	325			1
Calcium	Dissolved	mg/L	53.4			0.1
Iron	Dissolved	mg/L	0.298			0.005
Magnesium	Dissolved	mg/L	8.18			0.1
Manganese	Dissolved	mg/L	0.040			0.001
Potassium	Dissolved	mg/L	1.3			0.1
Silicon	Dissolved	mg/L	5.05			0.05
Sodium	Dissolved	mg/L	3.0			0.1
Bicarbonate		mg/L	146			5
Carbonate		mg/L	<6			6
Hydroxide		mg/L	<5			5
P-Alkalinity	as CaCO3	mg/L	<5			5
T-Alkalinity	as CaCO3	mg/L	120			5
Chloride	Dissolved	mg/L	0.18			0.05
Nitrate - N	Dissolved	mg/L	0.07			0.01
Nitrite - N	Dissolved	mg/L	<0.01			0.01
Sulfate (SO4)	Dissolved	mg/L	50.5			0.5
Hardness	as CaCO3	mg/L	167			5
Hardness	Total	mg CaCO3/L	166			1

Approved by:

Carol Nam, Dipl. T.
Quality Officer

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Methodology and Notes

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**966770**
Report To:	J. Gibson & Associates	ID:	Silver Range Res.	Control Number:	B14622
	Box 20913	Name:	Keg	Date Received:	Oct 22, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Oct 28, 2013
	Y1A 6P2	LSD:		Report Number:	1868355
Attn:	John Gibson	P.O.:			
Sampled By:	J.Gibson	Acct code:			
Company:					

Method of Analysis

Method Name	Reference		Method	Date Analysis Started	Location
Alk, pH, EC, Turb in water (Surrey)	APHA	*	Alkalinity - Titration Method, 2320 B	23-Oct-13	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	*	Conductivity, 2510 B	23-Oct-13	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	*	pH - Electrometric Method, 4500-H+ B	23-Oct-13	Exova Surrey
Ammonia-N in Water (Surrey)	APHA	*	Flow Injection Analysis, 4500-NH3 H	23-Oct-13	Exova Surrey
Anions by IEC in water (Surrey)	APHA	*	Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	23-Oct-13	Exova Surrey
Carbon Organic (Total) in water (TOC)	APHA		High-Temperature Combustion Method, 5310 B	24-Oct-13	Exova Edmonton
Cyanide (Total) in water	US EPA	*	US EPA method, 335.3	24-Oct-13	Exova Edmonton
Metals SemiTrace (Dissolved) in water (Surrey)	US EPA	*	Metals & Trace Elements by ICP-AES, 6010C	24-Oct-13	Exova Surrey
Metals SemiTrace (Total) in Water (Surrey)	US EPA	*	Metals & Trace Elements by ICP-AES, 6010C	24-Oct-13	Exova Surrey
Phosphorus - total by Smartchem (Surrey)	APHA	*	Preliminary Acid Hydrolysis, Ascorbic Acid Reduction Method, 4500-P B,E	24-Oct-13	Exova Surrey
Solids Dissolved (Total, Fixed and Volatile) - Surrey	APHA	*	Total Dissolved Solids Dried at 180 C, 2540 C	25-Oct-13	Exova Surrey
Solids Suspended (Total, Fixed and Volatile)	APHA	*	Total Suspended Solids Dried at 103-105'C, 2540 D	25-Oct-13	Exova Surrey
Trace Metals (dissolved) in Water (Surrey)	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	24-Oct-13	Exova Surrey
Trace Metals (dissolved) in Water (Surrey)	US EPA	*	Metals & Trace Elements by ICP-AES, 6010C	24-Oct-13	Exova Surrey
Trace Metals (Total) in Water (Surrey)	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	24-Oct-13	Exova Surrey
Trace Metals (Total) in Water (Surrey)	US EPA	*	Metals & Trace Elements by ICP-AES, 6010C	24-Oct-13	Exova Surrey

** Reference Method Modified*

References

APHA	Standard Methods for the Examination of Water and Wastewater
US EPA	US Environmental Protection Agency Test Methods

Comments:

- Some total metal results were less than dissolved metal results for lot 966770. The results were verified and are within expected measurement uncertainty.
- pH analysis was performed past the recommended holding time of 15 minutes from sample collection.

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Methodology and Notes

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	Box 20913	Name:	Keg
	Whitehorse, YT, Canada	Location:	
	Y1A 6P2	LSD:	
Attn:	John Gibson	P.O.:	
Sampled By:	J.Gibson	Acct code:	
Company:			

Lot ID:	**966770**
Control Number:	B14622
Date Received:	Oct 22, 2013
Date Reported:	Oct 28, 2013
Report Number:	1868355

Please direct any inquiries regarding this report to our Client Services group.
Results relate only to samples as submitted.
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Project Information
Project ID: SILVER RANGE RES, KEG.
Project Name:
Project Location:
Legal Location:
PO/AFE#:
Proj. Acct. Code:

Billing Information
Company: J. Gibson & Associates
Address: Whitehorse, YT Y1A 6P2
Attention: John Gibson
Phone: (867) 633-4522
Cell:
Fax: (867) 668-6895
E-mail: ludditegibson@gmail.com
Agreement ID: 6646
Copy of report: X

Copy of Report To:
Company: J. Gibson & Associates
Address: Whitehorse, YT Y1A 6P2
Attention: John Gibson
Phone: (867) 633-4522
Cell:
Fax: (867) 668-6895
E-mail: ludditegibson@gmail.com
Copy of invoice: X

RUSH Priority
Upon filling out this section, client accepts that surcharges will be applied to the analysis.
Date Required
As Indicated | All Analysis
When "ASAP" is requested, turn around will default to a 100% RUSH priority, with pricing and turn around time to match. Please contact the lab prior to submitting RUSH samples.
Signature

Sample Custody (please print)
Sampled by: R. GIBSON
Company:
I authorize Exova to proceed with the work indicated on this form:
Date:

This section for Lab use only
Date/Time stamp: OCT 22 2013 3:45

Report Results
[ ] E-mail [ ] Online [ ] PDF [ ] QA/QC Report
[ ] Mail [ ] Fax [ ] Excel

Special Instructions/Comments (please include contact information including ph. # if different from above)
RCHEM = pH, EC, TP, N_2, N_3, TALK, Cl, SO_4, Hard T, TSS, TDS.
TW23 Field filtered, METALS + NITRIC
TOC + HCL, NH_4 + SULFURIC, TCN + NaOH.

Include Regulatory Requirements Below:

Number of Containers: RCHEM | NH4 | TOC | TW24ew | TW23ew F | TCN

	Sample Identification	Location	Depth IN CM M	Date/Time sampled	Matrix	Sampling Method	↓	Enter tests above (√ relevant samples below)
1								
2	KEG #1	SURF	—	OCT 19 13	H2O	Grab	6	✓ ✓ ✓ ✓ ✓ ✓
3	#2						6	✓ ✓ ✓ ✓ ✓ ✓
4	#3						6	✓ ✓ ✓ ✓ ✓ ✓
5	#4						6	✓ ✓ ✓ ✓ ✓ ✓
6	#5						6	✓ ✓ ✓ ✓ ✓ ✓
7	#6						6	✓ ✓ ✓ ✓ ✓ ✓
8	#9						6	✓ ✓ ✓ ✓ ✓ ✓
9								
10								
11								
12								
13								
14								
15								

Indicate below any deficiencies in the condition of samples:
- Were Exova supplies used?
- Was there any damage to the shipping container?
- Were the containers packaged well?
- Were any extra samples received (document below)?
- Are samples within recommended holding times/temp?

ED 120-00

Environmental Sample Information Sheet
Note: Proper completion of this form is required in order to proceed with analysis
Please indicate any potentially hazardous samples

Page 1 of 1 Control # B14622

LOT: 966770 COC

Shipping: COD Y/N
Cooler temp: 7°C

and size of coolers received:
Delivery Method:
Waybill:
Received by:

Exova
#104, 19575-55 A Ave.
Surrey, British Columbia
V3S 8P8, Canada

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Report Transmission Cover Page

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**973955**
Report To:	J. Gibson & Associates	ID:	Silver Range Resources	Control Number:	B14630
	Box 20913	Name:	Keg	Date Received:	Nov 26, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Dec 3, 2013
	Y1A 6P2	LSD:		Report Number:	1879814
Attn:	John Gibson	P.O.:			
Sampled By:	R.Gibson	Acct code:			
Company:					

Contact & Affiliation	Address	Delivery Commitments
John Gibson J. Gibson & Associates	, Box 20913 Whitehorse, Yukon Territory Y1A 6P2 Phone: (867) 633-4522 Fax: (867) 668-6895 Email: ludditegibson@gmail.com	On [Lot Verification] send (COA) by Email - Single Report On [Report Approval] send (COC, Test Report) by Email - Merge Reports On [Report Approval] send (Test Report) by Email - Single Report On [Lot Approval and Final Test Report Approval] send (Invoice) by Email - Single Report On [Lot Creation] send (COR) by Email - Single Report

Notes To Clients:

- An appropriately preserved sample was not received for total metal analysis of samples 973955-2 to 5. Analysis was performed on unpreserved sample.
- Sample 973955-2; 4604925 pH analysis was performed past the recommended holding time of 15 minutes from sample collection.
- Sample 973955-3; 4604926 pH analysis was performed past the recommended holding time of 15 minutes from sample collection.
- Sample 973955-4; 4604927 pH analysis was performed past the recommended holding time of 15 minutes from sample collection.
- Sample 973955-5; 4604928 pH analysis was performed past the recommended holding time of 15 minutes from sample collection.

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: R.Gibson
Company:

Project:
ID: Silver Range Resources
Name: Keg
Location:
LSD:
P.O.:
Acct code:

Lot ID: **973955**
Control Number: B14630
Date Received: Nov 26, 2013
Date Reported: Dec 3, 2013
Report Number: 1879814

			Reference Number	973955-1	973955-2	973955-3	
			Sample Date	Nov 23, 2013	Nov 23, 2013	Nov 23, 2013	
			Sample Time	NA	NA	NA	
			Sample Location				
			Sample Description	Surf. / Keg #1	Surf. / Keg #3	Surf. / Keg #4	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Inorganic Nonmetallic Parameters							
Organic Carbon	Total Nonpurgeable	mg/L		3.8	4.6	3.5	0.5
Cyanide	Total	mg/L		<0.002	<0.002	<0.002	0.002
Ammonia - N		mg/L		0.02	0.02	0.03	.01
Phosphorus	Total	mg/L			0.004	0.007	0.003
Metals Dissolved							
Sulfur	Dissolved	mg/L		27.6	3.4	23.5	0.2
Aluminum	Dissolved	mg/L		0.007	0.007	<0.005	0.005
Antimony	Dissolved	mg/L		0.0002	<0.0002	<0.0002	0.0002
Arsenic	Dissolved	mg/L		0.0013	0.0009	0.0012	0.0002
Barium	Dissolved	mg/L		0.069	0.061	0.080	0.001
Beryllium	Dissolved	mg/L		<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Dissolved	mg/L		<0.001	<0.001	<0.001	0.001
Boron	Dissolved	mg/L		0.009	<0.004	0.010	0.004
Cadmium	Dissolved	mg/L		0.00008	0.00002	0.00006	0.00001
Chromium	Dissolved	mg/L		<0.0004	<0.0004	<0.0004	0.0004
Cobalt	Dissolved	mg/L		0.00015	0.00011	0.00010	0.00002
Copper	Dissolved	mg/L		<0.001	<0.001	<0.001	0.001
Lead	Dissolved	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Lithium	Dissolved	mg/L		0.005	0.007	0.006	0.001
Molybdenum	Dissolved	mg/L		0.00196	0.00103	0.00225	0.0001
Nickel	Dissolved	mg/L		0.004	0.001	0.002	0.001
Selenium	Dissolved	mg/L		0.0011	<0.0006	0.0012	0.0006
Silver	Dissolved	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Titanium	Dissolved	mg/L		<0.010	0.023	<0.010	0.01
Strontium	Dissolved	mg/L		0.165	0.090	0.168	0.001
Tellurium	Dissolved	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Thallium	Dissolved	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Thorium	Dissolved	mg/L		<0.0004	<0.0004	<0.0004	0.0004
Tin	Dissolved	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Uranium	Dissolved	mg/L		0.0031	0.0035	0.0035	0.0004
Vanadium	Dissolved	mg/L		0.00054	0.00046	0.00079	0.0001
Zinc	Dissolved	mg/L		0.006	0.002	0.002	0.001
Zirconium	Dissolved	mg/L		0.00012	0.00014	<0.00010	0.0001
Metals Total							
Mercury	Total	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Aluminum	Total	mg/L		0.024	0.021	0.019	0.005

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: R.Gibson
Company:

Project:
ID: Silver Range Resources
Name: Keg
Location:
LSD:
P.O.:
Acct code:

Lot ID: **973955**
Control Number: B14630
Date Received: Nov 26, 2013
Date Reported: Dec 3, 2013
Report Number: 1879814

			Reference Number	973955-1	973955-2	973955-3	
			Sample Date	Nov 23, 2013	Nov 23, 2013	Nov 23, 2013	
			Sample Time	NA	NA	NA	
			Sample Location				
			Sample Description	Surf. / Keg #1	Surf. / Keg #3	Surf. / Keg #4	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Total - Continued							
Antimony	Total	mg/L		<0.0002	<0.0002	<0.0002	0.0001
Arsenic	Total	mg/L		0.00143	0.00094	0.00158	0.00005
Barium	Total	mg/L		0.0743	0.0641	0.0806	0.00005
Beryllium	Total	mg/L		<0.00010	<0.00010	<0.00010	0.00005
Bismuth	Total	mg/L		<0.0002	<0.0002	<0.0002	0.0001
Boron	Total	mg/L		0.009	<0.004	0.009	.002
Cadmium	Total	mg/L		0.00009	0.00003	0.00006	0.00001
Calcium	Total	mg/L		75.7	29.5	73.2	0.05
Chromium	Total	mg/L		<0.0010	<0.0010	<0.0010	0.0005
Cobalt	Total	mg/L		<0.0002	<0.0002	<0.0002	0.0001
Copper	Total	mg/L		0.0017	0.0014	0.0012	0.0001
Iron	Total	mg/L		0.091	0.170	0.174	0.002
Lead	Total	mg/L		<0.0002	<0.0002	<0.0002	0.0001
Lithium	Total	mg/L		0.0056	0.0075	0.0060	0.0005
Magnesium	Total	mg/L		8.66	4.28	8.92	0.04
Manganese	Total	mg/L		0.012	0.0441	0.0378	0.001
Molybdenum	Total	mg/L		0.00213	0.00106	0.00235	0.00005
Nickel	Total	mg/L		0.0028	0.0009	0.0009	0.0002
Potassium	Total	mg/L		2.4	0.8	2.6	0.1
Selenium	Total	mg/L		0.0016	0.0003	0.0015	0.0001
Silicon	Total	mg/L		6.11	6.65	6.20	0.02
Silver	Total	mg/L		<0.00010	<0.00010	<0.00010	0.00005
Sodium	Total	mg/L		3.8	2.6	4.0	0.1
Strontium	Total	mg/L		0.169	0.0862	0.162	0.0001
Thallium	Total	mg/L		<0.00002	<0.00002	<0.00002	0.00001
Thorium	Total	mg/L		<0.00002	<0.00002	<0.00002	0.00001
Tin	Total	mg/L		<0.0002	<0.0002	<0.0002	0.0001
Titanium	Total	mg/L		<0.0010	<0.0010	<0.0010	0.0005
Uranium	Total	mg/L		0.00332	0.00384	0.00384	0.00001
Vanadium	Total	mg/L		<0.0002	0.0004	0.0004	0.0001
Zinc	Total	mg/L		0.0076	0.0022	0.0079	0.0005
Zirconium	Total	mg/L		<0.0010	<0.0010	<0.0010	0.0005
Routine Water							
pH	at 25 °C				7.45	7.81	
Electrical Conductivity		µS/cm at 25 C			174	400	1
Calcium	Dissolved	mg/L		83.1	34.2	85.3	0.1

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**973955**
Report To:	J. Gibson & Associates	ID:	Silver Range Resources	Control Number:	B14630
	Box 20913	Name:	Keg	Date Received:	Nov 26, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Dec 3, 2013
	Y1A 6P2	LSD:		Report Number:	1879814
Attn:	John Gibson	P.O.:			
Sampled By:	R.Gibson	Acct code:			
Company:					

			Reference Number	973955-1	973955-2	973955-3	
			Sample Date	Nov 23, 2013	Nov 23, 2013	Nov 23, 2013	
			Sample Time	NA	NA	NA	
			Sample Location				
			Sample Description	Surf. / Keg #1	Surf. / Keg #3	Surf. / Keg #4	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Routine Water - Continued							
Iron	Dissolved	mg/L		0.034	0.131	0.085	0.005
Magnesium	Dissolved	mg/L		9.75	4.99	10.5	0.1
Manganese	Dissolved	mg/L		0.009	0.039	0.036	0.001
Potassium	Dissolved	mg/L		2.6	0.9	2.9	0.1
Silicon	Dissolved	mg/L		5.56	6.21	5.74	0.05
Sodium	Dissolved	mg/L		3.8	2.9	4.1	0.1
Bicarbonate		mg/L			104	193	5
Carbonate		mg/L			<6	<6	6
Hydroxide		mg/L			<5	<5	5
P-Alkalinity	as CaCO3	mg/L			<5	<5	5
T-Alkalinity	as CaCO3	mg/L			85	158	5
Chloride	Dissolved	mg/L			0.10	0.25	0.05
Nitrate - N	Dissolved	mg/L			0.06	0.16	0.01
Nitrite - N	Dissolved	mg/L			<0.01	<0.01	0.01
Sulfate (SO4)	Dissolved	mg/L			9.2	69.4	0.5
Hardness	as CaCO3	mg/L		248	106	256	5
Hardness	Total	mg CaCO3/L			101	237	1

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Report To:	J. Gibson & Associates	ID:	Silver Range Resources	Control Number:	B14630
	Box 20913	Name:	Keg	Date Received:	Nov 26, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Dec 3, 2013
	Y1A 6P2	LSD:		Report Number:	1879814
Attn:	John Gibson	P.O.:			
Sampled By:	R.Gibson	Acct code:			
Company:					

			Reference Number	973955-2	973955-3	973955-4	
			Sample Date	Nov 23, 2013	Nov 23, 2013	Nov 23, 2013	
			Sample Time	NA	NA	NA	
			Sample Location				
			Sample Description	Surf. / Keg #3	Surf. / Keg #4	Surf. / Keg #6	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Physical and Aggregate Properties							
Solids	Total Suspended	mg/L		<2	<2	6	1
Solids	Total Dissolved	mg/L		102	258	256	5

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Report To:	J. Gibson & Associates	ID:	Silver Range Resources	Control Number:	B14630
	Box 20913	Name:	Keg	Date Received:	Nov 26, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Dec 3, 2013
	Y1A 6P2	LSD:		Report Number:	1879814
Attn:	John Gibson	P.O.:			
Sampled By:	R.Gibson	Acct code:			
Company:					

			Reference Number	973955-4	973955-5		
			Sample Date	Nov 23, 2013	Nov 23, 2013		
			Sample Time	NA	NA		
			Sample Location				
			Sample Description	Surf. / Keg #6	Surf. / Keg #9		
			Matrix	Water	Water		
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Inorganic Nonmetallic Parameters							
Organic Carbon	Total Nonpurgeable	mg/L		3.7	4.0		0.5
Cyanide	Total	mg/L		<0.002	<0.002		0.002
Ammonia - N		mg/L		0.06	0.04		.01
Phosphorus	Total	mg/L		0.004	0.006		0.003

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Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: R.Gibson
Company:

Project:
ID: Silver Range Resources
Name: Keg
Location:
LSD:
P.O.:
Acct code:

Lot ID: **973955**
Control Number: B14630
Date Received: Nov 26, 2013
Date Reported: Dec 3, 2013
Report Number: 1879814

		Reference Number	973955-4	973955-5	973955-6	
		Sample Date	Nov 23, 2013	Nov 23, 2013	Nov 23, 2013	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	Surf. / Keg #6	Surf. / Keg #9	Surf. / Keg #1 Duplicate	
		Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Dissolved						
Sulfur	Dissolved	mg/L	62.1	18.0	27.7	0.2
Aluminum	Dissolved	mg/L	0.157	<0.005	0.008	0.005
Antimony	Dissolved	mg/L	0.0005	0.0002	0.0002	0.0002
Arsenic	Dissolved	mg/L	0.0010	0.0009	0.0012	0.0002
Barium	Dissolved	mg/L	0.063	0.084	0.070	0.001
Beryllium	Dissolved	mg/L	0.00007	<0.00004	<0.00004	0.00004
Bismuth	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Boron	Dissolved	mg/L	<0.004	0.005	0.009	0.004
Cadmium	Dissolved	mg/L	0.00015	0.00005	0.00008	0.00001
Chromium	Dissolved	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Cobalt	Dissolved	mg/L	0.00378	0.00011	0.00015	0.00002
Copper	Dissolved	mg/L	0.003	<0.001	<0.001	0.001
Lead	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Lithium	Dissolved	mg/L	0.008	0.006	0.005	0.001
Molybdenum	Dissolved	mg/L	0.00019	0.00148	0.00198	0.0001
Nickel	Dissolved	mg/L	0.042	0.002	0.004	0.001
Selenium	Dissolved	mg/L	<0.0006	<0.0006	0.0011	0.0006
Silver	Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Titanium	Dissolved	mg/L	0.018	<0.010	<0.010	0.01
Strontium	Dissolved	mg/L	0.111	0.183	0.171	0.001
Tellurium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium	Dissolved	mg/L	0.00002	<0.00001	<0.00001	0.00001
Thorium	Dissolved	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Uranium	Dissolved	mg/L	<0.0004	0.0023	0.0029	0.0004
Vanadium	Dissolved	mg/L	0.00017	0.00061	0.00055	0.0001
Zinc	Dissolved	mg/L	0.092	0.003	0.006	0.001
Zirconium	Dissolved	mg/L	0.00016	<0.00010	0.00010	0.0001
Metals Total						
Mercury	Total	mg/L	<0.00001	<0.00001		0.00001
Aluminum	Total	mg/L	0.288	0.030	0.022	0.005
Antimony	Total	mg/L	0.0004	<0.0002	<0.0002	0.0001
Arsenic	Total	mg/L	0.00171	0.00120	0.00146	0.00005
Barium	Total	mg/L	0.0695	0.0944	0.0756	0.00005
Beryllium	Total	mg/L	<0.00010	<0.00010	<0.00010	0.00005
Bismuth	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0001

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Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
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Y1A 6P2
Attn: John Gibson
Sampled By: R.Gibson
Company:

Project:
ID: Silver Range Resources
Name: Keg
Location:
LSD:
P.O.:
Acct code:

Lot ID: **973955**
Control Number: B14630
Date Received: Nov 26, 2013
Date Reported: Dec 3, 2013
Report Number: 1879814

			Reference Number	973955-4	973955-5	973955-6	
			Sample Date	Nov 23, 2013	Nov 23, 2013	Nov 23, 2013	
			Sample Time	NA	NA	NA	
			Sample Location				
			Sample Description	Surf. / Keg #6	Surf. / Keg #9	Surf. / Keg #1 Duplicate	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Total - Continued							
Boron	Total	mg/L		<0.004	0.004	0.008	.002
Cadmium	Total	mg/L		0.00018	0.00008	0.00009	0.00001
Calcium	Total	mg/L		76.8	67.4	77.8	0.05
Chromium	Total	mg/L		<0.0010	<0.0010	<0.0010	0.0005
Cobalt	Total	mg/L		0.0041	<0.0002	<0.0002	0.0001
Copper	Total	mg/L		0.0094	0.0027	0.0021	0.0001
Iron	Total	mg/L		5.37	0.213	0.089	0.002
Lead	Total	mg/L		<0.0002	<0.0002	<0.0002	0.0001
Lithium	Total	mg/L		0.0083	0.0064	0.0055	0.0005
Magnesium	Total	mg/L		5.70	9.75	8.94	0.04
Manganese	Total	mg/L		0.132	0.0568	0.012	0.001
Molybdenum	Total	mg/L		0.00021	0.00164	0.00212	0.00005
Nickel	Total	mg/L		0.0440	0.0012	0.0030	0.0002
Potassium	Total	mg/L		1.4	1.6	2.4	0.1
Selenium	Total	mg/L		0.0010	0.0008	0.0017	0.0001
Silicon	Total	mg/L		5.78	6.28	6.25	0.02
Silver	Total	mg/L		<0.00010	<0.00010	<0.00010	0.00005
Sodium	Total	mg/L		1.4	3.7	3.9	0.1
Strontium	Total	mg/L		0.113	0.193	0.169	0.0001
Thallium	Total	mg/L		0.00003	<0.00002	<0.00002	0.00001
Thorium	Total	mg/L		<0.00002	<0.00002	<0.00002	0.00001
Tin	Total	mg/L		<0.0002	<0.0002	<0.0002	0.0001
Titanium	Total	mg/L		<0.0010	0.0013	<0.0010	0.0005
Uranium	Total	mg/L		0.00006	0.00273	0.00347	0.00001
Vanadium	Total	mg/L		0.0003	0.0003	0.0003	0.0001
Zinc	Total	mg/L		0.0997	0.0046	0.0074	0.0005
Zirconium	Total	mg/L		<0.0010	<0.0010	<0.0010	0.0005
Routine Water							
pH	at 25 °C			6.71	7.32		
Electrical Conductivity		µS/cm at 25 C		388	347		1
Calcium	Dissolved	mg/L		82.6	70.9	76.4	0.1
Iron	Dissolved	mg/L		4.27	0.104	0.046	0.005
Magnesium	Dissolved	mg/L		6.40	10.5	8.98	0.1
Manganese	Dissolved	mg/L		0.125	0.049	0.009	0.001
Potassium	Dissolved	mg/L		1.5	1.6	2.6	0.1
Silicon	Dissolved	mg/L		5.13	5.37	5.58	0.05

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**973955**
Report To:	J. Gibson & Associates	ID:	Silver Range Resources	Control Number:	B14630
	Box 20913	Name:	Keg	Date Received:	Nov 26, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Dec 3, 2013
	Y1A 6P2	LSD:		Report Number:	1879814
Attn:	John Gibson	P.O.:			
Sampled By:	R.Gibson	Acct code:			
Company:					

		Reference Number	973955-4	973955-5	973955-6	
		Sample Date	Nov 23, 2013	Nov 23, 2013	Nov 23, 2013	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	Surf. / Keg #6	Surf. / Keg #9	Surf. / Keg #1 Duplicate	
		Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Routine Water - Continued						
Sodium	Dissolved	mg/L	1.6	3.6	3.7	0.1
Bicarbonate		mg/L	32	173		5
Carbonate		mg/L	<6	<6		6
Hydroxide		mg/L	<5	<5		5
P-Alkalinity	as CaCO3	mg/L	<5	<5		5
T-Alkalinity	as CaCO3	mg/L	26	142		5
Chloride	Dissolved	mg/L	0.17	0.61		0.05
Nitrate - N	Dissolved	mg/L	0.13	0.18		0.01
Nitrite - N	Dissolved	mg/L	<0.01	<0.01		0.01
Sulfate (SO4)	Dissolved	mg/L	180	52.4		0.5
Hardness	as CaCO3	mg/L	233	220	228	5
Hardness	Total	mg CaCO3/L	222	208		1

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**973955**
Report To:	J. Gibson & Associates	ID:	Silver Range Resources	Control Number:	B14630
	Box 20913	Name:	Keg	Date Received:	Nov 26, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Dec 3, 2013
	Y1A 6P2	LSD:		Report Number:	1879814
Attn:	John Gibson	P.O.:			
Sampled By:	R.Gibson	Acct code:			
Company:					

Reference Number	973955-5
Sample Date	Nov 23, 2013
Sample Time	NA
Sample Location	
Sample Description	Surf. / Keg #9
Matrix	Water

Analyte		Units	Results	Results	Results	Nominal Detection Limit
Physical and Aggregate Properties						
Solids	Total Suspended	mg/L	<2			1
Solids	Total Dissolved	mg/L	206			5

Approved by:

Mathieu Simoneau
Operations Manager

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Methodology and Notes

Bill To:	J. Gibson & Associates	Project:	
Report To:	J. Gibson & Associates	ID:	Silver Range Resources
	Box 20913	Name:	Keg
	Whitehorse, YT, Canada	Location:	
	Y1A 6P2	LSD:	
Attn:	John Gibson	P.O.:	
Sampled By:	R.Gibson	Acct code:	
Company:			

Lot ID:	**973955**
Control Number:	B14630
Date Received:	Nov 26, 2013
Date Reported:	Dec 3, 2013
Report Number:	1879814

Method of Analysis

Method Name	Reference		Method	Date Analysis Started	Location
Alk, pH, EC, Turb in water (Surrey)	APHA	*	Alkalinity - Titration Method, 2320 B	28-Nov-13	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	*	Conductivity, 2510 B	28-Nov-13	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	*	pH - Electrometric Method, 4500-H+ B	28-Nov-13	Exova Surrey
Ammonia-N in Water (Surrey)	APHA	*	Flow Injection Analysis, 4500-NH3 H	29-Nov-13	Exova Surrey
Anions by IEC in water (Surrey)	APHA	*	Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	28-Nov-13	Exova Surrey
BC ICP-MS Total Metals in Water	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	29-Nov-13	Exova Edmonton
BC Trace Total Metals in Water	APHA	*	Inductively Coupled Plasma (ICP) Method, 3120 B	29-Nov-13	Exova Edmonton
Carbon Organic (Total) in water (TOC)	APHA		High-Temperature Combustion Method, 5310 B	29-Nov-13	Exova Edmonton
Cyanide (Total) in water	US EPA	*	US EPA method, 335.3	02-Dec-13	Exova Edmonton
Mercury Low Level (Total) in water (Surrey)	EPA	*	Mercury in Water by Cold Vapor Atomic Fluorescence Spectrometry, 245.7	27-Nov-13	Exova Surrey
Metals SemiTrace (Dissolved) in water (Surrey)	US EPA	*	Metals & Trace Elements by ICP-AES, 6010C	27-Nov-13	Exova Surrey
Phosphorus - total by Smartchem (Surrey)	APHA	*	Preliminary Acid Hydrolysis, Ascorbic Acid Reduction Method, 4500-P B,E	28-Nov-13	Exova Surrey
Solids Dissolved (Total, Fixed and Volatile) - Surrey	APHA	*	Total Dissolved Solids Dried at 180 C, 2540 C	28-Nov-13	Exova Surrey
Solids Suspended (Total, Fixed and Volatile)	APHA	*	Total Suspended Solids Dried at 103-105'C, 2540 D	28-Nov-13	Exova Surrey
Trace Metals (dissolved) in Water (Surrey)	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	27-Nov-13	Exova Surrey
Trace Metals (dissolved) in Water (Surrey)	US EPA	*	Metals & Trace Elements by ICP-AES, 6010C	27-Nov-13	Exova Surrey

** Reference Method Modified*

References

APHA	Standard Methods for the Examination of Water and Wastewater
US EPA	US Environmental Protection Agency Test Methods

Comments:

- An appropriately preserved sample was not received for total metal analysis of samples 973955-2 to 5. Analysis was performed on unpreserved sample.
- Sample 973955-2; 4604925 pH analysis was performed past the recommended holding time of 15 minutes from sample collection.
- Sample 973955-3; 4604926 pH analysis was performed past the recommended holding time of 15 minutes from sample collection.
- Sample 973955-4; 4604927 pH analysis was performed past the recommended holding time of 15 minutes from sample collection.
- Sample 973955-5; 4604928 pH analysis was performed past the recommended holding time of 15 minutes from sample collection.

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Methodology and Notes

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**973955**
Report To:	J. Gibson & Associates	ID:	Silver Range Resources	Control Number:	B14630
	Box 20913	Name:	Keg	Date Received:	Nov 26, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Dec 3, 2013
	Y1A 6P2	LSD:		Report Number:	1879814
Attn:	John Gibson	P.O.:			
Sampled By:	R.Gibson	Acct code:			
Company:					

Please direct any inquiries regarding this report to our Client Services group.
Results relate only to samples as submitted.
The test report shall not be reproduced except in full, without the written approval of the laboratory.

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Project Information

Project ID: SILVERRANGE RESOURCES
Project Name: KEG.
Project Location:
Legal Location:
PO/AFE#:
Proj. Acct. Code:

Billing Information

Company: J. Gibson & Associates
Address: Whitehorse, YT Y1A 6P2
Attention: John Gibson
Phone: (867) 633-4522
Cell:
Fax: (867) 668-6895
E-mail: ludditegibson@gmail.com
Agreement ID: 6646
Copy of report: X

Copy of Report To:

Company: J. Gibson & Associates
Address: Whitehorse, YT Y1A 6P2
Attention: John Gibson
Phone: (867) 633-4522
Cell:
Fax: (867) 668-6895
E-mail: ludditegibson@gmail.com
Copy of invoice: X

RUSH Priority

Upon filling out this section, client accepts that surcharges will be applied to the analysis

Date Required
As Indicated | All Analysis

When "ASAP" is requested, turn around will default to a 100% RUSH priority, with pricing and turn around time to match. Please contact the lab prior to submitting RUSH samples.

Signature

Report Results: E-mail / Mail / Online / Fax / PDF / Excel / QA/QC Report

Special Instructions/Comments (please include contact information including ph. # if different from above).
RCHEM = PH, EC, TP, N2, N3, TALK, THARD, Cl, SO4, TSS, TDS.
TW23 Field filtered
METALS + NITRIC
TCN + NaOH, THg + HCl, TOC + HCl, NH4 + SULFURIC

Include Regulatory Requirements Below:

Sample Custody (please print)

Sampled by: R GIBSON
Company: —
I authorize Exova to proceed with the work indicated on this form:
Date: NOV 24/13 Initial: JG.

This section for Lab use only

Date/Time stamp: RECEIVED NOV 26 2013 4.8

Indicate below any deficiencies in the condition of samples:

	Sample Identification	Location	Depth IN CM M	Date/Time sampled	Matrix	Sampling Method	Number of Containers ↓	RCHEM	TOC	NH4	TW23ew F	TW24ew		TCN	THg
1															
2	KEG #1		SURF.	NOV 23/13	H2O	Grab	7		✓	✓	✓	✓		✓	✓
3															
4	#3			↓	↓	↓	8	✓	✓	✓	✓	✓		✓	✓
5															
6	#4						8	✓	✓	✓	✓	✓		✓	✓
7															
8	#6						8	✓	✓	✓	✓	✓		✓	✓
9															
10	#9						8	✓	✓	✓	✓	✓		✓	✓
11															
12	KEG #1 DUPLICATE						2				✓	✓			
13															
14															
15															

Enter tests above (√ relevant samples below)

Were Exova supplies used?
Was there any damage to the shipping container?
Were the containers packaged well?
Were any extra samples received (document below)?
Are samples within recommended holding times/temp?

* NOTE: NO KEG #1 RICHEM - LOST SOMEWHERE *

Environmental Sample Information Sheet

Note: Proper completion of this form is required in order to proceed with analysis

Please indicate any potentially hazardous samples

Page 1 of 1 Control # B14630

LOT: 973955 COC

Shipping:
COD Y/N
Cooler temp:

and size of coolers received:
Delivery Method:
Waybill:
Received by:

ED 120-00

APPENDIX 2

Flow Volume Calculations

October and November 2013

Stage Discharge Calculations

Project: **Silver Range - Keg Claims** **Date:** **19-Oct-13**

Site: **Keg #1**

Point (m)	Depth (meters)	Width (meters)	Velocity (m/sec)	Area (m sq)	Volume (cms)
2.2	0	0.1	0	0	0.0000
2.4	0.19	0.2	0.59	0.038	0.0224
2.6	0.2	0.2	0.603	0.04	0.0241
2.8	0.22	0.2	0.805	0.044	0.0354
3	0.26	0.2	0.885	0.052	0.0460
3.2	0.3	0.2	0.929	0.06	0.0557
3.4	0.32	0.2	0.787	0.064	0.0504
3.6	0.32	0.2	0.603	0.064	0.0386
3.8	0.26	0.2	0.725	0.052	0.0377
4	0.2	0.2	0.661	0.04	0.0264
4.2	0.22	0.2	0.645	0.044	0.0284
4.4	0.25	0.2	0.631	0.05	0.0316
4.6	0.21	0.2	0.497	0.042	0.0209
4.8	0.12	0.2	0.677	0.0240	0.0162
5	0.16	0.2	0.387	0.032	0.0124
5.2	0.08	0.2	0.631	0.016	0.0101
5.4	0.1	0.2	0.453	0.02	0.0091
5.6	0.08	0.2	0.189	0.016	0.0030
5.8	0.02	0.15	0	0.003	0.0000
5.9	0	0.05	0	0	0.0000
3.7		**3.7**			**0.468**

All velocity readings at 0.6 depth

Staff Gauge 0.080 m@ 1025 hrs

Data logger reading: pulled late September

Channel under ice? no surface or anchor ice

Method: Price Velocity meter#2/ TS Wading Rod

Measurement By: G.Ford

Stage Discharge Calculations

Project: Silver Range - Keg Claims **Date:** 19-Oct-13
Site: Keg #3

Point (m)	Depth (meters)	Width (meters)	Velocity (m/sec)	Area (m sq)	Volume (cms)
0.7	0	0.1	0	0	0.0000
0.9	0.05	0.2	0	0.01	0.0000
1.1	0.1	0.2	0.434	0.02	0.0087
1.3	0.16	0.2	0.215	0.032	0.0069
1.5	0.17	0.2	0.304	0.034	0.0103
1.7	0.18	0.2	0.274	0.036	0.0099
1.9	0.18	0.2	0.396	0.036	0.0143
2.1	0.25	0.2	0.379	0.05	0.0190
2.3	0.25	0.2	0.341	0.05	0.0171
2.5	0.22	0.2	0.434	0.044	0.0191
2.7	0.28	0.2	0.425	0.056	0.0238
2.9	0.3	0.2	0.485	0.06	0.0291
3.1	0.28	0.2	0.318	0.056	0.0178
3.3	0.28	0.2	0.425	0.056	0.0238
3.5	0.2	0.2	0.497	0.04	0.0199
3.7	0.18	0.2	0.539	0.036	0.0194
3.9	0.14	0.2	0.434	0.028	0.0122
4.1	0.16	0.2	0.298	0.032	0.0095
4.3	0.15	0.2	0.211	0.03	0.0063
4.5	0.13	0.2	0.257	0.026	0.0067
4.7	0.15	0.2	0.173	0.03	0.0052
4.9	0.15	0.175	0.333	0.026	0.0087
5.05	0	0.075	0	0	0.0000
4.35		**4.35**			**0.2875**

All velocity readings at 0.6 depth

no Staff Gauge

Data logger reading: no logger

minor shore ice? channel Ice free

Method: Price Velocity meter#2/ TS Wading Rod

Measurement By: R.Gibson

Stage Discharge Calculations

Project: **Silver Range - Keg Claims** **Date:** **19-Oct-13**

Site: **Keg #6**

Point (m)	Depth (meters)	Width (meters)	Velocity (m/sec)	Area (m sq)	Volume (cms)
0.6	0	0.03	0	0	0.0000
0.66	0.14	0.075	0.434	0.0105	0.0046
0.75	0.15	0.095	0.348	0.01425	0.0050
0.85	0.08	0.1	0.304	0.008	0.0024
0.95	0.03	0.1	0.269	0.003	0.0008
1.05	0.05	0.1	0.075	0.005	0.0004
1.15	0.04	0.1	0.089	0.004	0.0004
1.25	0.05	0.125	0.057	0.00625	0.0004
1.4	0	0.075	0	0	0.0000
0.8		0.8			**0.0138**

All velocity readings at 0.6 depth

no Staff Gauge

Data logger reading: no logger

Channel under ice? channel Ice free

Method: Price Velocity meter #2/ TS Wading Rod

Measurement By: G.Ford

Stage Discharge Calculations

Project: **Silver Range - Keg Claims** **Date:** **23-Nov-13**

Site: **Keg #1**

Point (m)	Depth (meters)	Width (meters)	Velocity (m/sec)	Area (m sq)	Volume (cms)
2.5	0	0.05	0	0	0.0000
2.6	0.12	0.15	0.497	0.018	0.0089
2.8	0.13	0.2	0.565	0.026	0.0147
3	0.12	0.2	0.543	0.024	0.0130
3.2	0.18	0.2	0.752	0.036	0.0271
3.4	0.2	0.2	0.645	0.04	0.0258
3.6	0.26	0.2	0.645	0.052	0.0335
3.8	0.24	0.2	0.325	0.048	0.0156
4	0.19	0.2	0.453	0.038	0.0172
4.2	0.12	0.2	0.13	0.024	0.0031
4.4	0.14	0.2	0.603	0.028	0.0169
4.6	0.1	0.2	0.409	0.02	0.0082
4.8	0.14	0.2	0.085	0.028	0.0024
5	0.1	0.2	0.409	0.02	0.0082
5.2	0.06	0.2	0.485	0.012	0.0058
5.4	0.05	0.2	0.155	0.01	0.0016
5.6	0.04	0.15	0.211	0.006	0.0013
5.7	0	0.05	0	0	0.0000
3.2		**3.2**			**0.203**

All velocity readings at 0.6 depth

Staff Gauge No reading - under ice

Data logger reading: pulled late September

Channel under ice? 50% ice cover, 2 cm thickness

Method: Price Velocity meter#2/ TS Wading Rod

Measurement By: R.Gibson

Silver Range Resources

REBEL/SNAP/HAMMER CLAIMS

Baseline Water Quality / Hydrology Survey

Environmental Data Update

September, 2013

J.Gibson Env. Consulting *Whitehorse, Yukon*

Silver Range Resources baseline water quality / hydrology surveys of the REBEL, SNAP and HAMMER Claims surface waters continued in September, 2013.

Water quality / hydrology surveys of the SNAP and HAMMER Claims were started October 18, 2012. Surveys of the REBEL Claims started in August 2010.

The sites are located in the Anvil Range approximately 30 kilometers north of Faro, Yukon and 15 kilometers north of the former Faro Mine.

The REBEL Claims are located on tributaries to Anvil Creek and Rose Creeks.

The SNAP Claims are located on tributaries to Blind Creek.

The HAMMER Claims are located on tributaries to Rose Creek.

All surface waters are tributaries to the Pelly River.

All survey sites were accessed by helicopter.

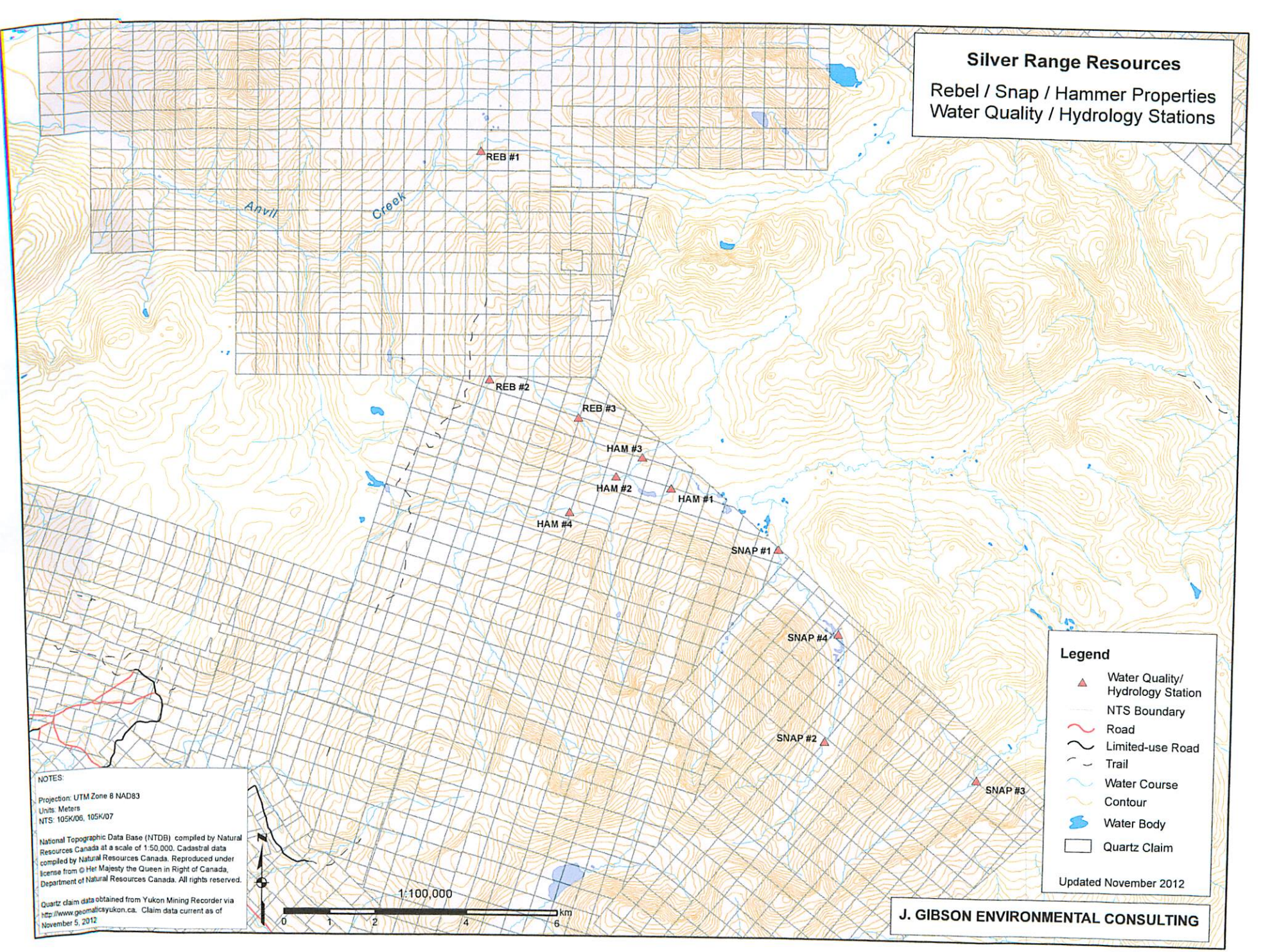
The baseline survey consisted of water quality samples for routine chemistry, total metals, dissolved metals, total organic carbon, total cyanide and total mercury with field measurements for pH, water temperature and flow volume.

Sample Locations

Three sample sites were established on the REBEL Claims during the initial survey in August 2010.

Four sites were established on each of the SNAP and HAMMER Claims in October 2012.

All sites are on the attached location map.


Silver Range Resources
Rebel / Snap / Hammer Properties
Water Quality / Hydrology Stations
REB #1
Anvil Creek
REB #2
REB #3
HAM #3
HAM #2
HAM #1
HAM #4
SNAP #1
SNAP #4
SNAP #2
SNAP #3
Legend
Water Quality/ Hydrology Station
NTS Boundary
Road
Limited-use Road
Trail
Water Course
Contour
Water Body
Quartz Claim
Updated November 2012
NOTES:
Projection: UTM Zone 8 NAD83
Units: Meters
NTS: 105K/06, 105K/07
National Topographic Data Base (NTDB) compiled by Natural Resources Canada at a scale of 1:50,000. Cadastral data compiled by Natural Resources Canada. Reproduced under license from © Her Majesty the Queen in Right of Canada, Department of Natural Resources Canada. All rights reserved.
Quartz claim data obtained from Yukon Mining Recorder via http://www.geomaticsyukon.ca. Claim data current as of November 5, 2012
N
1:100,000
0 1 2 4 6 km
J. GIBSON ENVIRONMENTAL CONSULTING

REBEL Claim sample station designations and coordinates are:

Station #	Lat/Long Coordinates	Elevation(m)
REB #1	62 27 42.8N / 133 13 32.8W	1305
REB #2	62 24 58.7N / 133 13 26.1W	1425
REB #3	62 24 30.3N / 133 11 12.1W	1365

SNAP Claims station designations and coordinates are:

Station #	Lat/Long Coordinates	Elevation(m)
SNAP #1	62 22 52.6N / 133 6 13W	
SNAP #2	62 20 34.9N / 133 5 5.4 W	
SNAP #3	62 20 7 N / 133 1 17.1 W	
SNAP #4	62 22 21.1N / 133 06 90.6W **NEW LOCATION**	

HAMMER Claims station designations and coordinates are:

Station #	Lat/Long Coordinates	Elevation(m)
HAM#1	62 23 37.9N / 133 8 53.9W	
HAM #2	62 23 47.3N / 133 10 16.9W	
HAM #3	62 24 0.7N / 133 9 36.6W	
HAM #4	62 23 22.1N / 133 11 28.1W	

Station SNAP#4 was relocated from the right fork (looking downstream) among the beaver dams to the left fork approximately 1 km upstream of the fork's confluence. The original site was unsuitable for flow measurements as the beaver activity was modifying channels and the left fork stream channel behind the HAMMER required coverage. The site map will be modified for the December report.

Station coordinates and elevations are for helicopter landing sites. Due to the topography and thick vegetation it was often necessary to located landing sites up to100 meters from sample sites.

Sample Analysis Parameters

All REBEL, SNAP and HAMMER Stations were sampled for total metals, dissolved metals and routine chemistry, total organic carbon, total cyanide and total mercury.

Dissolved metals samples were filtered onsite using disposable 60 ml syringes and 0.45 micron filters. New syringes and filters were used for each station.

Total and dissolved metal samples were preserved with nitric acid immediately after sampling.

All samples were stored in coolers, kept at 4 Celsius and shipped by air cargo to the Exova Canada Inc. laboratory in Surrey B.C. for analysis within recommended holding times.

Field measurements for pH, conductivity, total dissolved solids were taken with an Oakton PCS TestR 35, water temperatures with a digital thermometer.

Sample Frequency

All REBEL, SNAP and HAMMER stations are on a quarterly sample frequency.

Flow Volume Measurements

Stream flow volumes were measured with a Price AA velocity meter and cross sectional area calculations. All channels were ice free and mid to low stage summer flow volumes. Channels in mid stage flow were responding to early season snow fall / melt and rainfall precipitation.

Measured stream flow volumes are listed with Routine Chemistry and in a flow summary table for each project.

Stream flow volume data/calculations are attached in Appendix 2.

Analysis Results

Laboratory analysis and field measurement results are listed in the following tables:

Table 1. REBEL Stations September 2013 Routine Chemistry – laboratory analysis and field measurements.

Table 2. REBEL Stations September 2013 Total Metals ICP–MS laboratory analysis results

Table 3. REBEL Stations September 2013 Dissolved Metals ICP–MS laboratory analysis results

Table 4. REBEL/SNAP/HAMMER Stations Flow Volume Summary 2010- 2013.

Table 5. SNAP Stations September 2013 Routine Chemistry – laboratory analysis and field measurements

Table 6. SNAP Stations September 2013 Total Metals ICP–MS laboratory analysis results

Table 7. SNAP Stations September 2013 Dissolved Metals ICP-MS laboratory analysis Results

Table 8. SNAP Quality Control Duplicate Dissolved Metals Sample at SNAP#3, lab analysis results

Table 9. HAMMER Stations September 2013 Routine Chemistry – laboratory analysis and field measurements

Table 10. HAMMER Stations September 2013 Total Metals ICP–MS laboratory analysis results.

Table 11. HAMMER Stations September 2013 Dissolved Metals ICP-MS laboratory analysis results

Table 12. HAMMER Quality Control samples analysis results for Station HAM #2.

As a guide for reviewing site water quality, the Maximum Acceptable Concentration (MAC) according to ***Canadian Drinking Water Quality*** are listed along with the Aquatic Guidelines for the protection of aquatic life in water with a pH of > 6.5 and a total hardness as CaC03 > 180 mg/L according to ***CCME – Canadian Water Quality Guidelines.***
All water quality ***Guideline*** concentrations are based on total metal values.

All laboratory analysis was done by Exova Canada Inc of Surrey B.C.

Laboratory Analytical Reports are attached in Appendix 1.

Data Summaries for REBEL, SNAP and HAMMER stations are on the attached Excel disc.

Quality Control

Quality control samples were taken at SNAP #3 for total metals and HAM #2 for total and dissolved metals.

Discussion

Hydrology

All water quality / hydrology stations were in low to mid stage summer flow conditions. All stations were ice free.

Flow volume measurements were done on all stations with exception of REBEL #3, SNAP #3 and #4 and Hammer #1.

Table 1. Silver Range Resources - REBEL Claims, September 2013.
Routine Chemistry and Field Measurement Results

Parameter	Unit	STATIONS REB #1	REB #2	REB #3	DWQ* G.lines	Aquatic** G.lines
pH (field)	ru	7.87	7.98	7.88		
pH (lab)	ru	7.94	8.05	7.86	6.5-8.5	6.5-9
Conductivity (lab)	uS/cm	299	267	159		
Water temperature	C	4.2	4.4	4.9		
Flow Volume(field)	cms	0.9404	0.0679	nr		
Organic Carbon-Total	mg/L	1.4	1.5	2.9		
Cyanide - Total	mg/L	<0.002	<0.002	<0.002	0.2	0.005
Phosphorus (T)	mg/L	0.028	<0.003	<0.003		
Ammonia -N	mg/L	<0.01	<0.01	<0.01		1.37-2.2
Nitrate - N	mg/L	0.09	0.04	0.04	10	
Nitrite - N	mg/L	<0.01	<0.01	<0.01	1	0.06
Alkalinity (as CaC03)	mg/L	127	124	73		
Chloride	mg/L	0.08	0.05	0.11	<250	
Sulphate (S04)	mg/L	30	17.6	8		
Hardness (as CaC03)	mg/L	161	144	81.5	<500	
T.Suspended Solids	mg/L	<2	<2	<2		
T.Dissolved Solids	mg/L	164	162	100	500	

All results and limits in mg/L unless noted otherwis. Nr = no sample/reading

Indicates concentration exceeds Guideline limits

Table 2. Silver Range Resources - REBEL Claims September, 2013
Total Metals Analysis Results.

Parameter	Units	REB #1	REB #2	REB #3	DWQ* G.Lines	Aquatic** G.Lines
Calcium	mg/L	41	46.4	26.5		
Iron	mg/L	0.163	0.028	0.016	0.3	0.3
Magnesium	mg/L	14.2	6.96	3.75		
Manganese	mg/L	0.0134	<0.0050	<0.0050	0.05	
Potassium	mg/L	1.02	0.28	0.42		
Silicon	mg/L	3.06	3.7	4.72		
Sodium	mg/L	1.51	1.42	1.9	<200	
Titanium	mg/L	<0.0010	<0.0010	<0.0010		
Aluminum	mg/L	0.011	0.011	0.016		0.1
Antimony	mg/L	0.0002	<0.0002	<0.0002	0.006	
Arsenic	mg/L	0.0005	0.0012	0.0003	0.01	
Barium	mg/L	0.063	0.043	0.029	1	
Beryllium	mg/L	<0.00004	<0.00004	<0.00004		
Bismuth	mg/L	<0.001	<0.001	<0.001		
Boron	mg/L	<0.005	<0.005	<0.005	5	
Cadmium	mg/L	0.00008	0.00002	<0.00001	0.005	0.0018
Chromium	mg/L	<0.0004	<0.0004	<0.0004	0.05	0.002
Cobalt	mg/L	0.0001	0.00008	0.00004		
Copper	mg/L	<0.001	<0.001	<0.001	1	0.004
Lead	mg/L	<0.0001	<0.0001	<0.0001	0.01	0.007
Lithium	mg/L	<0.001	<0.001	<0.001		
Molybdenum	mg/L	0.0021	0.0002	0.0003		
Nickel	mg/L	0.002	0.001	<0.001		0.15
Selenium	mg/L	0.0014	<0.0006	<0.0006	0.01	0.001
Silver	mg/L	<0.00001	<0.00001	<0.00001		0.0001
Strontium	mg/L	0.091	0.159	0.102		
Thallium	mg/L	<0.00001	<0.00001	<0.00001		
Thorium	mg/L	<0.0004	<0.0004	<0.0004		
Tin	mg/L	<0.0001	<0.0001	<0.0001		
Uranium	mg/L	0.0022	0.0011	0.0004	0.02	
Vanadium	mg/L	0.0002	0.0001	0.0001		
Zinc	mg/L	0.003	0.003	0.002	<5	0.03
Zirconium	mg/L	<0.0001	<0.0001	<0.0001		
Mercury	mg/L	<0.00001	<0.00001	<0.00001	0.001	0.1

Indicates concentration exceeds Guideline limits

Table 3. Silver Range Resources - REBEL Claims September, 2013.

Dissolved Metals Analysis Results

Parameter	Units	REB#1	REB#2	REB#3
Calcium	mg/L	40.3	45.7	25.4
Iron	mg/L	0.041	0.008	0.007
Magnesium	mg/L	13.5	6.72	3.56
Manganese	mg/L	0.007	0.001	<0.001
Potassium	mg/L	1	0.2	0.4
Silicon	mg/L	2.93	3.54	4.41
Sodium	mg/L	1.5	1.4	1.8
Sulfur	mg/L	10	5.8	2.8
Titanium	mg/L	<0.010	<0.010	<0.010
Aluminum	mg/L	<0.005	<0.005	0.008
Antimony	mg/L	0.0002	<0.0002	<0.0002
Arsenic	mg/L	0.0004	0.0011	0.0003
Barium	mg/L	0.062	0.044	0.028
Beryllium	mg/L	<0.00004	<0.00004	<0.00004
Bismuth	mg/L	<0.001	<0.001	<0.001
Boron	mg/L	<0.004	<0.004	<0.004
Cadmium	mg/L	0.00004	0.00002	<0.00001
Chromium	mg/L	0.0007	0.0008	0.0004
Cobalt	mg/L	0.00007	0.00006	0.00004
Copper	mg/L	<0.001	<0.001	<0.001
Lead	mg/L	<0.0001	<0.0001	<0.0001
Lithium	mg/L	<0.001	<0.001	<0.001
Molybdenum	mg/L	0.00207	0.00016	0.00025
Nickel	mg/L	0.002	0.001	<0.001
Selenium	mg/L	0.0017	<0.0006	<0.0006
Silver	mg/L	<0.00001	<0.00001	<0.00001
Strontium	mg/L	0.091	0.155	0.098
Thallium	mg/L	<0.00001	<0.00001	<0.00001
Thorium	mg/L	<0.0004	<0.0004	<0.0004
Tin	mg/L	<0.0001	<0.0001	<0.0001
Uranium	mg/L	0.0021	0.0011	0.0004
Vanadium	mg/L	0.00029	0.00023	0.0002
Zinc	mg/L	0.002	0.002	<0.001
Zirconium	mg/L	<0.00010	<0.0001	<0.00010

Table 4. Silver Range Resources - Summary of REB/SNAP/HAMMER Flow Volumes 2010 - 2013 (Cubic meters per second)

Station	Date											
	Aug-10	Oct-10	Mar-11	Jun-11	Sep-11	Mar-12	May-12	Jul-12	Oct-12	Mar-13	Jun-13	Sep-13
REB #1	0.403	0.311	0.068	1.252	0.776	0.055	0.218	nr	0.314	0.1024	1.476	0.9404
REB #2	0.015	0.028	Dry	0.054	0.034	Dry	Dry	nr	0.018	nr	0.0553	0.0679
REB #3	0.024	0.047	0.0015	0.639	0.040	0.002	0.1021	nr	0.106	nr	0.097	nr
SNAP#1									0.0695	nr	1.526	1.0857
SNAP#2									0.0935	0.0079	0.635	0.2386
SNAP#3									0.0573	nr	0.277	nr
SNAP#4									nr	nr	nr	nr
HAM#1									nr	nr	nr	nr
HAM#2									nr	nr	0.4957	0.3734
HAM#3									0.0474	0.0332	0.5034	0.2287
HAM#4									0.0469	nr	0.3118	0.2233

Table 5 . Silver Range Resources - SNAP Claims, September 2013.
Routine Chemistry and Field Measurement Results

Parameter	Unit	STATIONS SNAP#1	SNAP#2	SNAP#3	SNAP#4	DWQ* G.lines	Aquatic** G.lines
pH (field)	ru	7.37	7.21	7.13	7.45		
pH (lab)	ru	7.4	6.98	6.43	7.4	6.5-8.5	6.5-9
Conductivity (lab)	uS/cm	158	145	63	158		
Water temperature	C	3.3	3.3	4	3		
Flow Volume(field)	cms	1.0857	0.2386	nr	nr		
Organic Carbon-Total	mg/L	2.2	1.1	4	2		
Cyanide - Total	mg/L	<0.002	<0.002	<0.002	0.002	0.2	0.005
Phosphorus (T)	mg/L	0.01	0.003	0.02	0.007		
Ammonia -N	mg/L	<0.01	0.02	0.01	0.01		1.37-2.2
Nitrate - N	mg/L	0.02	0.1	<0.01	0.07	10	
Nitrite - N	mg/L	<0.01	<0.01	<0.01	<0.01	1	0.06
Alkalinity (as CaC03)	mg/L	28	10	<5	34		
Chloride	mg/L	0.1	0.28	0.36	0.14	<250	
Sulphate (S04)	mg/L	43.3	51.4	19.8	37.4		
Hardness (as CaC03)	mg/L	69.2	60.7	23.1	73.7	<500	
T.Suspended Solids	mg/L	3	<2	16	<2		
T.Dissolved Solids	mg/L	98	104	46	86	500	

All results and limits in mg/L unless noted otherwis. Nr = no sample/reading

DWQ* Guidelines are Maximum Acceptable Concentrations according to
Canadian Drinking Water Quality

Aquatic** Guidelines are for protection of aquatic life in waters with pH >6.5 and Hardness as CaC03 >180 mg/L
Canadian Water Quality Guidelines

equal or exceeds Guideline limit

Table 6. Silver Range Resources - SNAP Claims September, 2013

Total Metals Analysis Results.

Parameter	Units	SNAP#1	SNAP#2	SNAP#3	SNAP#4	DWQ* G.Lines	Aquatic** G.Lines
Calcium	mg/L	21	17.4	7.03	24.8		
Iron	mg/L	0.346	0.037	1.14	0.306	0.3	0.3
Magnesium	mg/L	4.07	4.2	1.35	2.82		
Manganese	mg/L	0.0477	0.022	0.25	0.0176	0.05	
Potassium	mg/L	0.77	0.77	0.79	0.74		
Silicon	mg/L	3.56	3.48	4.33	3.28		
Sodium	mg/L	2.09	2.12	1.79	1.82	<200	
Titanium	mg/L	<0.0010	0.003	0.0105	0.0012		
Aluminum	mg/L	0.074	0.105	0.892	0.067		0.1
Antimony	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	0.006	
Arsenic	mg/L	0.001	<0.0002	0.0019	0.0004	0.01	
Barium	mg/L	0.023	0.02	0.022	0.017	1	
Beryllium	mg/L	0.00008	0.0005	0.00039	<0.00004		
Bismuth	mg/L	<0.001	<0.001	<0.001	<0.001		
Boron	mg/L	<0.005	<0.005	<0.005	<0.005	5	
Cadmium	mg/L	0.00083	0.00135	0.00164	0.00003	0.005	0.0018
Chromium	mg/L	<0.0004	<0.0004	0.0006	<0.0004	0.05	0.002
Cobalt	mg/L	0.00019	0.00027	0.00035	0.00016		
Copper	mg/L	<0.001	0.001	0.002	<0.001	1	0.004
Lead	mg/L	0.001	0.0001	0.0025	0.0001	0.01	0.007
Lithium	mg/L	0.002	0.003	0.001	0.001		
Molybdenum	mg/L	0.0001	<0.0001	<0.0001	0.0003		
Nickel	mg/L	0.013	0.042	0.002	0.001		0.15
Selenium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	0.01	0.001
Silver	mg/L	<0.00001	<0.00001	0.00002	<0.00001		0.0001
Strontium	mg/L	0.108	0.113	0.04	0.114		
Thallium	mg/L	<0.00001	<0.00001	0.00002	<0.00001		
Thorium	mg/L	<0.0004	<0.0004	<0.0004	<0.0004		
Tin	mg/L	<0.0001	<0.0001	<0.0001	<0.0001		
Uranium	mg/L	0.0008	<0.0004	0.0004	0.0018	0.02	
Vanadium	mg/L	0.0002	<0.0001	0.0008	0.0003		
Zinc	mg/L	0.192	0.168	0.438	0.002	<5	0.03
Zirconium	mg/L	<0.0001	<0.0001	0.0004	0.0006		
Mercury	mg/L	<0.00001	<0.00001	<0.00001	<0.00001	0.001	0.1

nr=no sample or analysis done ***equal or exceeds Guideline limit***

Table 7. Silver Range Resources - SNAP Claims September, 2013.
Dissolved Metals Analysis Results

Parameter	Units	SNAP#1	SNAP#2	SNAP#3	SNAP#4
Calcium	mg/L	20.8	17.3	6.87	23.9
Iron	mg/L	0.133	0.01	0.13	0.124
Magnesium	mg/L	4	4.17	1.32	2.71
Manganese	mg/L	0.038	0.018	0.193	0.013
Potassium	mg/L	0.8	0.8	0.7	0.7
Silicon	mg/L	3.31	3.34	3.66	3.04
Sodium	mg/L	2	2	1.7	1.7
Sulfur	mg/L	13.4	16.1	6.2	12.2
Titanium	mg/L	<0.010	<0.010	<0.010	<0.010
Aluminum	mg/L	0.016	0.038	0.125	0.008
Antimony	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Arsenic	mg/L	0.0006	<0.0002	0.0003	0.0003
Barium	mg/L	0.022	0.02	0.018	0.017
Beryllium	mg/L	0.00006	0.00042	0.00019	<0.00004
Bismuth	mg/L	<0.001	<0.001	<0.001	<0.001
Boron	mg/L	<0.004	<0.004	<0.004	<0.004
Cadmium	mg/L	0.0007	0.00138	0.00132	0.00002
Chromium	mg/L	<0.0004	<0.0004	<0.0004	<0.0004
Cobalt	mg/L	0.00013	0.00025	0.00019	0.0001
Copper	mg/L	<0.001	0.001	0.001	<0.001
Lead	mg/L	0.0004	<0.0001	0.0002	<0.0001
Lithium	mg/L	0.002	0.003	<0.001	<0.001
Molybdenum	mg/L	<0.00010	<0.00010	<0.0001	0.00026
Nickel	mg/L	0.012	0.043	0.002	0.001
Selenium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006
Silver	mg/L	<0.00001	<0.00001	<0.00001	<0.00001
Strontium	mg/L	0.104	0.112	0.039	0.108
Thallium	mg/L	<0.00001	<0.00001	<0.00001	<0.00001
Thorium	mg/L	<0.0004	<0.0004	<0.0004	<0.0004
Tin	mg/L	<0.0001	<0.0001	<0.0001	<0.0001
Uranium	mg/L	0.0008	<0.0004	<0.0004	0.0018
Vanadium	mg/L	<0.00010	<0.00010	<0.00010	0.00012
Zinc	mg/L	0.184	0.173	0.404	0.002
Zirconium	mg/L	<0.00010	<0.0001	0.00027	<0.00010

Table 8 SNAP Claims. Quality Control Dissolved Metals Analysis Results, September 2013.

Parameter	Units	SNAP#3	SNAP#3 Duplicate
Calcium	mg/L	6.87	7.13
Iron	mg/L	0.13	0.782
Magnesium	mg/L	1.32	1.35
Manganese	mg/L	0.193	0.236
Potassium	mg/L	0.7	0.8
Silicon	mg/L	3.66	3.92
Sodium	mg/L	1.7	1.6
Titanium	mg/L	<0.010	<0.010
Aluminum	mg/L	0.125	0.637
Antimony	mg/L	<0.0002	<0.0002
Arsenic	mg/L	0.0003	0.0016
Barium	mg/L	0.018	0.02
Beryllium	mg/L	0.00019	0.00038
Bismuth	mg/L	<0.001	<0.001
Boron	mg/L	<0.004	<0.004
Cadmium	mg/L	0.00132	0.00163
Chromium	mg/L	<0.0004	<0.0004
Cobalt	mg/L	0.00019	0.00027
Copper	mg/L	0.001	0.002
Lead	mg/L	0.0002	0.0022
Lithium	mg/L	<0.001	<0.001
Molybdenum	mg/L	<0.0001	<0.00010
Nickel	mg/L	0.002	0.002
Selenium	mg/L	<0.0006	<0.0006
Silver	mg/L	<0.00001	<0.00001
Strontium	mg/L	0.039	0.039
Thallium	mg/L	<0.00001	0.00001
Thorium	mg/L	<0.0004	<0.0004
Tin	mg/L	<0.0001	<0.0001
Uranium	mg/L	<0.0004	0.0004
Vanadium	mg/L	<0.00010	0.00041
Zinc	mg/L	0.404	0.429
Zirconium	mg/L	0.00027	0.00016

indicates > 10% variation between samples

Table 9. Silver Range Resources - HAMMER Claims, September, 2013.
Routine Chemistry and Field Measurement Results

		STATIONS					
Parameter	**Unit**	**HAM#1**	**HAM#2**	**HAM#3**	**HAM#4**	**DWQ* G.lines**	**Aquatic** G.lines**
pH (field)	ru	7.42	7.92	8.01	7.43		
pH (lab)	ru	7.77	7.93	7.93	7.27	6.5-8.5	6.5-9
Conductivity (lab)	uS/cm	183	224	224	43		
Water temperature	C	5.6	4.9	3.5	4.5		
Flow Volume(field)	cms	nr	0.3734	0.2287	0.2233		
Organic Carbon-Total	mg/L	4.2	2.4	1.8	2.8		
Cyanide - Total	mg/L	<0.002	<0.002	<0.002	<0.002	0.2	0.005
Phosphorus (T)	mg/L	0.03	0.007	0.004	0.011		
Ammonia -N	mg/L	0.01	<0.01	<0.01	<0.01		1.37-2.2
Nitrate - N	mg/L	<0.01	0.02	0.08	0.02	10	
Nitrite - N	mg/L	<0.01	<0.01	<0.01	<0.01	1	0.06
Alkalinity (as CaC03)	mg/L	91	103	101	16		
Chloride	mg/L	0.07	0.12	0.13	0.18	<250	
Sulphate (S04)	mg/L	3.2	14.3	14.3	3.9		
Hardness (as CaC03)	mg/L	95.3	120	118	18.8	<500	
T.Suspended Solids	mg/L	<2	<2	<2	<2		
T.Dissolved Solids	mg/L	98	122	124	26	500	

All results and limits in mg/L unless noted otherwis. Nr = no sample/reading

DWQ* Guidelines are Maximum Acceptable Concentrations according to
Canadian Drinking Water Quality

Aquatic** Guidelines are for protection of aquatic life in waters with pH >6.5 and Hardness as CaC03 >180 mg/L
Canadian Water Quality Guidelines

equal or exceeds Guideline limit

Table 10. Silver Range Resources - HAMMER Claims September, 2013

Total Metals Analysis Results.

Parameter	Units	HAM#1	HAM#2	HAM#3	HAM#4	DWQ* G.Lines	Aquatic** G.Lines
Calcium	mg/L	28	32.2	30.5	5.95		
Iron	mg/L	0.483	0.25	0.142	0.269	0.3	0.3
Magnesium	mg/L	6.16	9.56	10.1	0.94		
Manganese	mg/L	0.0219	0.0186	0.0211	0.0115	0.05	
Potassium	mg/L	0.87	0.45	0.3	0.32		
Silicon	mg/L	3.01	3.44	3.71	3.86		
Sodium	mg/L	1.4	4.5	5	1.1	<200	
Titanium	mg/L	0.0045	<0.0010	<0.0010	0.0043		
Aluminum	mg/L	0.18	0.014	0.023	0.166		0.1
Antimony	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	0.006	
Arsenic	mg/L	0.0046	0.0009	0.0003	0.0004	0.01	
Barium	mg/L	0.121	0.062	0.052	0.019	1	
Beryllium	mg/L	<0.00004	<0.00004	<0.00004	<0.00004		
Bismuth	mg/L	<0.001	<0.001	<0.001	<0.001		
Boron	mg/L	<0.005	<0.005	<0.005	<0.005	5	
Cadmium	mg/L	0.00001	<0.00001	<0.00001	0.00002	0.005	0.0018
Chromium	mg/L	0.0004	<0.0004	0.0004	<0.0004	0.05	0.002
Cobalt	mg/L	0.00018	0.00008	0.00012	0.00012		
Copper	mg/L	<0.001	<0.001	<0.001	<0.001	1	0.004
Lead	mg/L	0.0004	<0.0001	<0.0001	0.0002	0.01	0.007
Lithium	mg/L	0.002	0.001	<0.001	<0.001		
Molybdenum	mg/L	0.0007	0.0006	0.0005	<0.0001		
Nickel	mg/L	0.001	<0.001	<0.001	<0.001		0.15
Selenium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	0.01	0.001
Silver	mg/L	<0.00001	<0.00001	<0.00001	<0.00001		0.0001
Strontium	mg/L	0.121	0.104	0.092	0.029		
Thallium	mg/L	<0.00001	<0.00001	<0.00001	<0.00001		
Thorium	mg/L	<0.0004	<0.0004	<0.0004	<0.0004		
Tin	mg/L	<0.0001	<0.0001	<0.0001	<0.0001		
Uranium	mg/L	0.0008	0.0008	0.0008	<0.0004	0.02	
Vanadium	mg/L	0.0006	0.0001	0.0002	0.0003		
Zinc	mg/L	0.003	0.002	0.002	0.003	<5	0.03
Zirconium	mg/L	0.0002	<0.0001	<0.0001	0.0001		
Mercury	mg/L	<0.00001	<0.00001	<0.00001	<0.00001	0.001	0.1

nr=no sample or analysis done *equal or exceeds Guideline limit*

Table 11. Silver Range Resources - HAMMER Claims September, 2013.

Dissolved Metals Analysis Results

Parameter	Units	HAM#1	HAM#2	HAM#3	HAM#4
Calcium	mg/L	27.3	31.4	30.7	5.88
Iron	mg/L	0.108	0.145	0.079	0.051
Magnesium	mg/L	5.81	9.17	9.96	0.91
Manganese	mg/L	0.009	0.015	0.017	0.003
Potassium	mg/L	0.7	0.5	0.3	0.3
Silicon	mg/L	2.49	3.22	3.57	3.6
Sodium	mg/L	2.4	1.7	1.4	1.7
Sulfur	mg/L	1.4	4.3	4.9	1.1
Titanium	mg/L	<0.010	<0.010	<0.010	<0.010
Aluminum	mg/L	0.007	<0.005	0.007	0.028
Antimony	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Arsenic	mg/L	0.003	0.0007	0.0002	0.0002
Barium	mg/L	0.111	0.06	0.05	0.017
Beryllium	mg/L	<0.00004	<0.00004	<0.00004	<0.00004
Bismuth	mg/L	<0.001	<0.001	<0.001	<0.001
Boron	mg/L	<0.004	<0.004	<0.004	<0.004
Cadmium	mg/L	<0.00001	<0.00001	<0.00001	<0.00001
Chromium	mg/L	0.0005	0.0005	0.0006	<0.0004
Cobalt	mg/L	0.00007	0.00007	0.0001	0.00004
Copper	mg/L	<0.001	<0.001	<0.001	<0.001
Lead	mg/L	<0.0001	<0.0001	<0.0001	<0.0001
Lithium	mg/L	0.002	<0.001	<0.001	<0.001
Molybdenum	mg/L	0.00062	0.00054	0.00043	<0.00010
Nickel	mg/L	<0.001	<0.001	0.001	<0.001
Selenium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006
Silver	mg/L	<0.00001	<0.00001	<0.00001	<0.00001
Strontium	mg/L	0.118	0.098	0.089	0.029
Thallium	mg/L	<0.00001	<0.00001	<0.00001	<0.00001
Thorium	mg/L	<0.0004	<0.0004	<0.0004	<0.0004
Tin	mg/L	<0.0001	<0.0001	<0.0001	<0.0001
Uranium	mg/L	0.0008	0.0008	0.0007	<0.0004
Vanadium	mg/L	0.00024	0.00018	0.00021	0.00012
Zinc	mg/L	0.002	0.001	0.005	0.001
Zirconium	mg/L	<0.00010	<0.00010	<0.00010	0.00011

Table 12 Hammer Claims. Quality Control Total and Dissolved Metals Analysis Results, September 2013.

Parameter	Units	Total Metals HAM #2	Total Metals HAM #2 Duplicate	Dissolved Metals HAM #2	Dissolved Metals HAM #2 Duplicate
Calcium	mg/L	32.2	32.1	31.4	31.8
Iron	mg/L	0.25	0.262	0.145	0.132
Magnesium	mg/L	9.56	9.47	9.17	9.28
Manganese	mg/L	0.0186	0.0181	0.015	0.016
Potassium	mg/L	0.45	0.46	0.5	0.5
Silicon	mg/L	3.44	3.41	3.22	3.24
Sodium	mg/L	4.5	1.69	1.7	1.7
Titanium	mg/L	<0.0010	<0.0010	<0.010	<0.010
Aluminum	mg/L	0.014	0.016	<0.005	0.006
Antimony	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Arsenic	mg/L	0.0009	0.0008	0.0007	0.0006
Barium	mg/L	0.062	0.062	0.06	0.061
Beryllium	mg/L	<0.00004	<0.00004	<0.00004	<0.00004
Bismuth	mg/L	<0.001	<0.001	<0.001	<0.001
Boron	mg/L	<0.005	<0.005	<0.004	<0.004
Cadmium	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Chromium	mg/L	<0.0004	<0.0004	0.0005	0.0005
Cobalt	mg/L	0.00008	0.00008	0.00007	0.00008
Copper	mg/L	<0.001	<0.001	<0.001	<0.001
Lead	mg/L	<0.0001	<0.0001	<0.0001	<0.0001
Lithium	mg/L	0.001	0.001	<0.001	0.001
Molybdenum	mg/L	0.0006	0.0006	0.00054	0.00055
Nickel	mg/L	<0.001	<0.001	<0.001	<0.001
Selenium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006
Silver	mg/L	<0.00001	<0.00001	<0.00001	<0.00001
Strontium	mg/L	0.104	0.104	0.098	0.098
Thallium	mg/L	<0.00001	<0.00001	<0.00001	<0.00001
Thorium	mg/L	<0.0004	<0.0004	<0.0004	<0.0004
Tin	mg/L	<0.0001	<0.0001	<0.0001	<0.0001
Uranium	mg/L	0.0008	0.0009	0.0008	0.0009
Vanadium	mg/L	0.0001	0.0002	0.00018	0.00019
Zinc	mg/L	0.002	0.002	0.001	0.001
Zirconium	mg/L	<0.0001	<0.0001	<0.00010	<0.00010

indicates >10% variation between samples

Laboratory Analytical Results

Parameters that equal or exceed either ***Drinking Water or Aquatic Guidelines*** are highlighted in yellow in the data reporting tables.

REBEL Stations

Station REBEL #1 results exceed the ***Aquatic Guidelines*** for selenium.

SNAP Stations

Station SNAP#1 results exceed ***Aquatic Guidelines*** for iron and zinc; and exceeds the ***Drinking Water MAC*** for iron.

Station SNAP #2 results exceed the ***Aquatic Guidelines*** for aluminum and zinc.

Station SNAP#3 results exceed ***Aquatic Guidelines*** for aluminum, iron and zinc; and exceeds the ***Drinking Water MAC*** for iron and manganese.

Station SNAP #4 results exceed the ***Aquatic Guidelines*** and ***Drinking Water MAC*** for iron.

HAMMER Stations

Station HAM#1 results exceed ***Aquatic Guidelines*** and ***Drinking Water MAC*** for iron.

Station HAM#4 results equal the ***Aquatic Guidelines*** limit for aluminum.

Total Mercury concentrations were below the detection limit of 0.0001 mg/L at all stations.

Total cyanide concentrations were at or below the lab detection limit of 0.002 mg/L at all stations.

APPENDIX 1

LABORATORY ANALYTICAL REPORTS

REBEL/SNAP/HAMMER Claims

September 2013

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Report Transmission Cover Page

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**960828**
Report To:	J. Gibson & Associates	ID:	Silver Range Res.	Control Number:	B05977
	Box 20913	Name:	Reb/Snap/Hammer	Date Received:	Sep 24, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Oct 1, 2013
	Y1A 6P2	LSD:		Report Number:	1859275
Attn:	John Gibson	P.O.:			
Sampled By:	J. Gibson	Acct code:			
Company:					

Contact & Affiliation	Address	Delivery Commitments
John Gibson J. Gibson & Associates	, Box 20913 Whitehorse, Yukon Territory Y1A 6P2 Phone: (867) 633-4522 Fax: (867) 668-6895 Email: ludditegibson@gmail.com	On [Lot Verification] send (COA) by Email - Single Report On [Report Approval] send (COC, Test Report) by Email - Merge Reports On [Report Approval] send (Test Report) by Email - Single Report On [Lot Approval and Final Test Report Approval] send (Invoice) by Email - Single Report On [Lot Creation] send (COR) by Email - Single Report

Notes To Clients:

- Analysis was performed on samples 960828-1 to 12 that exceeded the recommended holding time for Total Phosphorus analysis.
- Some total metal results were less than dissolved metal results for lot 960828. The results were verified and are within expected measurement uncertainty.
- pH analysis was performed past the recommended holding time of 15 minutes from sample collection.
- An appropriately preserved sample was not received for Ammonia in water analysis of sample # 960766-1 to 3 Analysis was performed on unpreserved sample.

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J. Gibson
Company:

Project:
ID: Silver Range Res.
Name: Reb/Snap/Hammer
Location:
LSD:
P.O.:
Acct code:

Lot ID: **960828**
Control Number: B05977
Date Received: Sep 24, 2013
Date Reported: Oct 1, 2013
Report Number: 1859275

	Reference Number	960828-1	960828-2	960828-3	
	Sample Date	Sep 20, 2013	Sep 20, 2013	Sep 20, 2013	
	Sample Time	NA	NA	NA	
	Sample Location	Surf.	Surf.	Surf.	
	Sample Description	Reb #1	Reb #2	Reb #3	
	Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Inorganic Nonmetallic Parameters						
Organic Carbon	Total Nonpurgeable	mg/L	1.4	1.5	2.9	0.5
Cyanide	Total	mg/L	<0.002	<0.002	<0.002	0.002
Ammonia - N		mg/L	<0.01	<0.01	<0.01	.01
Phosphorus	Total	mg/L	0.028	<0.003	<0.003	0.003
Metals Dissolved						
Sulfur	Dissolved	mg/L	10.0	5.8	2.8	0.2
Aluminum	Dissolved	mg/L	<0.005	<0.005	0.008	0.005
Antimony	Dissolved	mg/L	0.0002	<0.0002	<0.0002	0.0002
Arsenic	Dissolved	mg/L	0.0004	0.0011	0.0003	0.0002
Barium	Dissolved	mg/L	0.062	0.044	0.028	0.001
Beryllium	Dissolved	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Boron	Dissolved	mg/L	<0.004	<0.004	<0.004	0.004
Cadmium	Dissolved	mg/L	0.00004	0.00002	<0.00001	0.00001
Chromium	Dissolved	mg/L	0.0007	0.0008	0.0004	0.0004
Cobalt	Dissolved	mg/L	0.00007	0.00006	0.00004	0.00002
Copper	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Lead	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Lithium	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Molybdenum	Dissolved	mg/L	0.00207	0.00016	0.00025	0.0001
Nickel	Dissolved	mg/L	0.002	0.001	<0.001	0.001
Selenium	Dissolved	mg/L	0.0017	<0.0006	<0.0006	0.0006
Silver	Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Titanium	Dissolved	mg/L	<0.010	<0.010	<0.010	0.01
Strontium	Dissolved	mg/L	0.091	0.155	0.098	0.001
Tellurium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium	Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Thorium	Dissolved	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Uranium	Dissolved	mg/L	0.0021	0.0011	0.0004	0.0004
Vanadium	Dissolved	mg/L	0.00029	0.00023	0.00020	0.0001
Zinc	Dissolved	mg/L	0.002	0.002	<0.001	0.001
Zirconium	Dissolved	mg/L	<0.00010	<0.0001	<0.00010	0.0001
Metals Total						
Calcium	Total	mg/L	41.0	46.4	26.5	0.05
Iron	Total	mg/L	0.163	0.028	0.016	0.01

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Exova

Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J. Gibson
Company:

Project:
ID: Silver Range Res.
Name: Reb/Snap/Hammer
Location:
LSD:
P.O.:
Acct code:

Lot ID: **960828**
Control Number: B05977
Date Received: Sep 24, 2013
Date Reported: Oct 1, 2013
Report Number: 1859275

			Reference Number	960828-1	960828-2	960828-3	
			Sample Date	Sep 20, 2013	Sep 20, 2013	Sep 20, 2013	
			Sample Time	NA	NA	NA	
			Sample Location	Surf.	Surf.	Surf.	
			Sample Description	Reb #1	Reb #2	Reb #3	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Total - Continued							
Magnesium	Total	mg/L		14.2	6.96	3.75	0.05
Manganese	Total	mg/L		0.0134	<0.0050	<0.0050	0.005
Potassium	Total	mg/L		1.02	0.28	0.42	0.1
Silicon	Total	mg/L		3.06	3.70	4.72	0.05
Sulfur	Total	mg/L		10.0	5.9	2.9	0.1
Sodium	Total	mg/L		1.51	1.42	1.90	0.02
Titanium	Total	mg/L		<0.0010	<0.0010	<0.0010	0.001
Aluminum	Total	mg/L		0.011	0.011	0.016	0.005
Antimony	Total	mg/L		0.0002	<0.0002	<0.0002	0.0002
Arsenic	Total	mg/L		0.0005	0.0012	0.0003	0.0002
Barium	Total	mg/L		0.063	0.043	0.029	0.001
Beryllium	Total	mg/L		<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Total	mg/L		<0.001	<0.001	<0.001	0.001
Boron	Total	mg/L		<0.005	<0.005	<0.005	0.004
Cadmium	Total	mg/L		0.00008	0.00002	<0.00001	0.00001
Chromium	Total	mg/L		<0.0004	<0.0004	<0.0004	0.0004
Cobalt	Total	mg/L		0.00010	0.00008	0.00004	0.00002
Copper	Total	mg/L		<0.001	<0.001	<0.001	0.001
Lead	Total	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Lithium	Total	mg/L		<0.001	<0.001	<0.001	0.001
Mercury	Total	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Molybdenum	Total	mg/L		0.0021	0.0002	0.0003	0.0001
Nickel	Total	mg/L		0.002	0.001	<0.001	0.001
Selenium	Total	mg/L		0.0014	<0.0006	<0.0006	0.0006
Silver	Total	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Strontium	Total	mg/L		0.091	0.159	0.102	0.001
Tellurium	Total	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Thallium	Total	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Thorium	Total	mg/L		<0.0004	<0.0004	<0.0004	0.0004
Tin	Total	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Uranium	Total	mg/L		0.0022	0.0011	0.0004	0.0004
Vanadium	Total	mg/L		0.0002	0.0001	0.0001	0.0001
Zinc	Total	mg/L		0.003	0.003	0.002	0.001
Zirconium	Total	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Physical and Aggregate Properties							
Solids	Total Suspended	mg/L		<2	<2	<2	1

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**960828**
Report To:	J. Gibson & Associates	ID:	Silver Range Res.	Control Number:	B05977
	Box 20913	Name:	Reb/Snap/Hammer	Date Received:	Sep 24, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Oct 1, 2013
	Y1A 6P2	LSD:		Report Number:	1859275
Attn:	John Gibson	P.O.:			
Sampled By:	J. Gibson	Acct code:			
Company:					

			Reference Number	960828-1	960828-2	960828-3	
			Sample Date	Sep 20, 2013	Sep 20, 2013	Sep 20, 2013	
			Sample Time	NA	NA	NA	
			Sample Location	Surf.	Surf.	Surf.	
			Sample Description	Reb #1	Reb #2	Reb #3	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Physical and Aggregate Properties - Continued							
Solids	Total Dissolved	mg/L		164	162	100	5
Routine Water							
pH	at 25 °C			7.94	8.05	7.86	
Electrical Conductivity		µS/cm at 25 C		299	267	159	1
Calcium	Dissolved	mg/L		40.3	45.7	25.4	0.1
Iron	Dissolved	mg/L		0.041	0.008	0.007	0.005
Magnesium	Dissolved	mg/L		13.5	6.72	3.56	0.1
Manganese	Dissolved	mg/L		0.007	0.001	<0.001	0.001
Potassium	Dissolved	mg/L		1.0	0.2	0.4	0.1
Silicon	Dissolved	mg/L		2.93	3.54	4.41	0.05
Sodium	Dissolved	mg/L		1.5	1.4	1.8	0.1
Bicarbonate		mg/L		155	151	88	5
Carbonate		mg/L		<6	<6	<6	6
Hydroxide		mg/L		<5	<5	<5	5
P-Alkalinity	as CaCO3	mg/L		<5	<5	<5	5
T-Alkalinity	as CaCO3	mg/L		127	124	73	5
Chloride	Dissolved	mg/L		0.08	0.05	0.11	0.05
Nitrate - N	Dissolved	mg/L		0.09	0.04	0.04	0.01
Nitrite - N	Dissolved	mg/L		<0.01	<0.01	<0.01	0.01
Sulfate (SO4)	Dissolved	mg/L		30.0	17.6	8.0	0.5
Hardness	as CaCO3	mg/L		156	142	78	5
Hardness	Total	mg CaCO3/L		161	144	81.5	1

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J. Gibson
Company:

Project:
ID: Silver Range Res.
Name: Reb/Snap/Hammer
Location:
LSD:
P.O.:
Acct code:

Lot ID: **960828**
Control Number: B05977
Date Received: Sep 24, 2013
Date Reported: Oct 1, 2013
Report Number: 1859275

			Reference Number	960828-4	960828-5	960828-6	
			Sample Date	Sep 20, 2013	Sep 20, 2013	Sep 20, 2013	
			Sample Time	NA	NA	NA	
			Sample Location	Surf.	Surf.	Surf.	
			Sample Description	Snap#1	Snap#2	Snap#3	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Inorganic Nonmetallic Parameters							
Organic Carbon	Total Nonpurgeable	mg/L		2.2	1.1	4.0	0.5
Cyanide	Total	mg/L		<0.002	<0.002	<0.002	0.002
Ammonia - N		mg/L		<0.01	0.02	0.01	.01
Phosphorus	Total	mg/L		0.01	0.003	0.020	0.003
Metals Dissolved							
Sulfur	Dissolved	mg/L		13.4	16.1	6.2	0.2
Aluminum	Dissolved	mg/L		0.016	0.038	0.125	0.005
Antimony	Dissolved	mg/L		<0.0002	<0.0002	<0.0002	0.0002
Arsenic	Dissolved	mg/L		0.0006	<0.0002	0.0003	0.0002
Barium	Dissolved	mg/L		0.022	0.020	0.018	0.001
Beryllium	Dissolved	mg/L		0.00006	0.00042	0.00019	0.00004
Bismuth	Dissolved	mg/L		<0.001	<0.001	<0.001	0.001
Boron	Dissolved	mg/L		<0.004	<0.004	<0.004	0.004
Cadmium	Dissolved	mg/L		0.00070	0.00138	0.00132	0.00001
Chromium	Dissolved	mg/L		<0.0004	<0.0004	<0.0004	0.0004
Cobalt	Dissolved	mg/L		0.00013	0.00025	0.00019	0.00002
Copper	Dissolved	mg/L		<0.001	0.001	0.001	0.001
Lead	Dissolved	mg/L		0.0004	<0.0001	0.0002	0.0001
Lithium	Dissolved	mg/L		0.002	0.003	<0.001	0.001
Molybdenum	Dissolved	mg/L		<0.00010	<0.00010	<0.0001	0.0001
Nickel	Dissolved	mg/L		0.012	0.043	0.002	0.001
Selenium	Dissolved	mg/L		<0.0006	<0.0006	<0.0006	0.0006
Silver	Dissolved	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Titanium	Dissolved	mg/L		<0.010	<0.010	<0.010	0.01
Strontium	Dissolved	mg/L		0.104	0.112	0.039	0.001
Tellurium	Dissolved	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Thallium	Dissolved	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Thorium	Dissolved	mg/L		<0.0004	<0.0004	<0.0004	0.0004
Tin	Dissolved	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Uranium	Dissolved	mg/L		0.0008	<0.0004	<0.0004	0.0004
Vanadium	Dissolved	mg/L		<0.00010	<0.00010	<0.00010	0.0001
Zinc	Dissolved	mg/L		0.184	0.173	0.404	0.001
Zirconium	Dissolved	mg/L		<0.00010	<0.0001	0.00027	0.0001
Metals Total							
Calcium	Total	mg/L		21.0	17.4	7.03	0.05
Iron	Total	mg/L		0.346	0.037	1.14	0.01

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J. Gibson
Company:

Project:
ID: Silver Range Res.
Name: Reb/Snap/Hammer
Location:
LSD:
P.O.:
Acct code:

Lot ID: **960828**
Control Number: B05977
Date Received: Sep 24, 2013
Date Reported: Oct 1, 2013
Report Number: 1859275

			Reference Number	960828-4	960828-5	960828-6	
			Sample Date	Sep 20, 2013	Sep 20, 2013	Sep 20, 2013	
			Sample Time	NA	NA	NA	
			Sample Location	Surf.	Surf.	Surf.	
			Sample Description	Snap#1	Snap#2	Snap#3	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Total - Continued							
Magnesium	Total	mg/L		4.07	4.20	1.35	0.05
Manganese	Total	mg/L		0.0477	0.0220	0.250	0.005
Potassium	Total	mg/L		0.77	0.77	0.79	0.1
Silicon	Total	mg/L		3.56	3.48	4.33	0.05
Sulfur	Total	mg/L		13.8	16.0	6.3	0.1
Sodium	Total	mg/L		2.09	2.12	1.79	0.02
Titanium	Total	mg/L		<0.0010	0.0030	0.0105	0.001
Aluminum	Total	mg/L		0.074	0.105	0.892	0.005
Antimony	Total	mg/L		<0.0002	<0.0002	<0.0002	0.0002
Arsenic	Total	mg/L		0.0010	<0.0002	0.0019	0.0002
Barium	Total	mg/L		0.023	0.020	0.022	0.001
Beryllium	Total	mg/L		0.00008	0.00050	0.00039	0.00004
Bismuth	Total	mg/L		<0.001	<0.001	<0.001	0.001
Boron	Total	mg/L		<0.005	<0.005	<0.005	0.004
Cadmium	Total	mg/L		0.00083	0.00135	0.00164	0.00001
Chromium	Total	mg/L		<0.0004	<0.0004	0.0006	0.0004
Cobalt	Total	mg/L		0.00019	0.00027	0.00035	0.00002
Copper	Total	mg/L		<0.001	0.001	0.002	0.001
Lead	Total	mg/L		0.0010	0.0001	0.0025	0.0001
Lithium	Total	mg/L		0.002	0.003	0.001	0.001
Mercury	Total	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Molybdenum	Total	mg/L		0.0001	<0.0001	<0.0001	0.0001
Nickel	Total	mg/L		0.013	0.042	0.002	0.001
Selenium	Total	mg/L		<0.0006	<0.0006	<0.0006	0.0006
Silver	Total	mg/L		<0.00001	<0.00001	0.00002	0.00001
Strontium	Total	mg/L		0.108	0.113	0.040	0.001
Tellurium	Total	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Thallium	Total	mg/L		<0.00001	<0.00001	0.00002	0.00001
Thorium	Total	mg/L		<0.0004	<0.0004	<0.0004	0.0004
Tin	Total	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Uranium	Total	mg/L		0.0008	<0.0004	0.0004	0.0004
Vanadium	Total	mg/L		0.0002	<0.0001	0.0008	0.0001
Zinc	Total	mg/L		0.192	0.168	0.438	0.001
Zirconium	Total	mg/L		<0.0001	<0.0001	0.0004	0.0001
Physical and Aggregate Properties							
Solids	Total Suspended	mg/L		3	<2	16	1

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J. Gibson
Company:

Project:
ID: Silver Range Res.
Name: Reb/Snap/Hammer
Location:
LSD:
P.O.:
Acct code:

Lot ID: **960828**
Control Number: B05977
Date Received: Sep 24, 2013
Date Reported: Oct 1, 2013
Report Number: 1859275

			Reference Number	960828-4	960828-5	960828-6	
			Sample Date	Sep 20, 2013	Sep 20, 2013	Sep 20, 2013	
			Sample Time	NA	NA	NA	
			Sample Location	Surf.	Surf.	Surf.	
			Sample Description	Snap#1	Snap#2	Snap#3	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Physical and Aggregate Properties - Continued							
Solids	Total Dissolved	mg/L		98	104	46	5
Routine Water							
pH	at 25 °C			7.40	6.98	6.43	
Electrical Conductivity		µS/cm at 25 C		158	145	63	1
Calcium	Dissolved	mg/L		20.8	17.3	6.87	0.1
Iron	Dissolved	mg/L		0.133	0.010	0.130	0.005
Magnesium	Dissolved	mg/L		4.00	4.17	1.32	0.1
Manganese	Dissolved	mg/L		0.038	0.018	0.193	0.001
Potassium	Dissolved	mg/L		0.8	0.8	0.7	0.1
Silicon	Dissolved	mg/L		3.31	3.34	3.66	0.05
Sodium	Dissolved	mg/L		2.0	2.0	1.7	0.1
Bicarbonate		mg/L		34	12	<5	5
Carbonate		mg/L		<6	<6	<6	6
Hydroxide		mg/L		<5	<5	<5	5
P-Alkalinity	as CaCO3	mg/L		<5	<5	<5	5
T-Alkalinity	as CaCO3	mg/L		28	10	<5	5
Chloride	Dissolved	mg/L		0.10	0.28	0.36	0.05
Nitrate - N	Dissolved	mg/L		0.02	0.10	<0.01	0.01
Nitrite - N	Dissolved	mg/L		<0.01	<0.01	<0.01	0.01
Sulfate (SO4)	Dissolved	mg/L		43.3	51.4	19.8	0.5
Hardness	as CaCO3	mg/L		68	60	23	5
Hardness	Total	mg CaCO3/L		69.2	60.7	23.1	1

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J. Gibson
Company:

Project:
ID: Silver Range Res.
Name: Reb/Snap/Hammer
Location:
LSD:
P.O.:
Acct code:

Lot ID: **960828**
Control Number: B05977
Date Received: Sep 24, 2013
Date Reported: Oct 1, 2013
Report Number: 1859275

		Reference Number	960828-7	960828-8	960828-9	
		Sample Date	Sep 20, 2013	Sep 20, 2013	Sep 20, 2013	
		Sample Time	NA	NA	NA	
		Sample Location	Surf.	Surf.	Surf.	
		Sample Description	Snap#4	Snap#3 Duplicate	Ham #1	
		Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Dissolved						
Sulfur	Dissolved	mg/L	12.2	6.1	1.4	0.2
Aluminum	Dissolved	mg/L	0.008	0.637	0.007	0.005
Antimony	Dissolved	mg/L	<0.0002	<0.0002	<0.0002	0.0002
Arsenic	Dissolved	mg/L	0.0003	0.0016	0.0030	0.0002
Barium	Dissolved	mg/L	0.017	0.020	0.111	0.001
Beryllium	Dissolved	mg/L	<0.00004	0.00038	<0.00004	0.00004
Bismuth	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Boron	Dissolved	mg/L	<0.004	<0.004	<0.004	0.004
Cadmium	Dissolved	mg/L	0.00002	0.00163	<0.00001	0.00001
Chromium	Dissolved	mg/L	<0.0004	<0.0004	0.0005	0.0004
Cobalt	Dissolved	mg/L	0.00010	0.00027	0.00007	0.00002
Copper	Dissolved	mg/L	<0.001	0.002	<0.001	0.001
Lead	Dissolved	mg/L	<0.0001	0.0022	<0.0001	0.0001
Lithium	Dissolved	mg/L	<0.001	<0.001	0.002	0.001
Molybdenum	Dissolved	mg/L	0.00026	<0.00010	0.00062	0.0001
Nickel	Dissolved	mg/L	0.001	0.002	<0.001	0.001
Selenium	Dissolved	mg/L	<0.0006	<0.0006	<0.0006	0.0006
Silver	Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Titanium	Dissolved	mg/L	<0.010	<0.010	<0.010	0.01
Strontium	Dissolved	mg/L	0.108	0.039	0.118	0.001
Tellurium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium	Dissolved	mg/L	<0.00001	0.00001	<0.00001	0.00001
Thorium	Dissolved	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Uranium	Dissolved	mg/L	0.0018	0.0004	0.0008	0.0004
Vanadium	Dissolved	mg/L	0.00012	0.00041	0.00024	0.0001
Zinc	Dissolved	mg/L	0.002	0.429	0.002	0.001
Zirconium	Dissolved	mg/L	<0.00010	0.00016	<0.00010	0.0001
Routine Water						
pH	at 25 °C		7.40		7.77	
Electrical Conductivity		µS/cm at 25 C	158		183	1
Calcium	Dissolved	mg/L	23.9	7.13	27.3	0.1
Iron	Dissolved	mg/L	0.124	0.782	0.108	0.005
Magnesium	Dissolved	mg/L	2.71	1.35	5.81	0.1
Manganese	Dissolved	mg/L	0.013	0.236	0.009	0.001
Potassium	Dissolved	mg/L	0.7	0.8	0.7	0.1

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J. Gibson
Company:

Project:
ID: Silver Range Res.
Name: Reb/Snap/Hammer
Location:
LSD:
P.O.:
Acct code:

Lot ID: **960828**
Control Number: B05977
Date Received: Sep 24, 2013
Date Reported: Oct 1, 2013
Report Number: 1859275

		Reference Number	960828-7	960828-8	960828-9	
		Sample Date	Sep 20, 2013	Sep 20, 2013	Sep 20, 2013	
		Sample Time	NA	NA	NA	
		Sample Location	Surf.	Surf.	Surf.	
		Sample Description	Snap#4	Snap#3 Duplicate	Ham #1	
		Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Routine Water - Continued						
Silicon	Dissolved	mg/L	3.04	3.92	2.49	0.05
Sodium	Dissolved	mg/L	1.7	1.6	2.4	0.1
Bicarbonate		mg/L	42		111	5
Carbonate		mg/L	<6		<6	6
Hydroxide		mg/L	<5		<5	5
P-Alkalinity	as CaCO3	mg/L	<5		<5	5
T-Alkalinity	as CaCO3	mg/L	34		91	5
Chloride	Dissolved	mg/L	0.14		0.07	0.05
Nitrate - N	Dissolved	mg/L	0.07		<0.01	0.01
Nitrite - N	Dissolved	mg/L	<0.01		<0.01	0.01
Sulfate (SO4)	Dissolved	mg/L	37.4		3.2	0.5
Hardness	as CaCO3	mg/L	71	23	92	5
Hardness	Total	mg CaCO3/L	73.7		95.3	1

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J. Gibson
Company:

Project:
ID: Silver Range Res.
Name: Reb/Snap/Hammer
Location:
LSD:
P.O.:
Acct code:

Lot ID: **960828**
Control Number: B05977
Date Received: Sep 24, 2013
Date Reported: Oct 1, 2013
Report Number: 1859275

	Reference Number	960828-7	960828-9	960828-10	
	Sample Date	Sep 20, 2013	Sep 20, 2013	Sep 20, 2013	
	Sample Time	NA	NA	NA	
	Sample Location	Surf.	Surf.	Surf.	
	Sample Description	Snap#4	Ham #1	Ham #2	
	Matrix	Water	Water	Water	
Analyte	**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Inorganic Nonmetallic Parameters					
Organic Carbon Total Nonpurgeable	mg/L	2.0	4.2	2.4	0.5
Cyanide Total	mg/L	0.002	<0.002	<0.002	0.002
Ammonia - N	mg/L	0.01	0.01	<0.01	.01
Phosphorus Total	mg/L	0.007	0.030	0.007	0.003
Metals Total					
Calcium Total	mg/L	24.8	28.0	32.2	0.05
Iron Total	mg/L	0.306	0.483	0.250	0.01
Magnesium Total	mg/L	2.82	6.16	9.56	0.05
Manganese Total	mg/L	0.0176	0.0219	0.0186	0.005
Potassium Total	mg/L	0.74	0.87	0.45	0.1
Silicon Total	mg/L	3.28	3.01	3.44	0.05
Sulfur Total	mg/L	12.4	1.4	4.5	0.1
Sodium Total	mg/L	1.82	2.54	1.55	0.02
Titanium Total	mg/L	0.0012	0.0045	<0.0010	0.001
Aluminum Total	mg/L	0.067	0.180	0.014	0.005
Antimony Total	mg/L	<0.0002	<0.0002	<0.0002	0.0002
Arsenic Total	mg/L	0.0004	0.0046	0.0009	0.0002
Barium Total	mg/L	0.017	0.121	0.062	0.001
Beryllium Total	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth Total	mg/L	<0.001	<0.001	<0.001	0.001
Boron Total	mg/L	<0.005	<0.005	<0.005	0.004
Cadmium Total	mg/L	0.00003	0.00001	<0.00001	0.00001
Chromium Total	mg/L	<0.0004	0.0004	<0.0004	0.0004
Cobalt Total	mg/L	0.00016	0.00018	0.00008	0.00002
Copper Total	mg/L	<0.001	<0.001	<0.001	0.001
Lead Total	mg/L	0.0001	0.0004	<0.0001	0.0001
Lithium Total	mg/L	0.001	0.002	0.001	0.001
Mercury Total	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Molybdenum Total	mg/L	0.0003	0.0007	0.0006	0.0001
Nickel Total	mg/L	0.001	0.001	<0.001	0.001
Selenium Total	mg/L	<0.0006	<0.0006	<0.0006	0.0006
Silver Total	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Strontium Total	mg/L	0.114	0.121	0.104	0.001
Tellurium Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium Total	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Thorium Total	mg/L	<0.0004	<0.0004	<0.0004	0.0004

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**960828**
Report To:	J. Gibson & Associates	ID:	Silver Range Res.	Control Number:	B05977
	Box 20913	Name:	Reb/Snap/Hammer	Date Received:	Sep 24, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Oct 1, 2013
	Y1A 6P2	LSD:		Report Number:	1859275
Attn:	John Gibson	P.O.:			
Sampled By:	J. Gibson	Acct code:			
Company:					

			Reference Number	960828-7	960828-9	960828-10	
			Sample Date	Sep 20, 2013	Sep 20, 2013	Sep 20, 2013	
			Sample Time	NA	NA	NA	
			Sample Location	Surf.	Surf.	Surf.	
			Sample Description	Snap#4	Ham #1	Ham #2	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Total - Continued							
Tin	Total	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Uranium	Total	mg/L		0.0018	0.0008	0.0008	0.0004
Vanadium	Total	mg/L		0.0003	0.0006	0.0001	0.0001
Zinc	Total	mg/L		0.002	0.003	0.002	0.001
Zirconium	Total	mg/L		0.0006	0.0002	<0.0001	0.0001
Physical and Aggregate Properties							
Solids	Total Suspended	mg/L		<2	<2	<2	1
Solids	Total Dissolved	mg/L		86	98	122	5

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Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J. Gibson
Company:

Project:
ID: Silver Range Res.
Name: Reb/Snap/Hammer
Location:
LSD:
P.O.:
Acct code:

Lot ID: **960828**
Control Number: B05977
Date Received: Sep 24, 2013
Date Reported: Oct 1, 2013
Report Number: 1859275

			Reference Number	960828-10	960828-11	960828-12	
			Sample Date	Sep 20, 2013	Sep 20, 2013	Sep 20, 2013	
			Sample Time	NA	NA	NA	
			Sample Location	Surf.	Surf.	Surf.	
			Sample Description	Ham #2	Ham #3	Ham #4	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Dissolved							
Sulfur	Dissolved	mg/L		4.3	4.9	1.1	0.2
Aluminum	Dissolved	mg/L		<0.005	0.007	0.028	0.005
Antimony	Dissolved	mg/L		<0.0002	<0.0002	<0.0002	0.0002
Arsenic	Dissolved	mg/L		0.0007	0.0002	0.0002	0.0002
Barium	Dissolved	mg/L		0.060	0.050	0.017	0.001
Beryllium	Dissolved	mg/L		<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Dissolved	mg/L		<0.001	<0.001	<0.001	0.001
Boron	Dissolved	mg/L		<0.004	<0.004	<0.004	0.004
Cadmium	Dissolved	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Chromium	Dissolved	mg/L		0.0005	0.0006	<0.0004	0.0004
Cobalt	Dissolved	mg/L		0.00007	0.00010	0.00004	0.00002
Copper	Dissolved	mg/L		<0.001	<0.001	<0.001	0.001
Lead	Dissolved	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Lithium	Dissolved	mg/L		<0.001	<0.001	<0.001	0.001
Molybdenum	Dissolved	mg/L		0.00054	0.00043	<0.00010	0.0001
Nickel	Dissolved	mg/L		<0.001	0.001	<0.001	0.001
Selenium	Dissolved	mg/L		<0.0006	<0.0006	<0.0006	0.0006
Silver	Dissolved	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Titanium	Dissolved	mg/L		<0.010	<0.010	<0.010	0.01
Strontium	Dissolved	mg/L		0.098	0.089	0.029	0.001
Tellurium	Dissolved	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Thallium	Dissolved	mg/L		<0.00001	<0.00001	<0.00001	0.00001
Thorium	Dissolved	mg/L		<0.0004	<0.0004	<0.0004	0.0004
Tin	Dissolved	mg/L		<0.0001	<0.0001	<0.0001	0.0001
Uranium	Dissolved	mg/L		0.0008	0.0007	<0.0004	0.0004
Vanadium	Dissolved	mg/L		0.00018	0.00021	0.00012	0.0001
Zinc	Dissolved	mg/L		0.001	0.005	0.001	0.001
Zirconium	Dissolved	mg/L		<0.00010	<0.00010	0.00011	0.0001
Routine Water							
pH	at 25 °C			7.93	7.93	7.27	
Electrical Conductivity		µS/cm at 25 C		224	224	43	1
Calcium	Dissolved	mg/L		31.4	30.7	5.88	0.1
Iron	Dissolved	mg/L		0.145	0.079	0.051	0.005
Magnesium	Dissolved	mg/L		9.17	9.96	0.91	0.1
Manganese	Dissolved	mg/L		0.015	0.017	0.003	0.001
Potassium	Dissolved	mg/L		0.5	0.3	0.3	0.1

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**960828**
Report To:	J. Gibson & Associates	ID:	Silver Range Res.	Control Number:	B05977
	Box 20913	Name:	Reb/Snap/Hammer	Date Received:	Sep 24, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Oct 1, 2013
	Y1A 6P2	LSD:		Report Number:	1859275
Attn:	John Gibson	P.O.:			
Sampled By:	J. Gibson	Acct code:			
Company:					

			Reference Number	960828-10	960828-11	960828-12	
			Sample Date	Sep 20, 2013	Sep 20, 2013	Sep 20, 2013	
			Sample Time	NA	NA	NA	
			Sample Location	Surf.	Surf.	Surf.	
			Sample Description	Ham #2	Ham #3	Ham #4	
			Matrix	Water	Water	Water	
Analyte		**Units**		**Results**	**Results**	**Results**	Nominal Detection Limit
Routine Water - Continued							
Silicon	Dissolved	mg/L		3.22	3.57	3.60	0.05
Sodium	Dissolved	mg/L		1.7	1.4	1.7	0.1
Bicarbonate		mg/L		126	123	20	5
Carbonate		mg/L		<6	<6	<6	6
Hydroxide		mg/L		<5	<5	<5	5
P-Alkalinity	as CaCO3	mg/L		<5	<5	<5	5
T-Alkalinity	as CaCO3	mg/L		103	101	16	5
Chloride	Dissolved	mg/L		0.12	0.13	0.18	0.05
Nitrate - N	Dissolved	mg/L		0.02	0.08	0.02	0.01
Nitrite - N	Dissolved	mg/L		<0.01	<0.01	<0.01	0.01
Sulfate (SO4)	Dissolved	mg/L		14.3	14.3	3.9	0.5
Hardness	as CaCO3	mg/L		116	118	18	5
Hardness	Total	mg CaCO3/L		120	118	18.8	1

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J. Gibson
Company:

Project:
ID: Silver Range Res.
Name: Reb/Snap/Hammer
Location:
LSD:
P.O.:
Acct code:

Lot ID: **960828**
Control Number: B05977
Date Received: Sep 24, 2013
Date Reported: Oct 1, 2013
Report Number: 1859275

		Reference Number	960828-11	960828-12		
		Sample Date	Sep 20, 2013	Sep 20, 2013		
		Sample Time	NA	NA		
		Sample Location	Surf.	Surf.		
		Sample Description	Ham #3	Ham #4		
		Matrix	Water	Water		
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Inorganic Nonmetallic Parameters						
Organic Carbon	Total Nonpurgeable	mg/L	1.8	2.8		0.5
Cyanide	Total	mg/L	<0.002	<0.002		0.002
Ammonia - N		mg/L	<0.01	<0.01		.01
Phosphorus	Total	mg/L	0.004	0.011		0.003
Physical and Aggregate Properties						
Solids	Total Suspended	mg/L	<2	<2		1
Solids	Total Dissolved	mg/L	124	26		5

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Analytical Report

Bill To: J. Gibson & Associates
Report To: J. Gibson & Associates
Box 20913
Whitehorse, YT, Canada
Y1A 6P2
Attn: John Gibson
Sampled By: J. Gibson
Company:

Project:
ID: Silver Range Res.
Name: Reb/Snap/Hammer
Location:
LSD:
P.O.:
Acct code:

Lot ID: **960828**
Control Number: B05977
Date Received: Sep 24, 2013
Date Reported: Oct 1, 2013
Report Number: 1859275

		Reference Number	960828-11	960828-12	960828-13	
		Sample Date	Sep 20, 2013	Sep 20, 2013	Sep 20, 2013	
		Sample Time	NA	NA	NA	
		Sample Location	Surf.	Surf.	Surf.	
		Sample Description	Ham #3	Ham #4	Ham #2 Duplicate	
		Matrix	Water	Water	Water	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Metals Total						
Calcium	Total	mg/L	30.5	5.95	32.1	0.05
Iron	Total	mg/L	0.142	0.269	0.262	0.01
Magnesium	Total	mg/L	10.1	0.94	9.47	0.05
Manganese	Total	mg/L	0.0211	0.0115	0.0181	0.005
Potassium	Total	mg/L	0.30	0.32	0.46	0.1
Silicon	Total	mg/L	3.71	3.86	3.41	0.05
Sulfur	Total	mg/L	5.0	1.1	4.5	0.1
Sodium	Total	mg/L	1.40	1.84	1.69	0.02
Titanium	Total	mg/L	<0.0010	0.0043	<0.0010	0.001
Aluminum	Total	mg/L	0.023	0.166	0.016	0.005
Antimony	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0002
Arsenic	Total	mg/L	0.0003	0.0004	0.0008	0.0002
Barium	Total	mg/L	0.052	0.019	0.062	0.001
Beryllium	Total	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Total	mg/L	<0.001	<0.001	<0.001	0.001
Boron	Total	mg/L	<0.005	<0.005	<0.005	0.004
Cadmium	Total	mg/L	<0.00001	0.00002	<0.00001	0.00001
Chromium	Total	mg/L	0.0004	<0.0004	<0.0004	0.0004
Cobalt	Total	mg/L	0.00012	0.00012	0.00008	0.00002
Copper	Total	mg/L	<0.001	<0.001	<0.001	0.001
Lead	Total	mg/L	<0.0001	0.0002	<0.0001	0.0001
Lithium	Total	mg/L	<0.001	<0.001	0.001	0.001
Mercury	Total	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Molybdenum	Total	mg/L	0.0005	<0.0001	0.0006	0.0001
Nickel	Total	mg/L	<0.001	<0.001	<0.001	0.001
Selenium	Total	mg/L	<0.0006	<0.0006	<0.0006	0.0006
Silver	Total	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Strontium	Total	mg/L	0.092	0.029	0.104	0.001
Tellurium	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium	Total	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Thorium	Total	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Uranium	Total	mg/L	0.0008	<0.0004	0.0009	0.0004
Vanadium	Total	mg/L	0.0002	0.0003	0.0002	0.0001
Zinc	Total	mg/L	0.002	0.003	0.002	0.001
Zirconium	Total	mg/L	<0.0001	0.0001	<0.0001	0.0001

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**960828**
Report To:	J. Gibson & Associates	ID:	Silver Range Res.	Control Number:	B05977
	Box 20913	Name:	Reb/Snap/Hammer	Date Received:	Sep 24, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Oct 1, 2013
	Y1A 6P2	LSD:		Report Number:	1859275
Attn:	John Gibson	P.O.:			
Sampled By:	J. Gibson	Acct code:			
Company:					

Reference Number	960828-13
Sample Date	Sep 20, 2013
Sample Time	NA
Sample Location	Surf.
Sample Description	Ham #2 Duplicate
Matrix	Water

Analyte		Units	Results	Results	Results	Nominal Detection Limit
Metals Dissolved						
Sulfur	Dissolved	mg/L	4.3			0.2
Aluminum	Dissolved	mg/L	0.006			0.005
Antimony	Dissolved	mg/L	<0.0002			0.0002
Arsenic	Dissolved	mg/L	0.0006			0.0002
Barium	Dissolved	mg/L	0.061			0.001
Beryllium	Dissolved	mg/L	<0.00004			0.00004
Bismuth	Dissolved	mg/L	<0.001			0.001
Boron	Dissolved	mg/L	<0.004			0.004
Cadmium	Dissolved	mg/L	0.00001			0.00001
Chromium	Dissolved	mg/L	0.0005			0.0004
Cobalt	Dissolved	mg/L	0.00008			0.00002
Copper	Dissolved	mg/L	<0.001			0.001
Lead	Dissolved	mg/L	<0.0001			0.0001
Lithium	Dissolved	mg/L	0.001			0.001
Molybdenum	Dissolved	mg/L	0.00055			0.0001
Nickel	Dissolved	mg/L	<0.001			0.001
Selenium	Dissolved	mg/L	<0.0006			0.0006
Silver	Dissolved	mg/L	<0.00001			0.00001
Titanium	Dissolved	mg/L	<0.010			0.01
Strontium	Dissolved	mg/L	0.098			0.001
Tellurium	Dissolved	mg/L	<0.0001			0.0001
Thallium	Dissolved	mg/L	<0.00001			0.00001
Thorium	Dissolved	mg/L	<0.0004			0.0004
Tin	Dissolved	mg/L	<0.0001			0.0001
Uranium	Dissolved	mg/L	0.0009			0.0004
Vanadium	Dissolved	mg/L	0.00019			0.0001
Zinc	Dissolved	mg/L	0.001			0.001
Zirconium	Dissolved	mg/L	<0.00010			0.0001
Routine Water						
Calcium	Dissolved	mg/L	31.8			0.1
Iron	Dissolved	mg/L	0.132			0.005
Magnesium	Dissolved	mg/L	9.28			0.1
Manganese	Dissolved	mg/L	0.016			0.001
Potassium	Dissolved	mg/L	0.5			0.1
Silicon	Dissolved	mg/L	3.24			0.05
Sodium	Dissolved	mg/L	1.7			0.1

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Analytical Report

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**960828**
Report To:	J. Gibson & Associates	ID:	Silver Range Res.	Control Number:	B05977
	Box 20913	Name:	Reb/Snap/Hammer	Date Received:	Sep 24, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Oct 1, 2013
	Y1A 6P2	LSD:		Report Number:	1859275
Attn:	John Gibson	P.O.:			
Sampled By:	J. Gibson	Acct code:			
Company:					

Reference Number	960828-13
Sample Date	Sep 20, 2013
Sample Time	NA
Sample Location	Surf.
Sample Description	Ham #2 Duplicate
Matrix	Water

Analyte		Units	Results	Results	Results	Nominal Detection Limit
Routine Water - Continued						
Hardness	as CaCO3	mg/L	118			5

Approved by:

Randy Neumann, BSc
General Manager

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Methodology and Notes

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**960828**
Report To:	J. Gibson & Associates	ID:	Silver Range Res.	Control Number:	B05977
	Box 20913	Name:	Reb/Snap/Hammer	Date Received:	Sep 24, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Oct 1, 2013
	Y1A 6P2	LSD:		Report Number:	1859275
Attn:	John Gibson	P.O.:			
Sampled By:	J. Gibson	Acct code:			
Company:					

Method of Analysis

Method Name	Reference	Method	Date Analysis Started	Location
Alk, pH, EC, Turb in water (Surrey)	APHA	* Alkalinity - Titration Method, 2320 B	25-Sep-13	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	* Conductivity, 2510 B	25-Sep-13	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	* pH - Electrometric Method, 4500-H+ B	25-Sep-13	Exova Surrey
Ammonia-N in Water (Surrey)	APHA	* Flow Injection Analysis, 4500-NH3 H	26-Sep-13	Exova Surrey
Ammonia-N in Water (Surrey)	APHA	* Flow Injection Analysis, 4500-NH3 H	27-Sep-13	Exova Surrey
Anions by IEC in water (Surrey)	APHA	* Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	25-Sep-13	Exova Surrey
Carbon Organic (Total) in water (TOC)	APHA	High-Temperature Combustion Method, 5310 B	26-Sep-13	Exova Edmonton
Cyanide (Total) in water	US EPA	* US EPA method, 335.3	30-Sep-13	Exova Edmonton
Mercury Low Level (Total) in water (Surrey)	EPA	* Mercury in Water by Cold Vapor Atomic Fluorescence Spectrometry, 245.7	27-Sep-13	Exova Surrey
Metals SemiTrace (Dissolved) in water (Surrey)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	26-Sep-13	Exova Surrey
Metals SemiTrace (Total) in Water (Surrey)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	26-Sep-13	Exova Surrey
Phosphorus - total by Smartchem (Surrey)	APHA	* Preliminary Acid Hydrolysis, Ascorbic Acid Reduction Method, 4500-P B,E	26-Sep-13	Exova Surrey
Solids Dissolved (Total, Fixed and Volatile) - Surrey	APHA	* Total Dissolved Solids Dried at 180 C, 2540 C	26-Sep-13	Exova Surrey
Solids Suspended (Total, Fixed and Volatile)	APHA	* Total Suspended Solids Dried at 103-105'C, 2540 D	26-Sep-13	Exova Surrey
Trace Metals (dissolved) in Water (Surrey)	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	26-Sep-13	Exova Surrey
Trace Metals (dissolved) in Water (Surrey)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	26-Sep-13	Exova Surrey
Trace Metals (Total) in Water (Surrey)	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	26-Sep-13	Exova Surrey
Trace Metals (Total) in Water (Surrey)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	26-Sep-13	Exova Surrey

** Reference Method Modified*

References

APHA	Standard Methods for the Examination of Water and Wastewater
US EPA	US Environmental Protection Agency Test Methods

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Methodology and Notes

Bill To:	J. Gibson & Associates	Project:		Lot ID:	**960828**
Report To:	J. Gibson & Associates	ID:	Silver Range Res.	Control Number:	B05977
	Box 20913	Name:	Reb/Snap/Hammer	Date Received:	Sep 24, 2013
	Whitehorse, YT, Canada	Location:		Date Reported:	Oct 1, 2013
	Y1A 6P2	LSD:		Report Number:	1859275
Attn:	John Gibson	P.O.:			
Sampled By:	J. Gibson	Acct code:			
Company:					

Comments:

- Analysis was performed on samples 960828-1 to 12 that exceeded the recommended holding time for Total Phosphorus analysis.
- Some total metal results were less than dissolved metal results for lot 960828. The results were verified and are within expected measurement uncertainty.
- pH analysis was performed past the recommended holding time of 15 minutes from sample collection.
- An appropriately preserved sample was not received for Ammonia in water analysis of sample # 960766-1 to 3 Analysis was performed on unpreserved sample.

Please direct any inquiries regarding this report to our Client Services group.
Results relate only to samples as submitted.
The test report shall not be reproduced except in full, without the written approval of the laboratory.

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Testing Advising Assuring
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Billing Information

Company: J. Gibson & Associates
Address:
Whitehorse, YT Y1A 6P2
Attention: John Gibson
Phone: (867) 633-4522
Cell:
Fax: (867) 668-6895
E-mail: ludditegibson@gmail.com
Agreement ID: 6646
Copy of report: X

Copy of Report To:

Company: J. Gibson & Associates
Address:
Whitehorse, YT Y1A 6P2
Attention: John Gibson
Phone: (867) 633-4522
Cell:
Fax: (867) 668-6895
E-mail: ludditegibson@gmail.com
Copy of invoice: X

RUSH Priority

Upon filling out this section, client accepts that surcharges will be applied to the analysis

Date Required
As Indicated | All Analysis

When "ASAP" is requested, turn around will default to a 100% RUSH priority, with pricing and turn around time to match. Please contact the lab prior to submitting RUSH samples.

Signature

Project Information

Project ID: SILVERRANGE REG.
Project Name: REG/SNAP/HAMMOR.
Project Location:
Legal Location:
PO/AFE#:
Proj. Acct. Code:

Report Results

E-mail | Online | PDF | QA/QC Report
Mail | Fax | Excel

Special Instructions/Comments (please include contact information including ph. # if different from above).

RCHEM = pH, EC, TP, N_2, N_3, TALK, Cl, SO_4, HARDT, TSS, TDS

TW23 (E), METALS+NITRIL, NH_4+SULFURIC, TOCHCL

Include Regulatory Requirements Below:

Sample Custody (please print)

Sampled by: J GIBSON
Company:
I authorize Exova to proceed with the work indicated on this form:
Date: Sept 23/13 Initial: JG.

This section for Lab use only

Date/Time stamp: 09-24-13P05:17 RCVD

	Sample Identification	Location	Depth IN CM M	Date/Time sampled	Matrix	Sampling Method	Number of Containers	RCHEM	NH4	TOC	TW23 exc F	TW24 exc THG	TCN
1	REGS #1	SURF		Sept 20th	H2O	GRAB	6	✓	✓	✓		✓	✓
2	#2			20th			6	✓	✓	✓		✓	✓
3	#3	↓		20th	↓	↓	6	✓	✓	✓		✓	✓
4													
5	SNAP #1			Sept 20th			6	✓	✓	✓		✓	✓
6	#2			↓			6	✓	✓	✓		✓	✓
7	#3						6	✓	✓	✓		✓	✓
8	#4						6	✓	✓	✓		✓	✓
9	SNAP #3 DUPLICATE						1					✓	
10													
11	HAM #1			Sept 20			6	✓	✓	✓		✓	✓
12	#2						6	✓	✓	✓		✓	✓
13	#3			↓			6	✓	✓	✓		✓	✓
14	#4						6	✓	✓	✓		✓	✓
15	HAM #4 DUPLICATE						2					✓	

Enter tests above (√ relevant samples below)

Indicate below any deficiencies in the condition of samples:

- Were Exova supplies used?
- Was there any damage to the shipping container?
- Were the containers packaged well?
- Were any extra samples received (document below)?
- Are samples within recommended holding times/temp?

ED 120-00

Environmental Sample Information Sheet

Note: Proper completion of this form is required in order to proceed with analysis

Please indicate any potentially hazardous samples

Page 1 of 1 Control # B05977

Indicate lot number or affix lot label here:
09-24-13P05:18 RCVD
LOT: 960828 COC

Shipping: COD Y/N
Cooler temp: 3.3

and size of coolers received:
Delivery Method:
Waybill:
Received by:

APPENDIX 2

Flow Volume Calculations

September 2013

Stage Discharge Calculations

Project: **Silver Range - Rebel Claims** **Date:** **20-Sep-13**

Site: **Rebel #1**

Point *(m)*	**Depth** *(meters)*	**Width** *(meters)*	**Velocity** *(m/sec)*	**Area** *(m sq)*	**Volume** *(cms)*
4.32	0	0.04	0	0	0.000
4.4	0.1	0.24	0.215	0.024	0.005
4.8	0.13	0.4	0.215	0.052	0.011
5.2	0.2	0.4	0.485	0.08	0.039
5.6	0.19	0.4	0.464	0.076	0.035
6	0.22	0.4	0.543	0.088	0.048
6.4	0.24	0.4	0.603	0.096	0.058
6.8	0.24	0.4	0.592	0.096	0.057
7.2	0.23	0.4	0.592	0.092	0.054
7.6	0.24	0.4	0.645	0.096	0.062
8	0.25	0.4	0.677	0.1	0.068
8.4	0.26	0.4	0.677	0.104	0.070
8.8	0.3	0.4	0.677	0.12	0.081
9.2	0.35	0.35	0.736	0.1225	0.090
9.5	0.38	0.3	0.705	0.114	0.080
9.8	0.42	0.3	0.677	0.126	0.085
10.1	0.45	0.315	0.677	0.14175	0.096
10.43	0	0.165	0	0	0.000
6.11		6.11			**0.9404**

All velocity readings at 0.6 depth

No Staff Gauge

Data logger reading: No logger

Channel under ice? ice free

Method: Price Velocity meter #2/ TS Wading Rod

Measurement By: J.Gibson

Stage Discharge Calculations

Project: **Silver Range - Rebel Claims** **Date:** **20-Sep-13**

Site: **Rebel #2**

Point *(m)*	**Depth** *(meters)*	**Width** *(meters)*	**Velocity** *(m/sec)*	**Area** *(m sq)*	**Volume** *(cms)*
1.2	0	0.05	0	0	0.000
1.3	0.15	0.1	0	0.015	0.000
1.4	0.21	0.1	0.225	0.021	0.005
1.5	0.2	0.1	0.192	0.02	0.004
1.6	0.16	0.1	0.189	0.016	0.003
1.7	0.17	0.1	0.148	0.017	0.003
1.8	0.14	0.1	0.341	0.014	0.005
1.9	0.13	0.1	0.603	0.013	0.008
2	0.16	0.1	0.509	0.016	0.008
2.1	0.15	0.1	0.372	0.015	0.006
2.2	0.14	0.1	0.72	0.014	0.010
2.3	0.13	0.125	0.72	0.01625	0.012
2.45	0.08	0.155	0.455	0.0124	0.006
2.61	0	0.08	0	0	0.000
1.41		1.41			**0.0679**

All velocity readings at 0.6 depth

No Staff Gauge

Data logger reading: No logger

Channel under ice? ice free

Method: Price Velocity meter #2/ TS Wading Rod

Measurement By: J.Gibson

Stage Discharge Calculations

Project: **Silver Range - SNAP Claims** **Date:** **20 Sept, 2013**

Site: **SNAP #1**

Point *(m)*	**Depth** *(meters)*	**Width** *(meters)*	**Velocity** *(m/sec)*	**Area** *(m sq)*	**Volume** *(cms)*
1.57	0	0.215	0	0	0.000
2	0.24	0.465	0.577	0.1116	0.064
2.5	0.21	0.5	0.661	0.105	0.069
3	0.17	0.5	0.497	0.085	0.042
3.5	0.16	0.5	0.165	0.08	0.013
4	0.22	0.5	0.235	0.11	0.026
4.5	0.2	0.5	0.453	0.1	0.045
5	0.19	0.5	0.304	0.095	0.029
5.5	0.15	0.5	0.543	0.075	0.041
6	0.18	0.5	0.769	0.09	0.069
6.5	0.18	0.5	0.736	0.09	0.066
7	0.2	0.5	0.805	0.1	0.081
7.5	0.32	0.5	0.845	0.16	0.135
8	0.38	0.4	0.825	0.152	0.125
8.3	0.35	0.3	0.943	0.105	0.099
8.6	0.35	0.3	0.805	0.105	0.085
8.9	0.34	0.25	0.661	0.085	0.056
9.1	0.32	0.2	0.616	0.064	0.039
9.3	0	0.1	0	0	0.000
7.73		7.73			**1.0857**

All velocity readings at 0.6 depth

No Staff Gauge

Data logger reading: No logger

Channel under ice? ice free

Method: Price Velocity meter #2/ TS Wading Rod

Measurement By: J.Gibson

Stage Discharge Calculations

Project: **Silver Range - SNAP Claims** **Date:** **20 Sept, 2013**

Site: **SNAP#2**

Point *(m)*	**Depth** *(meters)*	**Width** *(meters)*	**Velocity** *(m/sec)*	**Area** *(m sq)*	**Volume** *(cms)*
1.22	0	0.19	0	0	0.000
1.6	0.06	0.34	0.24	0.0204	0.005
1.9	0.12	0.3	0.28	0.036	0.010
2.2	0.21	0.3	0.497	0.063	0.031
2.5	0.2	0.3	0.661	0.06	0.040
2.8	0.19	0.25	0.882	0.0475	0.042
3	0.21	0.2	0.901	0.042	0.038
3.2	0.12	0.2	0.752	0.024	0.018
3.4	0.15	0.2	0.464	0.03	0.014
3.6	0.14	0.2	0.393	0.028	0.011
3.8	0.15	0.25	0.513	0.0375	0.019
4.1	0.13	0.3	0.251	0.039	0.010
4.4	0.07	0.31	0.041	0.0217	0.001
4.72	0	0.16	0	0	0.000
3.50		3.5			**0.2386**

All velocity readings at 0.6 depth

No Staff Gauge

Data logger reading: No logger

Channel under ice?Y ice free

Method: Price Velocity meter #2/ TS Wading Rod

Measurement By: J.Gibson

Stage Discharge Calculations

Project: Silver Range - HAMMER Claims **Date:** Sept 20,2013

Site: HAM #2

Point (m)	Depth (meters)	Width (meters)	Velocity (m/sec)	Area (m sq)	Volume (cms)
1.86	0	0.07	0	0	0.000
2	0.14	0.22	0.169	0.0308	0.005
2.3	0.17	0.3	0.28	0.051	0.014
2.6	0.21	0.3	0.291	0.063	0.018
2.9	0.13	0.3	0.882	0.039	0.034
3.2	0.21	0.25	0.474	0.0525	0.025
3.4	0.18	0.2	0.805	0.036	0.029
3.6	0.16	0.2	0.752	0.032	0.024
3.8	0.23	0.2	0.736	0.046	0.034
4	0.21	0.2	0.825	0.042	0.035
4.2	0.24	0.2	0.72	0.048	0.035
4.4	0.27	0.2	0.72	0.054	0.039
4.6	0.24	0.25	0.989	0.06	0.059
4.9	0.21	0.36	0.291	0.0756	0.022
5.32	0	0.21	0	0	0.000
3.46		3.46			**0.3734**

All velocity readings at 0.6 depth

No Staff Gauge

Data logger reading: No logger

Channel under ice?Y ice free

Method: Price Velocity meter #2/ TS Wading Rod

Measurement By: J Gibson

Stage Discharge Calculations

Project: Silver Range - HAMMER Claims **Date:** 20-Sep-13

Site: HAM #3

Point (m)	Depth (meters)	Width (meters)	Velocity (m/sec)	Area (m sq)	Volume (cms)
1.15	0	0.025	0	0	0.000
1.2	0.38	0.075	0.434	0.0285	0.012
1.3	0.37	0.1	0.444	0.037	0.016
1.4	0.36	0.1	0.425	0.036	0.015
1.5	0.46	0.1	0.533	0.046	0.025
1.6	0.43	0.1	0.285	0.043	0.012
1.7	0.42	0.1	0.509	0.042	0.021
1.8	0.41	0.1	0.989	0.041	0.041
1.9	0.26	0.1	0.845	0.026	0.022
2	0.25	0.1	0.72	0.025	0.018
2.1	0.22	0.1	0.577	0.022	0.013
2.2	0.2	0.1	0.543	0.02	0.011
2.3	0.21	0.1	0.533	0.021	0.011
2.4	0.22	0.12	0.425	0.0264	0.011
2.54	0	0.07	0.922	0	0.000
1.39		1.39			**0.2287**

All velocity readings at 0.6 depth

No Staff Gauge

Data logger reading: No logger

Channel under ice?Y ice free

Method: Price Velocity meter #2/ TS Wading Rod

Measurement By: J.Gibson

Stage Discharge Calculations

Project: Silver Range - HAMMER Claims **Date:** 20-Sep-13

Site: HAM #4

Point (m)	Depth (meters)	Width (meters)	Velocity (m/sec)	Area (m sq)	Volume (cms)
0.37	0	0.065	0	0	0.000
0.5	0.63	0.115	0.117	0.07245	0.008
0.6	0.65	0.1	0.087	0.065	0.006
0.7	0.62	0.1	0.158	0.062	0.010
0.8	0.65	0.1	0.269	0.065	0.017
0.9	0.58	0.1	0.417	0.058	0.024
1	0.6	0.1	0.453	0.06	0.027
1.1	0.57	0.1	0.554	0.057	0.032
1.2	0.58	0.1	0.485	0.058	0.028
1.3	0.59	0.1	0.464	0.059	0.027
1.4	0.59	0.1	0.254	0.059	0.015
1.5	0.58	0.1	0.24	0.058	0.014
1.6	0.54	0.12	0.225	0.0648	0.015
1.74	0	0.07	0	0	0.000
1.37		1.37			**0.2233**

All velocity readings at 0.6 depth

No Staff Gauge

Data logger reading: No logger

Channel under ice? ice free

Method: Price Velocity meter #2/ TS Wading Rod

Measurement By: J.Gibson

SILVER RANGE RESOURCES LTD.

FIGURE 1

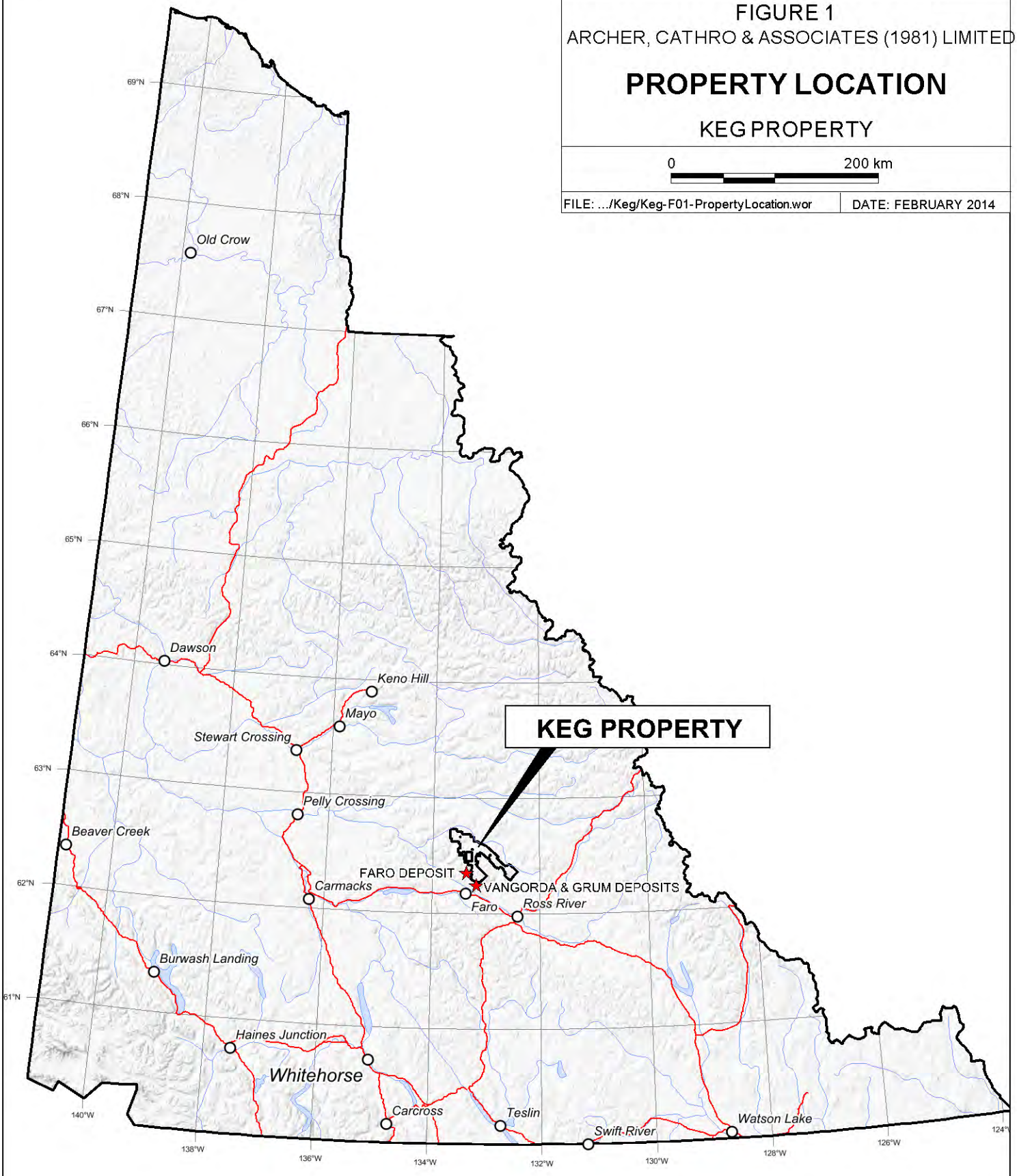
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

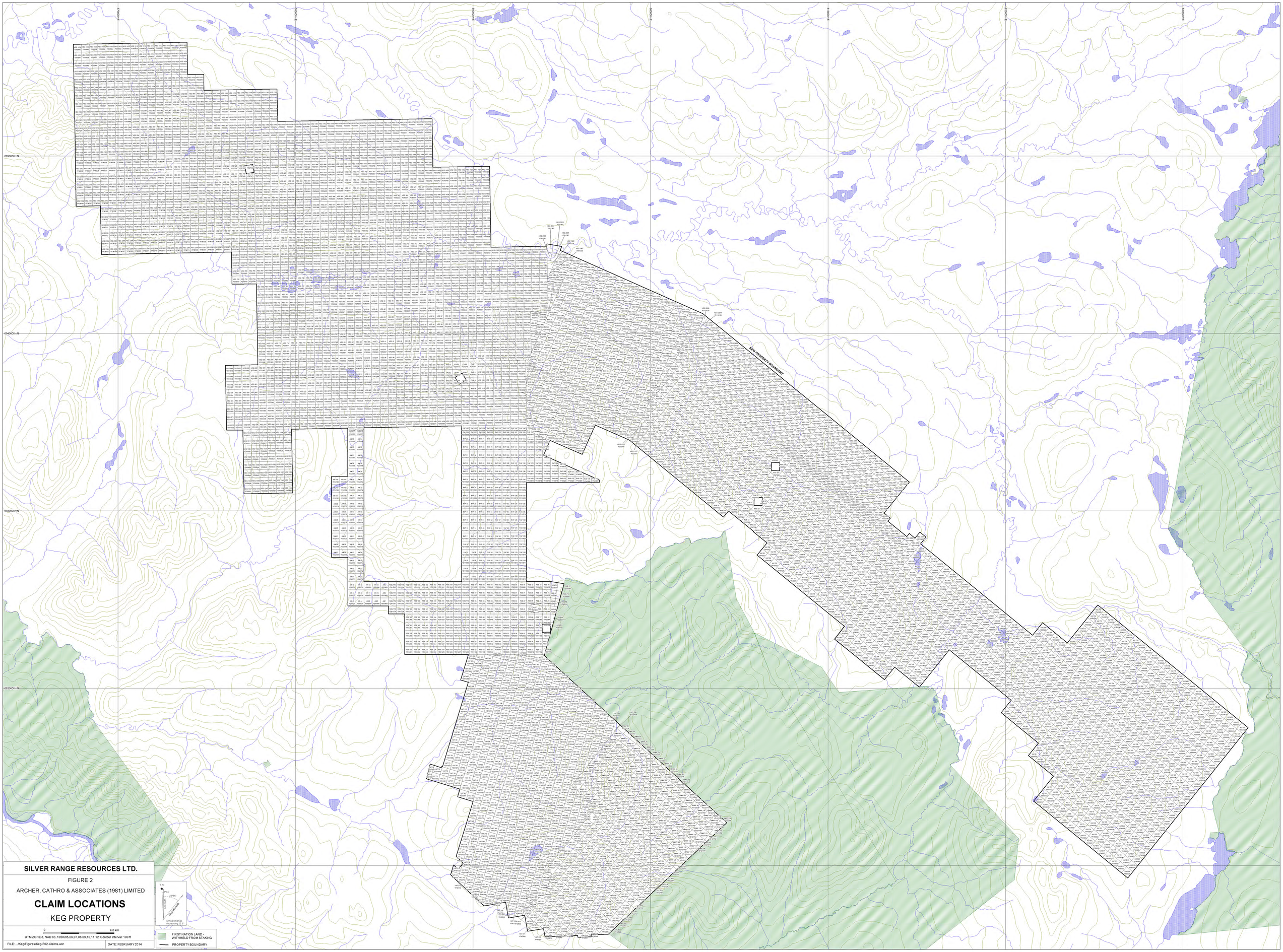
PROPERTY LOCATION

KEG PROPERTY

0 200 km

FILE: .../Keg/Keg-F01-PropertyLocation.wor | DATE: FEBRUARY 2014





SILVER RANGE RESOURCES LTD.

FIGURE 2

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

CLAIM LOCATIONS

KEG PROPERTY

0 4.0 km

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg/Figures/Keg-F02-Claims.wor

DATE: FEBRUARY 2014

T.N.

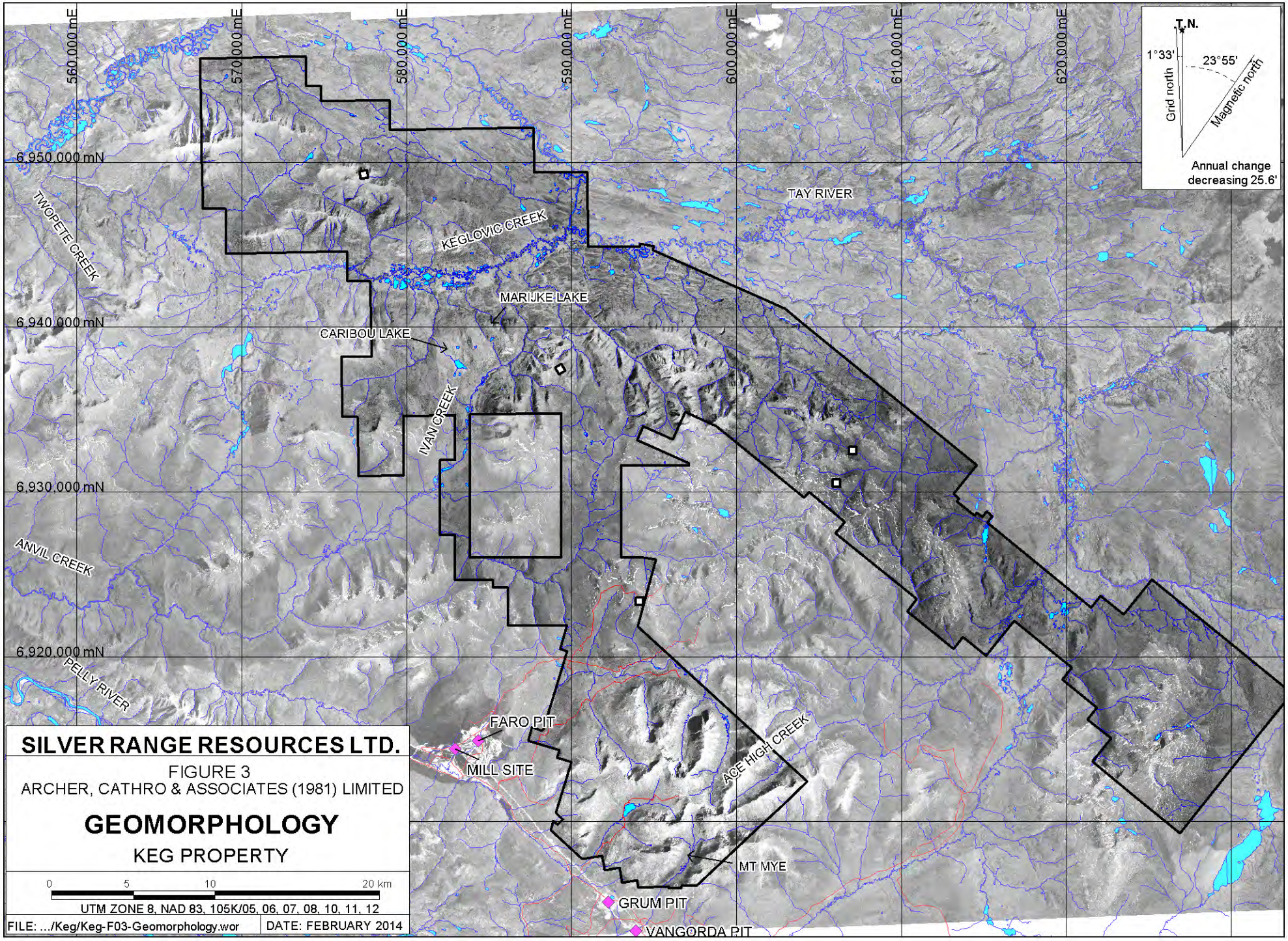
Grid North

Magnetic North

Annual change decreasing 25.6°

FIRST NATION LAND - WITHHELD FROM STAKING

PROPERTY BOUNDARY


560,000 mE
570,000 mE
580,000 mE
590,000 mE
600,000 mE
610,000 mE
620,000 mE
6,950,000 mN
6,940,000 mN
6,930,000 mN
6,920,000 mN
T.N.
1°33'
23°55'
Grid north
Magnetic north
Annual change
decreasing 25.6'
TAY RIVER
TWOPETE CREEK
KEGLOVIC CREEK
MARIJKE LAKE
CARIBOU LAKE
IVAN CREEK
ANVIL CREEK
PELLY RIVER
FARO PIT
MILL SITE
ACE HIGH CREEK
MT MYE
GRUM PIT
VANGORDA PIT
SILVER RANGE RESOURCES LTD.
FIGURE 3
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
GEOMORPHOLOGY
KEG PROPERTY
0
5
10
20 km
UTM ZONE 8, NAD 83, 105K/05, 06, 07, 08, 10, 11, 12
FILE: .../Keg/Keg-F03-Geomorphology.wor
DATE: FEBRUARY 2014

SILVER RANGE RESOURCES LTD.

FIGURE 4
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

HISTORICAL CLAIMS

KEG PROPERTY

T.N.
1°33'
23°55'
Grid north
Magnetic north
Annual change decreasing 25.6'

0 5 10 km

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg/Keg-F04-Historical.wor | DATE: FEBRUARY 2014

★ Mineralized area discussed in text

HISTORICAL CLAIMS REFERED TO IN TEXT (YEAR STAKED)

KEG AREA
- Keg (1990)
- Halo (1974)
- Irma (1972)
- Dana (1972)
- Bark (1967)
- Mark (1966)
- Halo (1966)
- Dane (1966)
- Tara (1966)
- Ivan (1965)

REBEL AREA
- Reb (1990)
- Taf (1971)
- MX (1969)
- AM (1966)
- AC (1966)
- KD (1966)

OWL AREA
- Owl (1969)

YETI AREA
- MC (1966)
- Yeti (1965)

MARKS AREA
- Nor (1975)

CODY RIDGE AREA
- Cody (1986)

HOOT AREA
OWL
OWL AREA
BARK
TARA
IRMA
HALO
KEG
IVAN
DANE
HAL
MARK
DANA
KEG AREA
MC
YETI
YETI AREA
KEG PROPERTY BOUNDARY
MARKS AREA
NOR
DYNEX
REB AREA
REB
TAF
KD
AC
MC
AM
TAF
MX
TIM
TAF
TAF
JET
ZAN
MX
MX
TAF
CODY RIDGE
FARO PIT
MILL SITE
GRUM PIT
6940000mN
6930000mN
6920000mN
570000mE
580000mE
590000mE
600000mE
610000mE
620000mE
630000mE

SILVER RANGE RESOURCES LTD.

FIGURE 5

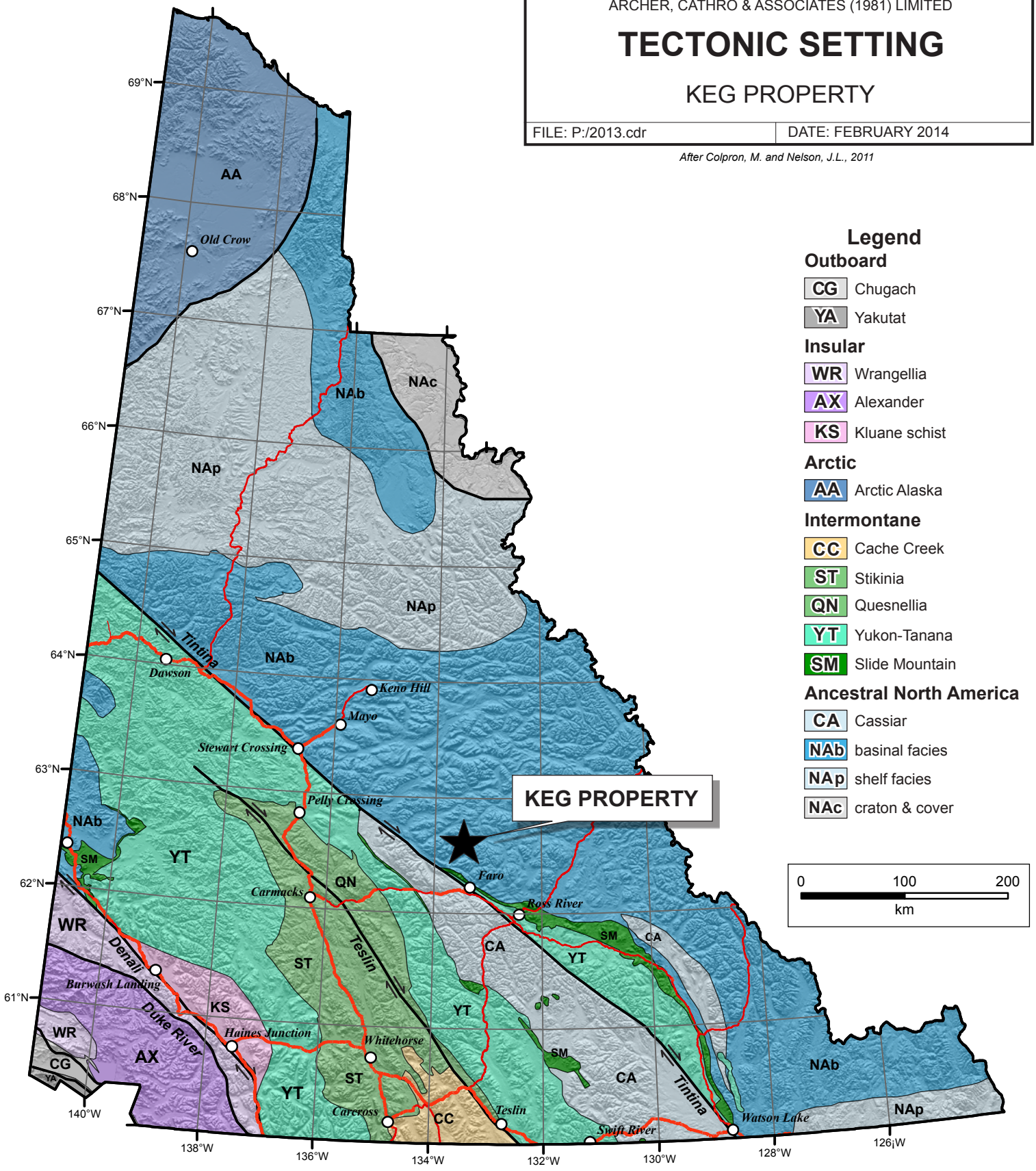
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

TECTONIC SETTING

KEG PROPERTY

FILE: P:/2013.cdr | DATE: FEBRUARY 2014

After Colpron, M. and Nelson, J.L., 2011



Legend

Outboard

- CG Chugach
- YA Yakutat

Insular

- WR Wrangellia
- AX Alexander
- KS Kluane schist

Arctic

- AA Arctic Alaska

Intermontane

- CC Cache Creek
- ST Stikinia
- QN Quesnellia
- YT Yukon-Tanana
- SM Slide Mountain

Ancestral North America

- CA Cassiar
- NAb basinal facies
- NAp shelf facies
- NAc craton & cover

Geological Mapping carried out by
Silver Range Resources Ltd in 2010, 2011
(Mapped area is distinguished by a lack of dashed line hatching)

TERTIARY

Tertiary Volcanics

Tv — small plugs of light grey weathering, flow banded, rhyolitic quartz-sanidine porphyry with rare black, flow banded, quartz-feldspar porphyry with obsidian matrix; Tv2 light grey-green and grey, laminated, fine-grained, welded and ash flow tuffs

CRETACEOUS

South Fork

Kstl — light grey weathered, massive, medium to coarse-grained quartz-feldspar dominated crystal tuff

Selwyn Plutonic Suite

Kssp — light grey to white weathered, biotite +/- hornblende granite with megacrysts of feldspar up to 10cm long

mKV

TRIASSIC

Jones Lake Formation

Trj — grey-brown weathered, thin bedded, calcareous siltstone and sandstone that is sometimes cross bedded and interbedded with silty limestone

CARBONIFEROUS TO PERMIAN

Mount Christie Formation

CPmc — light grey-brown, black and maroon, thin to medium bedded chert with minor interbeds of grey siltstone; maroon thin bedded siltstone

MISSISSIPPIAN

Tay Formation

Mt — light grey weathered, medium bedded, silty limestone interbedded with dark grey, variably siliceous siltstone; Mt2 light brown weathered, thick bedded, dolly arenite, brown weathered, medium bedded, dolomitic limestone; brown weathered, thin bedded sandstone with siltstone interbeds

Mt2

CMsf — light grey, very fine-grained, completely altered rock with veinlets of sulphide comprising dominantly pyrrhotite, pyrite and arsenopyrite

DEVONIAN TO MISSISSIPPIAN

Earn Group

DMe — undivided Earn Group; mostly DMp and Dp

LOWER MISSISSIPPIAN

Fertac Volcanic Unit

Mv — light grey weathered, aphanitic, tuffaceous rocks; grey weathered, medium grained biotite-bearing granitic rock that occurs as rounded bomb-shaped fragments

UPPER DEVONIAN TO MID-MISSISSIPPIAN

Prevost Formation

DMp — brown weathered, laminated and thin-bedded, recessive shale; black, thin bedded siltstone and rare black chert

DMp2 — dark grey to black weathered, resistant chert conglomerate with coarse-grained chert arenite and rare black, graptolitic shale

DMp3 — orange and brown weathered, laminated and thin bedded, burrowed, variably dolomitic, siltstone and fine sandstone; DMp3 is light grey weathered, massive to massive, fine to medium-grained, distinctly vitreous arenite (yellow polygons on map)

LOWER DEVONIAN TO UPPER DEVONIAN

Portrait Lake Formation

Dp — gun-blue weathered, black, recessive shale, siltstone and rare chert

ORDOVICIAN TO SILURIAN

Road River Group

ODrs — buffy orange weathered, grey fresh, fine-grained, mildly calcareous siltstone to silicified siltstone with rare interbeds of limestone and lenses or lenticular bodies of sulphide; black, thin bedded siltstone

CAMBRIAN TO ORDOVICIAN

Rabbitkettle Formation

COrh — green and purple striped, calc-silicate rock with rare layers of dark green, sometimes amygdaloidal mafic volcanic (?) rock up to one meter thick

COrl — dark grey and grey-brown, laminated and thin-bedded, quartzose siltstone with minor shale horizons; buff weathered, dark grey, laminated, fine-grained sandstone and siltstone, laminations may be highlighted by alternating dark grey and grey striped, laminated and thin bedded quartzose siltstone

COrl2

REFERENCE: Gordey, S.P. and Makepeace, A.J. (compilers) 2001: Bedrock Geology, Yukon Territory; Geological Survey of Canada, Open File 3754 and Exploration and Geological Services Division, Yukon India and Northern Affairs Canada, Open File 2001-1, scale 1:1 000 000.

- bedding
- cleavage, foliation
- late foliation, less than cm-spaced fracture set
- fold axis
- fracture
- fault plane
- thrust fault plane
- fold axis; synform
- fold axis; antiform
- defined contact
- approximate contact
- inferred contact
- thrust fault; teeth on hanging wall side
- normal fault; teeth on hanging wall side
- fault; movement unknown
- mapping limit
- A — A' cross section line

Modified from Yukon Regional Geology
Gordey and Makepeace (2001)
(Map area is distinguished by dashed line hatching)

LOWER TERTIARY

Rose

Rd — locally amygdaloidal, dark grey-green olivine basalt necks and flows, farther removed, scattered occurrences of rhyolitic lava and dikes

MID-CRETACEOUS

South Fork

KSt — dark brown weathering, locally columnar jointed, massive, densely welded, biotite-quartz-hornblende-feldspar tuff

Selwyn Suite

mKS — plutonic suite of intermediate to felsic composition and rarely syenitic; equivalent felsic dykes

MIDDLE TO UPPER TRIASSIC

Jones Lake

TrJ — brown to buff weathering, calcareous fine-grained sandstone, argillite and shale; extensive ripple cross-lamination and bioturbation; massive, light grey weathering, fine crystalline, dark grey limestone, minor orange weathering platey limestone

CARBONIFEROUS TO PERMIAN

Mount Christie

CPmc — burrowed, interbedded greenish grey cherty shale and green shale; thin to medium bedded, light grey-green to black chert, black siliceous slate and siltstone, minor quartzite, limestone and dolostone, locally abundant, large grey barite nodules

MISSISSIPPIAN

Tay

Mt — mixed, generally fine clastic and carbonate assemblage with locally thick regionally mappable carbonate horizons

DEVONIAN AND MISSISSIPPIAN

Earn Group

DMe — complex assemblage of submarine fan and channel deposits within siliceous shale and chert and including separated small occurrences of felsic volcanic rocks

Prevost

DMp — thin bedded, laminated slate with thin to thickly interbedded fine to medium grained chert-quartz arenite and wacke; thick members of chert pebble conglomerate, black siliceous siltstone, nodular and bedded barite, rare limestone

Portrait Lake

Dp — silvery blue weathering black shale, argillite, cherty argillite and thin bedded chert, nodular and bedded barite, rare limestone

SILURIAN TO MIDDLE DEVONIAN

McEvoy

SDm — buff, platy siltstone overlain by carbonate and quartzite

ORDOVICIAN TO SILURIAN

Road River Group

Obr — black shale and chert overlain by orange siltstone or buff platy limestone, locally contains beds as old as Middle Cambrian

CAMBRIAN TO ORDOVICIAN

Marmot

Cbm — lower Paleozoic mostly mafic volcanics, in locally thick accumulations but also of common occurrence as undifferentiated thin scattered members within other units

CAMBRIAN TO SILURIAN

Rabbitkettle Formation

COr — basinal limestone that may locally include older and younger basinal pelitic strata undivided

LOWER CAMBRIAN

Gull Lake

ICg — dominantly fine clastic assemblage with local volcanic units

UPPER PROTEROZOIC TO LOWER CAMBRIAN

Hyland Group

PCh — consists upwards of coarse turbiditic clastics, limestone and fine clastics typified by maroon and green shale

SILVER RANGE RESOURCES LTD.

FIGURE 6

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

REGIONAL GEOLOGY

KEG PROPERTY

0 — 4.0 km

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg/Figures/Keg-F05-Geology-Regional.wor

DATE: FEBRUARY 2014

T N — 23°55' — 17°32' — Annual change decreasing 2011

SILVER RANGE RESOURCES LTD.

FIGURE 7

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

PRIMARY ZONE LOCATIONS

KEG PROPERTY

T.N.
1°33'
23°55'
Grid north
Magnetic north
Annual change decreasing 25.6'

0 5 10 km

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg/Keg-F07-ZoneLocations.wor | DATE: FEBRUARY 2014

PAYNE
ZENO
OWL
OWL SW
KEG MAIN
KEG EAST
KEG SOUTH
RGS
DREX
ARCHIMEDES
NEWTON
VENT
EUCLID
MARKS
WELD
GAUSS
KU
REBEL
HAMMER
CODY
CIRQUE
SNAP
RISBY
ORANGE
FARO PIT
MILL SITE
GRUM PIT
KEG PROPERTY BOUNDARY
ANVIL TREND
MOUNT MYE TREND
TAY TREND
10 km
20 km
30km
40 km
6940000mN
6930000mN
6920000mN
560000mE
570000mE
580000mE
590000mE
600000mE
610000mE
620000mE
630000mE

Rock Geochemistry

Sample #	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)	Cu (ppm)	In (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Sn (ppm)	W (ppm)	Zn (ppm)
K280922	2.5	0.01	2.5	0.03	1.9	0.107	0.14	0.7	0.07	0.2	0.05	7
K280923	2.5	0.04	1	0.04	107	0.074	0.33	1.5	0.64	1.1	0.1	87
L840484	2.5	0.33	44.7	0.11	9	0.0025	0.99	11	2.64	3.2	0.2	23
L840485	11	2.11	73.3	0.28	15.7	0.017	0.78	271	15.05	3.1	0.1	119
L840486	5	5.39	154.5	0.64	35.2	0.039	3.33	790	85.5	11	0.6	380

Sample locations covered by other figures

Figure 50
Figure 42
Figure 28
Figure 31
Figure 54
Figure 58
Figure 9
Figure 59
Figure 65
Figure 64
L840486
L840484
L840485
Figure 67
Figure 72
Figure 82
Figure 85
Figure 91
K280923
K280922
Figure 92
Figure 93
Figure 101
Figure 10
Figure 81
Figure 76

KEG PROPERTY BOUNDARY

6940000mN
6930000mN
6920000mN
560000mE
570000mE
580000mE
590000mE
600000mE
610000mE

T.N.
1°33'
23°55'
Grid north
Magnetic north
Annual change decreasing 25.6'

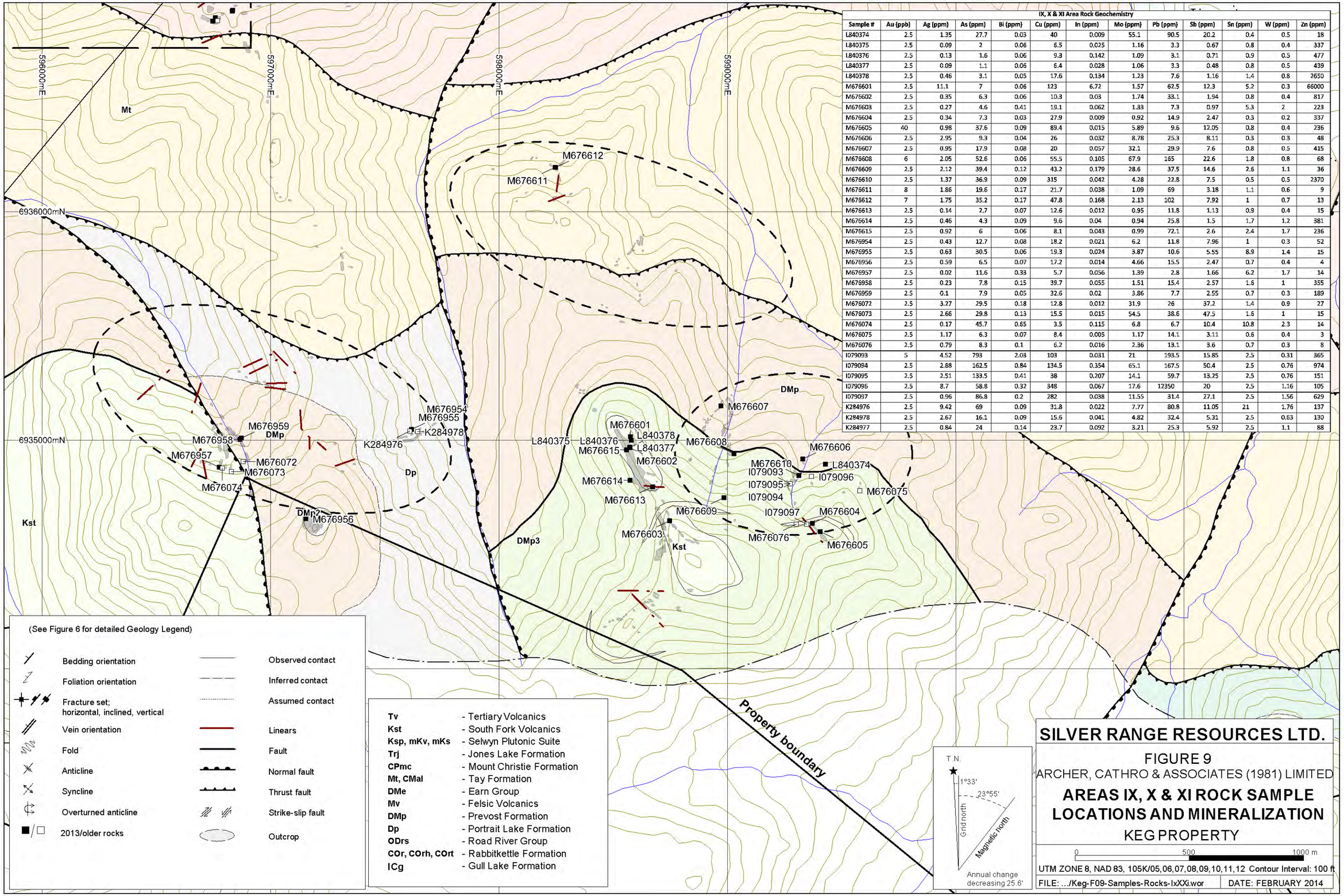
SILVER RANGE RESOURCES LTD.

FIGURE 8
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
ROCK SAMPLE LOCATIONS & MINERALIZATION
KEG PROPERTY

0 5 10 km

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg/Keg-F08-Samples-Rock.wor | DATE: FEBRUARY 2014



IX, X & XI Area Rock Geochemistry												
Sample #	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)	Cu (ppm)	In (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Sn (ppm)	W (ppm)	Zn (ppm)
L840374	2.5	1.35	27.7	0.03	40	0.009	55.1	90.5	20.2	0.4	0.5	18
L840375	2.5	0.09	2	0.06	6.5	0.025	1.16	3.3	0.67	0.8	0.4	337
L840376	2.5	0.13	1.6	0.06	9.3	0.142	1.09	3.1	0.71	0.9	0.5	477
L840377	2.5	0.09	1.1	0.06	6.4	0.028	1.06	3.3	0.48	0.8	0.5	439
L840378	2.5	0.46	3.1	0.05	17.6	0.134	1.23	7.6	1.16	1.4	0.8	2650
M676601	2.5	11.1	7	0.06	123	6.72	1.57	62.5	12.3	5.2	0.3	66000
M676602	2.5	0.35	6.3	0.06	10.3	0.03	1.74	33.1	1.94	0.8	0.4	817
M676603	2.5	0.27	4.6	0.41	19.1	0.062	1.33	7.3	0.97	5.3	2	223
M676604	2.5	0.34	7.3	0.03	27.9	0.009	0.92	14.9	2.47	0.3	0.2	337
M676605	40	0.98	37.6	0.09	89.4	0.015	5.89	9.6	12.05	0.8	0.4	236
M676606	2.5	2.95	9.3	0.04	26	0.032	8.78	25.3	8.11	0.3	0.3	48
M676607	2.5	0.95	17.9	0.08	20	0.057	32.1	29.9	7.6	0.8	0.5	415
M676608	6	2.05	52.6	0.06	55.5	0.105	67.9	165	22.6	1.8	0.8	68
M676609	2.5	2.12	39.4	0.12	43.2	0.179	28.6	37.5	14.6	2.6	1.1	36
M676610	2.5	1.37	36.9	0.09	315	0.042	4.28	22.8	7.5	0.5	0.5	2370
M676611	8	1.86	19.6	0.17	21.7	0.038	1.09	69	3.18	1.1	0.6	9
M676612	7	1.75	35.2	0.17	47.8	0.168	2.13	102	7.92	1	0.7	13
M676613	2.5	0.14	2.7	0.07	12.6	0.012	0.95	11.8	1.13	0.9	0.4	15
M676614	2.5	0.46	4.3	0.09	9.6	0.04	0.94	25.8	1.5	1.7	1.2	381
M676615	2.5	0.92	6	0.06	8.1	0.043	0.99	72.1	2.6	2.4	1.7	236
M676954	2.5	0.43	12.7	0.08	18.2	0.021	6.2	11.8	7.96	1	0.3	52
M676955	2.5	0.63	30.5	0.06	19.3	0.024	3.87	10.6	5.55	8.9	1.4	15
M676956	2.5	0.59	6.5	0.07	17.2	0.014	4.66	15.5	2.47	0.7	0.4	4
M676957	2.5	0.02	11.6	0.33	5.7	0.056	1.39	2.8	1.66	6.2	1.7	14
M676958	2.5	0.23	7.8	0.15	39.7	0.055	1.51	15.4	2.57	1.6	1	355
M676959	2.5	0.1	7.9	0.05	32.6	0.02	3.86	7.7	2.55	0.7	0.3	189
M676072	2.5	3.27	29.5	0.18	12.8	0.012	31.9	26	37.2	1.4	0.9	27
M676073	2.5	2.66	29.8	0.13	15.5	0.015	54.5	38.6	47.5	1.6	1	15
M676074	2.5	0.17	45.7	0.65	3.5	0.115	6.8	6.7	10.4	10.8	2.3	14
M676075	2.5	1.17	6.3	0.07	8.4	0.005	1.17	14.1	3.11	0.6	0.4	3
M676076	2.5	0.79	8.3	0.1	6.2	0.016	2.36	13.1	3.6	0.7	0.3	8
I079093	5	4.52	793	2.03	103	0.031	21	193.5	15.85	2.5	0.31	365
I079094	2.5	2.88	162.5	0.84	134.5	0.354	65.1	167.5	50.4	2.5	0.76	974
I079095	2.5	2.51	133.5	0.41	38	0.207	14.1	59.7	13.25	2.5	0.76	151
I079096	2.5	8.7	58.8	0.32	348	0.067	17.6	12350	20	2.5	1.16	105
I079097	2.5	0.96	86.8	0.2	282	0.038	11.55	31.4	27.1	2.5	1.56	629
K284976	2.5	9.42	69	0.09	31.8	0.022	7.77	80.8	11.05	21	1.76	137
K284978	2.5	2.67	16.1	0.09	15.6	0.041	4.82	32.4	5.31	2.5	0.63	130
K284977	2.5	0.84	24	0.14	23.7	0.092	3.21	25.3	5.92	2.5	1.1	88

(See Figure 6 for detailed Geology Legend)

- Bedding orientation
- Foliation orientation
- Fracture set; horizontal, inclined, vertical
- Vein orientation
- Fold
- Anticline
- Syncline
- Overturned anticline
- 2013/older rocks
- Observed contact
- Inferred contact
- Assumed contact
- Linears
- Fault
- Normal fault
- Thrust fault
- Strike-slip fault
- Outcrop

Tv	- Tertiary Volcanics
Kst	- South Fork Volcanics
Ksp, mKv, mKs	- Selwyn Plutonic Suite
Trj	- Jones Lake Formation
CPmc	- Mount Christie Formation
Mt, CMal	- Tay Formation
DMe	- Earn Group
Mv	- Felsic Volcanics
DMp	- Prevost Formation
Dp	- Portrait Lake Formation
ODrs	- Road River Group
COr, COrh, COrt	- Rabbitkettle Formation
ICg	- Gull Lake Formation

SILVER RANGE RESOURCES LTD.

FIGURE 9

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

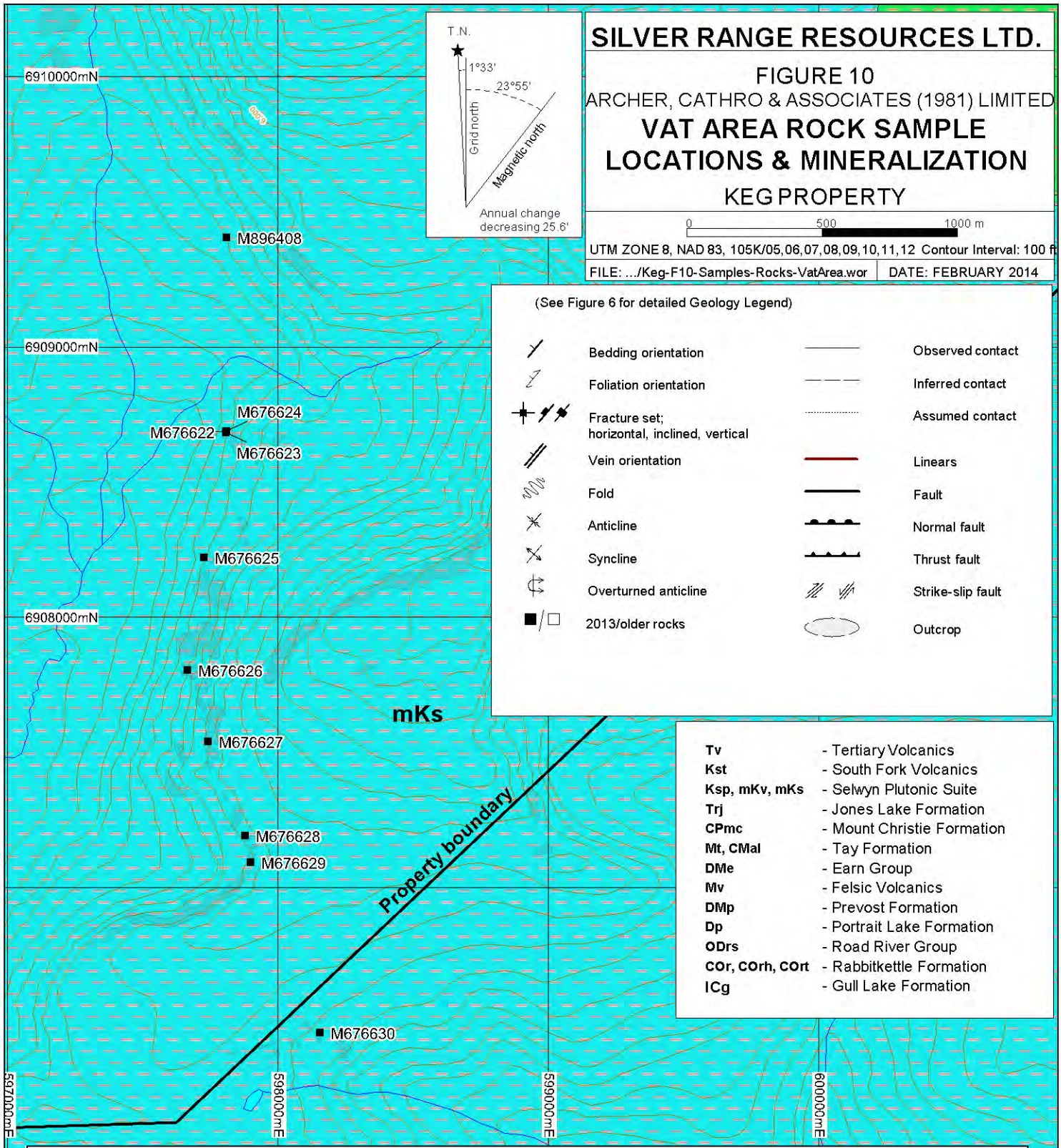
AREAS IX, X & XI ROCK SAMPLE LOCATIONS AND MINERALIZATION

KEG PROPERTY

0 500 1000 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F09-Samples-Rocks-IxXXi.wor | DATE: FEBRUARY 2014



SILVER RANGE RESOURCES LTD.

FIGURE 10

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

VAT AREA ROCK SAMPLE LOCATIONS & MINERALIZATION

KEG PROPERTY

0 500 1000 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F10-Samples-Rocks-VatArea.wor | DATE: FEBRUARY 2014

(See Figure 6 for detailed Geology Legend)

- Bedding orientation
- Foliation orientation
- Fracture set; horizontal, inclined, vertical
- Vein orientation
- Fold
- Anticline
- Syncline
- Overturned anticline
- 2013/older rocks
- Observed contact
- Inferred contact
- Assumed contact
- Linears
- Fault
- Normal fault
- Thrust fault
- Strike-slip fault
- Outcrop

Tv	- Tertiary Volcanics
Kst	- South Fork Volcanics
Ksp, mKv, mKs	- Selwyn Plutonic Suite
Trj	- Jones Lake Formation
CPmc	- Mount Christie Formation
Mt, CMal	- Tay Formation
DMe	- Earn Group
Mv	- Felsic Volcanics
DMp	- Prevost Formation
Dp	- Portrait Lake Formation
ODrs	- Road River Group
COr, COrh, COrt	- Rabbitkettle Formation
ICg	- Gull Lake Formation

Vat Area Rock Geochemistry

Sample #	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)	Cu (ppm)	In (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Sn (ppm)	W (ppm)	Zn (ppm)
M676622	2.5	0.05	1.1	0.3	13.1	0.149	0.38	3.2	0.95	18	136	18
M676623	18	0.05	0.6	2.98	19	0.028	0.66	6.3	0.05	1.7	1	37
M676624	2.5	0.03	0.6	0.56	17.8	0.08	0.35	13.9	0.025	4	1.3	105
M676625	2.5	0.07	0.9	0.65	40.2	0.017	14.15	22.7	0.05	4.9	4.1	45
M676626	2.5	0.13	6.8	0.7	47.5	0.248	1.64	5.3	0.08	36.1	120.5	297
M676627	2.5	0.11	1.2	0.49	5.4	0.032	0.8	81.3	0.95	2.8	0.8	54
M676628	2.5	0.06	3	0.21	27.1	0.085	0.73	22.8	0.18	4.3	2.4	97
M676629	2.5	0.22	0.9	0.61	10.1	0.196	0.43	7	0.2	45.1	0.8	11
M676630	19	0.21	0.3	20.5	23.5	0.022	0.46	32.7	0.11	8.5	5.1	68
M896408	2.5	0.42	0.1	31.4	22.1	0.019	0.25	6.7	0.09	0.6	0.1	4

RGS

DREX

6938000mN

6937000mN

6936000mN

6935000mN

ZZ84589

ZZ84620
ZZ84619
ZZ84618
ZZ84617
ZZ84616
ZZ84615
ZZ84614
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ZZ84611
ZZ84610
ZZ84609

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ZZ84592
ZZ84591
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ZZ84603
ZZ84602
ZZ84601
ZZ84600
ZZ84599
ZZ84598
ZZ84597
ZZ84596
ZZ84593
ZZ84594
ZZ84595

X

ZZ84769

IX

ZZ84651 ZZ84664 ZZ84665
ZZ84652 ZZ84663 ZZ84666
ZZ84653 ZZ84662 ZZ84667 ZZ84675
ZZ84654 ZZ84661 ZZ84668 ZZ84674
ZZ84655 ZZ84660 ZZ84669 ZZ84673
ZZ84656 ZZ84659 ZZ84670 ZZ84672
ZZ84657 ZZ84658 ZZ84671

ZZ84688 ZZ84689 ZZ84701 ZZ84702 ZZ84713 ZZ84714 ZZ84727 ZZ84728 ZZ84761 ZZ84762
ZZ84676 ZZ84687 ZZ84690 ZZ84700 ZZ84703 ZZ84712 ZZ84715 ZZ84726 ZZ84729 ZZ84760 ZZ84763
ZZ84677 ZZ84688 ZZ84691 ZZ84699 ZZ84704 ZZ84711 ZZ84716 ZZ84725 ZZ84730 ZZ84759 ZZ84764
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ZZ84679 ZZ84684 ZZ84693 ZZ84698 ZZ84705 ZZ84709 ZZ84718 ZZ84723 ZZ84752 ZZ84757 ZZ84766
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XI

ZZ84629 ZZ84630 ZZ84643 ZZ84644
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ZZ84623 ZZ84636 ZZ84637 ZZ84649 ZZ84650
ZZ84622
ZZ84621

595000mE
596000mE
597000mE
598000mE
599000mE

SNG diamond drill hole
Primary mineralized zone referred to in text
Secondary soil anomaly referred to in text

T.N.
11°33'
23°55'
Grid north
Magnetic north
Annual change decreasing 25.6'

SILVER RANGE RESOURCES LTD.

FIGURE 11

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

RGS ZONE IX & XI ZONES ANOMALIES SOIL SAMPLE LOCATIONS

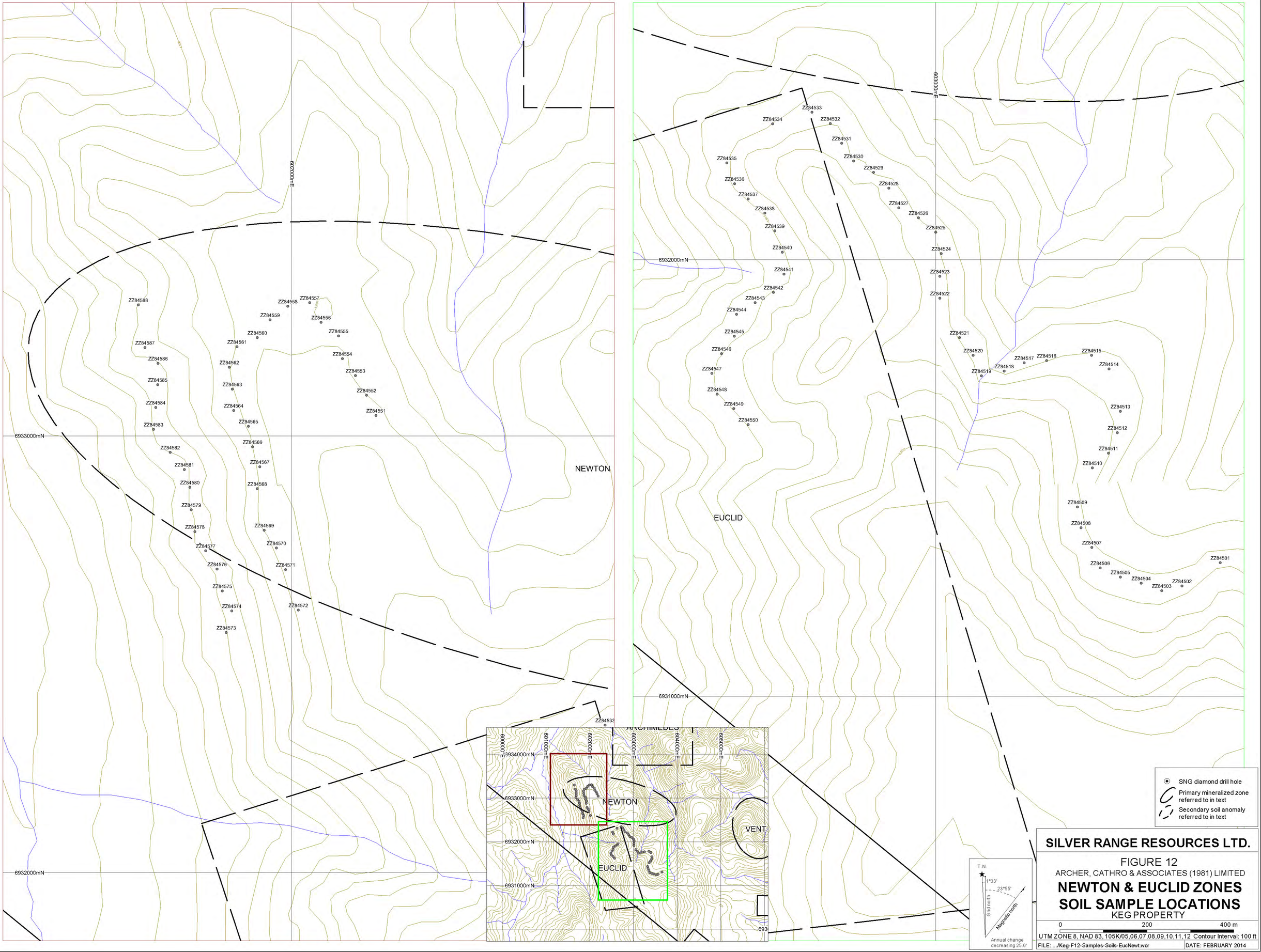
KEG PROPERTY

0 250 500 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F11-Samples-Soil-RgsIxXi.wor

DATE: FEBRUARY 2014



SILVER RANGE RESOURCES LTD.

FIGURE 12

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

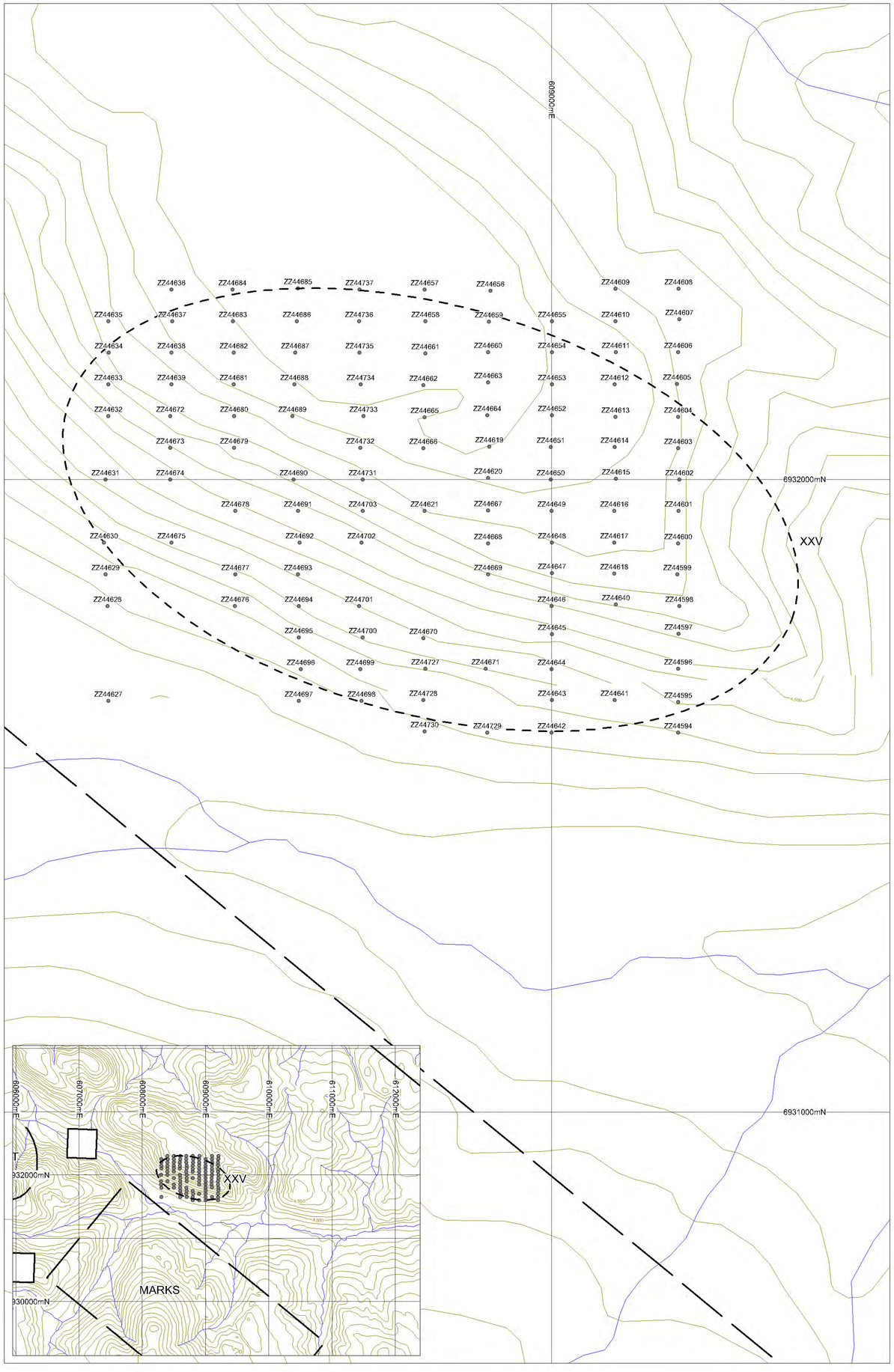
NEWTON & EUCLID ZONES SOIL SAMPLE LOCATIONS

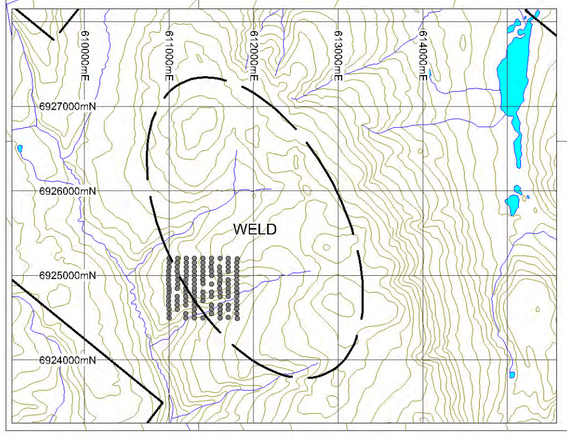
KEG PROPERTY

0 200 400 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F12-Samples-Soils-EucNewt.wor | DATE: FEBRUARY 2014





SNG diamond drill hole
Primary mineralized zone referred to in text
Secondary soil anomaly referred to in text

SILVER RANGE RESOURCES LTD.

FIGURE 13

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

XXV ANOMALY & WELD ZONE SOIL SAMPLE LOCATIONS

KEG PROPERTY

T.N. 1°33' 23°55' Grid north Magnetic north

Annual change decreasing 25.6'

0 200 400 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F13-Samples-Soils-MarksWeld.wor DATE: FEBRUARY 2014

625000mE
626000mE
627000mE
628000mN
6922000mN
6921000mN
6920000mN
6919000mN
6918000mN
6917000mN
ZZ44800 ZZ44799 ZZ44784 ZZ44783
ZZ44801 ZZ44798 ZZ44785 ZZ44782
ZZ44802 ZZ44797 ZZ44786 ZZ44781
ZZ44803 ZZ44796 ZZ44787 ZZ44780
ZZ44788 ZZ44779
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ZZ44777
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ZZ44960
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ZZ44972 GAUSS
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KU ZZ44809
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ZZ44812 ZZ44829 ZZ44874 ZZ44888
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ZZ44819 ZZ44820 ZZ44867 ZZ44882 ZZ44883
ZZ44810
5,000

SNG diamond drill hole
Primary mineralized zone referred to in text
Secondary soil anomaly referred to in text

T.N.
1°33'
23°55'
Grid north
Magnetic north
Annual change decreasing 25.6'

SILVER RANGE RESOURCES LTD.

FIGURE 14

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

KU & GAUSS ZONES
SOIL SAMPLE LOCATIONS

KEG PROPERTY

0 250 500 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F14-Samples-Soils-KuGauss.wor | DATE: FEBRUARY 2014

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595000mE
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6911000mN
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ZZ84909
ZZ84908
ZZ84907
ZZ84906
ZZ84905
ZZ84904
ZZ84903
ZZ84902
ZZ84901
ZZ84900
ZZ84899
ZZ84898
ZZ84897
ZZ84896
ZZ84895
ZZ84894
ZZ84893
ZZ84892
ZZ84891
ZZ84890
ZZ84889
ZZ84888
ZZ84887
ZZ84886

SNG diamond drill hole
Primary mineralized zone referred to in text
Secondary soil anomaly referred to in text

T.N.
1°33'
23°55'
Grid north
Magnetic north
Annual change decreasing 25.6'

SILVER RANGE RESOURCES LTD.

FIGURE 15

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

MOUNT MYE AREA
SOIL SAMPLE LOCATIONS

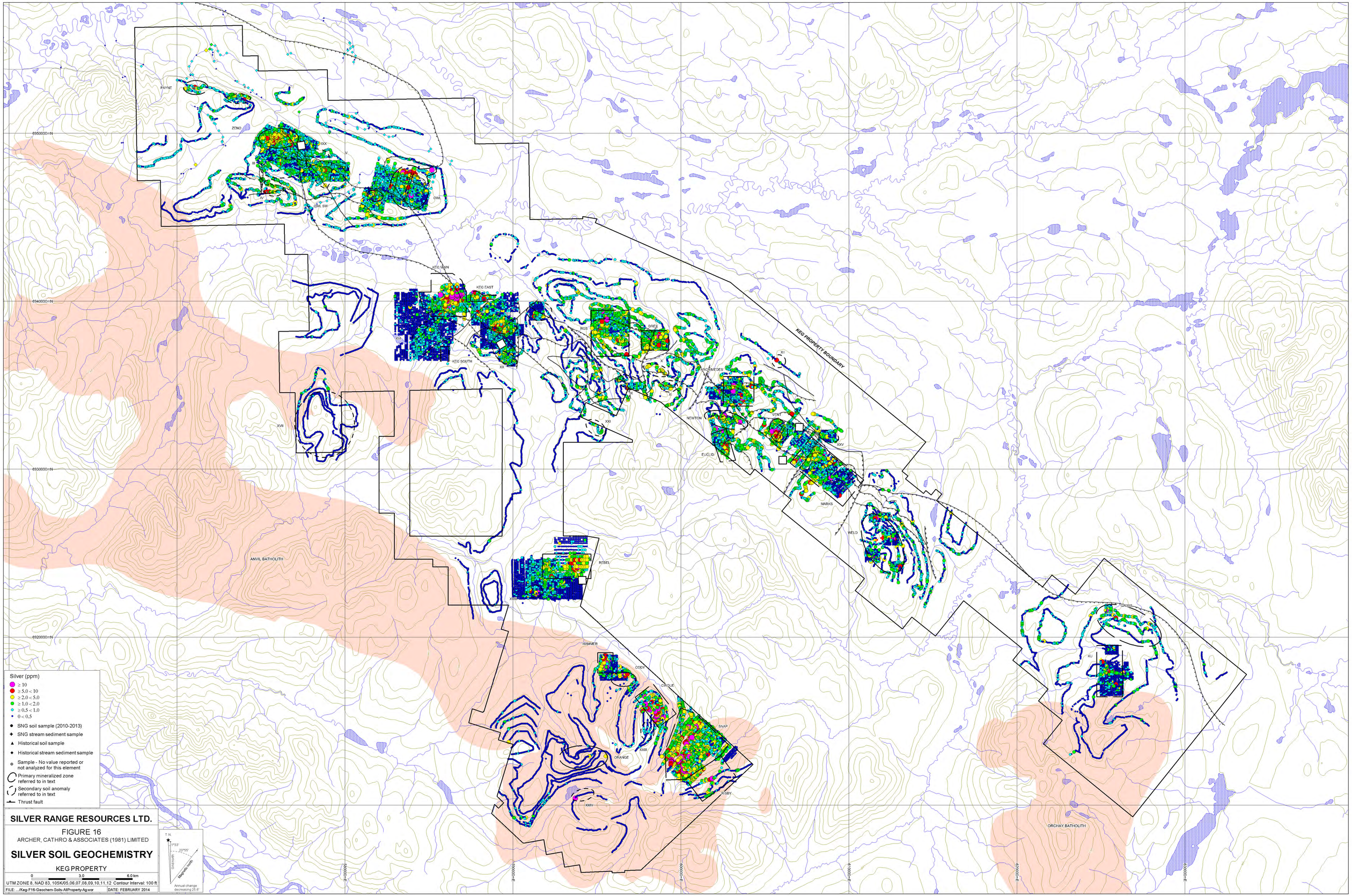
KEG PROPERTY

0 500 1000 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F15-Samples-Soils-MtMye.wor

DATE: FEBRUARY 2014



SILVER RANGE RESOURCES LTD.

FIGURE 16

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

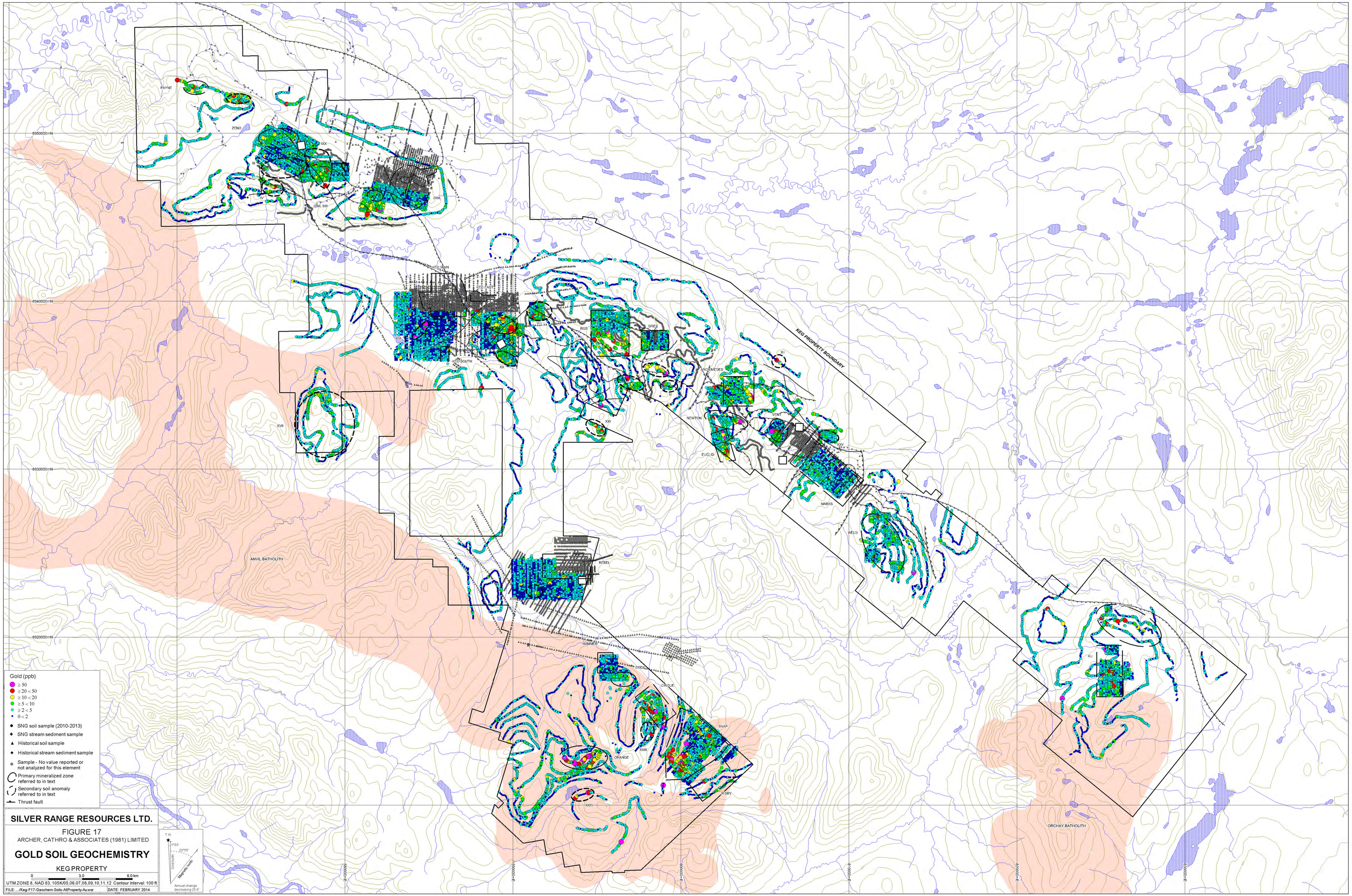
SILVER SOIL GEOCHEMISTRY

KEG PROPERTY

0 3.0 6.0 km

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F16-Geochem-Soils-AllProperty-Ag.wor DATE: FEBRUARY 2014



SILVER RANGE RESOURCES LTD.

FIGURE 17

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

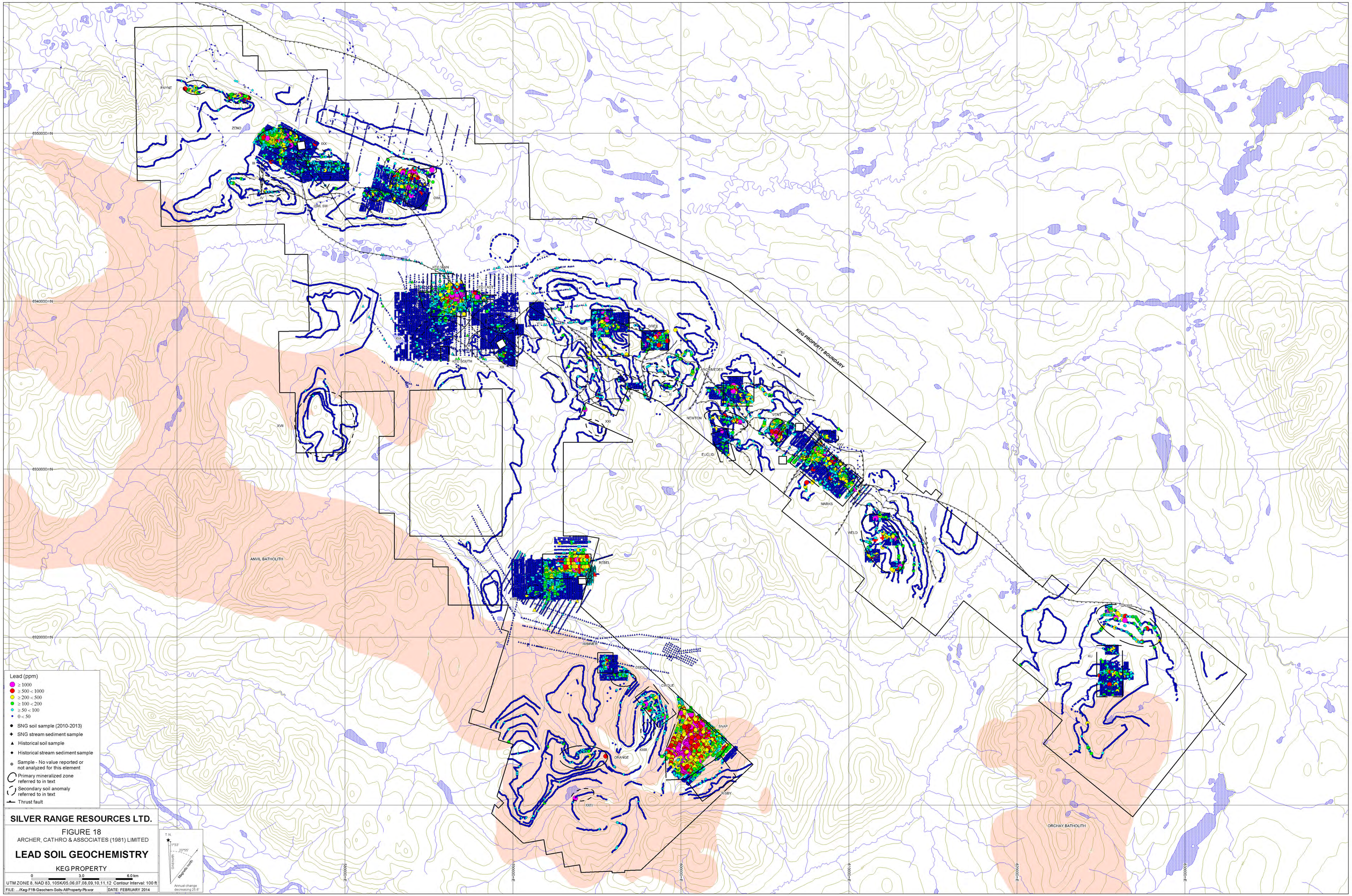
GOLD SOIL GEOCHEMISTRY

KEG PROPERTY

0 3.0 6.0 km

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F17-Geochem-Soils-AllProperty-Au.wor DATE: FEBRUARY 2014



SILVER RANGE RESOURCES LTD.

FIGURE 18

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

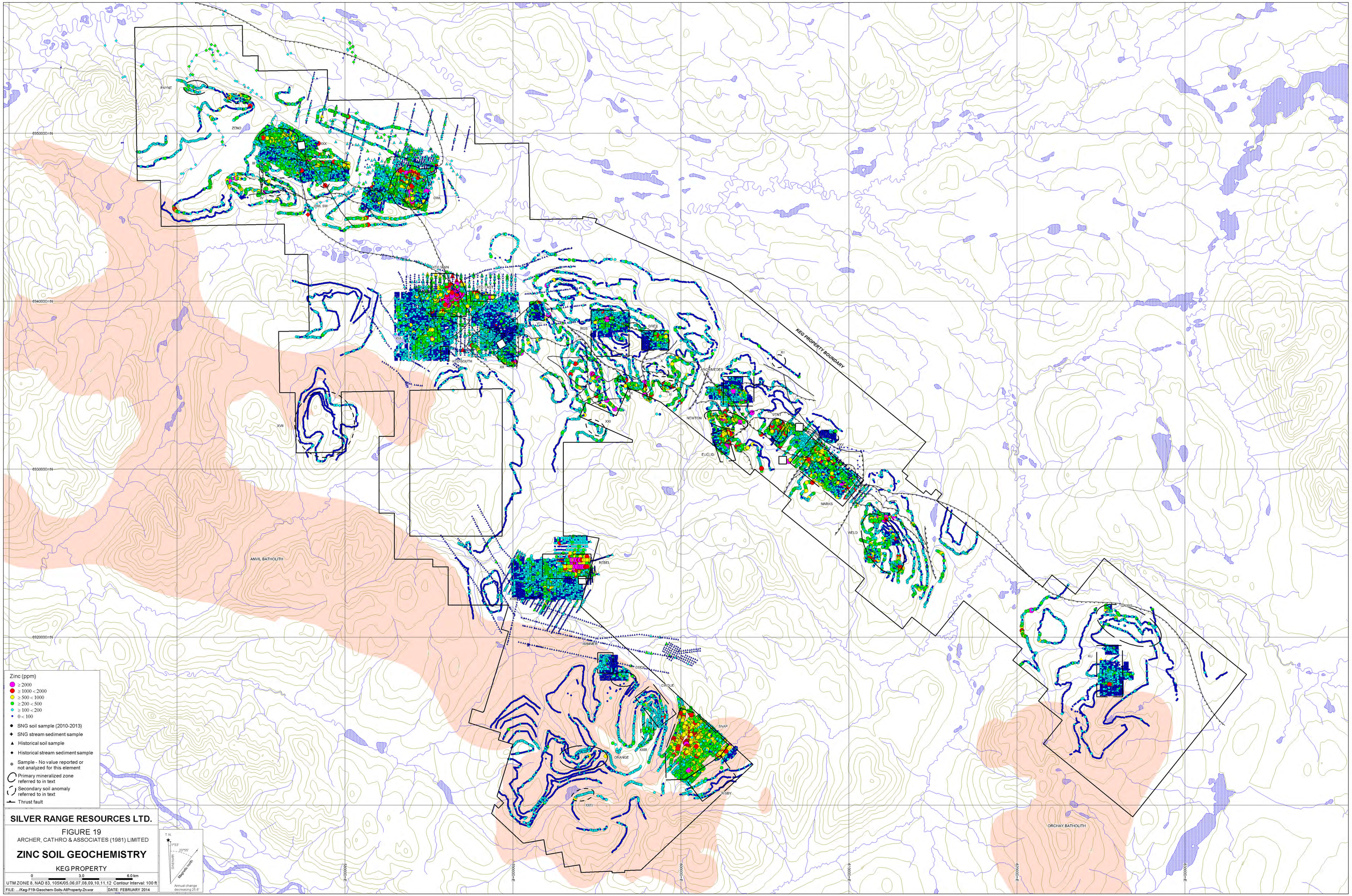
LEAD SOIL GEOCHEMISTRY

KEG PROPERTY

0 3.0 6.0 km

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F18-Geochem-Soils-AllProperty-Pb.wor DATE: FEBRUARY 2014



SILVER RANGE RESOURCES LTD.

FIGURE 19

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

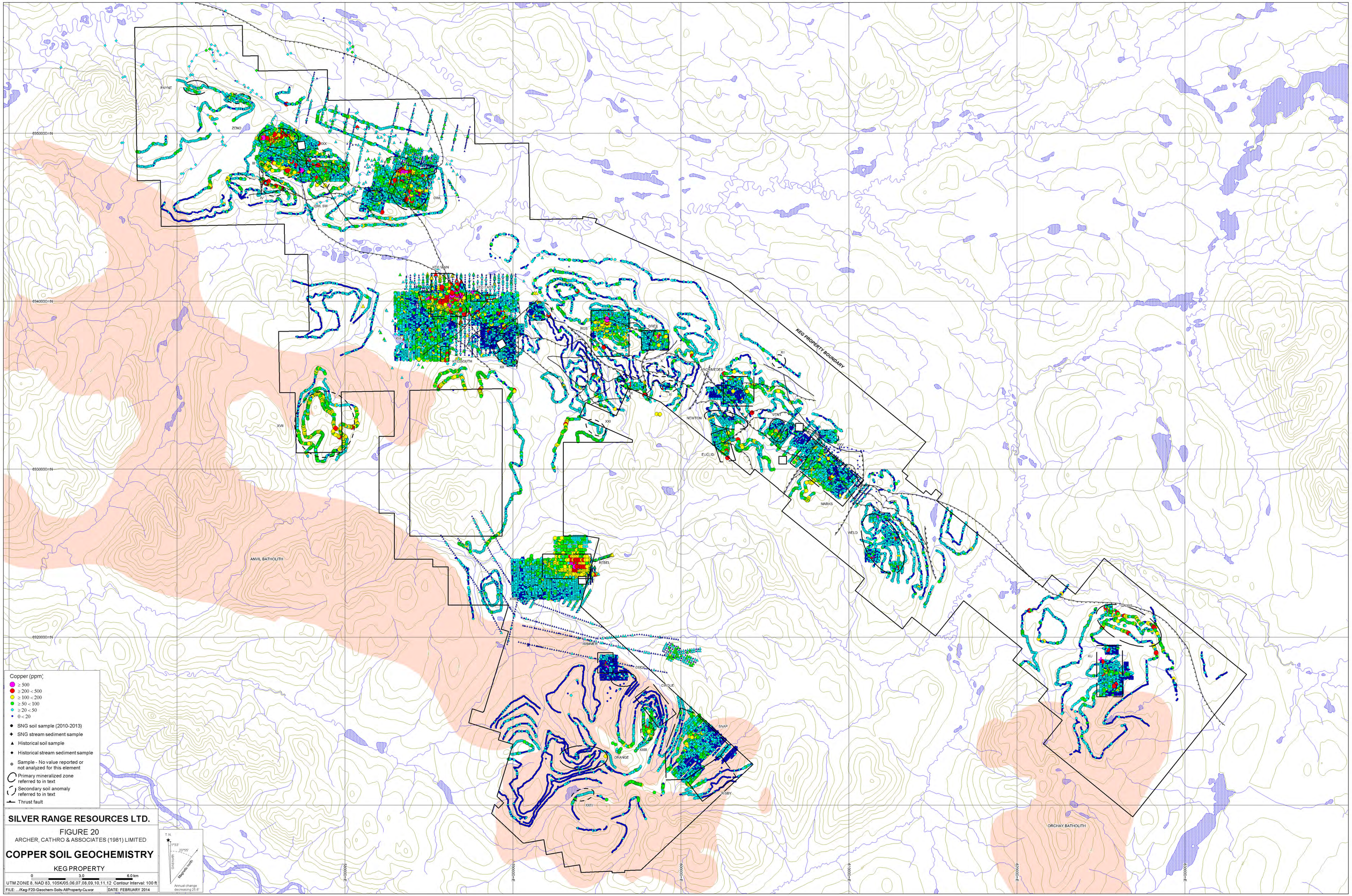
ZINC SOIL GEOCHEMISTRY

KEG PROPERTY

0 3.0 6.0 km

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F19-Geochem-Soils-AllProperty-Zn.wor DATE: FEBRUARY 2014



SILVER RANGE RESOURCES LTD.

FIGURE 20

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

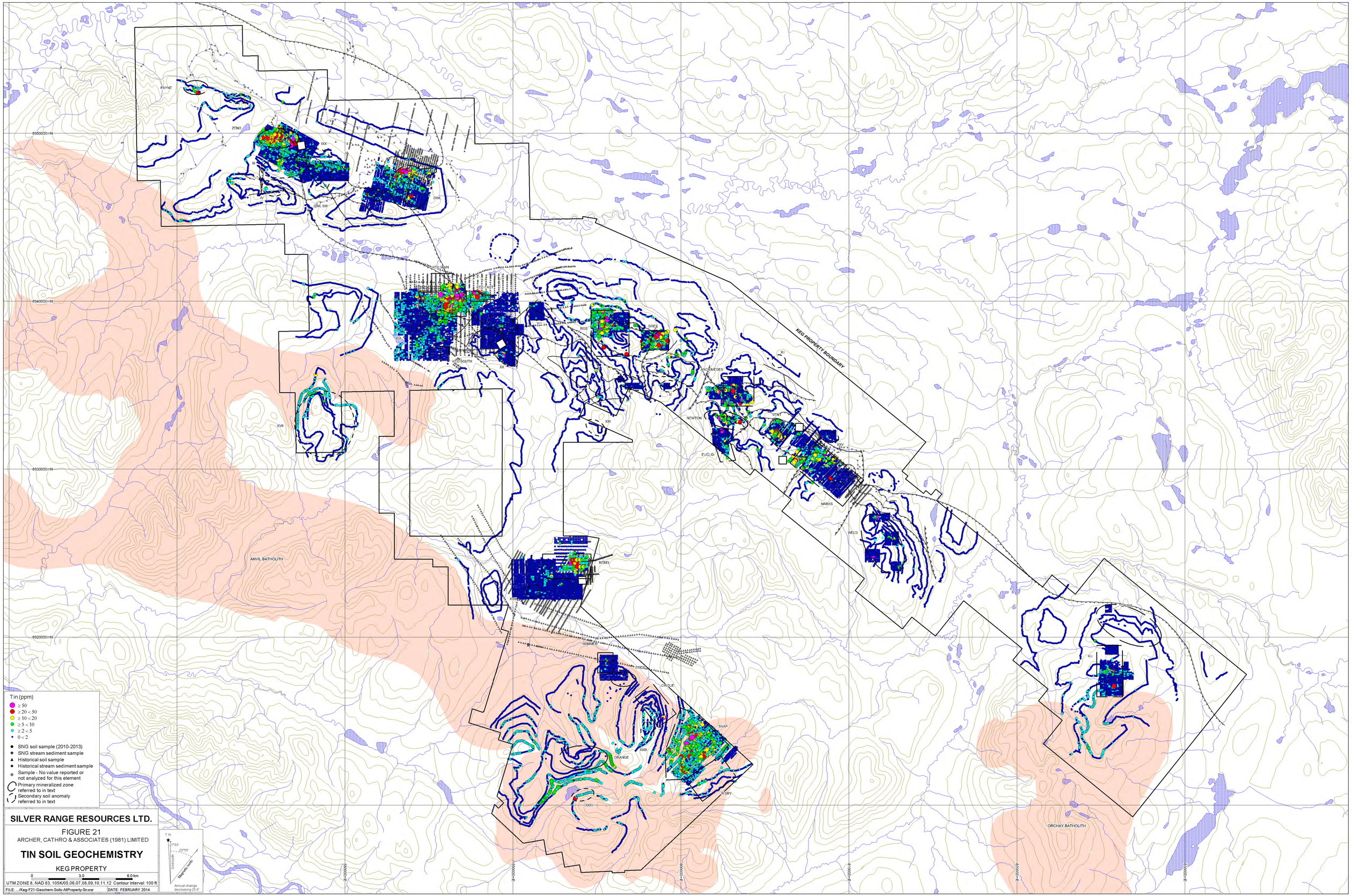
COPPER SOIL GEOCHEMISTRY

KEG PROPERTY

0 3.0 6.0 km

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F20-Geochem-Soils-AllProperty-Cu.wor DATE: FEBRUARY 2014



SILVER RANGE RESOURCES LTD.

FIGURE 21

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

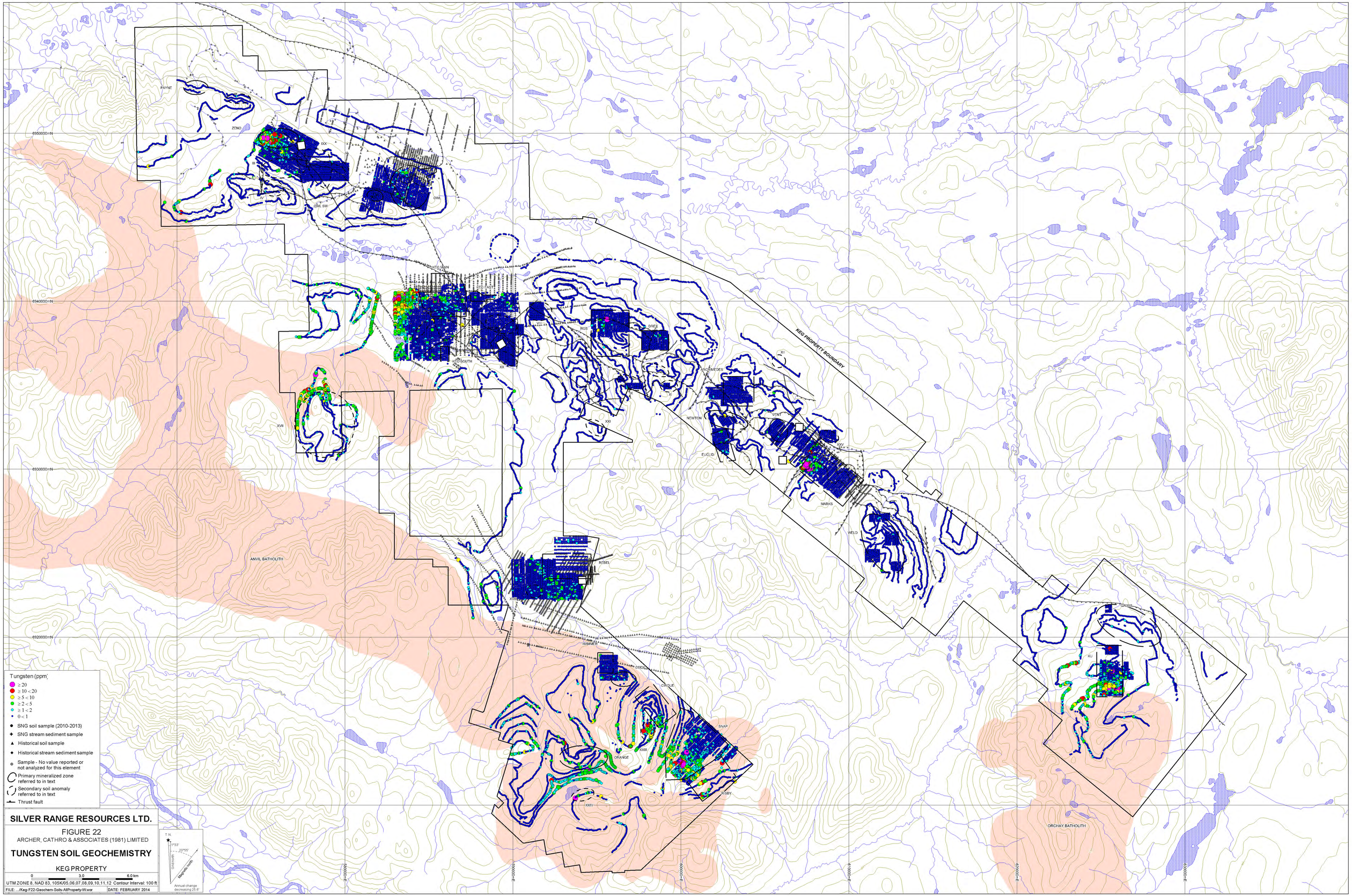
TIN SOIL GEOCHEMISTRY

KEG PROPERTY

0 3.0 6.0 km

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F21-Geochem-Soils-AllProperty-Sn.wor DATE: FEBRUARY 2014



SILVER RANGE RESOURCES LTD.

FIGURE 22

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

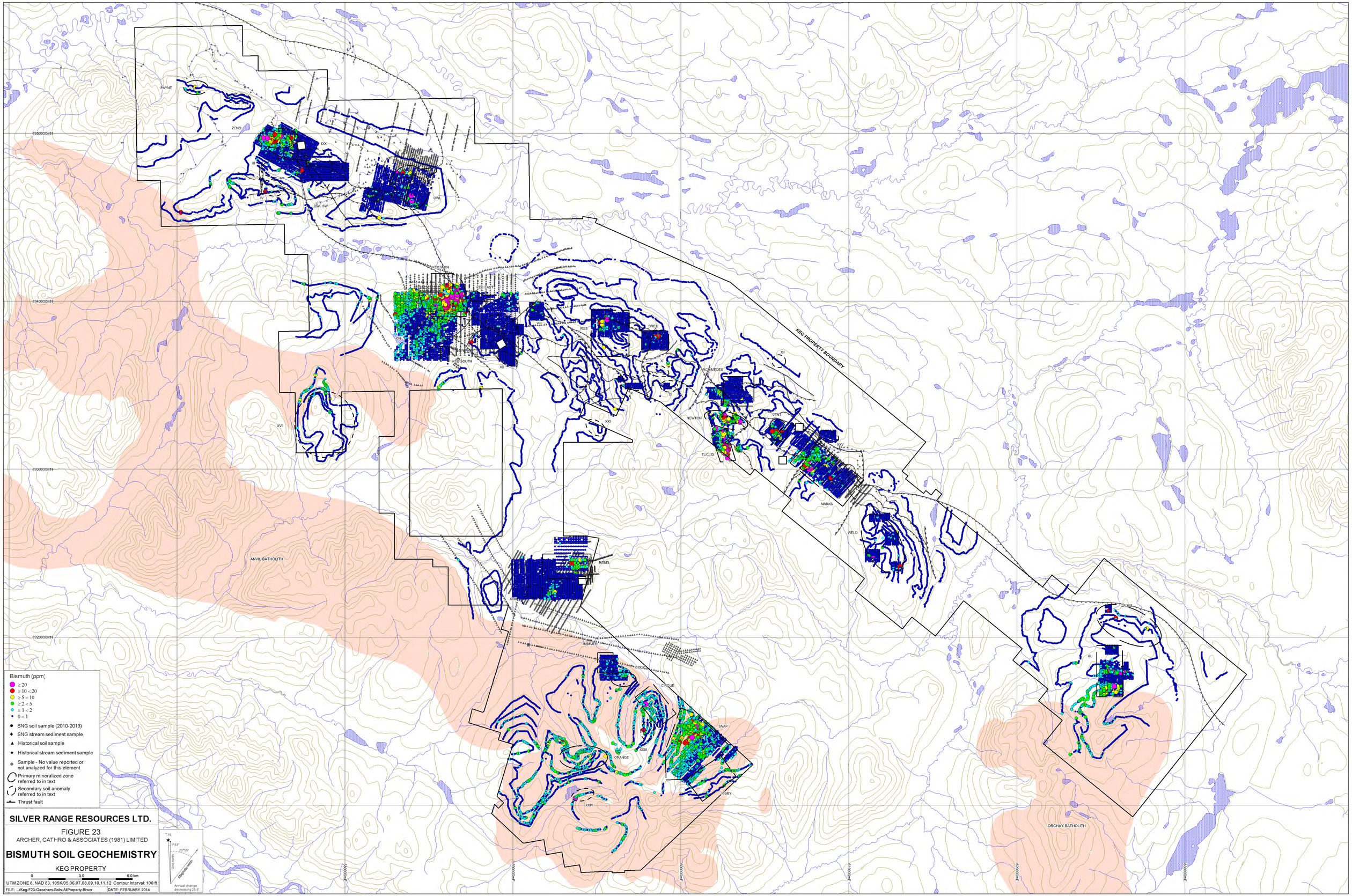
TUNGSTEN SOIL GEOCHEMISTRY

KEG PROPERTY

0 3.0 6.0 km

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F22-Geochem-Soils-AllProperty-W.wor DATE: FEBRUARY 2014



SILVER RANGE RESOURCES LTD.

FIGURE 23

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

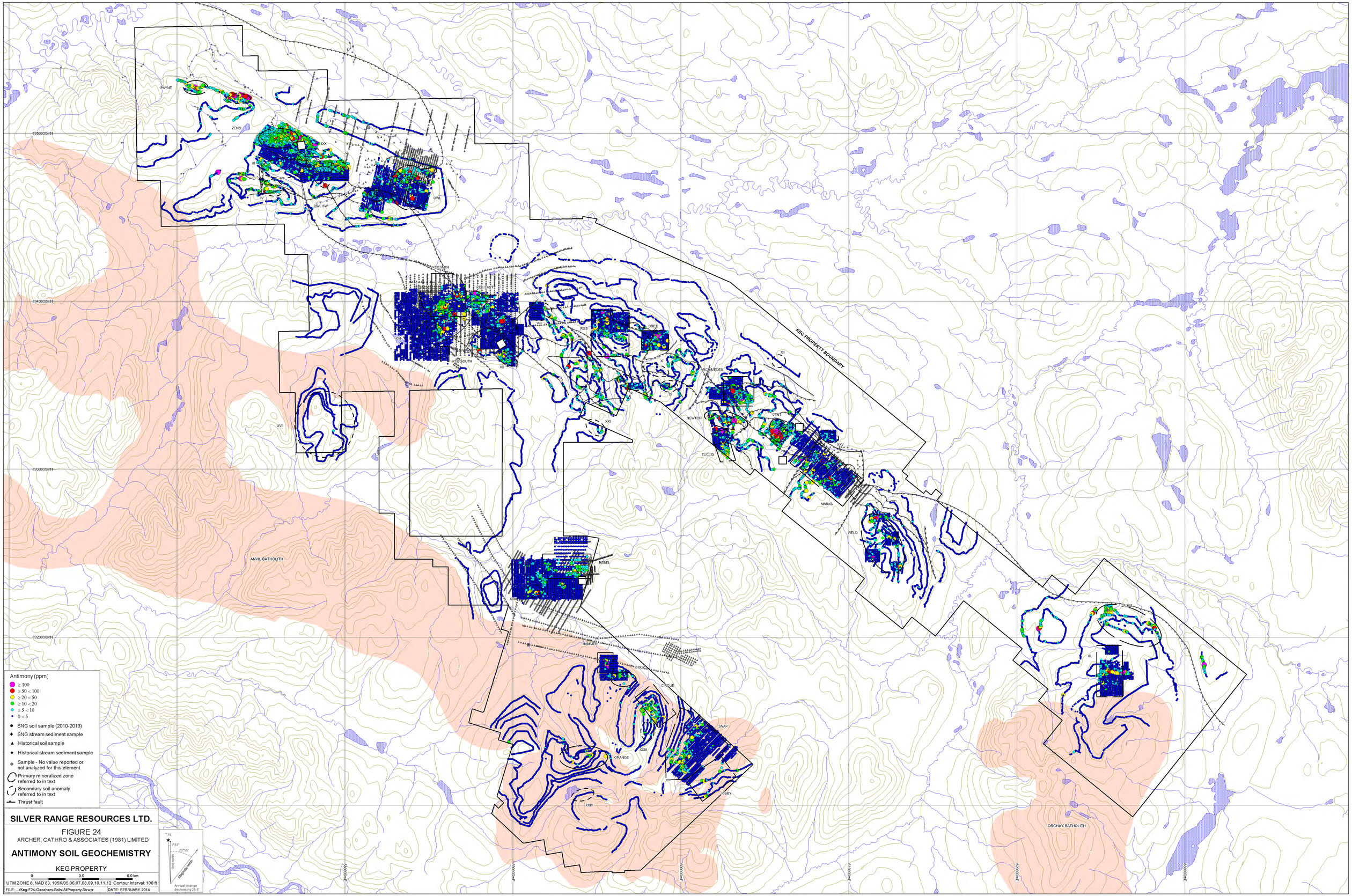
BISMUTH SOIL GEOCHEMISTRY

KEG PROPERTY

0 3.0 6.0 km

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F23-Geochem-Soils-AllProperty-Bi.wor DATE: FEBRUARY 2014



SILVER RANGE RESOURCES LTD.

FIGURE 24

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

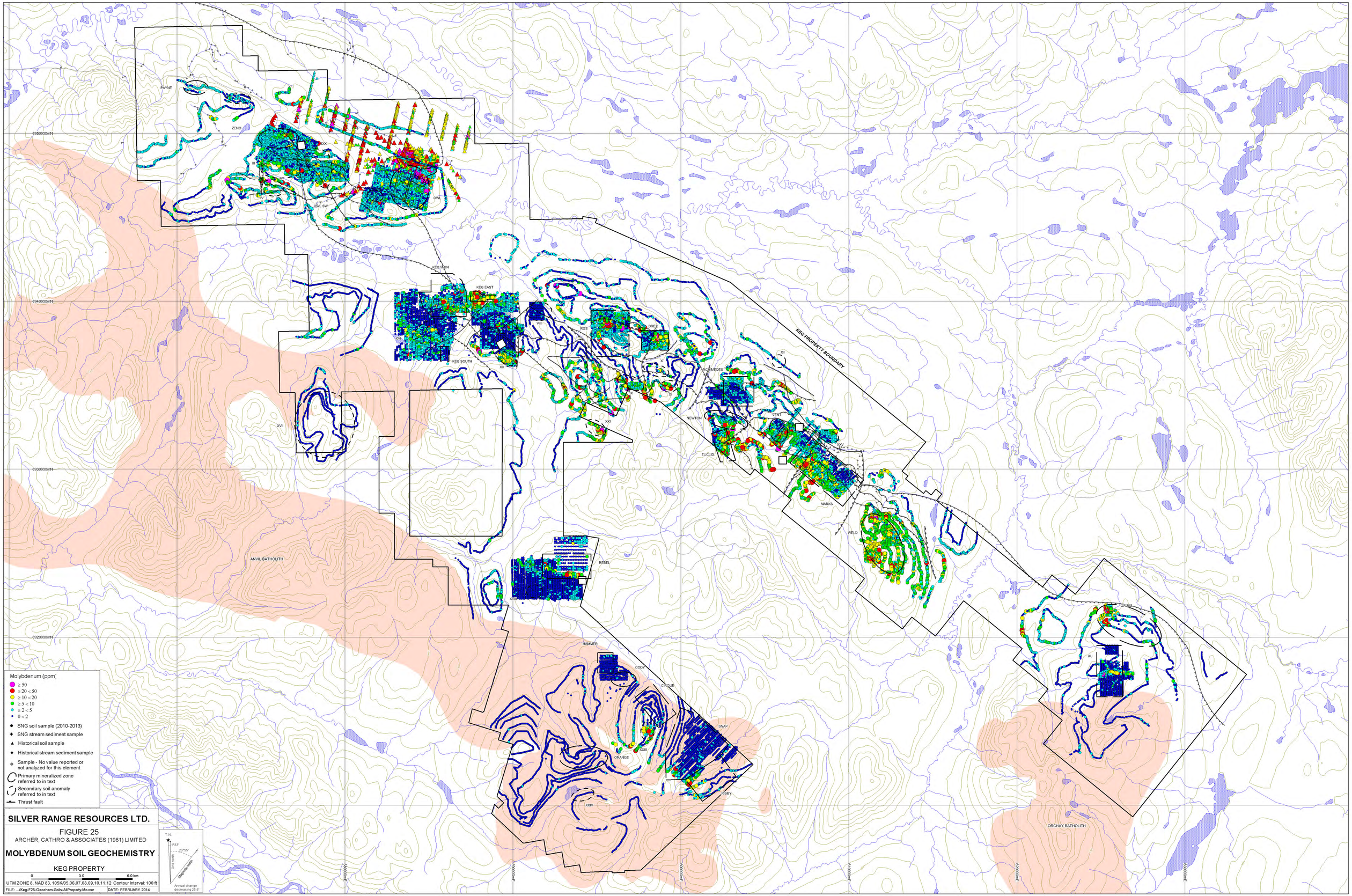
ANTIMONY SOIL GEOCHEMISTRY

KEG PROPERTY

0 3.0 6.0 km

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F24-Geochem-Soils-AllProperty-Sb.wor DATE: FEBRUARY 2014



SILVER RANGE RESOURCES LTD.

FIGURE 25

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

MOLYBDENUM SOIL GEOCHEMISTRY

KEG PROPERTY

0 3.0 6.0 km

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F25-Geochem-Soils-AllProperty-Mo.wor DATE: FEBRUARY 2014

570000mE
580000mE
590000mE
600000mE
610000mN
6950000mN
6940000mN
6930000mN

PAYNE
II
ZENO
III
IXX
V
IV
OWL
OWL SW
KEG MAIN
KEG EAST
VIII
VII
XVI
RGS
DREX
KEG SOUTH
XX
XII
X
IX
XI
ARCHIMEDES
XVII
XXI
VENT
XXV
EUCLID
MARKS
WELD
REBEL
XVIII

57,900
57,700
57,600
57,500 nT

Normal fault
Thrust fault
Soil anomaly

MAP AREA
KEG PROPERTY BOUNDARY

T.N.
1°33'
23°55'
Grid north
Magnetic north
Annual change decreasing 25.6'

SILVER RANGE RESOURCES LTD.

FIGURE 26

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

TOTAL MAGNETIC INTENSITY ROTATED TO POLE

KEG PROPERTY

0 100 200 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F26-Geophys-AllProperty-TotalMag.wor | DATE: FEBRUARY 2014

570000mE
580000mE
590000mE
600000mE
610000mN
6950000mN
6940000mN
6930000mN

PAYNE
II
ZENO
III
IV
IXX
V
OWL
OWL SW
KEG MAIN
KEG EAST
VIII
VII
XVI
KEG SOUTH
XX
RGS
DREX
XII
X
IX
XI
ARCHIMEDES
XXI
VENT
XXV
EUCLID
MARKS
WELD
XVII
REBEL
XVIII

IP TPR

0.6
0.602
0.3
0
-0.297

Normal fault
Thrust fault
Soil anomaly

MAP AREA
KEG PROPERTY BOUNDARY

T.N.
1°33'
23°55'
Grid north
Magnetic north
Annual change decreasing 25.6'

SILVER RANGE RESOURCES LTD.

FIGURE 27

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

TOTAL PHASE ROTATED IN-PHASE AT 90 Hz

KEG PROPERTY

0 100 200 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F27-Geophys-AllProperty-TotalPhase.wor

DATE: FEBRUARY 2014

Keg Zone Rock Geochemistry

Sample #	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)	Cu (ppm)	In (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Sn (ppm)	W (ppm)	Zn (ppm)
L840309	2.5	9.89	8.8	8.34	1810	5.42	2.05	271	5.41	339	2	5410
L840310	2.5	125	1760	250	362	6.57	1.88	18700	38.1	381	52.3	568
L840311	22	75.2	10000.5	75.1	580	14.85	1.62	32000	87.5	257	1.4	5720
L840312	2.5	44.4	378	110.5	236	2.01	1.2	3280	9.65	134.5	3	420
H805413	2.5	0.58	21.4	0.45	121.5	0.038	2.39	16.8	4.85	1.9	1.1	21
H805414	93	317	11.8	2.03	1880	19.75	1.33	90700	284	377	0.5	126500
H805415	2.5	0.66	7.9	0.99	57.8	0.071	2.5	140.5	1.54	5.6	1.5	346
H805416	2.5	3.02	8.5	0.15	45	0.202	1.56	791	4.67	7.9	1.6	1050
H805417	7	18.7	10.5	8.53	220	2.34	0.96	4170	37.9	122	1.1	8160
H805418	21	59.1	40.5	1.37	552	4.07	0.92	16550	75.3	119	1	23000
H805419	103	251	228	7.8	877	3.1	1.63	81600	289	191.5	0.8	17750
H805420	2.5	4.76	3.5	0.71	148	0.456	0.73	893	11.7	38.4	1.2	1200
H805421	66	204	9	1.34	1700	21.5	0.75	56600	243	219	0.4	151500
H805422	13	15.85	35.1	13.8	198	6.48	1.21	2350	29.5	113.5	0.8	15800
M676025	2.5	0.22	2.4	0.17	4.6	0.014	0.96	5.2	8.07	0.8	0.7	3330
I079036	2	1.24	7.2	0.2	13.7	0.068	1	47.2	16.15	2.5	0.15	112
I079037	4	1.13	9.9	0.37	21.1	0.033	1.11	7.2	17.05	2.5	0.1	97
I079038	2	0.65	1.1	0.21	89.6	0.0025	1.03	6	0.91	2.5	0.33	16
I079039	7	1.13	16.6	0.23	209	0.025	3.56	11.9	6.05	2.5	0.11	159
I079040	1	0.25	68	0.82	74.4	0.01	0.34	5.7	1.01	5	0.43	32
I079041	1	0.26	4.5	0.39	126	0.01	0.34	2.6	0.91	5	0.53	26
K276023	2.5	0.48	106	1.21	30.1	0.014	2.61	122	1.01	19	0.34	108
K276024	2.5	3.38	155	2.23	225	0.048	8.04	913	3.98	22	0.67	603
K276025	2.5	0.54	32.6	2.07	136.5	3.53	4.48	28.5	0.54	62	2.84	1360
K276026	12	1.65	35.2	19.75	700	5.12	4.13	47.1	1.25	38	0.93	8130
G005368	32	1.38	9	32.1	1040	8.99	10.35	4.2	0.4	37	20	22500
G005369	1	19.45	178.5	53.8	670	5.02	2.05	1210	1.54	105	6.01	5790
G005370	34	16.55	10001	45.4	810	0.765	0.14	521	114.5	197	0.75	151
G005371	45	180	10001	282	1840	12.35	3.56	23100	37.6	1450	12.3	807
G005372	8	115	10001	122	25500	16.15	1.46	2770	19	808	30.8	14150
G005373	1	10.3	149	24.2	1110	6.38	6.46	495	2.35	134	1.46	7570
G005374	5	56.8	188	97	2500	34.1	1.01	1340	2.87	1285	194	8730
G005375	5	133	7070	167	9010	25.7	0.84	17750	26.9	1230	3.36	43100
G005376	11	777	59.2	1980	1790	12.55	0.83	38700	47.5	1105	1.15	27200
G005377	5	3.96	28.7	20.9	177.5	20.2	12.8	186.5	2.31	472	4.78	57100
G0557575	100	0.45	337	1.77	48.5	0.356	7.71	16.3	0.77	37.9	0.35	1660
G0557576	100	1.76	55.5	1.42	472	0.054	20.6	10.4	5.91	6.8	0.55	132
G0557578	100	0.33	18.6	1.45	111	0.005	3.42	9.3	1	4.2	0.4	50
G0557579	100	0.21	13.6	2.59	223	0.006	44.8	7.7	1.08	2.4	0.51	20
G0557580	100	0.67	897	0.52	180	1.175	0.81	19.6	4.38	84.7	0.44	2360
G0557582	100	1.27	163.5	14.5	480	4.4	21.5	25.7	1.01	69.4	39.1	4670
G285851	100	88.8	10.8	22.8	16000	24.6	0.93	648	4.02	1705	3.75	35100
G285852	100	25.4	12	99.5	5540	5.02	1.93	349	32.3	578	0.56	7820
G285853	100	317	730	4.3	240	3.39	5.47	78600	348	1030	17.7	2130
G285854	100	148	5710	195.5	4670	9.54	0.97	42100	66.7	2140	8.98	9400
G285855	100	311	10001	1175	10700	17.05	0.62	6350	1360	3040	3.21	3340
G285856	100	2.17	8.3	43.3	856	0.06	7.84	79.1	1.23	28.1	15	9
G285859	100	3.94	13.9	2.28	524	0.1	85	906	4.02	12.6	0.72	507

KEG MAIN ZONE

KEG EAST ZONE

DMe

CMal

CPmc

Mt

Mt

Mt

Gossan

KEG-11-019

KEG-11-038

KEG-12-059

KEG-11-032

6940000mN

6960000mE

6970000mE

6980000mE

(See Figure 6 for detailed Geology Legend)

Bedding orientation
Foliation orientation
Fracture set; horizontal, inclined, vertical
Vein orientation
Fold
Anticline
Syncline
Overturned anticline
2013/older rocks
Observed contact
Inferred contact
Assumed contact
Linears
Fault
Normal fault
Thrust fault
Strike-slip fault
Outcrop
Rock sample

Tv - Tertiary Volcanics
Kst - South Fork Volcanics
Ksp, mKv, mKs - Selwyn Plutonic Suite
Trj - Jones Lake Formation
CPmc - Mount Christie Formation
Mt, CMal - Tay Formation
DMe - Earn Group
Mv - Felsic Volcanics
DMp - Prevost Formation
Dp - Portrait Lake Formation
ODrs - Road River Group
COr, COrh, COrt - Rabbitkettle Formation
lCg - Gull Lake Formation

SNG diamond drill hole
Primary mineralized zone referred to in text
Secondary soil anomaly referred to in text

T.N.
11°33'
23°55'
Grid North
Magnetic North
Annual change decreasing 25.6'

SILVER RANGE RESOURCES LTD.

FIGURE 28

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

KEG ZONE GEOLOGY AND MINERALIZATION

KEG PROPERTY

0 250 500 m

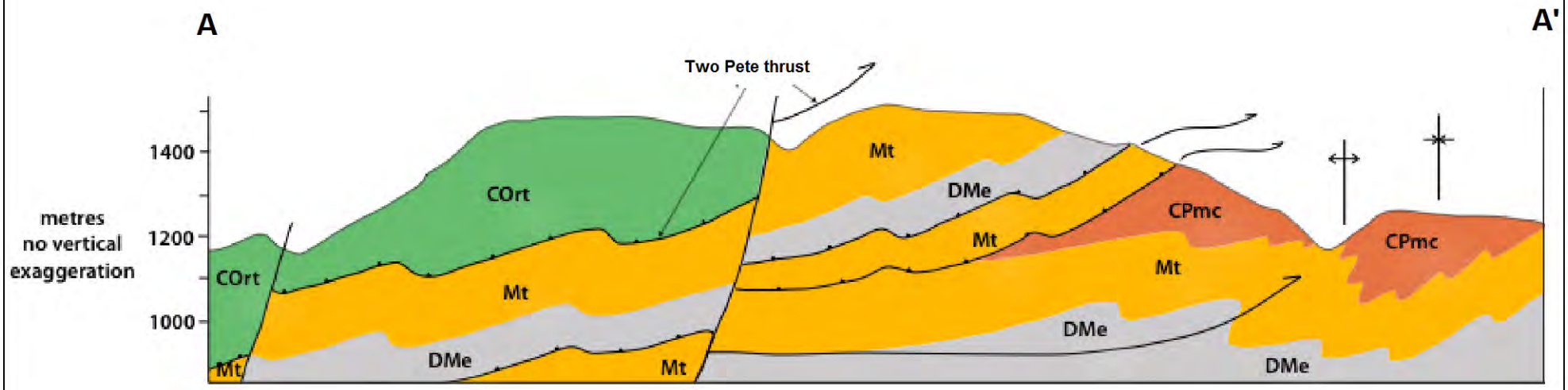
UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F28-GeoMin-KegMain.wor

DATE: FEBRUARY 2014

045°

SECTION FACING NORTHWEST



thrust fault

antiform hinge line

synform hinge line

CPMC Thin bedded, light grey-brown, black and maroon chert with minor dark grey siltstone and shale.

DMe Black chert and siltstone with rare, medium grained arkosic sandstone.

MT Medium bedded, light grey weathered, grey fresh silty limestone to calcareous siltstone interbedded with dark grey to black siltstone that can be quartz rich.

CORT Dark grey and grey-brown, laminated to thin bedded, quartzose siltstone with minor shale horizons; buff weathered, dark grey, laminated, fine-grained sandstone and siltstone; laminations may be defined by stringers of pyrrhotite.

SILVER RANGE RESOURCES LTD.

FIGURE 29

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

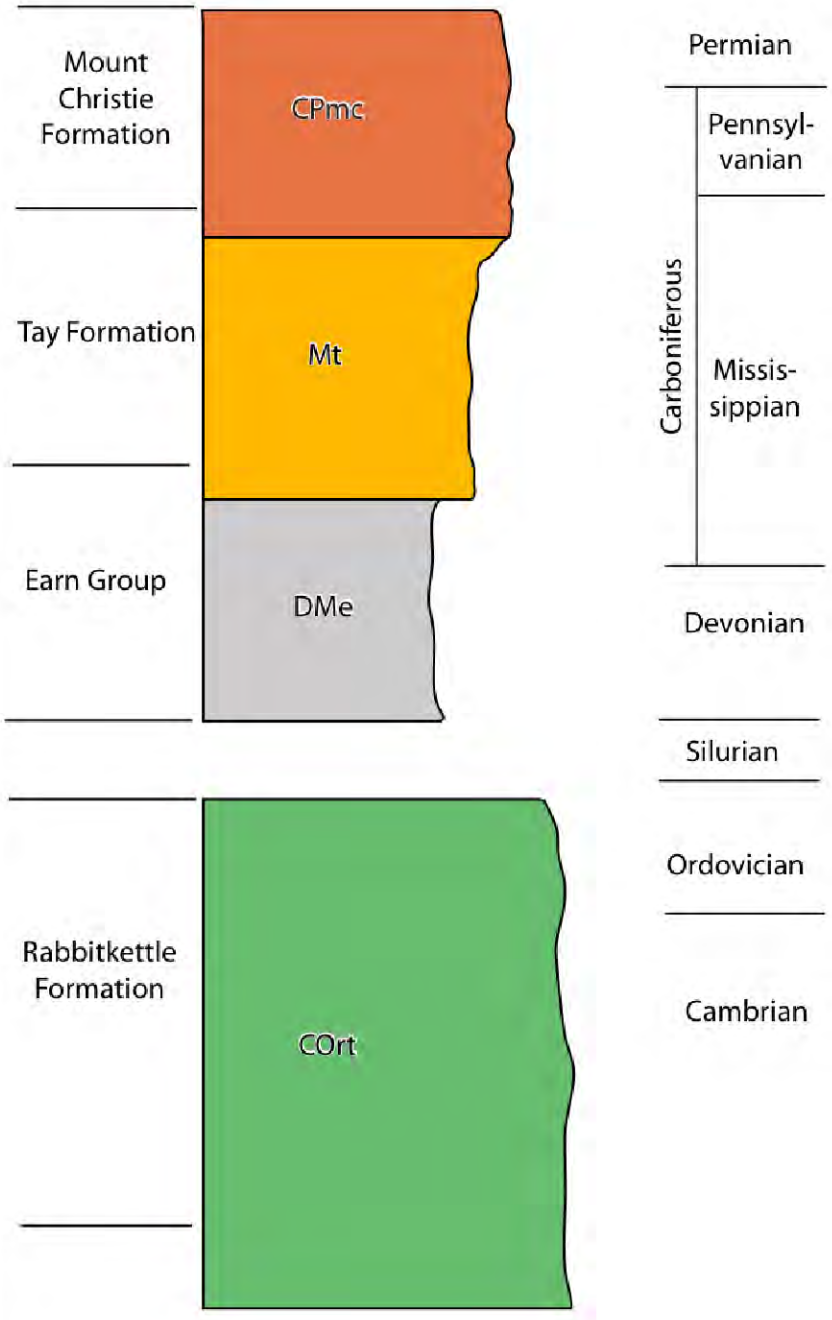
CROSS SECTION OF KEG MAIN ZONE

KEG PROPERTY

0 250 500 1000 m

FILE: .../Keg-F30-Geology-Keg-CrossSection.wor

DATE: FEBRUARY 2014



SILVER RANGE RESOURCES LTD.

FIGURE 30

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

STRATIGRAPHIC COLUMN OF KEG MAIN ZONE

KEG PROPERTY

FILE: .../Keg/Keg-F31-Geology-Keg-StratColumn.wor	DATE: FEBRUARY 2014

Keg South Area Rock Geochemistry

Sample #	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)	Cu (ppm)	In (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Sn (ppm)	W (ppm)	Zn (ppm)
L840301	2.5	0.13	8.4	0.69	4.9	0.055	1	7.2	2.31	5.4	3.2	60
L840302	2.5	0.03	37	0.11	52.2	0.079	0.15	6.4	0.98	6.1	0.9	114
L840303	8	0.02	5	0.06	29.1	0.055	0.19	2.6	0.5	1.4	0.4	142
L840304	2.5	0.2	34	3.74	54.4	0.107	0.43	22.9	2.89	23	2	130
L840305	2.5	0.09	2.5	0.11	324	0.067	1.37	2.6	0.42	0.6	0.9	16
L840306	2.5	0.12	12.1	0.18	7.8	0.016	1.36	14.1	1.99	1.6	1.2	53
L840307	2.5	0.58	6.5	0.48	39.5	0.04	2.01	2.5	0.59	2.3	1.1	114
L840308	2.5	0.36	3.2	0.32	10.5	0.067	1.74	3.2	2.64	3	0.8	243
M676001	13	0.17	48.6	0.76	21.4	0.224	0.99	4.3	2.14	5.7	0.5	72
M676002	2.5	0.08	27.4	0.16	5.3	0.043	0.93	8.8	1.23	5.5	3.3	24
K284973	5	43.5	72.2	0.11	1045	0.054	0.7	537	40.7	27	1.28	466
K284974	9	36.5	43	0.74	481	0.031	0.32	284	28.2	29	7.92	297
K284975	2.5	7.58	11.6	0.11	449	0.053	2.36	78.9	7.5	7	1.71	79
G0557577	100	0.05	12	0.21	8.8	0.035	0.84	9	0.37	2.7	0.55	78
G0557581	100	0.14	9.3	0.49	15.7	0.008	1.45	3.3	0.58	0.8	0.25	15

(See Figure 6 for detailed Geology Legend)

- Bedding orientation
- Foliation orientation
- Fracture set; horizontal, inclined, vertical
- Vein orientation
- Fold
- Anticline
- Syncline
- Overturned anticline
- 2013/older rocks
- Observed contact
- Inferred contact
- Assumed contact
- Linears
- Fault
- Normal fault
- Thrust fault
- Strike-slip fault
- Outcrop

- Rock sample location
- SNG diamond drill hole
- Primary mineralized zone referred to in text
- Secondary soil anomaly referred to in text

Tv	- Tertiary Volcanics
Kst	- South Fork Volcanics
Ksp, mKv, mKs	- Selwyn Plutonic Suite
Trj	- Jones Lake Formation
CPmc	- Mount Christie Formation
Mt, CMal	- Tay Formation
DMe	- Earn Group
Mv	- Felsic Volcanics
DMp	- Prevost Formation
Dp	- Portrait Lake Formation
ODrs	- Road River Group
COr, COrh, COrt	- Rabbitkettle Formation
lCg	- Gull Lake Formation

T.N. 21°33' 23°55' Grid north Magnetic north
Annual change decreasing 25.6'

SILVER RANGE RESOURCES LTD.

FIGURE 31

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

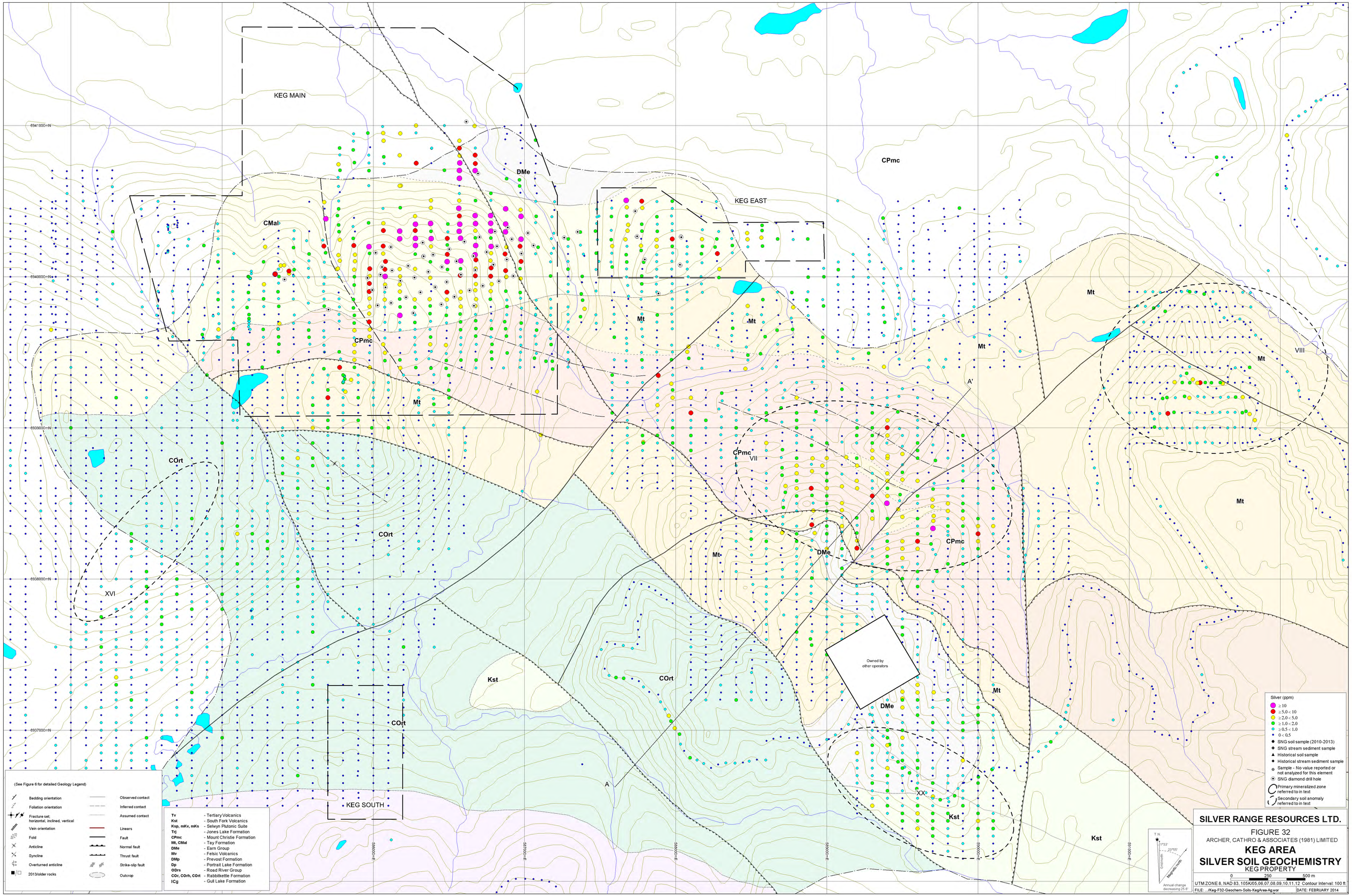
KEG SOUTH AREA ROCK SAMPLE LOCATIONS AND MINERALIZATION

KEG PROPERTY

0 250 500 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F29-GeoMin-KegSouth.wor | DATE: FEBRUARY 2014


KEG MAIN
KEG EAST
KEG SOUTH
CPmc
DMe
CMal
Mt
COrt
Kst
XVI
VII
VIII
XX
A
A'
Owned by other operators
6941000mN
6940000mN
6939000mN
6938000mN
6937000mN
586000mE
587000mE
588000mE
589000mE
590000mE
591000mE
(See Figure 6 for detailed Geology Legend)
Bedding orientation
Foliation orientation
Fracture set; horizontal, inclined, vertical
Vein orientation
Fold
Anticline
Syncline
Overturned anticline
2013/older rocks
Observed contact
Inferred contact
Assumed contact
Linears
Fault
Normal fault
Thrust fault
Strike-slip fault
Outcrop
Tv - Tertiary Volcanics
Kst - South Fork Volcanics
Ksp, mKv, mKs - Selwyn Plutonic Suite
Trj - Jones Lake Formation
CPmc - Mount Christie Formation
Mt, CMal - Tay Formation
DMe - Earn Group
Mv - Felsic Volcanics
DMp - Prevost Formation
Dp - Portrait Lake Formation
ODrs - Road River Group
COr, COrh, COrt - Rabbitkettle Formation
lCg - Gull Lake Formation
Silver (ppm)
≥ 10
≥ 5.0 < 10
≥ 2.0 < 5.0
≥ 1.0 < 2.0
≥ 0.5 < 1.0
0 < 0.5
SNG soil sample (2010-2013)
SNG stream sediment sample
Historical soil sample
Historical stream sediment sample
Sample - No value reported or not analyzed for this element
SNG diamond drill hole
Primary mineralized zone referred to in text
Secondary soil anomaly referred to in text
T.N.
1°33'
23°55'
Grid north
Magnetic north
Annual change decreasing 25.6'
SILVER RANGE RESOURCES LTD.
FIGURE 32
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
KEG AREA
SILVER SOIL GEOCHEMISTRY
KEG PROPERTY
0 250 500 m
UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft
FILE: .../Keg-F32-Geochem-Soils-KegArea-Ag.wor
DATE: FEBRUARY 2014

KEG MAIN

KEG EAST

KEG SOUTH

6941000mN
6940000mN
6939000mN
6938000mN
6937000mN

CMal
DMe
CPmc
Mt
COrt
Kst

VII
VIII
XVI
XX
A
A'

Owned by other operators

(See Figure 6 for detailed Geology Legend)

- Bedding orientation
- Foliation orientation
- Fracture set; horizontal, inclined, vertical
- Vein orientation
- Fold
- Anticline
- Syncline
- Overturned anticline
- 2013/older rocks
- Observed contact
- Inferred contact
- Assumed contact
- Linears
- Fault
- Normal fault
- Thrust fault
- Strike-slip fault
- Outcrop

Tv	- Tertiary Volcanics
Kst	- South Fork Volcanics
Ksp, mKv, mKs	- Selwyn Plutonic Suite
Trj	- Jones Lake Formation
CPmc	- Mount Christie Formation
Mt, CMal	- Tay Formation
DMe	- Earn Group
Mv	- Felsic Volcanics
DMp	- Prevost Formation
Dp	- Portrait Lake Formation
ODrs	- Road River Group
COr, COrh, COrt	- Rabbitkettle Formation
ICg	- Gull Lake Formation

Lead (ppm)
- ≥ 1000
- ≥ 500 < 1000
- ≥ 200 < 500
- ≥ 100 < 200
- ≥ 50 < 100
- 0 < 50
- SNG soil sample (2010-2013)
- SNG stream sediment sample
- Historical soil sample
- Historical stream sediment sample
- Sample - No value reported or not analyzed for this element
- SNG diamond drill hole
- Primary mineralized zone referred to in text
- Secondary soil anomaly referred to in text

SILVER RANGE RESOURCES LTD.

FIGURE 33

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

KEG AREA
LEAD SOIL GEOCHEMISTRY
KEG PROPERTY

0 250 500 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F33-Geochem-Soils-KegArea-Pb.wor

DATE: FEBRUARY 2014

T.N. 17°33' 23°56' Grid north Magnetic north

Annual change decreasing 25.6'

KEG MAIN

KEG EAST

KEG SOUTH

Owned by other operators

6941000mN

6940000mN

6939000mN

6938000mN

6937000mN

587000mE

588000mE

589000mE

590000mE

591000mE

CMal

DMe

CPmc

Mt

COrt

Kst

VII

VIII

XVI

A

A'

XX

(See Figure 6 for detailed Geology Legend)

Bedding orientation		Observed contact	
Foliation orientation		Inferred contact	
Fracture set; horizontal, inclined, vertical		Assumed contact	
Vein orientation		Linears	
Fold		Fault	
Anticline		Normal fault	
Syncline		Thrust fault	
Overturned anticline		Strike-slip fault	
2013/older rocks		Outcrop	

Tv	- Tertiary Volcanics
Kst	- South Fork Volcanics
Ksp, mKv, mKs	- Selwyn Plutonic Suite
Trj	- Jones Lake Formation
CPmc	- Mount Christie Formation
Mt, CMal	- Tay Formation
DMe	- Earn Group
Mv	- Felsic Volcanics
DMp	- Prevost Formation
Dp	- Portrait Lake Formation
ODrs	- Road River Group
COr, COrh, COrt	- Rabbitkettle Formation
ICg	- Gull Lake Formation

Zinc (ppm)

- ≥ 2000
- ≥ 1000 < 2000
- ≥ 500 < 1000
- ≥ 200 < 500
- ≥ 100 < 200
- 0 < 100

- SNG soil sample (2010-2013)
- SNG stream sediment sample
- Historical soil sample
- Historical stream sediment sample
- Sample - No value reported or not analyzed for this element
- SNG diamond drill hole
- Primary mineralized zone referred to in text
- Secondary soil anomaly referred to in text

T.N.

11°33'

23°55'

Grid north

Magnetic north

Annual change decreasing 25.6'

SILVER RANGE RESOURCES LTD.

FIGURE 34

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

KEG AREA

ZINC SOIL GEOCHEMISTRY

KEG PROPERTY

0 250 500 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F28-Geochem-Soils-KegArea-2nwor DATE: FEBRUARY 2014

KEG MAIN

KEG EAST

KEG SOUTH

Owned by other operators

6941000mN

6940000mN

6939000mN

6938000mN

6937000mN

CMal

DMe

CPmc

Mt

COrt

Kst

XVI

VII

VIII

A

A'

XX

(See Figure 6 for detailed Geology Legend)

Bedding orientation		Observed contact	
Foliation orientation		Inferred contact	
Fracture set; horizontal, inclined, vertical		Assumed contact	
Vein orientation		Linears	
Fold		Fault	
Anticline		Normal fault	
Syncline		Thrust fault	
Overturned anticline		Strike-slip fault	
2013/older rocks		Outcrop	

Tv	- Tertiary Volcanics
Kst	- South Fork Volcanics
Ksp, mKv, mKs	- Selwyn Plutonic Suite
Trj	- Jones Lake Formation
CPmc	- Mount Christie Formation
Mt, CMal	- Tay Formation
DMe	- Earn Group
Mv	- Felsic Volcanics
DMp	- Prevost Formation
Dp	- Portrait Lake Formation
DOrs	- Road River Group
COr, COrh, COrt	- Rabbitkettle Formation
ICg	- Gull Lake Formation

Copper (ppm)
- ≥ 500
- ≥ 200 < 500
- ≥ 100 < 200
- ≥ 50 < 100
- ≥ 20 < 50
- 0 < 20
- SNG soil sample (2010-2013)
- SNG stream sediment sample
- Historical soil sample
- Historical stream sediment sample
- Sample - No value reported or not analyzed for this element
- SNG diamond drill hole
- Primary mineralized zone referred to in text
- Secondary soil anomaly referred to in text

T.N. 11°33' 23°55' Grid north Magnetic north

Annual change decreasing 25.6'

SILVER RANGE RESOURCES LTD.

FIGURE 35

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

KEG AREA
COPPER SOIL GEOCHEMISTRY

KEG PROPERTY

0 250 500 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F29-Geochem-Soils-KegArea-Cu.wor DATE: FEBRUARY 2014

KEG MAIN

KEG EAST

KEG SOUTH

6941000mN

6940000mN

6939000mN

6938000mN

6937000mN

CMal

CPmc

DMe

Mt

COrt

Kst

XVI

VII

VIII

XX

A

A'

Owned by other operators

(See Figure 6 for detailed Geology Legend)

Bedding orientation	Observed contact
Foliation orientation	Inferred contact
Fracture set; horizontal, inclined, vertical	Assumed contact
Vein orientation	Linears
Fold	Fault
Anticline	Normal fault
Syncline	Thrust fault
Overturned anticline	Strike-slip fault
2013/older rocks	Outcrop

Tv	- Tertiary Volcanics
Kst	- South Fork Volcanics
Ksp, mKv, mKs	- Selwyn Plutonic Suite
Trj	- Jones Lake Formation
CPmc	- Mount Christie Formation
Mt, CMal	- Tay Formation
DMe	- Earn Group
Mv	- Felsic Volcanics
DMp	- Prevost Formation
Dp	- Portrait Lake Formation
DOrs	- Road River Group
COr, COrh, COrt	- Rabbitkettle Formation
ICg	- Gull Lake Formation

Tin (ppm)

- ≥ 50
- ≥ 20 < 50
- ≥ 10 < 20
- ≥ 5 < 10
- ≥ 2 < 5
- 0 < 2

- SNG soil sample (2010-2013)
- SNG stream sediment sample
- Historical soil sample
- Historical stream sediment sample
- Sample - No value reported or not analyzed for this element
- SNG diamond drill hole
- Primary mineralized zone referred to in text
- Secondary soil anomaly referred to in text

SILVER RANGE RESOURCES LTD.

FIGURE 36

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

KEG AREA
TIN SOIL GEOCHEMISTRY

KEG PROPERTY

0 250 500 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F30-Geochem-Soils-KegArea-Snwor DATE: FEBRUARY 2014

T.N. 21°33' Grid north 23°56' Magnetic north

Annual change decreasing 25.6'

KEG MAIN

KEG EAST

KEG SOUTH

6941000mN

6940000mN

6939000mN

6938000mN

6937000mN

CMal

DMe

CPmc

Mt

COrt

Kst

XVI

VII

VIII

A

A'

Owned by other operators

(See Figure 6 for detailed Geology Legend)

Bedding orientation		Observed contact	
Foliation orientation		Inferred contact	
Fracture set; horizontal, inclined, vertical		Assumed contact	
Vein orientation		Linears	
Fold		Fault	
Anticline		Normal fault	
Syncline		Thrust fault	
Overturned anticline		Strike-slip fault	
2013/older rocks		Outcrop	

Tv	- Tertiary Volcanics
Kst	- South Fork Volcanics
Ksp, mKv, mKs	- Selwyn Plutonic Suite
Trj	- Jones Lake Formation
CPmc	- Mount Christie Formation
Mt, CMal	- Tay Formation
DMe	- Earn Group
Mv	- Felsic Volcanics
DMp	- Prevost Formation
Dp	- Portrait Lake Formation
DOrs	- Road River Group
COr, COrh, COrt	- Rabbitkettle Formation
ICg	- Gull Lake Formation

Indium (ppm)

- ≥ 5.0
- ≥ 2.0 < 5.0
- ≥ 1.0 < 2.0
- ≥ 0.5 < 1.0
- ≥ 0.2 < 0.5
- 0 < 0.2

- SNG soil sample (2010-2013)
- SNG stream sediment sample
- Historical soil sample
- Historical stream sediment sample
- Sample - No value reported or not analyzed for this element
- SNG diamond drill hole
- Primary mineralized zone referred to in text
- Secondary soil anomaly referred to in text

SILVER RANGE RESOURCES LTD.

FIGURE 37

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

KEG AREA
INDIUM SOIL GEOCHEMISTRY

KEG PROPERTY

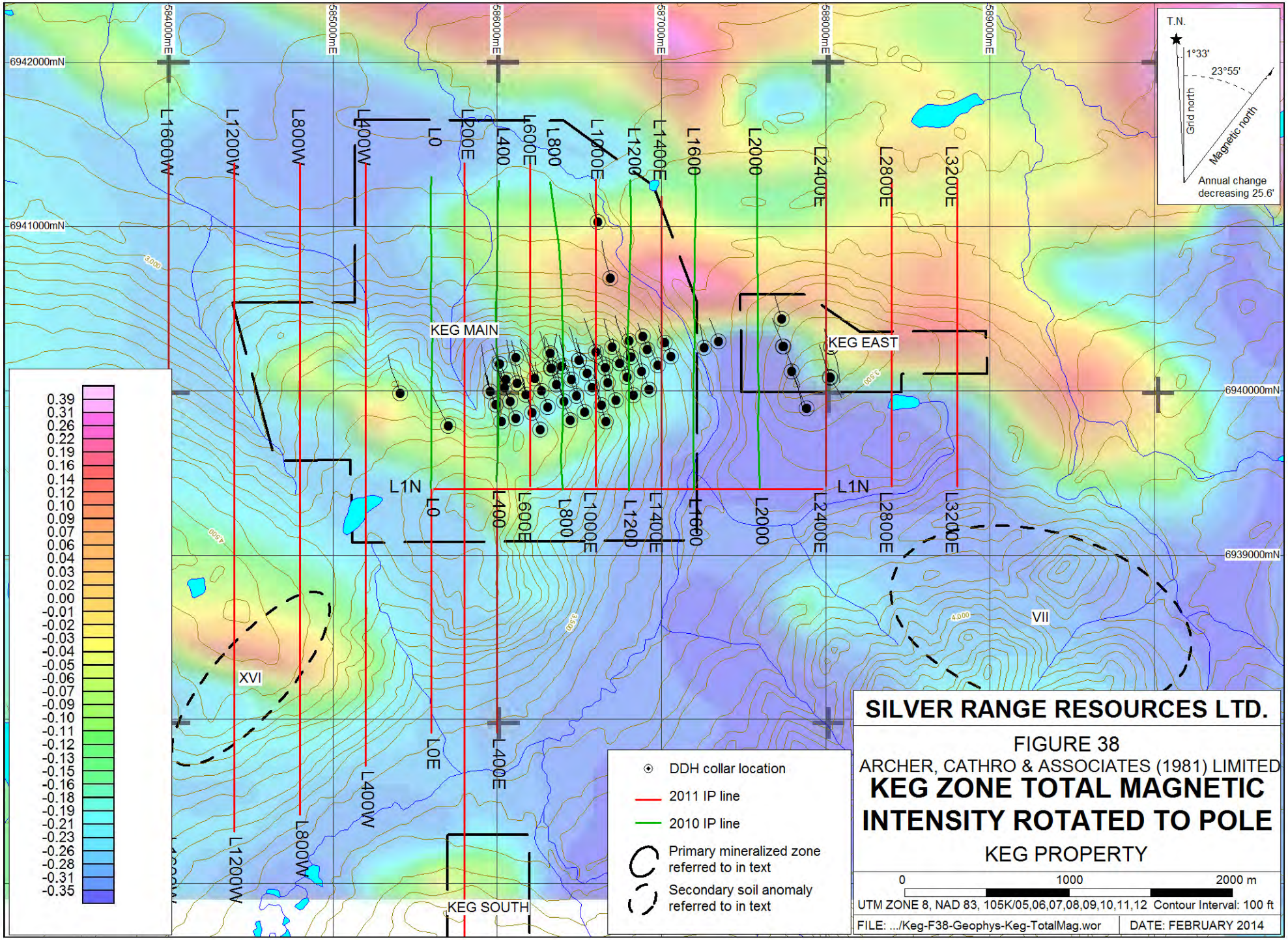
0 250 500 m

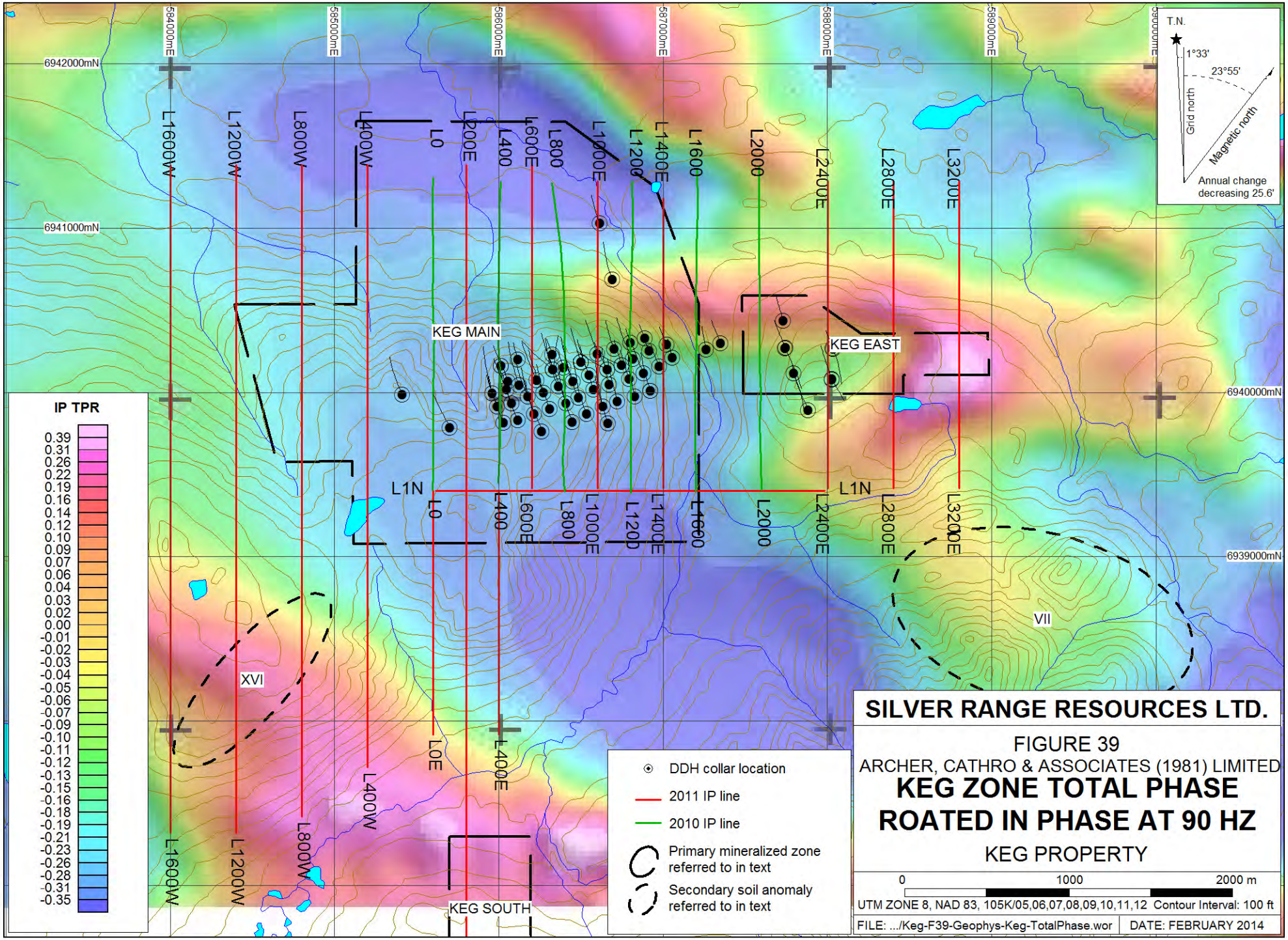
UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12. Contour Interval: 100 ft

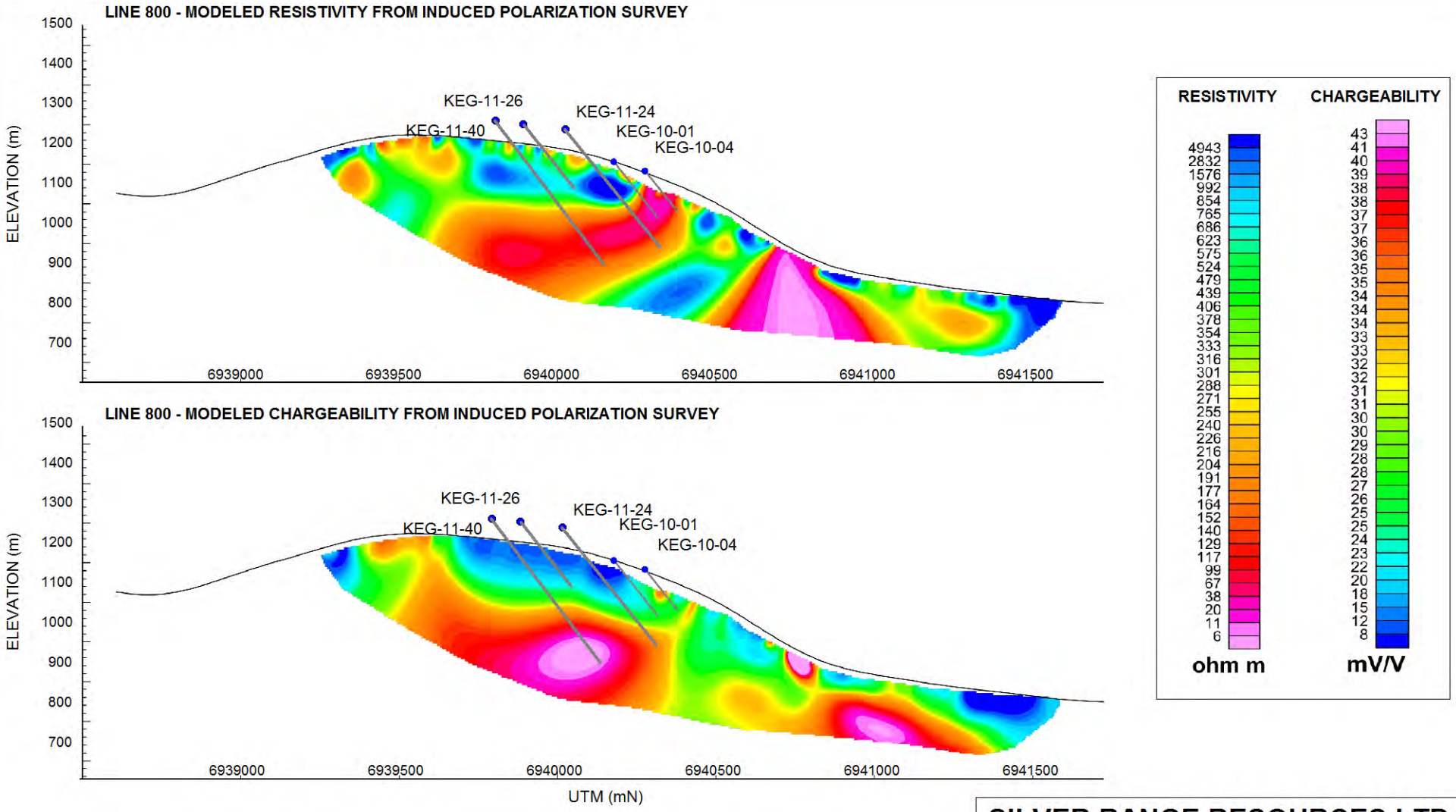
FILE: .../Keg-F31-Geochem-Soils-KegArea-In.wor DATE: FEBRUARY 2014

T.N. 17°33' Grid north 23°56' Magnetic north

Annual change decreasing 25.6'


584000mE
585000mE
586000mE
587000mE
588000mE
589000mE
6942000mN
6941000mN
6940000mN
6939000mN
T.N.
1°33'
23°55'
Grid north
Magnetic north
Annual change decreasing 25.6'
L1600W
L1200W
L800W
L400W
L0
L200E
L400
L600E
L800
L1000E
L1200
L1400E
L1600
L2000
L2400E
L2800E
L3200E
KEG MAIN
KEG EAST
L1N
L0E
L400E
KEG SOUTH
XVI
VII
0.39
0.31
0.26
0.22
0.19
0.16
0.14
0.12
0.10
0.09
0.07
0.06
0.04
0.03
0.02
0.00
-0.01
-0.02
-0.03
-0.04
-0.05
-0.06
-0.07
-0.09
-0.10
-0.11
-0.12
-0.13
-0.15
-0.16
-0.18
-0.19
-0.21
-0.23
-0.26
-0.28
-0.31
-0.35
DDH collar location
2011 IP line
2010 IP line
Primary mineralized zone referred to in text
Secondary soil anomaly referred to in text
SILVER RANGE RESOURCES LTD.
FIGURE 38
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
KEG ZONE TOTAL MAGNETIC INTENSITY ROTATED TO POLE
KEG PROPERTY
0
1000
2000 m
UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft
FILE: .../Keg-F38-Geophys-Keg-TotalMag.wor
DATE: FEBRUARY 2014


584000mE
585000mE
586000mE
587000mE
588000mE
589000mE
590000mE
6942000mN
6941000mN
6940000mN
6939000mN
T.N.
1°33'
23°55'
Grid north
Magnetic north
Annual change decreasing 25.6'
L1600W
L1200W
L800W
L400W
L0
L200E
L400
L600E
L800
L1000E
L1200
L1400E
L1600
L2000
L2400E
L2800E
L3200E
KEG MAIN
KEG EAST
L1N
XVI
VII
L0E
L400E
KEG SOUTH
IP TPR
0.39
0.31
0.26
0.22
0.19
0.16
0.14
0.12
0.10
0.09
0.07
0.06
0.04
0.03
0.02
0.00
-0.01
-0.02
-0.03
-0.04
-0.05
-0.06
-0.07
-0.09
-0.10
-0.11
-0.12
-0.13
-0.15
-0.16
-0.18
-0.19
-0.21
-0.23
-0.26
-0.28
-0.31
-0.35
DDH collar location
2011 IP line
2010 IP line
Primary mineralized zone referred to in text
Secondary soil anomaly referred to in text
SILVER RANGE RESOURCES LTD.
FIGURE 39
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
KEG ZONE TOTAL PHASE ROATED IN PHASE AT 90 HZ
KEG PROPERTY
0
1000
2000 m
UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft
FILE: .../Keg-F39-Geophys-Keg-TotalPhase.wor
DATE: FEBRUARY 2014



SILVER RANGE RESOURCES LTD.

FIGURE 40

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

KEG MAIN ZONE RESISITIVIY & CHARGEABILITY FROM IP SURVEYS

KEG PROPERTY

0 500 1000 m

UTM ZONE 8, NAD 83, 105K/11

FILE: .../Keg-F40-Geophys-Keg-IPSection.wor | DATE: FEBRUARY 2014

Tv	- Tertiary Volcanics
Kst	- South Fork Volcanics
Ksp, mKv, mKs	- Selwyn Plutonic Suite
Trj	- Jones Lake Formation
CPmc	- Mount Christie Formation
Mt, CMal	- Tay Formation
DMe	- Earn Group
Mv	- Felsic Volcanics
DMp	- Prevost Formation
Dp	- Portrait Lake Formation
ODrs	- Road River Group
COr, COrh, COrt	- Rabbitkettle Formation
ICg	- Gull Lake Formation

(See Figure 6 for detailed Geology Legend)

- Bedding orientation
- Foliation orientation
- Fracture set; horizontal, inclined, vertical
- Vein orientation
- Fold
- Anticline
- Syncline
- Overturned anticline
- 2013/older rocks
- Observed contact
- Inferred contact
- Assumed contact
- Linears
- Fault
- Normal fault
- Thrust fault
- Strike-slip fault
- Outcrop

585500mE 586000mE 586500mE 587000mE

6941000mN 6940500mN 6940000mN 6939500mN

CMal DMe CPmc Mt

KEG-11-019 KEG-11-038 KEG-11-035 KEG-12-044 KEG-12-059 KEG-12-060 KEG-12-057 KEG-12-063 KEG-12-067 KEG-12-065 KEG-12-042 KEG-12-051 KEG-12-053 KEG-12-054 KEG-12-055 KEG-12-056 KEG-12-047 KEG-11-009 KEG-10-004 KEG-10-002 KEG-11-015 KEG-11-010 KEG-11-013 KEG-11-020 KEG-11-022 KEG-12-069 KEG-12-061 KEG-12-066 KEG-11-012 KEG-11-016 KEG-11-018 KEG-10-001 KEG-11-005 KEG-11-007 KEG-11-041 KEG-11-023 KEG-10-003 KEG-11-021 KEG-11-017 KEG-11-030 KEG-11-024 KEG-12-048 KEG-11-029 KEG-11-025 KEG-12-058 KEG-11-033 KEG-11-039 KEG-11-027 KEG-12-049 KEG-11-026 KEG-12-043 KEG-11-034 KEG-11-036 KEG-11-037 KEG-12-052 KEG-12-050 KEG-12-046 KEG-11-040 KEG-12-045 KEG-12-062 KEG-11-014 KEG-12-068 KEG-11-006 KEG-11-008 KEG-11-028 KEG-11-031 KEG-11-011 KEG-11-032

- DDH-12-xx — Diamond drill hole location with drill hole surface trace
- Access road

SILVER RANGE RESOURCES LTD.

FIGURE 41

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

KEG ZONE DRILL HOLE LOCATIONS

KEG PROPERTY

T.N. 1°33' 23°55' Grid north Magnetic north

Annual change decreasing 25.6'

0 125 250 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F41-PlanView-Keg.wor DATE: FEBRUARY 2014

Recessive linear
Ridge
Swamp
Break in slope
Cliff
Drill collar

6946600mN
6946400mN
6946200mN
6946000mN
6945800mN
6945600mN

K191782
K191763
K191764
K191767
M676114
M676120
K191788
L840543
L840544
L840546
M676122
M676129
M676128
L840545
L840547
M676121
M676115
M676118
M676119
M676117
OSW-13-005
M676126
K191751
K191752
K191753
M676127
K191754
M676003
OSW-12-001
OSW-13-004
OSW-13-003
OSW-12-002
OSW-13-007
OSW-13-006

CPmc
OWL SW
CPmc
G005387
G005392
G005393
G005391
OWL-11-001
OWL-11-002
K276003
G005390
K276015
K276001
CMal
G005388
G005389
OWL-11-004
G0557556
G0557553
G0557552
Mt
K191755
K191758
K191756
K191759
K191757
K191760
CPmc
OWL SW
CMal
L840542
INSET VIEW
M676112
M676113
OSW-13-005
OSW-13-003
OSW-12-001
OSW-13-004
OSW-12-002
OSW-13-006
OSW-13-007
L840540
L840543
Mt
K191781
M676007
M676006

Owl & Owl SW Zones Rock Geochemistry

Sample #	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)	Cu (ppm)	In (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Sn (ppm)	W (ppm)	Zn (ppm)
K191751	2.5	20.3	1545	1.37	28.8	0.227	2.2	1100	33.8	38.2	1.4	350
K191752	447	4770	10001	540	175.5	14.85	3.74	269300	5370	972	0.6	9660
K191753	2.5	13.8	571	1.22	13.5	0.065	2.13	711	33.1	60.3	2.7	211
M676003	2.5	0.3	30.7	0.15	8.2	0.026	2.52	14.5	7.23	10.1	1	53
M676004	8	0.65	92	0.4	50.9	0.059	0.83	24.8	3.29	4.6	1.1	115
K191754	408	2070	10001	221	97.5	7.77	1.38	79300	3700	285	0.4	2090
M676005	2.5	2.5	12.9	0.18	101	0.021	0.85	12.5	3.78	2.3	1.2	68
M676006	2.5	1.32	9.3	2.95	44.5	0.098	3.15	32.9	1.42	26.4	1	362
M676007	2.5	0.55	4	0.44	42	0.01	0.29	34.7	2.27	25.2	0.9	30
K191755	2.5	8.36	513	1.42	88	0.116	0.43	655	14.6	36.1	1.5	213
K191756	2.5	18.65	1130	8.98	83	0.449	2.84	2210	22.9	63.6	1.4	115
K191757	546	209	10001	239	93.5	10.9	0.56	28300	395	128.5	0.4	7020
K191758	69	14.35	10001	14.8	44.5	0.498	0.56	1580	71.1	62.8	1.6	237
K191759	2.5	1.63	490	1.33	52.2	0.068	0.46	210	3.9	41.2	1.4	102
K191760	414	549	10001	498	249	29	0.45	92800	657	407	0.5	7810
K191761	2.5	81.7	2310	1.74	396	2.23	3.4	13600	97.8	212	13.3	3890
K191762	349	6920	10001	91.2	278	12.35	2.9	437000	8990	1970	0.2	2270
K191763	438	3470	10001	46.4	236	8.31	3.11	196000	3950	820	0.3	651
K191764	523	2300	10001	25.4	273	23.9	3.36	134500	4350	642	0.2	1520
K191765	2.5	19.3	298	0.61	32.5	0.089	3.36	1195	38.5	11.5	1.1	177
K191766	2.5	16.7	670	0.68	30	0.137	9.08	1315	53.5	18.5	1.9	185
K191767	548	2180	10001	20.9	178	1.545	3.23	207800	6110	936	0.2	793
K191768	88	1100	10001	47	62.5	4.52	1.17	61000	1395	235	0.1	263
M676112	2.5	0.73	24.8	0.42	45.3	0.021	4.07	13.8	1.76	3.5	1.7	21
M676113	2.5	0.6	15.8	0.27	45.7	0.014	2.89	10	1.73	2.7	1.1	20
M676114	2.5	4.29	175.5	0.2	4.2	0.012	3.58	343	6.24	4.8	0.4	5
M676115	2.5	4.09	201	0.12	10.6	0.029	4.22	277	14.8	3.7	0.2	64
M676116	2.5	1.35	29.6	0.1	20	0.022	3.23	93.5	34.9	42.9	2.1	553
M676117	38	1090	264	3.43	22.1	0.052	2.85	43300	968	251	2.8	53
M676118	7	67.6	790	0.1	10.1	0.413	4	2490	56.4	21.1	0.2	47
M676119	2.5	5.75	9.4	0.04	12.7	0.0075	3.05	185.5	26.8	75.7	2.5	124
M676120	2.5	8.63	164	0.29	4.3	0.013	3.8	505	12.65	3.5	0.2	15
M676121	2.5	3.83	172.5	0.05	4.7	0.009	3.37	234	9.5	4.2	0.2	15
M676122	2.5	2.56	57.7	0.02	2.5	0.015	4.32	110	5.31	1.8	0.2	6
M676126	258	27.3	10001	4.98	31.2	1.15	3.84	1375	496	72.7	1.1	76
M676127	350	5020	10001	585	74.5	5.9	1.13	376000	5360	799	0.2	2250
M676128	7	15.75	1480	1.16	6.9	0.158	3.44	2310	953	21.6	0.1	27
M676129	2.5	52.2	1090	5.04	14.6	0.063	4.99	2310	65.9	16.2	0.4	23
L840540	2.5	22.8	93.4	1.97	12.8	0.123	59.35	1110	47.2	89.5	1.9	68
L840541	2.5	2.6	85.2	0.44	46.8	0.056	5.86	350	26	8.5	1.3	331
L840542	2.5	64.6	1195	0.16	33	0.609	1.94	2760	192	50.6	0.5	310
L840543	7	4.17	731	0.38	29.4	0.194	18.45	142.5	34.6	30.5	4.4	102
L840544	6	6.82	528	0.93	19.2	0.347	17.5	276	69.4	33.4	3.6	41
L840545	10	6.86	288	0.91	34	0.158	29.9	230	338	30.9	5	98
L840546	2.5	3.32	315	0.21	18.1	0.142	4.33	176.5	74.1	34.4	1.6	83
L840547	2.5	9.18	246	0.15	21.4	0.085	3.21	152.5	60.4	52.6	2.8	69
K276015	19	864	10000	9.8	686	5	0.5	159000	1010	824	0.15	5980
K276001	1	1435	11.2	7.26	741	7.35	0.12	214700	1680	700	0.025	28300
K276002	1	562	327	13.7	1325	61.2	0.15	95100	653	383	0.59	199000
K276003	1	859	991	265	2440	6.79	0.23	167000	849	953	0.14	41400
G005387	1	1.1	2900	0.34	94.6	0.063	1.05	116.5	5.92	120	0.63	25
G005388	0.5	0.12	997	0.15	134	0.005	0.4	11	1.62	46	0.55	17
G005389	2	30.4	2060	42.7	262	0.906	0.47	3810	35.3	42	0.26	3240
G005390	171	94	10001	42.1	30.4	1.42	1.53	15350	509	65	0.1	802
G005391	0.5	0.9	960	0.21	176.5	0.022	0.25	51.7	1.52	106	0.51	14
G005392	1070	234	10001	4.62	29.5	1.745	0.26	39500	1070	169	0.15	4660
G005393	122	7.17	10001	5.68	24.6	0.295	3.73	1600	307	39	0.21	54
G0557551	0.5	0.18	43.1	0.13	24.5	0.023	1.91	8.7	2.83	10	0.36	197
G0557552	0.5	0.26	46.5	0.11	24.4	0.021	2.23	14.5	3.25	12	0.39	153
G0557553	1	0.27	45.8	0.07	23.2	0.007	0.45	12.8	3.02	28	0.45	26
G0557554	39	683	155000	3.62	692	28.5	0.67	96400	1080	557	0.11	98300
G0557555	18	119	62000	0.95	93.7	1.86	0.56	18850	164	99	0.75	5040
G0557556	32	1370	56200	10.15	1475	18.3	0.51	216000	2050	1100	0.05	67200

(See Figure 6 for detailed Geology Legend)

- Bedding orientation
- Foliation orientation
- Fracture set; horizontal, inclined, vertical
- Vein orientation
- Fold
- Anticline
- Syncline
- Overturned anticline
- 2013/older rocks
- Observed contact
- Inferred contact
- Assumed contact
- Linears
- Fault
- Normal fault
- Thrust fault
- Strike-slip fault
- Outcrop

Tv	- Tertiary Volcanics
Kst	- South Fork Volcanics
Ksp, mKv, mKs	- Selwyn Plutonic Suite
TrJ	- Jones Lake Formation
CPmc	- Mount Christie Formation
Mt, CMal	- Tay Formation
DMe	- Earn Group
Mv	- Felsic Volcanics
DMp	- Prevost Formation
Dp	- Portrait Lake Formation
ODrs	- Road River Group
COr, COrh, COrt	- Rabbitkettle Formation
ICg	- Gull Lake Formation

- SNG diamond drill hole
- Primary mineralized zone referred to in text
- Secondary soil anomaly referred to in text

T.N. 11°33' 23°55' Grid north Magnetic north
Annual change decreasing 25.6'

SILVER RANGE RESOURCES LTD.

FIGURE 42
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
OWL AND OWL SW ZONES GEOLOGY AND MINERALIZATION
KEG PROPERTY

0 250 500 m
UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft
FILE: .../Keg-F42-MinGeo-OwlOwlSW.wor DATE: FEBRUARY 2014

(See Figure 6 for detailed Geology Legend)

Bedding orientation	Observed contact
Foliation orientation	Inferred contact
Fracture set; horizontal, inclined, vertical	Assumed contact
Vein orientation	Linears
Fold	Fault
Anticline	Normal fault
Syncline	Thrust fault
Overturned anticline	Strike-slip fault
2013/older rocks	Outcrop

Tv	- Tertiary Volcanics
Kst	- South Fork Volcanics
Ksp, mKv, mKs	- Selwyn Plutonic Suite
Trj	- Jones Lake Formation
CPmc	- Mount Christie Formation
Mt, CMal	- Tay Formation
DMe	- Earn Group
Mv	- Felsic Volcanics
DMp	- Prevost Formation
Dp	- Portrait Lake Formation
ODrs	- Road River Group
COr, COrh, COrt	- Rabbitkettle Formation
ICg	- Gull Lake Formation

582000mE
583000mE
584000mE
585000mE
586000mE

6947000mN
6946000mN
6945000mN

CPmc
Mt
CMal
OWL SW
OWL
DMp

Silver (ppm)
- ≥ 10
- ≥ 5.0 < 10
- ≥ 2.0 < 5.0
- ≥ 1.0 < 2.0
- ≥ 0.5 < 1.0
- 0 < 0.5

- SNG soil sample (2010-2013)
- SNG stream sediment sample
- Historical soil sample
- Historical stream sediment sample
- Sample - No value reported or not analyzed for this element
- SNG diamond drill hole
- Primary mineralized zone referred to in text
- Secondary soil anomaly referred to in text

T.N.
21°33'
23°55'
Grid north
Magnetic north
Annual change decreasing 25.6'

SILVER RANGE RESOURCES LTD.

FIGURE 43

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

OWL & OWL SW ZONES SILVER SOIL GEOCHEMISTRY

KEG PROPERTY

0 250 500 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F43-Geochem-Soils-OwlOwlSW-Ag.wor | DATE: FEBRUARY 2014

(See Figure 6 for detailed Geology Legend)

	Bedding orientation		Observed contact
	Foliation orientation		Inferred contact
	Fracture set; horizontal, inclined, vertical		Assumed contact
	Vein orientation		Linears
	Fold		Fault
	Anticline		Normal fault
	Syncline		Thrust fault
	Overturned anticline		Strike-slip fault
	2013/older rocks		Outcrop

Tv	- Tertiary Volcanics
Kst	- South Fork Volcanics
Ksp, mKv, mKs	- Selwyn Plutonic Suite
Trj	- Jones Lake Formation
CPmc	- Mount Christie Formation
Mt, CMal	- Tay Formation
DMe	- Earn Group
Mv	- Felsic Volcanics
DMp	- Prevost Formation
Dp	- Portrait Lake Formation
ODrs	- Road River Group
COr, COrh, COrt	- Rabbitkettle Formation
ICg	- Gull Lake Formation

582000mE 583000mE 584000mE 585000mE 586000mE

6947000mN 6946000mN 6945000mN

CPmc Mt CMal DMp OWL SW OWL

Lead (ppm)
- ≥ 1000
- ≥ 500 < 1000
- ≥ 200 < 500
- ≥ 100 < 200
- ≥ 50 < 100
- 0 < 50

- SNG soil sample (2010-2013)
- SNG stream sediment sample
- Historical soil sample
- Historical stream sediment sample
- Sample - No value reported or not analyzed for this element
- SNG diamond drill hole
- Primary mineralized zone referred to in text
- Secondary soil anomaly referred to in text

T.N. 11°33' 23°55' Grid north Magnetic north
Annual change decreasing 25.6'

SILVER RANGE RESOURCES LTD.

FIGURE 44

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

OWL & OWL SW ZONES LEAD SOIL GEOCHEMISTRY

KEG PROPERTY

0 250 500 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F44-Geochem-Soils-OwlOwlSW-Pb.wor DATE: FEBRUARY 2014

(See Figure 6 for detailed Geology Legend)

	Bedding orientation		Observed contact
	Foliation orientation		Inferred contact
	Fracture set; horizontal, inclined, vertical		Assumed contact
	Vein orientation		Linears
	Fold		Fault
	Anticline		Normal fault
	Syncline		Thrust fault
	Overturned anticline		Strike-slip fault
	2013/older rocks		Outcrop

Tv	- Tertiary Volcanics
Kst	- South Fork Volcanics
Ksp, mKv, mKs	- Selwyn Plutonic Suite
Trj	- Jones Lake Formation
CPmc	- Mount Christie Formation
Mt, CMal	- Tay Formation
DMe	- Earn Group
Mv	- Felsic Volcanics
DMp	- Prevost Formation
Dp	- Portrait Lake Formation
ODrs	- Road River Group
COr, COrh, COrt	- Rabbitkettle Formation
ICg	- Gull Lake Formation

582000mE
583000mE
584000mE
585000mE
586000mE
6947000mN
6946000mN
6945000mN
CPmc
Mt
CMal
DMp
OWL SW
OWL

Zinc (ppm)
- ≥2000
- ≥1000<2000
- ≥500<1000
- ≥200<500
- ≥100<200
- 0<100

- SNG soil sample (2010-2013)
- SNG stream sediment sample
- Historical soil sample
- Historical stream sediment sample
- Sample - No value reported or not analyzed for this element
- SNG diamond drill hole
- Primary mineralized zone referred to in text
- Secondary soil anomaly referred to in text

T.N.
11°33'
23°55'
Grid north
Magnetic north
Annual change decreasing 25.6'

SILVER RANGE RESOURCES LTD.

FIGURE 45

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

OWL & OWL SW ZONES ZINC SOIL GEOCHEMISTRY

KEG PROPERTY

0 250 500 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F45-Geochem-Soils-OwlOwlSW-Zn.wor | DATE: FEBRUARY 2014

(See Figure 6 for detailed Geology Legend)

Bedding orientation	Observed contact
Foliation orientation	Inferred contact
Fracture set; horizontal, inclined, vertical	Assumed contact
Vein orientation	Linears
Fold	Fault
Anticline	Normal fault
Syncline	Thrust fault
Overturned anticline	Strike-slip fault
2013/older rocks	Outcrop

Tv	- Tertiary Volcanics
Kst	- South Fork Volcanics
Ksp, mKv, mKs	- Selwyn Plutonic Suite
Trj	- Jones Lake Formation
CPmc	- Mount Christie Formation
Mt, CMal	- Tay Formation
DMe	- Earn Group
Mv	- Felsic Volcanics
DMp	- Prevost Formation
Dp	- Portrait Lake Formation
ODrs	- Road River Group
COr, COrh, COrt	- Rabbitkettle Formation
ICg	- Gull Lake Formation

582000mE
583000mE
584000mE
585000mE
586000mE

6947000mN
6946000mN
6945000mN

CPmc
Mt
CMal
OWL SW
OWL
DMp

Copper (ppm)
- ≥ 500
- ≥ 200 < 500
- ≥ 100 < 200
- ≥ 50 < 100
- ≥ 20 < 50
- 0 < 20

- SNG soil sample (2010-2013)
- SNG stream sediment sample
- Historical soil sample
- Historical stream sediment sample
- Sample - No value reported or not analyzed for this element
- SNG diamond drill hole
- Primary mineralized zone referred to in text
- Secondary soil anomaly referred to in text

T.N.
1°33'
23°55'
Grid north
Magnetic north
Annual change decreasing 25.6'

SILVER RANGE RESOURCES LTD.

FIGURE 46

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

OWL & OWL SW ZONES COPPER SOIL GEOCHEMISTRY

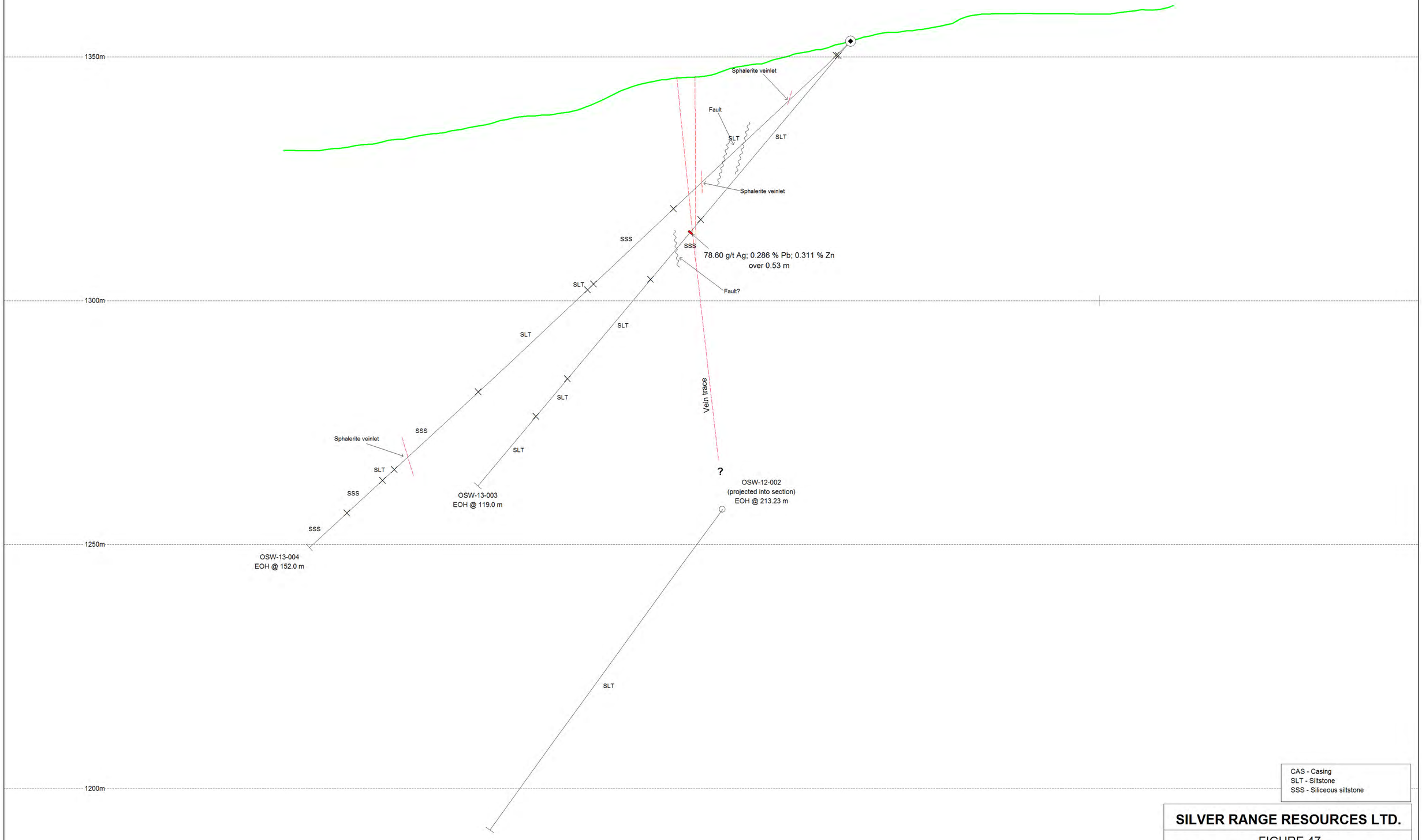
KEG PROPERTY

0 250 500 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F46-Geochem-Soils-OwlOwlSW-Cu.wor | DATE: FEBRUARY 2014

Looking NW



CAS - Casing
SLT - Siltstone
SSS - Siliceous siltstone

SILVER RANGE RESOURCES LTD.

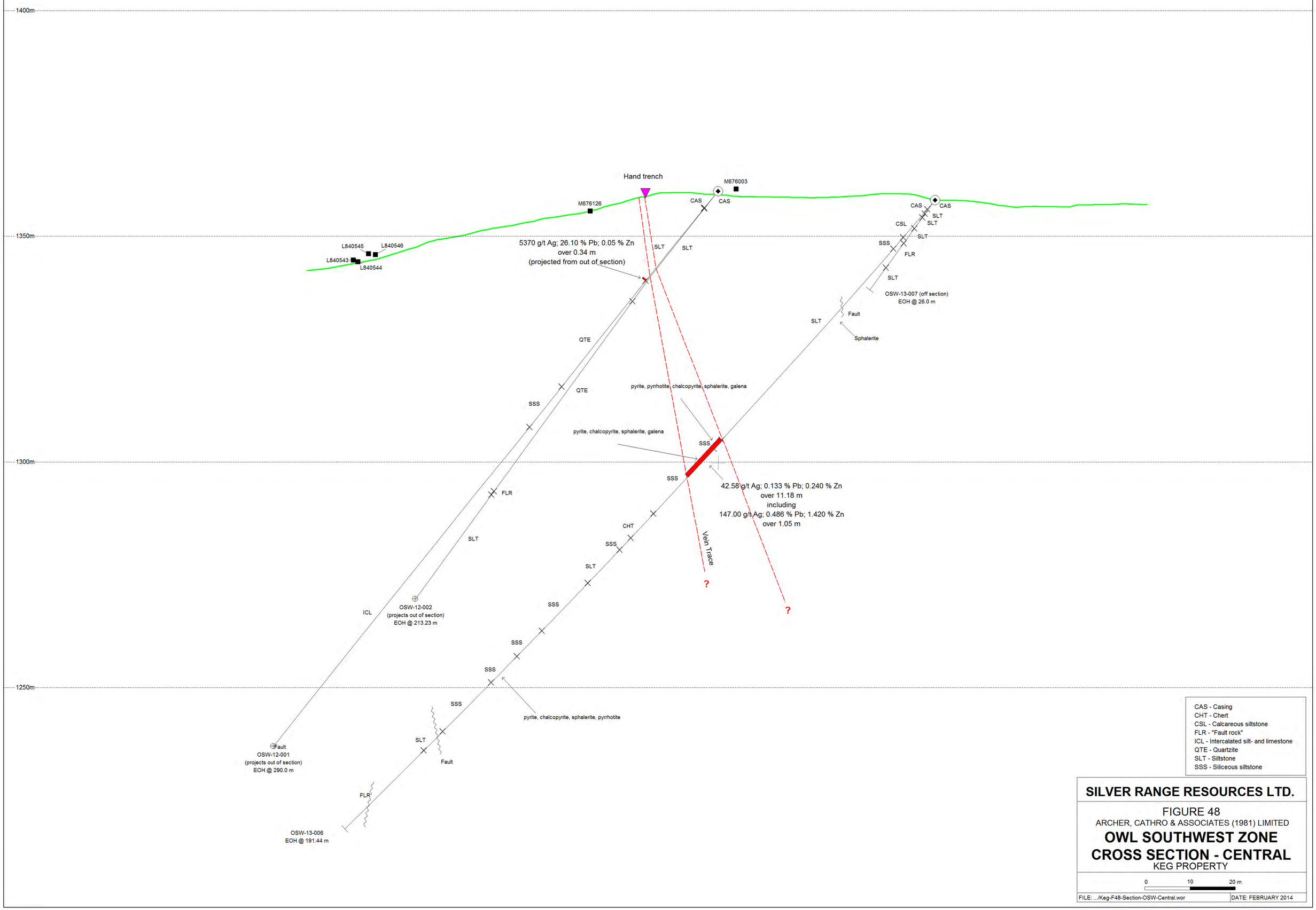
FIGURE 47
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
OWL SOUTHWEST ZONE
CROSS SECTION - SOUTHWEST
KEG PROPERTY

0 20 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F47-Section-OSW-SW.wor | DATE: FEBRUARY 2014

Looking NW



CAS - Casing
CHT - Chert
CSL - Calcareous siltstone
FLR - "Fault rock"
ICL - Intercalated silt- and limestone
QTE - Quartzite
SLT - Siltstone
SSS - Siliceous siltstone

SILVER RANGE RESOURCES LTD.

FIGURE 48

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

OWL SOUTHWEST ZONE
CROSS SECTION - CENTRAL

KEG PROPERTY

0 10 20 m

FILE: .../Keg-F48-Section-OSW-Central.wor | DATE: FEBRUARY 2014

Looking NW

1350m

1300m

1250m

1200m

CAS

SLT

Vein Trace

SSS

Mx

Mineralized veinlets in siltstone

152.40 g/t Ag; 0.792 % Pb; 0.135 % Zn
over 2.61 m

Sphalerite

OSW-13-005
EOH @ 53 m

OSW-12-001
(projected into section)
EOH @ 290.0 m

ARG

CAS - Casing
ARG - Argillite
Mx - Mineralized zone
QTE - Quartzite
SLT - Siltstone
SSS - Siliceous siltstone

SILVER RANGE RESOURCES LTD.

FIGURE 49

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

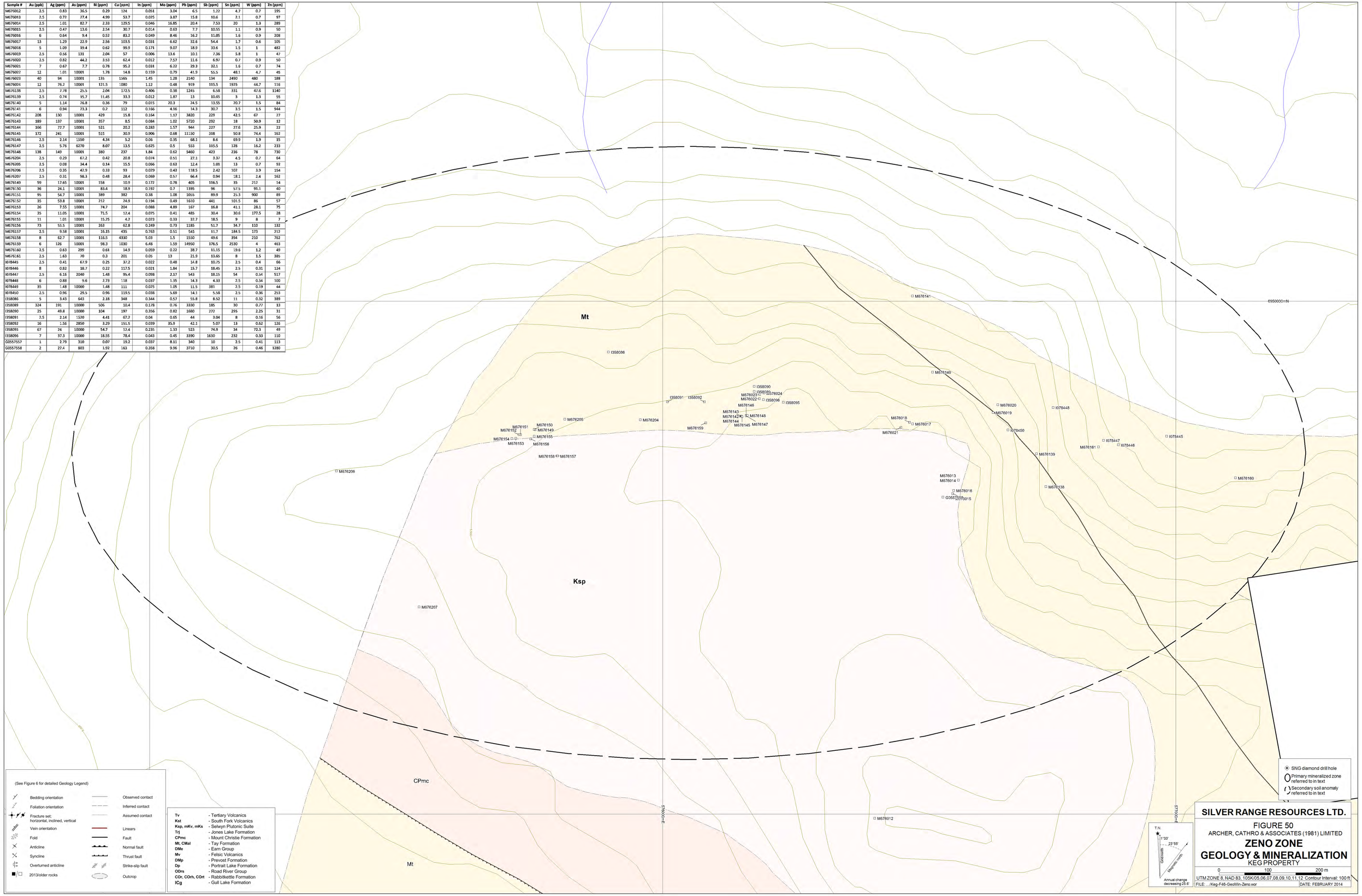
OWL SOUTHWEST ZONE
CROSS SECTION - NORTHEAST

KEG PROPERTY

0 10 20 m

FILE: .../Keg-F49-Section-OSW-NE.wor | DATE: FEBRUARY 2014

Sample #	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)	Cu (ppm)	In (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Sn (ppm)	W (ppm)	Zn (ppm)
M676012	2.5	0.83	36.5	0.29	124	0.051	3.04	6.5	1.22	4.7	0.7	195
M676013	2.5	0.73	27.4	4.99	53.7	0.025	3.87	15.8	10.6	2.1	0.7	97
M676014	2.5	1.01	82.7	2.33	129.5	0.046	16.85	20.4	7.53	20	1.3	289
M676015	2.5	0.47	13.6	2.54	30.7	0.014	0.63	7.7	10.55	1.1	0.9	50
M676016	6	0.64	9.4	0.52	83.2	0.049	8.46	16.2	11.05	1.6	0.9	208
M676017	13	1.29	22.9	2.56	103.5	0.031	6.62	32.6	54.4	1.7	0.6	105
M676018	5	1.09	19.4	0.62	99.9	0.171	9.07	18.9	33.6	1.5	1	482
M676019	2.5	0.56	131	2.04	57	0.006	13.6	10.1	7.36	5.8	1	47
M676020	2.5	0.82	44.2	3.53	62.4	0.012	7.57	11.6	6.97	0.7	0.9	50
M676021	7	0.67	7.7	0.78	95.2	0.031	6.22	29.3	32.1	1.6	0.7	74
M676022	12	1.01	10001	1.78	14.8	0.159	0.79	41.9	55.5	48.1	4.7	45
M676023	40	94	10001	135	1565	1.45	1.28	2140	134	2490	480	188
M676024	12	76.2	10001	171.5	1080	1.12	0.48	919	115.5	1925	44.7	116
M676138	2.5	7.78	25.5	2.04	172.5	0.406	0.38	1245	6.58	331	47.6	1140
M676139	2.5	0.74	15.7	11.45	33.3	0.012	1.87	13	10.65	3	1.3	55
M676140	5	1.14	76.8	0.36	79	0.015	20.3	24.5	13.55	20.7	1.5	84
M676141	6	0.94	73.3	0.2	112	0.166	4.16	14.3	30.7	3.5	1.5	944
M676142	208	130	10001	429	15.8	0.154	1.17	3820	229	42.5	67	27
M676143	189	137	10001	357	8.5	0.084	1.02	5720	292	18	50.9	12
M676144	166	77.7	10001	521	20.2	0.283	1.57	944	227	27.6	25.9	22
M676145	172	241	10001	515	30.9	0.906	0.68	11150	318	50.8	74.4	162
M676146	2.5	2.14	1550	4.34	5.2	0.06	0.35	68.1	8.6	69.9	1.9	35
M676147	2.5	5.76	6270	8.07	13.5	0.625	0.5	553	115.5	128	16.2	233
M676148	138	149	10001	380	237	1.84	0.62	5460	423	236	78	730
M676204	2.5	0.29	67.2	0.42	20.8	0.074	0.51	27.1	3.37	4.5	0.7	64
M676205	2.5	0.08	34.4	0.14	15.5	0.066	0.63	12.4	1.01	13	0.7	92
M676206	2.5	0.35	42.9	0.33	93	0.029	0.43	118.5	2.42	102	3.9	154
M676207	2.5	0.31	98.3	0.48	28.4	0.069	0.57	66.4	0.94	18.1	2.4	162
M676149	59	17.65	10001	158	10.9	0.172	0.78	405	116.5	35	212	14
M676150	36	24.1	10001	83.4	18.9	0.192	0.7	1395	96	57.5	91.1	40
M676151	95	54.7	10001	389	382	0.38	1.08	1055	89.9	25.3	900	89
M676152	35	53.8	10001	212	24.9	0.194	0.49	1610	441	101.5	86	57
M676153	26	7.55	10001	74.2	204	0.088	4.89	107	16.8	41.1	28.1	75
M676154	35	11.05	10001	71.5	12.4	0.075	0.41	485	30.4	30.6	177.5	28
M676155	11	1.01	10001	15.25	4.2	0.023	0.33	37.7	18.5	9	8	7
M676156	73	55.5	10001	263	62.8	0.249	0.73	1185	51.7	34.7	110	132
M676157	2.5	9.58	10001	16.15	435	0.763	0.51	545	11.7	184.5	173	212
M676158	8	62.7	10001	116.5	4330	5.03	1.5	1550	49.6	394	210	762
M676159	6	126	10001	98.3	1030	6.48	1.59	14950	176.5	2530	4	463
M676160	2.5	0.63	299	0.61	14.9	0.059	0.22	38.7	11.15	19.6	1.2	49
M676161	2.5	1.63	70	0.3	201	0.05	13	21.9	13.65	8	1.5	385
I078445	2.5	0.41	67.9	0.25	37.2	0.022	0.48	14.8	10.75	2.5	0.4	66
I078446	8	0.82	18.7	0.22	117.5	0.021	1.84	15.7	18.45	2.5	0.31	124
I078447	2.5	6.16	2040	1.48	95.4	0.098	2.17	543	18.15	54	0.54	517
I078448	6	0.88	9.6	2.73	118	0.037	1.35	14.3	4.33	2.5	0.54	100
I078449	35	1.48	10000	1.48	111	0.025	1.05	11.5	381	2.5	0.19	44
I078450	2.5	0.96	29.5	0.96	119.5	0.038	5.69	14.1	5.58	2.5	0.36	253
I358086	5	3.43	643	2.18	348	0.344	0.57	55.8	8.52	11	0.32	389
I358089	324	191	10000	506	10.4	0.178	0.76	3330	185	30	0.77	13
I358090	25	49.8	10000	104	197	0.356	0.82	1680	272	295	2.25	31
I358091	2.5	2.14	1520	4.41	67.2	0.04	0.65	44	3.04	8	0.16	56
I358092	16	1.56	2850	3.29	151.5	0.039	35.9	42.1	5.07	13	0.62	126
I358095	67	24	10000	54.7	12.4	0.235	1.33	523	74.9	34	72.3	49
I358096	7	37.3	10000	18.55	78.4	0.043	0.45	3390	1630	232	0.33	110
G0557557	1	2.79	310	0.07	19.2	0.037	8.11	340	10	2.5	0.41	113
G0557558	2	27.4	803	1.92	163	0.358	9.96	3710	30.5	26	0.46	1280



575000mE
576000mE
577000mE
578000mN
6950000mN
6949000mN
6948000mN
6947000mN

Tv	- Tertiary Volcanics
Kst	- South Fork Volcanics
Ksp, mKv, mKs	- Selwyn Plutonic Suite
Trj	- Jones Lake Formation
CPmc	- Mount Christie Formation
Mt, CMal	- Tay Formation
DMe	- Earn Group
Mv	- Felsic Volcanics
DMp	- Prevost Formation
Dp	- Portrait Lake Formation
ODrs	- Road River Group
COr, COrh, COrt	- Rabbitkettle Formation
ICg	- Gull Lake Formation

(See Figure 6 for detailed Geology Legend)

- Bedding orientation
- Foliation orientation
- Fracture set; horizontal, inclined, vertical
- Vein orientation
- Fold
- Anticline
- Syncline
- Overturned anticline
- 2013/older rocks
- Observed contact
- Inferred contact
- Assumed contact
- Linears
- Fault
- Normal fault
- Thrust fault
- Strike-slip fault
- Outcrop

Silver (ppm)

- ≥ 10
- ≥ 5.0 < 10
- ≥ 2.0 < 5.0
- ≥ 1.0 < 2.0
- ≥ 0.5 < 1.0
- 0 < 0.5
- SNG soil sample (2010-2013)
- SNG stream sediment sample
- Historical soil sample
- Historical stream sediment sample
- Sample - No value reported or not analyzed for this element
- SNG diamond drill hole
- Primary mineralized zone referred to in text
- Secondary soil anomaly referred to in text

Owned by other operators

Ksp
Mv
Mt
CPmc
DMp
IXX
V
III
IV
C
C'

T.N. 1°33' 23°55' Grid north Magnetic north
Annual change decreasing 25.6'

SILVER RANGE RESOURCES LTD.

FIGURE 51

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

ZENO ZONE
SILVER SOIL GEOCHEMISTRY

KEG PROPERTY

0 250 500 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F51-Geochem-Soils-Zeno-Ag.wor | DATE: FEBRUARY 2014

575000mE
576000mE
577000mE
578000mE
6950000mN
6949000mN
6948000mN
6947000mN

Tv	- Tertiary Volcanics
Kst	- South Fork Volcanics
Ksp, mKv, mKs	- Selwyn Plutonic Suite
Trj	- Jones Lake Formation
CPmc	- Mount Christie Formation
Mt, CMal	- Tay Formation
DMe	- Earn Group
Mv	- Felsic Volcanics
DMp	- Prevost Formation
Dp	- Portrait Lake Formation
ODrs	- Road River Group
COr, COrh, COrt	- Rabbitkettle Formation
ICg	- Gull Lake Formation

(See Figure 6 for detailed Geology Legend)

- Bedding orientation
- Foliation orientation
- Fracture set; horizontal, inclined, vertical
- Vein orientation
- Fold
- Anticline
- Syncline
- Overturned anticline
- 2013/older rocks
- Observed contact
- Inferred contact
- Assumed contact
- Linears
- Fault
- Normal fault
- Thrust fault
- Strike-slip fault
- Outcrop

Lead (ppm)
- ≥ 1000
- ≥ 500 < 1000
- ≥ 200 < 500
- ≥ 100 < 200
- ≥ 50 < 100
- 0 < 50

- SNG soil sample (2010-2013)
- SNG stream sediment sample
- Historical soil sample
- Historical stream sediment sample
- Sample - No value reported or not analyzed for this element
- SNG diamond drill hole
- Primary mineralized zone referred to in text
- Secondary soil anomaly referred to in text

Owned by other operators

C'
C
Ksp
Mv
Mt
CPmc
DMp
IXX
V
III
IV

T.N.
21°33'
23°55'
Grid north
Magnetic north
Annual change decreasing 25.6'

SILVER RANGE RESOURCES LTD.

FIGURE 52
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
ZENO ZONE
LEAD SOIL GEOCHEMISTRY
KEG PROPERTY

0 250 500 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F52-Geochem-Soils-Zeno-Pb.wor | DATE: FEBRUARY 2014

575000mE
576000mE
577000mE
578000mE
6950000mN
6949000mN
6948000mN
6947000mN

Tv	- Tertiary Volcanics
Kst	- South Fork Volcanics
Ksp, mKv, mKs	- Selwyn Plutonic Suite
Trj	- Jones Lake Formation
CPmc	- Mount Christie Formation
Mt, CMal	- Tay Formation
DMe	- Earn Group
Mv	- Felsic Volcanics
DMp	- Prevost Formation
Dp	- Portrait Lake Formation
ODrs	- Road River Group
COr, COrh, COrt	- Rabbitkettle Formation
ICg	- Gull Lake Formation

(See Figure 6 for detailed Geology Legend)

- Bedding orientation
- Foliation orientation
- Fracture set; horizontal, inclined, vertical
- Vein orientation
- Fold
- Anticline
- Syncline
- Overturned anticline
- 2013/older rocks
- Observed contact
- Inferred contact
- Assumed contact
- Linears
- Fault
- Normal fault
- Thrust fault
- Strike-slip fault
- Outcrop

Arsenic (ppm)

- ≥ 1000
- ≥ 500 < 1000
- ≥ 200 < 500
- ≥ 100 < 200
- ≥ 50 < 100
- 0 < 50
- SNG soil sample (2010-2013)
- SNG stream sediment sample
- Historical soil sample
- Historical stream sediment sample
- Sample - No value reported or not analyzed for this element
- SNG diamond drill hole
- Primary mineralized zone referred to in text
- Secondary soil anomaly referred to in text

Owned by other operators

Ksp
Mv
Mt
CPmc
IXX
V
III
IV
DMp
C
C'

T.N.
1°33'
23°55'
Grid north
Magnetic north
Annual change decreasing 25.6'

SILVER RANGE RESOURCES LTD.

FIGURE 53

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

ZENO ZONE
ARSENIC SOIL GEOCHEMISTRY

KEG PROPERTY

0 250 500 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F53-Geochem-Soils-Zeno-As.wor | DATE: FEBRUARY 2014

Tv	- Tertiary Volcanics
Kst	- South Fork Volcanics
Ksp, mKv, mKs	- Selwyn Plutonic Suite
Trj	- Jones Lake Formation
CPmc	- Mount Christie Formation
Mt, CMal	- Tay Formation
DMe	- Earn Group
Mv	- Felsic Volcanics
DMp	- Prevost Formation
Dp	- Portrait Lake Formation
ODrs	- Road River Group
COr, COrh, COrt	- Rabbitkettle Formation
ICg	- Gull Lake Formation

(See Figure 6 for detailed Geology Legend)

- Bedding orientation
- Foliation orientation
- Fracture set; horizontal, inclined, vertical
- Vein orientation
- Fold
- Anticline
- Syncline
- Overturned anticline
- 2013/older rocks
- Observed contact
- Inferred contact
- Assumed contact
- Linears
- Fault
- Normal fault
- Thrust fault
- Strike-slip fault
- Outcrop

595000mE

596000mE

Trj

Mt

CPmc

Mt

DMp

Dp

RGS Zone Rock Geochemistry											
Sample #	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)	Cu (ppm)	In (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Sn (ppm)	W (ppm)
K280907	13	2.61	291	0.11	206	0.585	3.93	570	30.4	5.5	0.4
K280908	9	1.09	134	0.06	98.5	0.18	2.73	167	14.3	10.9	0.5
K280909	6	0.66	9.8	0.09	219	0.042	0.69	14.5	2.01	0.7	0.6
K280910	5	0.36	79.6	0.11	286	0.057	3.03	7.3	15.95	0.6	0.7
L840500	26	2.92	728	1.13	593	2.12	1.93	601	40.1	410	0.8
M676616	36	0.49	24.6	0.15	21.4	0.069	0.38	135	4.07	0.7	1
M676617	22	6.16	419	0.07	53.1	0.185	0.65	160	21	9.6	1.3
M676618	9	2.17	1160	0.51	261	0.118	0.89	172	26.6	84	0.4
M676619	2.5	1.5	9.1	0.09	14.3	0.025	0.78	22.3	3.82	0.8	0.3
M676944	2.5	0.98	8.8	0.4	103	0.057	5.55	126	4.17	9.3	1.7
M676945	2.5	10.85	1705	2.89	263	6.4	1.6	1550	6.6	189	1.6
M676946	11	2.84	13.9	0.23	98.7	0.084	59.9	19.1	6.27	2.8	1.4
M676947	2.5	0.49	96.3	0.16	86.4	0.05	29.2	24.3	4.98	15.9	1.6
M676948	121	1.17	170	0.19	97.4	0.04	6.39	14.8	59.4	1.2	1.3
M676949	6	0.18	8	0.17	46.3	0.035	0.4	5	1.58	1	1.4
M676950	2.5	0.09	22.8	0.09	91.9	0.015	1.13	3.6	12.4	0.5	0.8
M676951	2.5	2.32	1760	2.09	149.5	0.006	6.95	232	4.51	109.5	1.5
M676952	2.5	0.71	473	0.22	96.2	0.007	68.4	23.9	2.47	5.5	1.7
M676953	2.5	0.06	58.6	0.12	225	0.057	2.27	42.5	8.65	1	0.7
M676175	2.5	0.08	422	0.07	12.4	0.0025	0.42	5.4	2.99	5.6	0.4
M676176	2.5	21.2	1285	9.31	374	0.21	4.63	3450	16.2	395	7
M676177	13	463	10001	258	1890	7.48	16.75	86300	397	1800	8.6
M676178	2.5	1.43	292	0.92	53.3	0.059	1.1	242	2.74	83.7	2.9
M676179	2.5	5.23	322	3.13	36.7	0.209	1.74	714	6.96	29.2	0.5
L840654	6	14.35	10001	15.95	1655	0.453	9.41	785	216	49.3	0.2
L840655	9	267	1300	402	485	9.53	9.17	30700	26.8	379	85.1
L840656	2.5	122	10001	20.3	282	2.9	3.46	31100	161.5	604	75.2
L840657	23	189	494	150.5	2460	7.59	7.17	29500	28.7	277	4.3
L840658	2.5	141	2300	138.5	359	4.14	4.85	23200	74.1	180.5	104.5
L840659	2.5	170	4650	87.7	871	5.78	4.59	32300	140.5	218	710
L840660	13	86.9	10001	101.5	79.4	0.348	9.03	10900	178.5	39.8	22.5
L840661	2.5	51.2	10001	49.5	858	0.692	9.25	7270	165.5	80.7	27
L840662	8	238	10001	132	3650	16	6.61	45300	261	436	7.2
L840663	2.5	221	10001	153	4510	7.81	6.39	31600	156	363	3.4
I078436	2.5	0.4	27	0.09	105.5	0.008	1.02	6.4	1.77	46	0.7
I078437	2.5	0.16	29.3	0.06	33.1	0.0025	0.69	4.6	5.47	11	0.82
I078438	2.5	0.49	15.5	0.07	82.6	0.0025	197	14.6	4.63	80	3.16
I078439	2.5	0.29	30.6	0.09	75.6	0.077	11.85	3.7	2.06	8	1.03
I078441	2.5	0.6	295	0.12	68.7	0.006	13.25	19.4	3.21	23	1.18
I078442	2.5	0.69	537	0.83	73.7	0.015	0.45	68	1.73	21	0.68
I079079	2.5	10.55	41.2	0.59	137.5	0.395	0.41	2210	9.36	300	1.77
I079080	2.5	0.27	7070	0.19	43.1	0.031	0.63	10.4	3.21	23	1.64
I079081	2.5	206	10000	278	2110	1.805	38.1	20500	532	4300	24.7
I079082	8	338	10000	306	2920	1.615	24.7	19950	110.5	15400	18.4
I079083	2.5	192	1195	323	378	3.68	17.15	18950	60.6	255	115
I079084	61	76.5	10000	187.5	1320	0.947	1.63	2120	380	931	0.39
I079085	141	189	10000	633	1295	1.02	1.89	6540	1340	394	0.26
I079086	2.5	0.8	3940	0.91	191	0.062	5.31	114.5	11.7	31	0.76
I079087	11	92.2	8020	58.6	97.6	1.415	0.33	14900	399	61	0.14
I079088	113	91.9	10000	48.5	47.1	2.55	2.3	14450	288	61	0.82
I079089	2.5	35.8	4370	24.6	51.8	0.38	0.34	6060	205	32	0.1
I079092	2.5	105	3370	202	414	1.68	2.01	10300	17	126	58.8
I079090	203	71.5	10000	188.5	525	0.542	4.2	1855	227	643	0.34
I079091	62	165	10000	503	610	0.598	3.76	7370	1205	361	0.52
K284980	2.5	5.26	5110	2.87	65.9	0.037	12.7	116.5	11.35	20	3.02
I078440	9	32.3	10000	16.85	1095	0.416	8.26	4600	46.1	992	0.59
K284979	131	12.25	837	1.03	110	1.55	2.59	976	45.7	32	1.63
G0557559	15	3.9	316	0.15	604	0.176	1.75	50.7	5.11	38	0.12

- SNG diamond drill hole
- Primary mineralized zone referred to in text
- Secondary soil anomaly referred to in text

T.N. 1°33' 23°55' Grid north Magnetic north Annual change decreasing 25.6'

SILVER RANGE RESOURCES LTD.

FIGURE 54

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

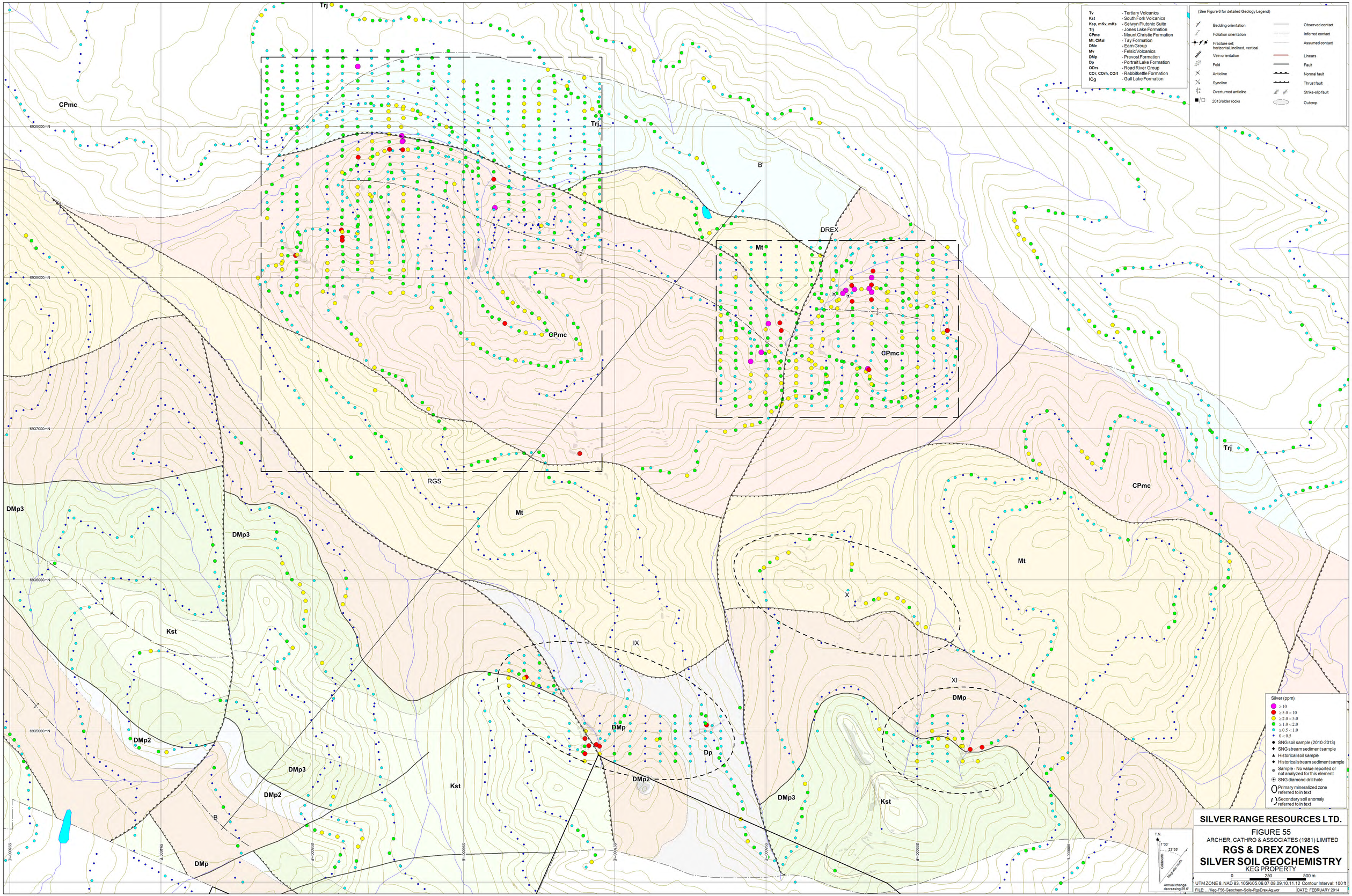
RGS ZONE GEOLOGY AND MINERALIZATION

KEG PROPERTY

0 200 400 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F54-GeoMin-Rgs.wor DATE: FEBRUARY 2014



SILVER RANGE RESOURCES LTD.

FIGURE 55

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

RGS & DREX ZONES

SILVER SOIL GEOCHEMISTRY

KEG PROPERTY

0 250 500 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F56-Geochem-Soils-RgsDrex-Ag.wor

DATE: FEBRUARY 2014

(See Figure 6 for detailed Geology Legend)

Tv	- Tertiary Volcanics
Kst	- South Fork Volcanics
Ksp, mKv, mKs	- Selwyn Plutonic Suite
Trj	- Jones Lake Formation
CPmc	- Mount Christie Formation
Mt, CMal	- Tay Formation
DMe	- Earn Group
Mv	- Felsic Volcanics
DMp	- Prevost Formation
Dp	- Portrait Lake Formation
ODrs	- Road River Group
COr, COrh, COrt	- Rabbitkettle Formation
ICg	- Gull Lake Formation

Bedding orientation
Foliation orientation
Fracture set; horizontal, inclined, vertical
Vein orientation
Fold
Anticline
Syncline
Overturned anticline
2013/older rocks

Observed contact
Inferred contact
Assumed contact
Linears
Fault
Normal fault
Thrust fault
Strike-slip fault
Outcrop

Lead (ppm)
- ≥ 1000
- ≥ 500 < 1000
- ≥ 200 < 500
- ≥ 100 < 200
- ≥ 50 < 100
- 0 < 50
- SNG soil sample (2010-2013)
- SNG stream sediment sample
- Historical soil sample
- Historical stream sediment sample
- Sample - No value reported or not analyzed for this element
- SNG diamond drill hole
- Primary mineralized zone referred to in text
- Secondary soil anomaly referred to in text

SILVER RANGE RESOURCES LTD.

FIGURE 56
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
RGS & DREX ZONES LEAD SOIL GEOCHEMISTRY
KEG PROPERTY

T.N. 11°33' 23°55' Grid north Magnetic north Annual change decreasing 25.6'

0 250 500 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F57-Geochem-Soils-RgsDrex-Pb.wor DATE: FEBRUARY 2014

(See Figure 6 for detailed Geology Legend)

Tv	- Tertiary Volcanics
Kst	- South Fork Volcanics
Ksp, mKv, mKs	- Selwyn Plutonic Suite
Trj	- Jones Lake Formation
CPmc	- Mount Christie Formation
Mt, CMal	- Tay Formation
DMe	- Earn Group
Mv	- Felsic Volcanics
DMp	- Prevost Formation
Dp	- Portrait Lake Formation
ODrs	- Road River Group
COr, COrh, COrt	- Rabbitkettle Formation
ICg	- Gull Lake Formation

Bedding orientation
Foliation orientation
Fracture set; horizontal, inclined, vertical
Vein orientation
Fold
Anticline
Syncline
Overturned anticline
2013/older rocks

Observed contact
Inferred contact
Assumed contact
Linears
Fault
Normal fault
Thrust fault
Strike-slip fault
Outcrop

Arsenic (ppm)
- ≥ 1000
- ≥ 500 < 1000
- ≥ 200 < 500
- ≥ 100 < 200
- ≥ 50 < 100
- 0 < 50
- SNG soil sample (2010-2013)
- SNG stream sediment sample
- Historical soil sample
- Historical stream sediment sample
- Sample - No value reported or not analyzed for this element
- SNG diamond drill hole
- Primary mineralized zone referred to in text
- Secondary soil anomaly referred to in text

SILVER RANGE RESOURCES LTD.

FIGURE 57
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
RGS & DREX ZONES
ARSENIC SOIL GEOCHEMISTRY
KEG PROPERTY

T.N. 11°33' 23°55' Grid north Magnetic north Annual change decreasing 25.6'

0 250 500 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F57-Geochem-Soils-RgsDrex-As.wor DATE: FEBRUARY 2014

SILVER RANGE RESOURCES LTD.

FIGURE 58

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

DREX ZONE

GEOLOGY & MINERALIZATION

KEG PROPERTY

T.N. 1°33' Grid north 23°55' Magnetic north

Annual change decreasing 25.6'

0 200 400 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-Fxx-GeoMin-Drex.wor DATE: FEBRUARY 2014

- SNG diamond drill hole
- Primary mineralized zone referred to in text
- Secondary soil anomaly referred to in text

597700mE 598800mE 599900mE 6938000mN 6937000mN

Trj Mt CPmc

G0557559 K280906 K280901 K280903 K280902 K280904 L840371 L840370 L840373 G0557560

M676131 M676132 M676133 M676134 M676135 M676136 M676137 M676201 M676202 M676203 M676123 M676124 M676125 M676130 M676399

DRX-11-001 DRX-11-002 DRX-11-003 DRX-11-004

G0557561 G0557562 G0557563 G0557564 G0557565 G0557567 G0557568 G0557569 G005378 G005379 G005380 G005382 G005383 G005384 G005385 G005386 G005398 G005399 G005400 L840372 K276004 K276005

Drex Zone Rock Geochemistry

Sample #	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)	Cu (ppm)	In (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Sn (ppm)	W (ppm)	Zn (ppm)
K280901	2.5	0.07	14	0.1	27.8	0.034	0.48	5	1.13	1.6	1	80
K280902	2.5	0.54	63.9	0.25	114.5	0.028	2.68	44.2	5.43	36	1.8	103
K280903	2.5	0.55	36.8	0.28	40	0.039	0.73	61.5	14.95	87.5	1.4	49
K280904	2.5	0.88	78.2	0.22	18.4	0.016	0.78	13.4	7.47	21.3	0.7	17
K280905	2.5	1.86	381	0.06	80.5	0.023	0.42	92.5	3.74	100	2.4	39
K280906	2.5	0.24	24	0.16	88	0.037	0.85	37.9	6.84	1.5	0.8	140
L840370	5	1.5	9.6	0.1	30.5	0.017	0.52	68.8	15.9	1.7	0.7	25
L840371	2.5	8.5	559	0.11	46.2	0.077	0.76	854	12.25	76.4	0.7	31
L840372	2.5	2.67	77.8	4.05	52.4	0.247	0.48	104	5.83	12.8	0.7	300
L840373	2.5	1.7	503	0.43	48.7	0.03	7.66	360	52	28.7	1.3	148
M676123	2.5	1.23	91.8	0.45	90	0.169	53.1	48.8	9.09	28.5	2.3	601
M676124	2.5	0.9	866	0.65	80.3	0.059	16	40.3	11.3	15.3	1.6	178
M676125	2.5	0.56	26	0.72	64.2	0.033	28.8	22.9	6.12	16.1	1.7	109
M676201	2.5	30.9	491	1.91	78	3.32	10	4550	19.75	49.7	1.3	236
M676202	2.5	2.4	4960	1.45	93.9	0.043	3.61	100.5	16.4	83.3	6.5	42
M676130	12	3.81	1455	3.52	49.9	0.369	2.9	469	5.89	24.6	0.9	310
M676131	6	2.6	45.9	0.29	19.7	0.032	3.71	84.7	10.75	3	0.3	15
M676132	2.5	0.59	42.7	0.08	10.4	0.011	4.73	7.4	4.05	0.9	0.3	4
M676133	2.5	0.51	105.5	0.17	11.6	0.016	2.84	97.3	8.4	30.3	0.4	4
M676134	2.5	0.62	49.1	0.12	52.9	0.069	20.8	21.2	5.96	6.4	1.7	317
M676135	127	176	10001	16.1	2700	11.2	1.24	14150	213	3340	0.4	23300
M676136	40	221	10001	9.26	1135	5.46	2.83	29100	745	1525	1.5	20400
M676137	6	52	10001	2.19	490	2.07	2.87	4940	275	582	1.1	5490
M676203	2.5	0.6	62.6	0.25	68.6	0.056	2.85	44.4	1.93	4.4	0.8	47
K276005	1	44.2	610	1.62	461	1.35	0.75	6060	50.5	443	0.05	3430
K276004	77	240	10000	15.8	1270	4.16	2.71	27400	1560	1630	0.09	11900
G005378	77	11.4	10001	16.85	137	0.769	0.59	484	108.5	88	0.37	1360
G005379	2	137	10001	38.1	1220	2.4	1.8	9340	39.3	1565	0.3	1880
G005380	16	60.9	10001	11.15	812	1.5	1.27	5060	678	4370	0.55	2130
G005381	113	8.79	10001	8.44	54.8	0.591	1.58	649	129	142	0.43	573
G005382	10	4.97	10001	3.96	59.8	0.186	0.88	499	28.1	94	0.5	462
G005383	451	150	10001	17.9	1030	3.3	0.88	25000	319	1145	0.24	2780
G005384	5	2.25	9110	5.86	117.5	0.132	58.9	143.5	5.23	22	1.88	192
G005385	0.5	0.8	277	1.19	36.1	0.018	0.57	45.8	2.06	14	0.14	20
G005386	0.5	0.28	154	0.56	122	0.056	1	12.5	0.76	7	1.26	71
G005398	5	2.27	3480	0.81	118	0.049	21.1	201	12.5	5	0.35	189
G005399	7	0.75	513	0.2	92.7	0.013	58.1	44.3	6.94	13	0.92	41
G005400	12	5.62	4610	0.76	125	0.072	9.4	1250	13.5	7	0.88	132
G0557560	9	2.36	189.5	0.06	134	0.114	2.21	209	33.2	2.5	0.15	72
G0557561	20	187	27000	7.04	622	3.52	0.91	15200	212	956	0.33	654
G0557562	9	48.9	23100	1.05	456	1.88	1.51	3890	58.2	1580	86.1	516
G0557563	55	1120	203000	27.6	4240	56.7	1.32	118000	864	14600	11.5	1820
G0557564	4	103	11500	136	405	0.216	1.28	7330	49.5	326	0.53	103
G0557565	1	10.3	1515	0.97	145	0.442	1.87	910	6.73	170	0.31	115
G0557567	91	5.06	62900	0.5	9.8	0.072	0.47	308	39.8	88	0.17	23
G0557568	2	70.5	4830	1	196	1.69	0.83	9980	136.5	500	0.14	398
G0557569	150	568	64000	25.1	7310	27.4	5.8	44700	4480	6950	0.27	77600

(See Figure 6 for detailed Geology Legend)

- Bedding orientation
- Foliation orientation
- Fracture set; horizontal, inclined, vertical
- Vein orientation
- Fold
- Anticline
- Syncline
- Overturned anticline
- 2013/older rocks
- Observed contact
- Inferred contact
- Assumed contact
- Linears
- Fault
- Normal fault
- Thrust fault
- Strike-slip fault
- Outcrop

Tv	- Tertiary Volcanics
Kst	- South Fork Volcanics
Ksp, mKv, mKs	- Selwyn Plutonic Suite
Trj	- Jones Lake Formation
CPmc	- Mount Christie Formation
Mt, CMal	- Tay Formation
DMe	- Earn Group
Mv	- Felsic Volcanics
DMp	- Prevost Formation
Dp	- Portrait Lake Formation
ODrs	- Road River Group
COr, COrh, COrt	- Rabbitkettle Formation
ICg	- Gull Lake Formation

SILVER RANGE RESOURCES LTD.

FIGURE 59

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

ARCHIMEDES ZONE
GEOLOGY & MINERALIZATION

KEG PROPERTY

0 200 400 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-Fxx-GeoMin-Arch.wor DATE: FEBRUARY 2013

T.N.
1°33'
23°55'
Grid north
Magnetic north
Annual change decreasing 25.6'

602000mE
603000mE
604000mE
6935000mN
6934000mN

- SNG diamond drill hole
- Primary mineralized zone referred to in text
- Secondary soil anomaly referred to in text

Trj
CPmc
Mt2
Mt
CPmc

K276008 K276007 K276009 K276010
K191878 K191882 K191881 K191873 K191879 K191880 K191877 I079045 I079044
K191872 I079042 K191863 K191865 K276006 K191866 K191871 M676934 K191868 K191870 K191869 K191874 I079043 K191875 K191876 M676056
K191867 L840672 L840639 L840641
M676055 M676071 M676933 M676932 M676931 M676930 M676929 K191864

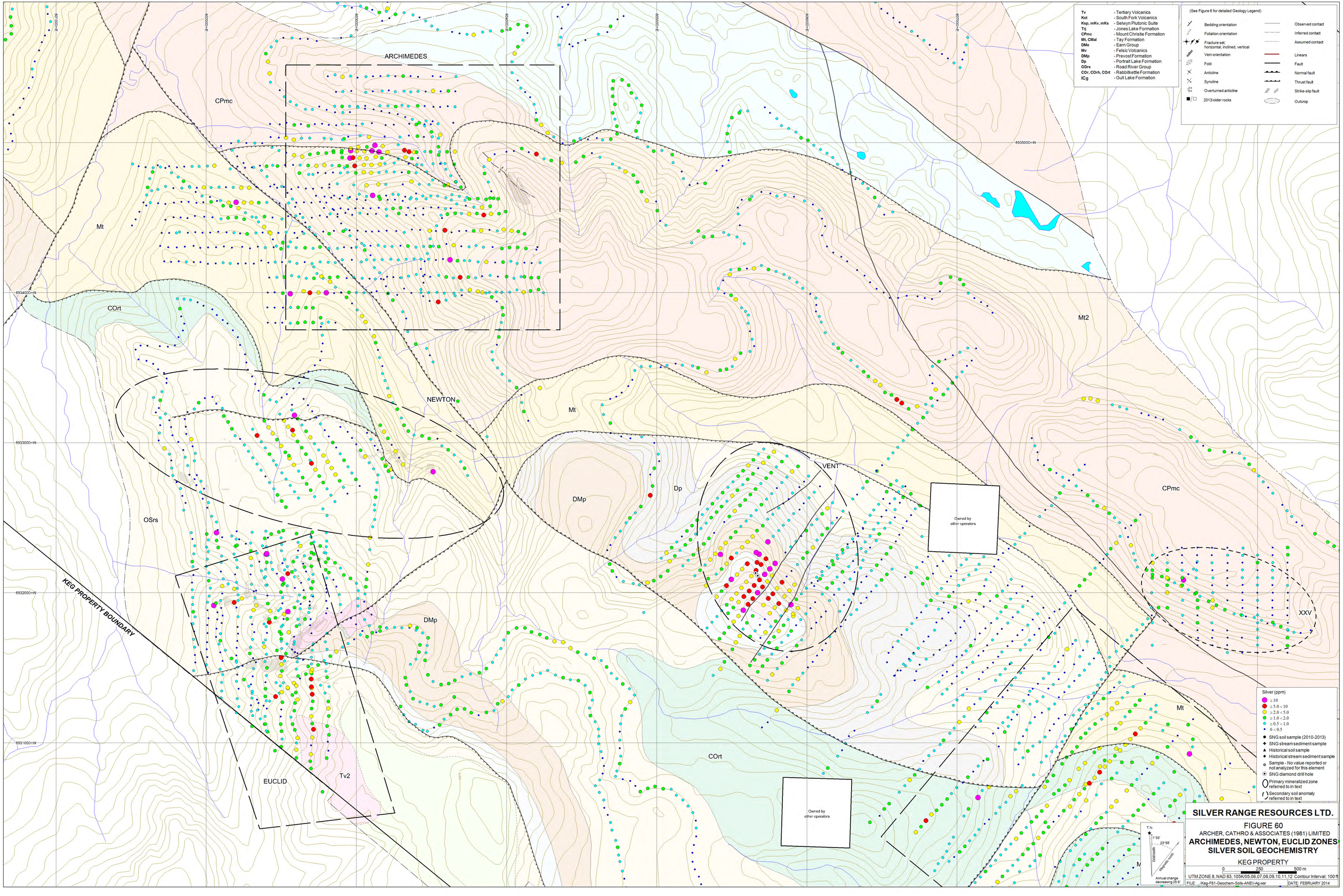
(See Figure 6 for detailed Geology Legend)

Bedding orientation	Observed contact
Foliation orientation	Inferred contact
Fracture set; horizontal, inclined, vertical	Assumed contact
Vein orientation	Linears
Fold	Fault
Anticline	Normal fault
Syncline	Thrust fault
Overturned anticline	Strike-slip fault
2013/older rocks	Outcrop

Tv	- Tertiary Volcanics
Kst	- South Fork Volcanics
Ksp, mKv, mKs	- Selwyn Plutonic Suite
Trj	- Jones Lake Formation
CPmc	- Mount Christie Formation
Mt, CMal	- Tay Formation
DMe	- Earn Group
Mv	- Felsic Volcanics
DMp	- Prevost Formation
Dp	- Portrait Lake Formation
ODrs	- Road River Group
COr, COrh, COrt	- Rabbitkettle Formation
ICg	- Gull Lake Formation

Archimedes Zone Rock Geochemistry

Sample #	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)	Cu (ppm)	In (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Sn (ppm)	W (ppm)	Zn (ppm)
M676929	2.5	3.49	791	0.26	55.7	0.149	0.47	224	129.5	89.5	0.7	430
M676930	6	1.46	76.9	0.34	138.5	0.101	1.49	528	13.45	35.5	0.3	12
M676931	19	1.96	438	0.62	348	0.308	4.55	401	132.5	33	1	29
M676932	11	1.87	481	2.48	132	0.382	20.2	2090	177.5	27.5	0.7	57
M676933	2.5	2.1	390	0.44	248	0.218	7.5	1710	66.1	3.5	0.3	78
M676934	5	43.7	766	0.53	52.1	11.45	0.47	3170	123	92.8	0.4	606
K191863	14	3900	416	1.2	108	8.27	1.08	281200	2050	1210	0.4	366
K191864	5	6.83	272	0.24	141	0.134	1.65	693	44.1	18	1.3	52
K191865	27	516	97.7	0.65	46.9	2.48	0.66	116500	605	522	0.3	203
K191866	16	172	73.2	0.24	20.4	1.59	0.71	25400	119	138	0.5	114
K191874	33	910	364	0.77	82.3	9.57	1	108000	594	517	0.3	341
K191875	34	327	4010	1.41	447	49.1	3.75	298100	1110	954	0.8	2050
K191876	296	242	7310	0.86	220	24.8	15.3	57100	585	1240	6.4	7610
K191867	6	4.4	538	0.1	7.8	0.035	4.58	836	70.3	50	1.4	196
K191868	8	813	226	5.14	79.1	10.05	1.65	163500	148	574	0.4	887
K191869	8	695	1420	0.33	100	0.125	1.24	121500	513	662	0.7	431
K191870	14	287	653	1.49	199	13.2	3.72	63500	78	644	0.6	1950
K191871	48	487	1535	2.18	443	8.37	2.68	110000	602	1025	1	2820
K191872	7	213	602	0.29	81.5	2.25	4.97	32500	83	206	0.6	1720
K191873	13	151	1765	0.14	123.5	3.95	1.83	55000	111	413	1.4	1390
K191877	2.5	27.7	133.5	1.12	65.2	1.565	1.15	7050	56.6	53	0.6	1700
K191878	2.5	1.93	44.1	0.02	15.5	0.082	1.05	335	5.48	22	0.3	20
K191879	2.5	3.35	25.8	0.21	9.4	0.069	0.74	405	6.06	22	0.4	13
K191880	2.5	0.73	165	0.04	6.3	0.019	1.94	106.5	7.78	15	0.4	100
K191881	2.5	0.87	112.5	0.07	5.4	0.041	0.73	85.3	4.36	13	0.5	19
K191882	2.5	1.74	425	0.29	89.6	0.106	2.22	331	13.6	170	1	22
M676055	2.5	2.87	14	0.11	323	0.027	3.39	14.4	5.36	16	1.6	100
M676056	2.5	2.5	321	0.03	20.2	0.027	2.97	887	62.8	0.3	0.4	1450
L840671	7	13.75	2220	4.02	193	4.46	1.05	2130	165	58.1	2.2	4490
L840672	2.5	2.31	915	1.57	48.5	1.365	0.89	173	73.8	75.2	0.7	653
M676071	2.5	0.66	487	3.01	44.5	0.052	1.26	14.4	2.72	1.7	1.4	41
L840639	2.5	3.53	2000	9.98	75.5	2.68	0.88	1480	136.5	37.1	0.4	645
L840641	2.5	2.71	125.5	4.31	57.1	0.357	0.45	132.5	35	12.6	0.5	222
I079042	10	194	2960	0.15	83.3	3.49	1.96	32500	108.5	351	0.25	1350
I079043	36	477	3520	3.18	554	104.5	9.02	107500	1505	2830	0.48	4570
I079044	3	143	2640	0.09	29.1	5.18	1.42	19000	86.8	200	0.1	244
I079045	2	7.09	193	0.1	36.5	0.339	2.98	299	5.07	43	0.07	45
K276006	21	373	290	0.47	50.3	0.929	0.44	28400	103.5	187	0.09	246
K276007	2.5	0.13	7.1	0.11	41.8	0.018	1.65	3.6	0.52	2.5	0.07	54
K276008	2.5	0.26	6.3	0.11	19.8	0.021	1.95	6	1	2.5	0.3	39
K276009	2.5	0.25	4.1	0.06	18.7	0.034	2.47	4.8	1.12	2.5	0.28	27
K276010	2.5	0.17	69.6	0.06	10	0.005	3.96	5.4	2.22	2.5	0.3	306



SILVER RANGE RESOURCES LTD.

FIGURE 60

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

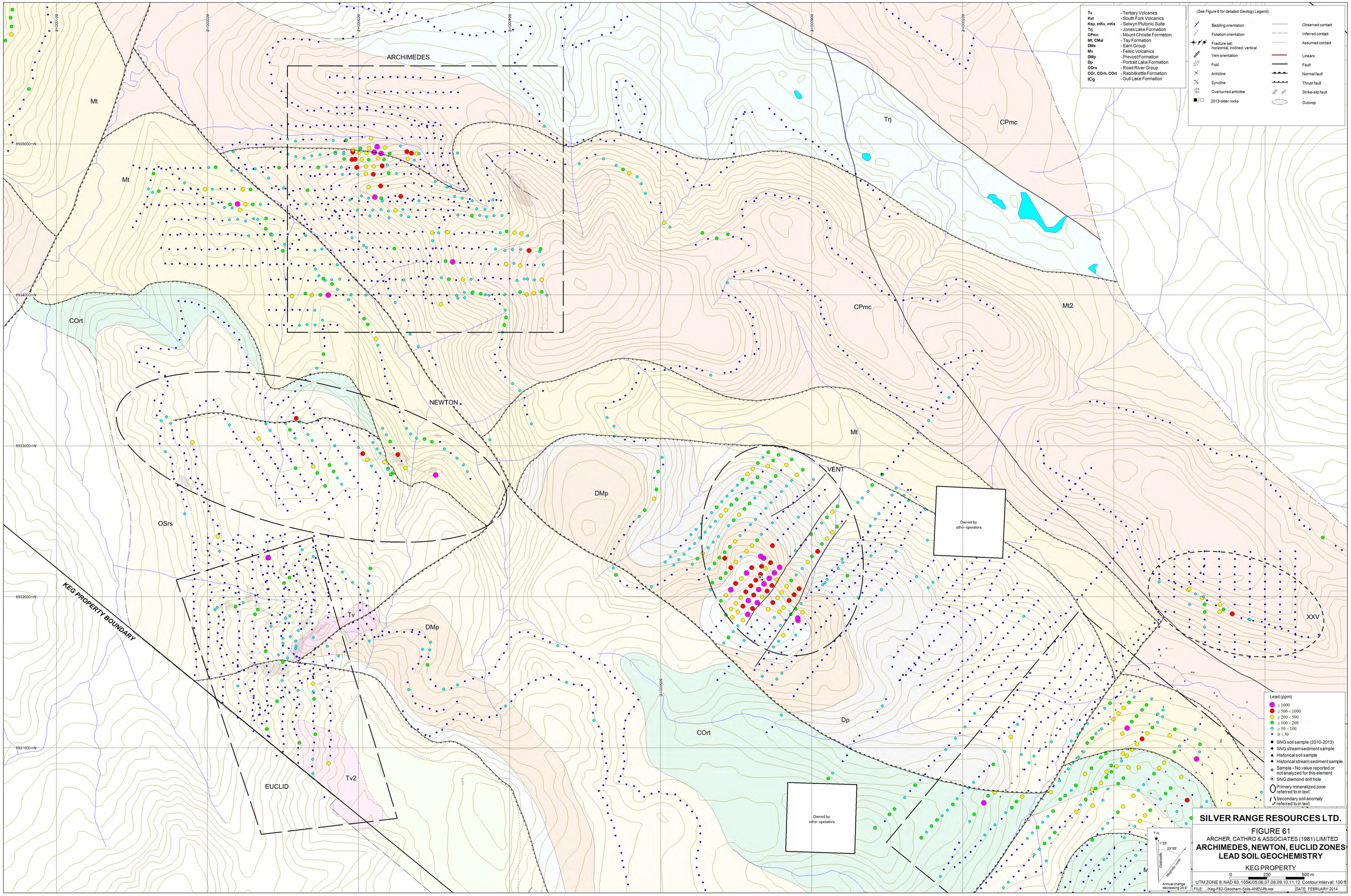
ARCHIMEDES, NEWTON, EUCLID ZONES
SILVER SOIL GEOCHEMISTRY

KEG PROPERTY

0 250 500 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F61-Geochem-Soils-ANEV-Ag.wor DATE: FEBRUARY 2014



Tv - Tertiary Volcanics
Kst - South Fork Volcanics
Ksp, mKv, mKs - Selwyn Plutonic Suite
Trj - Jones Lake Formation
CPmc - Mount Christie Formation
Mt, CMal - Tay Formation
DMe - Earn Group
Mv - Felsic Volcanics
DMp - Prevost Formation
Dp - Portrait Lake Formation
ODrs - Road River Group
COr, COrh, COrt - Rabbitkettle Formation
ICg - Gull Lake Formation
(See Figure 6 for detailed Geology Legend)
Bedding orientation
Foliation orientation
Fracture set; horizontal, inclined, vertical
Vein orientation
Fold
Anticline
Syncline
Overturned anticline
2013/older rocks
Observed contact
Inferred contact
Assumed contact
Linears
Fault
Normal fault
Thrust fault
Strike-slip fault
Outcrop
ARCHIMEDES
NEWTON
VENT
EUCLID
KEG PROPERTY BOUNDARY
Mt
Mt2
Trj
CPmc
COrt
OSrs
DMp
Tv
Tv2
Dp
XXV
Owned by other operators
Lead (ppm)
≥ 1000
≥ 500 < 1000
≥ 200 < 500
≥ 100 < 200
≥ 50 < 100
0 < 50
SNG soil sample (2010-2013)
SNG stream sediment sample
Historical soil sample
Historical stream sediment sample
Sample - No value reported or not analyzed for this element
SNG diamond drill hole
Primary mineralized zone referred to in text
Secondary soil anomaly referred to in text
T.N.
1°33'
23°55'
Grid north
Magnetic north
Annual change decreasing 25.6'
SILVER RANGE RESOURCES LTD.
FIGURE 61
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
ARCHIMEDES, NEWTON, EUCLID ZONES
LEAD SOIL GEOCHEMISTRY
KEG PROPERTY
0 250 500 m
UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft
FILE: .../Keg-F62-Geochem-Soils-ANEV-Pb.wor
DATE: FEBRUARY 2014

(See Figure 6 for detailed Geology Legend)

Tv	- Tertiary Volcanics
Kst	- South Fork Volcanics
Ksp, mKv, mKs	- Selwyn Plutonic Suite
Trj	- Jones Lake Formation
CPmc	- Mount Christie Formation
Mt, CMal	- Tay Formation
DMe	- Earn Group
Mv	- Felsic Volcanics
DMp	- Prevost Formation
Dp	- Portrait Lake Formation
ODrs	- Road River Group
COr, COrh, COrt	- Rabbitkettle Formation
ICg	- Gull Lake Formation

Bedding orientation
Foliation orientation
Fracture set; horizontal, inclined, vertical
Vein orientation
Fold
Anticline
Syncline
Overturned anticline
2013/older rocks

Observed contact
Inferred contact
Assumed contact
Linears
Fault
Normal fault
Thrust fault
Strike-slip fault
Outcrop

ARCHIMEDES
NEWTON
EUCLID
VENT
XXV
KEG PROPERTY BOUNDARY
Owned by other operators
Owned by other operators

CPmc
Trj
Mt2
Mt
DMp
COrt
OSrs
Tv2

600100mE
600200mE
600300mE
600400mE
600500mE
600600mE
600700mE
6935000mN
6934000mN
6933000mN
6932000mN
6931000mN

Zinc (ppm)
- ≥ 2000
- ≥ 1000 < 2000
- ≥ 500 < 1000
- ≥ 200 < 500
- ≥ 100 < 200
- 0 < 100
- SNG soil sample (2010-2013)
- SNG stream sediment sample
- Historical soil sample
- Historical stream sediment sample
- Sample - No value reported or not analyzed for this element
- SNG diamond drill hole
- Primary mineralized zone referred to in text
- Secondary soil anomaly referred to in text

SILVER RANGE RESOURCES LTD.

FIGURE 62

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

ARCHIMEDES, NEWTON, EUCLID ZONES
ZINC SOIL GEOCHEMISTRY

KEG PROPERTY

0 250 500 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F63-Geochem-Soils-ANEV-Zn.wor

DATE: FEBRUARY 2014

T.N. 1°33' 23°55' Grid north Magnetic north

Annual change decreasing 25.6'

(See Figure 6 for detailed Geology Legend)

Tv	- Tertiary Volcanics
Kst	- South Fork Volcanics
Ksp, mKv, mKs	- Selwyn Plutonic Suite
Trj	- Jones Lake Formation
CPmc	- Mount Christie Formation
Mt, CMal	- Tay Formation
DMe	- Earn Group
Mv	- Felsic Volcanics
DMp	- Prevost Formation
Dp	- Portrait Lake Formation
ODrs	- Road River Group
COr, COrh, COrt	- Rabbitkettle Formation
lCg	- Gull Lake Formation

Bedding orientation
Foliation orientation
Fracture set; horizontal, inclined, vertical
Vein orientation
Fold
Anticline
Syncline
Overturned anticline
2013/older rocks

Observed contact
Inferred contact
Assumed contact
Linears
Fault
Normal fault
Thrust fault
Strike-slip fault
Outcrop

ARCHIMEDES
NEWTON
EUCLID
VENT
KEG PROPERTY BOUNDARY
Owned by other operators
Owned by other operators
CPmc
Trj
DMp
Mt
COrt
Mt
Mt2
DMp
CPmc
OSrs
Dp
COrt
DMp
Tv2
CPmc
Mt
XXV

6935000mN
6934000mN
6933000mN
6932000mN
6931000mN
600100mE
600200mE
600300mE
600400mE
600500mE
600600mE
600700mE
600800mE

Antimony (ppm)
- ≥ 100
- ≥ 50 < 100
- ≥ 20 < 50
- ≥ 10 < 20
- ≥ 5 < 10
- 0 < 5

- SNG soil sample (2010-2013)
- SNG stream sediment sample
- Historical soil sample
- Historical stream sediment sample
- Sample - No value reported or not analyzed for this element
- SNG diamond drill hole
- Primary mineralized zone referred to in text
- Secondary soil anomaly referred to in text

SILVER RANGE RESOURCES LTD.

FIGURE 63

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

ARCHIMEDES, NEWTON, EUCLID ZONES ANTIMONY SOIL GEOCHEMISTRY

KEG PROPERTY

T.N. 1°33' 23°55' Grid north Magnetic north

Annual change decreasing 25.6'

0 250 500 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F64-Geochem-Soils-ANEV-Sb.wor DATE: JANUARY 2014

602000mE
603000mE
604000mE
6933000mN
6932000mN
6931000mN
6930000mN
COrt
CPmc
Mt
Mt2
Dp
OSrs
Tv
Tv3
Tv2
DMp2
DMp
Obsidian Quartz Porphyry
N1
N2
N3
N4
K191864
K191862
K191861
K191900
M676929
M676930
M676928
M676927
M676926
M676920
M676921
L840433
L840642
L840643
M676919
L840428
M676918
M676914
L840434
M676913
M676912
L840502
L840533
M676915
L840503
L840531
L840532
L840504
L840530
L840501
L840528
L840529
L840534
M676916
M676910
M676911
M676909
M676925
L840427
M676924
M676923
M676922
M676917
L840636
L840637
L840638
L840640
M676054
L840668
L840666
L840667
L840644
L840664
L840665
M676941
M676942
M676940
M676939
L840521
L840525
L840524
L840523
L840522
M676943
I079070
I079071
M676936
M676935
I079075
M676080
L840526
L840527
I079072
I079073
I079074
M676079
M676101
M676102
M676103
M676105
M676109
M676104
M676106
M676108
M676107
M676908
M676111
M676110
M676937
M676077
M676078
L840432
M676938
L840429
I079078
L840431
L840430
I079077
M676060
M676053
M676052
M676047
M676050
M676048
M676049
M676061
M676062
M676063
M676064
G285815
M676045
M676046

Euclid & Newton Zones Rock Geochemistry												
Sample #	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)	Cu (ppm)	In (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Sn (ppm)	W (ppm)	Zn (ppm)
L840427	6	27.2	803	8.13	37.8	0.476	3.62	2060	31.9	9	1.3	642
L840428	2.5	1.01	31.9	0.72	10.4	0.021	1.44	16.5	5	4.2	1.3	571
L840429	2.5	1.27	2.2	6.45	32.7	0.138	2.06	11.2	2.43	2.8	0.7	1370
L840430	2.5	0.35	17.3	3.47	84.5	0.021	1.26	7.5	5	4.8	1.1	39
L840431	2.5	0.39	12.9	0.93	22.7	0.07	18.95	8.8	2.37	1.3	1.3	233
L840432	2.5	0.43	5	0.21	9.1	0.024	1.4	4.5	0.9	3.9	1.2	44
L840433	2.5	0.39	16.7	0.29	17.3	0.053	2.63	10.1	4.03	2	1.4	68
L840434	2.5	38.9	3.9	1.94	38.4	1.835	1.9	8400	46.7	12.1	11	7040
M676908	2.5	1.87	28	0.19	53	0.045	54.4	44.8	11.05	1.1	0.8	70
M676909	5	2.52	145.5	2.43	9.5	0.256	0.49	88.1	57.3	58.6	1.5	121
M676910	2.5	3.46	146.5	11.9	14.5	0.028	0.66	80.2	16.45	12.8	0.7	80
M676911	2.5	17.65	181.5	40.6	27.2	0.028	1.37	440	89.7	95.1	0.5	37
M676912	2.5	0.29	16.1	0.49	11.6	0.02	1.45	11.6	1.03	4.3	1	46
M676913	2.5	24.2	54.8	252	21.6	0.182	2.26	225	44.7	6	1.9	891
M676914	78	982	26	1985	330	23.1	0.74	41800	107.5	41.8	1.3	97300
M676915	52	14.45	502	2.86	49.4	1.815	1.18	7570	3400	29.8	0.8	9790
M676916	2.5	2.11	15	3.29	9.8	0.069	1.52	102	6.76	1.5	1	165
M676917	2.5	16.65	311	46.2	39	1.965	1.43	95.9	33.3	45.1	0.3	463
M676918	2.5	0.91	12	1.56	21.4	0.029	2.03	29	2.78	6.8	2.1	630
M676919	2.5	10.95	223	24.5	39.9	1.87	0.91	56.6	18.85	22.9	0.2	1200
M676920	2.5	0.32	5.7	0.49	34.3	0.056	0.61	6.4	1.28	2.1	0.7	53
M676921	2.5	0.83	27.7	2.54	40.8	0.088	0.41	10.2	3.09	27.6	1.3	68
M676922	2.5	0.36	13.7	0.38	22.9	0.035	1.96	23.3	4.19	1.5	0.8	84
M676923	2.5	0.22	10.6	0.39	35.3	0.019	4.03	17	2.63	1.9	1.1	51
M676924	2.5	16.1	449	3.9	42.6	0.579	3.94	1075	27.4	8.3	1	630
M676925	2.5	5.98	193.5	2.15	11.4	1.07	0.43	232	12.7	35	0.1	148
M676926	2.5	0.46	4.9	0.53	13.5	0.012	1.62	20.6	2.11	2	0.7	22
M676927	6	29.5	19.2	0.08	618	0.072	0.21	400	301	1.3	0.6	304400
M676928	2.5	2.41	15.6	0.18	48.5	1.505	0.83	11	5.05	2.2	0.5	30200
M676935	2.5	1.1	135.5	9.05	107	0.432	59.1	15.9	10.9	5.6	2.1	713
M676936	2.5	0.35	2.7	1.48	37	0.008	3.13	11.4	2.93	2.5	0.4	19
M676937	2.5	1.05	2	5.84	42.8	0.01	1.9	17.9	4.03	2.2	0.7	15
M676938	2.5	0.48	11.9	0.33	16.3	0.021	5.85	7	2.25	1.6	1	194
M676939	39	68.1	1440	332	148.5	0.023	28.1	166.5	30.9	5.4	1.9	476
M676940	2.5	2.52	53.3	22.1	45.9	0.032	8.07	52	8.83	3.3	0.9	223
M676941	2.5	0.57	3.7	0.95	18.7	0.009	0.82	10.6	1.63	1.6	0.6	13
M676942	2.5	0.94	16.6	4.88	34.9	0.007	0.64	13.6	2.18	2	0.6	42
M676943	22	6.61	3010	15.85	85.9	0.017	4.17	91.6	11.95	5.1	1.2	2410
M676101	2.5	0.05	7.3	0.21	5	0.056	1.37	33.8	0.49	10.8	2.9	63
M676102	2.5	0.04	8.7	0.32	4.1	0.059	2.79	33.8	0.97	9.6	4	60
M676103	2.5	0.02	2.1	0.26	7.1	0.064	2.06	29.9	0.44	9.2	2.7	62
M676104	2.5	0.05	2.1	0.3	3.1	0.061	2.09	30.7	0.54	9.4	2.6	53
M676105	2.5	0.01	1	0.2	2.5	0.052	1.41	39.3	0.18	17.3	4.1	51
M676106	2.5	0.12	3.1	0.82	8.5	0.073	4.12	42	0.4	13.2	3.5	107
M676107	2.5	0.03	2.3	0.22	5.6	0.08	4.06	39.8	0.4	12.8	3.5	100
M676108	2.5	0.5	4.1	0.23	28.9	0.007	5.88	12	2.52	1.2	0.4	19
M676109	2.5	0.13	19.3	0.13	6.1	0.04	1.68	45	2.12	9.8	6.2	65
M676110	2.5	0.23	10.1	0.24	3.1	0.069	2.76	55	1.77	10.8	4.2	59
M676111	2.5	1.57	24.9	0.1	62.4	0.015	45.1	27.7	7.27	1.5	1.2	31
K191861	2.5	2.81	91.1	0.08	373	0.027	2.2	123	62.5	5	0.7	3410
K191862	2.5	0.61	116.5	0.15	229	0.102	1.61	63.5	41.3	12	1.3	3700
M676045	7	0.6	7.2	0.14	15.4	0.017	1.06	22.2	5.24	1.6	0.8	7
M676046	6	14.15	91.8	0.05	82.9	0.378	1.51	580	54.4	8	0.6	33
M676047	9	0.92	2.6	7.77	123	0.022	0.65	11.3	3.76	19.3	0.9	38
M676048	2.5	0.02	50.3	0.24	4	0.051	1.09	2.9	1.51	4.3	1	5
M676049	2.5	0.32	4.2	5.25	92	0.012	0.45	11.2	2.34	11	2.6	82
M676050	27	1.6	3.5	37.1	322	0.026	0.71	13.6	5.35	7.4	0.4	24
M676052	6	0.7	3.8	10.55	181	0.023	0.55	11.6	4.01	13.2	0.8	37
M676053	8	0.59	15.1	11.65	148	0.019	0.53	13.4	5.54	14.5	2.5	59
M676054	2.5	0.77	1.9	0.1	9.5	0.013	0.51	38.6	2.66	2.3	1	8
M676060	2.5	0.06	28.2	0.49	3.5	0.0025	1.37	2.4	2.75	1.4	1.5	1
M676061	14	0.98	28.2	0.56	10.7	0.029	0.47	17.9	4.48	1.4	0.9	8
M676062	2.5	0.41	37.1	0.21	5.7	0.027	0.34	9.3	1.6	2.2	1.3	4
M676063	2.5	0.45	2.3	0.88	20.7	0.021	2.53	9.6	1.71	3	1.3	23
M676064	2.5	2.95	2.7	12.3	8.7	0.017	35	26.1	3.82	2.7	1.8	6
K191900	2.5	1.51	349	0.69	28.8	0.03	3.43	17.8	8.14	4.5	1.4	103
L840501	224	1050	10001	4660	202	8.57	30.6	21000	7970	501	4.9	288
L840502	2.5	10.55	679	10.15	9.7	0.389	0.34	3170	36.7	12.2	0.1	2330
L840503	116	19.85	1020	18.15	19	0.826	0.27	9990	4810	66.6	0.1	468
L840504	183	692	10001	5210	112.5	0.27	0.42	5740	2490	7.1	0.5	83
L840521	14	7.86	24	101.5	48.9	1.095	0.54	87.7	21.6	4.7	1.2	1960
L840522	6	2.51	1380	10.35	16.9	0.012	2.12	22.7	11.25	5.7	1.9	52
L840523	6	1.96	87.3	8.67	5.2	0.014	3.13	31.2	12.1	1.8	1.6	25
L840524	11	2.15	230	11.6	13.4	0.0025	4.48	27	6.56	1.2	0.5	34
L840525	19	3.33	315	31.2	3.1	0.005	0.97	73.9	3.77	3.9	3.5	8
L840526	2.5	0.49	58	14.2	32.7	0.185	4.66	6.4	6.52	4.8	1	33
L840527	6	1.37	42.2	10.9	30	0.055	18.55	18.1	10.7	9.3	1.9	37
L840528	2.5	73.8	755	15.15	30.5	2.22	0.45	7560	110.5	125.5	0.3	491
L840529	31	49.5	9900	53.4	6.6	0.915	0.23	2130	418	470	0.1	161
L840530	9	7.69	116	80.2	21.7	3.21	0.5	1690	1470	9.9	2.1	282
L840531	100	56.4	10001	330	171	0.331	1.23	592	624	8.5	1.8	138
L840532	2.5	3.03	397	14.15	17.7	0.879	0.47	91.6	41.5	8.6	0.2	145
L840533	2.5	8.75	543	7.37	12.8	0.556	0.85	1715	742	17.9	1.4	1120
L840534	2.5	51	85.1	21.6	61.6	1.68	1.48	3710	62.1	8.3	0.6	3910
M676077	2.5	0.43	2.2	1.98	12	0.0025	0.62	4.7	0.83	1.1	0.6	10
M676078	2.5	0.11	1.1	0.49	13.2	0.008	1.17	3.1	0.38	0.9	0.5	5
M676079	2.5	0.17	240	0.77	39.7	0.016	42.3	3.9	2.28	1.5	1.1	257
M676080	6	5.75	25.6	25.6	59.8	0.024	4	31.8	19.6	3.8	1	50
L840636	2.5	0.4	60.9	1.05	15.1	0.032	0.72	25.9	13.7	1.9	0.5	386
L840637	2.5	0.35	37	0.86	10.7	0.407	0.38	19.3	1.76	2.2	0.3	303
L840638	27	23.6	2720	20.5	128	0.513	28.1	3730	2230	70.5	4.1	339
L840640	12	23.8	5820	10.9	85.1	1.275	3.81	5550	1335	286	0.3	1600
L840642	2.5	0.43	93	0.89	18.4	0.028	0.21	26.9	1.39	5.2	0.3	22
L840643	2.5	0.9	9.2	2.16	36.4	0.329	0.23	12.5	2.74	31.3	2	200
L840644	277	43.4	10001	90.6	121	0.255	1.22	765	181	71	1.5	248
L840664	365	33.1	10001	116.5	43.5	0.369	1.24	104	239	12	6.2	93
L840665	73	34.2	10001	164	12.4	0.135	0.6	543	105.5	52.8	4.7	22
L840666	236	819	10001	2590	50	0.118	1.49	2210	482	18.3	30.7	30
L840667	110	43.4	10001	87.4	97.9	0.086	0.45	167	83.9	2.8	30.3	115
L840668	428	93.8	10001	188	33	0.132	0.62	467	185	36	0.7	16
L840670	196	1330	10001	79.8	212	9.17	6.97	108500	1435	110	0.7	381
L840673	165	707	10001	74.4	57.3	0.299	20.4	44400	916	27.2	0.8	176
L840674	1045	64.7	10001	10.5	89.6	0.623	16.15	2610	1025	103	1.7	153
I079070	2.5	0.54	33.2	1.5	18.3	0.015	0.87	14	1.23	2.5	0.35	20
I079071	21	13.1	4190	54.9	26.7	0.445	1.34	75.9	13.7	8	1.46	330
I079072	198	11.2	248	81.8	14.1	0.03	63.2	135.5	7.74	8	4.32	26
I079073	68	23.6	323	171	32.7	0.118	38.4	112.5	14.45	11	3.05	28
I079074	132	7.54	213	50.9	17.2	0.08	1.9	3820	1250	10	0.53	51
I079075	2.5	4.64	89.4	21.8	25.3	0.071	36.5	34.1	4.27	9	1.02	14
I079076	2.5	0.45	4.3	10.95	51.2	0.01	1.8	15.3	3.33	11	1.21	10
I079077	10	1.29	2.6	19.05	56.3	0.011	0.69	20.9	3.82	10	5.36	6
I079078	2.5	2.39	5.7	30.1	298	0.051	5.94	19.9	2.05	8	1.85	259
G285815	1	0.22	68.8	1.06	15.8	0.01	2.25	11.3	1.9	5	0.28	105

(See Figure 6 for detailed Geology Legend)

- Bedding orientation
- Foliation orientation
- Fracture set; horizontal, inclined, vertical
- Vein orientation
- Fold
- Anticline
- Syncline
- Overturned anticline
- 2013/older rocks
- Observed contact
- Inferred contact
- Assumed contact
- Linears
- Fault
- Normal fault
- Thrust fault
- Strike-slip fault
- Outcrop

Tv	- Tertiary Volcanics
Kst	- South Fork Volcanics
Ksp, mKv, mKs	- Selwyn Plutonic Suite
Trj	- Jones Lake Formation
CPmc	- Mount Christie Formation
Mt, CMal	- Tay Formation
DMe	- Earn Group
Mv	- Felsic Volcanics
DMp	- Prevost Formation
Dp	- Portrait Lake Formation
ODrs	- Road River Group
COr, COrh, COrt	- Rabbitkettle Formation
lCg	- Gull Lake Formation

- SNG diamond drill hole
- Primary mineralized zone referred to in text
- Secondary soil anomaly referred to in text

T.N. 1°33' 23°55' Grid north Magnetic north
Annual change decreasing 25.6°

SILVER RANGE RESOURCES LTD.

FIGURE 64

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

EUCLID & NEWTON ZONES GEOLOGY & MINERALIZATION

KEG PROPERTY

0 200 400 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F64-GeoMin-EucNewt.wor | DATE: FEBRUARY 2014

SILVER RANGE RESOURCES LTD.

FIGURE 65

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

VENT ZONE
GEOLOGY & MINERALIZATION

KEG PROPERTY

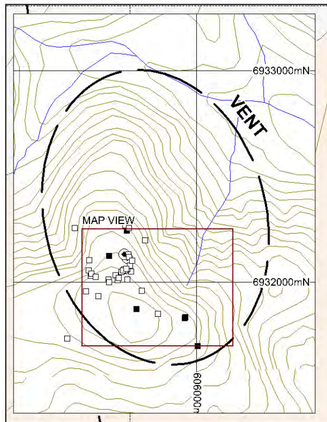
0 25 50 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F59-GeoMin-Vent.wor | DATE: FEBRUARY 2014

T.N. 1°33' 23°55' Grid north Magnetic north

Annual change decreasing 25.6'



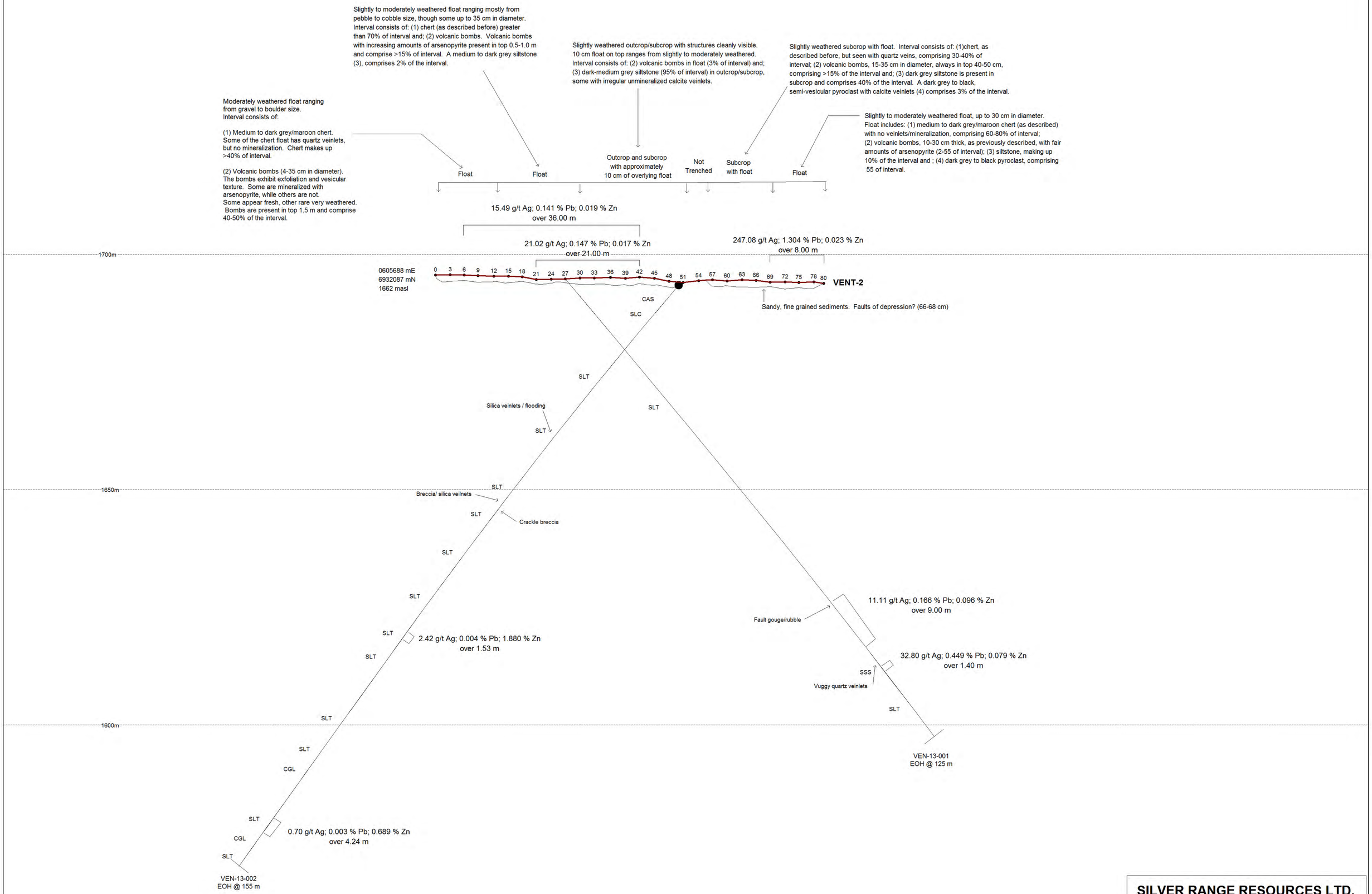
(See Figure 6 for detailed Geology Legend)

Bedding orientation		Observed contact	
Foliation orientation		Inferred contact	
Fracture set; horizontal, inclined, vertical		Assumed contact	
Vein orientation		Linears	
Fold		Fault	
Anticline		Normal fault	
Syncline		Thrust fault	
Overturned anticline		Strike-slip fault	
2013/older rocks		Outcrop	
		SNG diamond drill hole	

Tv	- Tertiary Volcanics
Kst	- South Fork Volcanics
Ksp, mKv, mKs	- Selwyn Plutonic Suite
Trj	- Jones Lake Formation
CPmc	- Mount Christie Formation
Mt, CMal	- Tay Formation
DMe	- Earn Group
Mv	- Felsic Volcanics
DMp	- Prevost Formation
Dp	- Portrait Lake Formation
ODrs	- Road River Group
COr, COrh, COrt	- Rabbitkettle Formation
lCg	- Gull Lake Formation

Vent Zone Rock Geochemistry

Sample #	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)	Cu (ppm)	In (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Sn (ppm)	W (ppm)	Zn (ppm)
H805423	2.5	2.61	1230	1.36	282	0.033	3.38	80.9	70	8.7	1.5	911
H805424	2.5	1.79	864	0.96	309	0.032	2.84	170.5	95.4	23.3	1.1	513
H805425	12	73.1	10001	28.7	303	0.441	4.67	1565	143	59.7	2	160
L840485	11	2.11	73.3	0.28	15.7	0.017	0.78	271	15.05	3.1	0.1	119
L840486	5	5.39	154.5	0.64	35.2	0.039	3.33	790	85.5	11	0.6	380
M676907	2.5	0.48	14.4	0.54	11.6	0.02	0.72	24.9	1.53	3.2	1	247
M676057	2.5	0.46	1.4	0.4	21.9	0.044	3.54	27.1	1.27	1.8	1	104
M676058	8	70.2	268	1.46	55.1	0.062	1.54	2000	91.2	57	1.2	137
M676059	2.5	0.41	20.2	0.42	20.4	0.022	3.71	29.8	5.32	2.8	1.1	55
K191883	44	11.05	10001	14.75	106	0.037	1.66	159.5	57.1	11.3	0.5	39
K191884	97	128	10001	11.5	49.7	0.049	1.68	410	61.2	11.2	0.4	57
K191885	2.5	29.5	9000	65.8	26.7	0.647	2.31	544	42.3	27.9	0.9	28
K191886	2.5	0.86	167	0.2	6.4	0.035	0.71	11.1	3.1	0.7	0.4	114
K191887	243	57.4	10001	39.2	369	0.238	6.36	458	400	28.1	0.4	144
K191888	193	488	10001	6.11	494	5.45	14.25	30600	1410	304	0.6	356
K191889	66	39.9	10001	55.1	228	0.396	1.02	436	198	16.4	0.4	202
K191890	14	12.5	10001	2.32	147	0.155	0.81	1320	120.5	55	1.4	59
K191891	2.5	25.8	5730	9.58	70.1	0.209	0.58	5950	25.6	10.8	0.3	73
K191892	17	14.95	4230	29.8	14.6	0.035	2.47	2060	77.6	19.9	1	29
K191893	2.5	29.7	1200	38	27.7	0.048	3.6	2590	132	26.3	0.8	49
K191894	309	82.7	10001	1.66	282	0.21	2.86	264	533	106.5	0.8	86
K191895	380	43.8	10001	9.73	144	0.205	1.04	825	367	7.4	0.3	128
K191896	93	162	10001	16.35	154.5	4.27	13.65	29400	1310	382	1.4	373
K191897	23	117	10001	46.6	83.9	7.78	3.24	2730	248	40.6	1.1	175
K191898	11	138	10001	12	65.7	0.203	2.25	773	110	43.4	1.2	132
K191899	45	323	10001	36	135	3.27	2.34	1900	223	480	1.4	187
L840512	271	393	10001	39.6	214	1.47	2.91	13450	699	261	0.7	380
L840513	48	81.3	10001	18.35	77	2.85	4.12	14650	1435	283	0.8	185
L840514	189	485	10001	31.5	187.5	4.95	4.52	20100	3830	501	0.8	388
L840520	132	65.2	10001	3.15	399	0.183	1.93	4590	432	207	2.1	209
L840509	41	52.8	10001	84.4	501	1.38	2.84	1045	322	22.7	0.4	414
L840510	37	141	10001	104	352	1.275	3.52	6180	666	130	1.6	167
L840511	248	205	10001	5.25	434	0.271	2.38	1585	998	88.5	0.6	149
L840515	245	22.8	10001	182	177.5	0.11	3.29	4180	3620	12.3	1.1	46
L840516	2670	363	10001	729	138.5	0.148	0.51	3670	775	2.6	0.1	153
L840517	141	69.4	10001	99.1	938	0.657	4.24	7670	521	18.2	0.5	237
L840518	238	83.7	10001	98.7	507	0.523	3.54	1720	596	17.6	0.4	152
L840519	19	261	10001	916	151.5	9.82	5.41	24000	715	41.8	0.9	232
L840506	429	192	10001	27.9	1020	0.73	164.5	10600	556	227	0.7	128
L840507	174	673	10001	386	934	2.84	1.91	7380	367	32.9	0.3	663
L840508	14	311	10001	23.6	53	0.831	3.37	1705	790	205	0.5	79
L840535	2.5	20	256	2.55	13.6	0.02	1.02	1835	35	12.9	0.3	21
L840536	563	105	10001	17.9	30	0.158	1.17	376	424	18.6	0.2	44
L840537	816	56.1	10001	23	31.9	0.097	1.18	409	204	25	0.5	184
L840538	265	38.6	10001	23.7	32.8	0.072	1.52	567	162	35.1	0.8	199
L840539	13	7.99	2360	0.81	343	0.123	4.73	1430	273	11.6	0.9	1220



T.N.
11°33'
23°55'
Grid north
Magnetic north
Annual change decreasing 25.6'

SILVER RANGE RESOURCES LTD.

FIGURE 66

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

VENT ZONE CROSS SECTION

KEG PROPERTY

0 10 20 m

FILE: .../Keg-F63-Section-Vent.wor | DATE: FEBRUARY 2014

Marks Zone Rock Geochemistry

Sample #	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)	Cu (ppm)	In (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Sn (ppm)	W (ppm)	Zn (ppm)
L840365	2.5	0.26	47.5	0.31	36.5	0.077	0.48	15.8	9.77	6.4	0.9	60
L840366	2.5	0.37	158.5	0.4	67.9	0.087	0.41	28.4	10.35	4	1.4	51
L840367	2.5	0.24	6.9	0.27	13.2	0.018	2.22	19.3	1.99	1.4	0.8	22
L840368	2.5	13.35	123.5	3.59	49.1	0.207	14.9	380	14.9	29	3.3	153
L840369	26	48.1	1510	352	930	5.09	17	121	41.9	14.8	324	2040
L840421	59	340	10001	97.8	539	3.55	48.2	21900	4380	500.5	5.2	374
L840422	2.5	2.26	43.8	0.69	181.5	0.013	8.23	32.8	8.86	3.4	0.8	38
L840423	2.5	0.34	99.6	0.58	29.9	0.076	0.39	27	4.89	2.4	0.9	63
L840424	2.5	0.96	251	0.83	36	0.07	3.76	54.4	14.45	7.1	1.5	30
L840425	2.5	7.13	130	0.28	121	0.043	2.77	4230	15.65	25	1.1	3580
L840487	2.5	0.35	7.4	0.97	8.9	0.026	0.85	13.4	1.3	3	0.3	1340
L840488	2.5	1.19	13.1	0.86	133	0.039	0.95	93.2	3.69	6.5	0.2	1300
L840489	2.5	1.81	119	6.95	54	0.25	0.59	601	116.5	30	1.3	1600
L840490	2.5	0.64	61.1	0.65	46.6	0.067	0.47	12.6	2.83	3.3	0.9	44
L840491	2.5	1.12	15.8	0.35	60.1	0.38	1.81	15.2	4.22	3.3	0.6	6160
L840492	2.5	0.06	63	0.27	27.6	0.103	10.05	6.5	0.91	9.2	0.8	99
L840493	6	0.93	24	7.86	40	0.337	2.27	20.1	12.25	39.1	146	271
L840494	5	0.09	2.5	0.08	23.9	0.159	38	2.9	1.52	10.4	0.7	117
L840495	2.5	0.37	3.9	0.33	41.7	0.01	23.3	7	3.1	2.6	0.6	60
L840496	2.5	0.26	7.9	0.1	19	0.045	0.39	57.2	2.54	16.4	1	769
L840497	2.5	0.49	67.4	6.69	139	0.187	2.52	273	3.39	54.4	1	323
L840498	2.5	0.62	29.9	0.08	59.3	0.012	0.5	530	7.57	30.5	1.6	515
L840499	9	80.3	6750	0.49	3750	0.161	3.04	37800	81.3	155.5	0.9	6810
M676901	8	2.68	6.4	0.11	60.6	0.037	0.86	38.5	2.5	0.9	0.5	59
M676902	2.5	1.06	158.5	0.2	179	0.19	1.27	1790	28.3	11.5	0.4	162
M676903	6	0.92	97.8	0.21	269	0.128	1.48	110.5	50.9	19.7	1.5	64
M676904	2.5	0.37	51.5	0.11	63.3	0.029	0.89	7.5	10	1.2	0.7	20
M676905	15	1.15	21.1	0.17	169	0.028	1.17	43.8	11.2	1.6	0.7	33
M676906	2.5	0.22	8.3	0.02	8.6	0.008	0.63	14.4	5.44	6.2	1.3	16
M676065	2.5	0.6	61	0.33	112	0.081	0.75	45.5	13.2	25.2	1.2	105
M676066	2.5	1.51	110	0.86	70	0.07	0.52	282	27	17.4	1.9	374
M676070	2.5	0.5	39	0.43	82.8	0.079	7.11	27.5	4.74	2.3	0.9	29
G285830	3	0.07	81.9	4.33	33.7	0.013	1.76	4.7	1.04	5	0.45	15
G285829	78	0.85	6.3	1.88	175	0.009	26.2	5.5	0.49	2.5	0.91	32
G285833	16	7.49	42	3.34	166.5	0.124	44.6	398	22.7	2.5	2.82	8240
G285832	22	2.16	20.9	7.68	2310	0.32	8.62	4.3	0.49	34	550	297
G285831	3	1.1	2.5	4.11	866	3.68	1.29	4.1	0.26	55	14	2180
G285819	4	0.04	25	0.005	12.5	0.005	0.62	1.1	0.41	2.5	0.025	38
H886478	1	1.33	4.9	0.39	75.3	0.029	39.4	20.1	4.99	2.5	0.31	326
H886479	2	0.39	44.7	0.41	9	0.01	2.82	19.1	1.34	8	0.5	62
H886480	2	0.45	8.8	0.62	26.1	0.483	6.16	10.3	0.95	2.5	0.21	4320
H886481	4	0.93	3.4	0.44	35.5	0.031	1.07	17	2.89	2.5	0.24	856
H886482	3	1.65	2.6	0.73	73.8	0.007	29.6	28.1	2.95	2.5	1.31	23

Tv - Tertiary Volcanics
Kst - South Fork Volcanics
Ksp, mKv, mKs - Selwyn Plutonic Suite
Trj - Jones Lake Formation
CPmc - Mount Christie Formation
Mt, CMal - Tay Formation
DMe - Earn Group
Mv - Felsic Volcanics
DMp - Prevost Formation
Dp - Portrait Lake Formation
ODrs - Road River Group
COr, COrh, COrt - Rabbitkettle Formation
ICg - Gull Lake Formation

(See Figure 6 for detailed Geology Legend)

- Bedding orientation
- Foliation orientation
- Fracture set; horizontal, inclined, vertical
- Vein orientation
- Fold
- Anticline
- Syncline
- Overturned anticline
- 2013/older rocks
- Observed contact
- Inferred contact
- Assumed contact
- Linears
- Fault
- Normal fault
- Thrust fault
- Strike-slip fault
- Outcrop

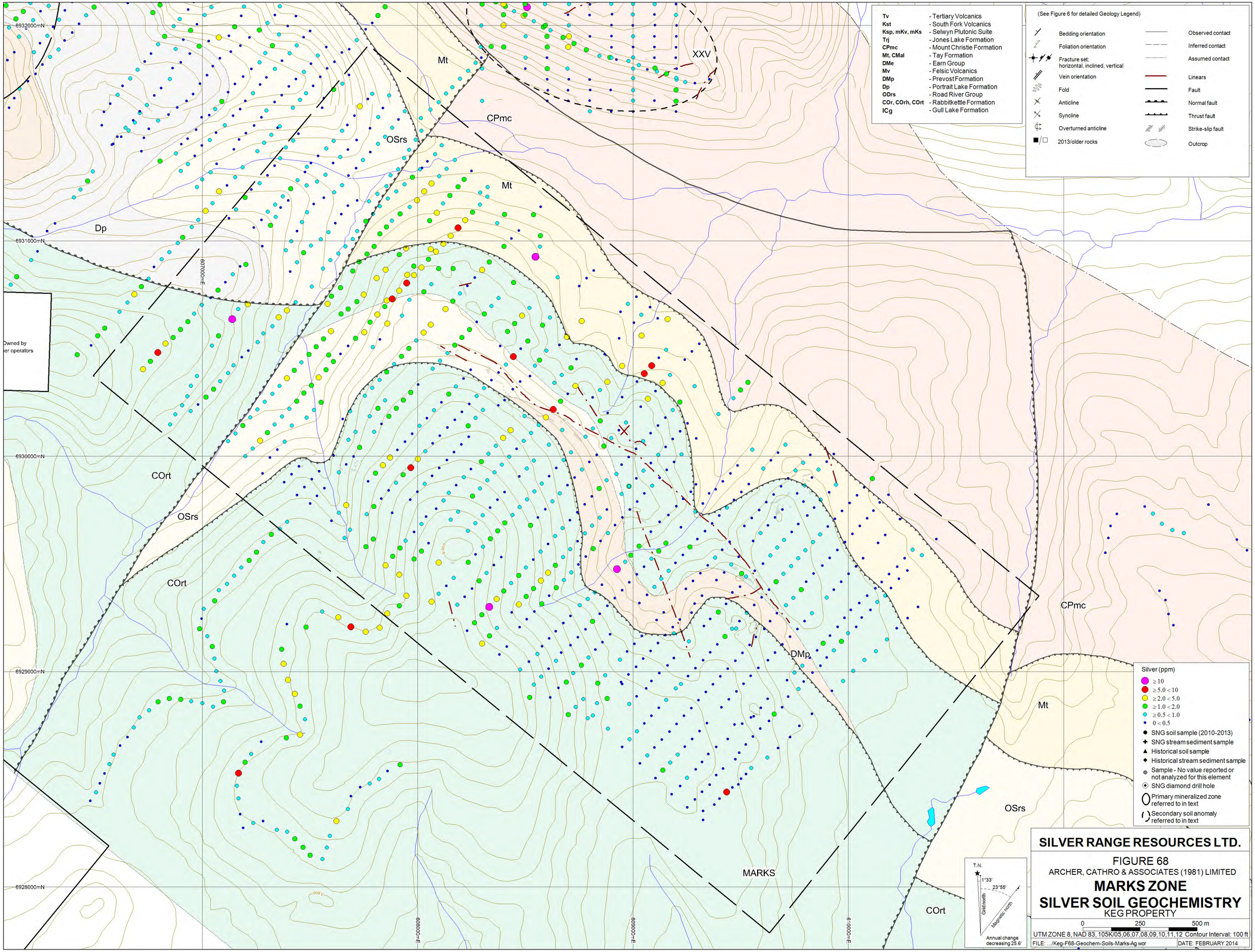
- SNG diamond drill hole
- Primary mineralized zone referred to in text
- Secondary soil anomaly referred to in text

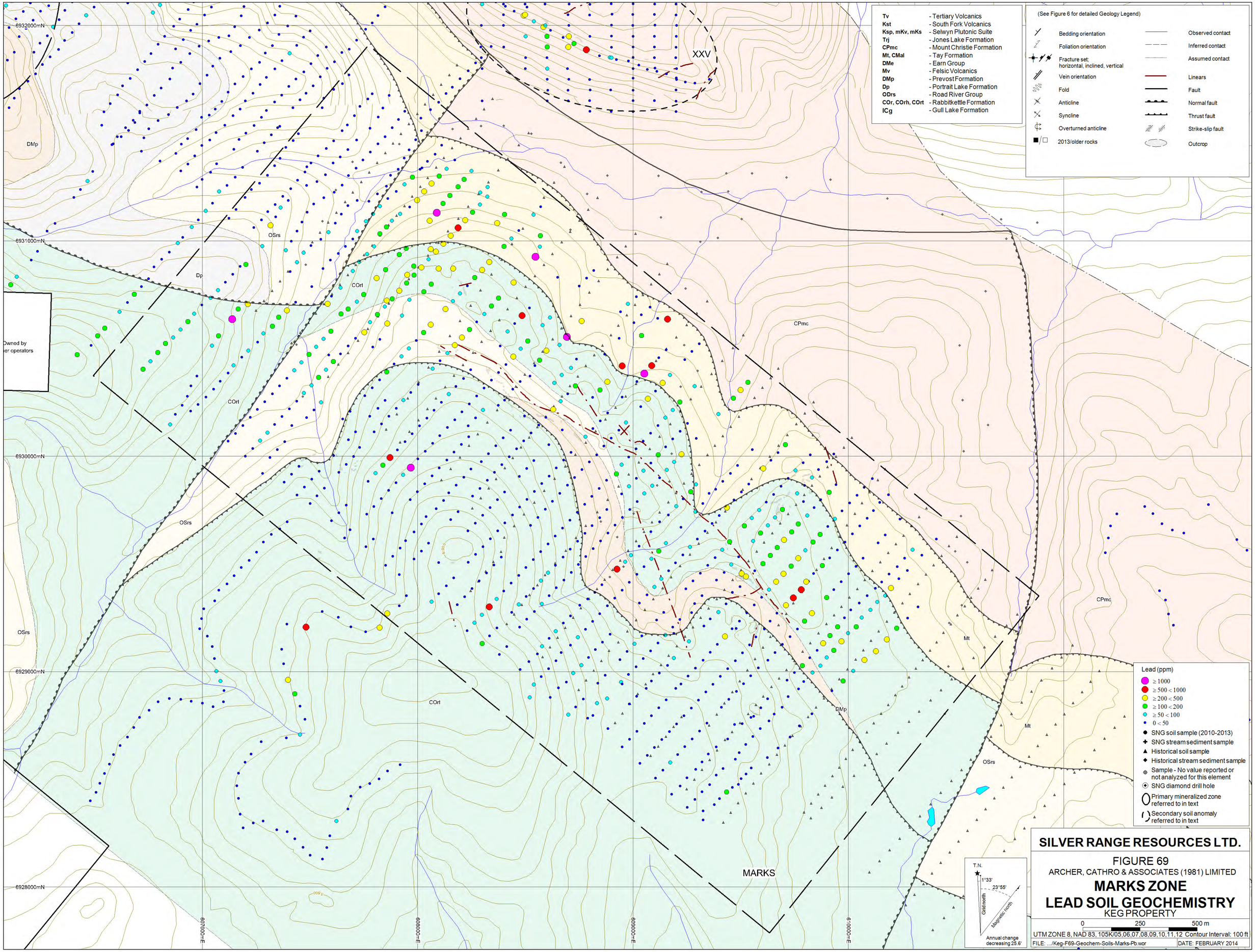
SILVER RANGE RESOURCES LTD.

FIGURE 67
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
MARKS ZONE
GEOLOGY & MINERALIZATION
KEG PROPERTY

0 250 500 m
UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft
FILE: .../Keg-F67-GeoMin-Marks.wor DATE: FEBRUARY 2014

T.N. 21°33' 23°55' Grid north Magnetic north
Annual change decreasing 25.6'


6932000mN
6931000mN
6930000mN
6929000mN
6928000mN
607000mE
608000mE
609000mE
610000mE
Mt
XXV
CPmc
OSrs
Mt
Dp
COrt
OSrs
COrt
CPmc
DMp
Mt
OSrs
MARKS
COrt
Owned by
er operators
Tv - Tertiary Volcanics
Kst - South Fork Volcanics
Ksp, mKv, mKs - Selwyn Plutonic Suite
Trj - Jones Lake Formation
CPmc - Mount Christie Formation
Mt, CMal - Tay Formation
DMe - Earn Group
Mv - Felsic Volcanics
DMp - Prevost Formation
Dp - Portrait Lake Formation
ODrs - Road River Group
COr, COrh, COrt - Rabbitkettle Formation
lCg - Gull Lake Formation
(See Figure 6 for detailed Geology Legend)
Bedding orientation
Foliation orientation
Fracture set; horizontal, inclined, vertical
Vein orientation
Fold
Anticline
Syncline
Overturned anticline
2013/older rocks
Observed contact
Inferred contact
Assumed contact
Linears
Fault
Normal fault
Thrust fault
Strike-slip fault
Outcrop
Silver (ppm)
≥ 10
≥ 5.0 < 10
≥ 2.0 < 5.0
≥ 1.0 < 2.0
≥ 0.5 < 1.0
0 < 0.5
SNG soil sample (2010-2013)
SNG stream sediment sample
Historical soil sample
Historical stream sediment sample
Sample - No value reported or not analyzed for this element
SNG diamond drill hole
Primary mineralized zone referred to in text
Secondary soil anomaly referred to in text
T.N.
21°33'
23°55'
Grid north
Magnetic north
Annual change decreasing 25.6'
SILVER RANGE RESOURCES LTD.
FIGURE 68
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
MARKS ZONE
SILVER SOIL GEOCHEMISTRY
KEG PROPERTY
0
250
500 m
UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft
FILE: .../Keg-F68-Geochem-Soils-Marks-Ag.wor
DATE: FEBRUARY 2014



SILVER RANGE RESOURCES LTD.

FIGURE 69

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

MARKS ZONE
LEAD SOIL GEOCHEMISTRY

KEG PROPERTY

0 250 500 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F69-Geochem-Soils-Marks-Pb.wor | DATE: FEBRUARY 2014

Tv	- Tertiary Volcanics
Kst	- South Fork Volcanics
Ksp, mKv, mKs	- Selwyn Plutonic Suite
Trj	- Jones Lake Formation
CPmc	- Mount Christie Formation
Mt, CMal	- Tay Formation
DMe	- Earn Group
Mv	- Felsic Volcanics
DMp	- Prevost Formation
Dp	- Portrait Lake Formation
ODrs	- Road River Group
COr, COrh, COrt	- Rabbitkettle Formation
ICg	- Gull Lake Formation

(See Figure 6 for detailed Geology Legend)

- Bedding orientation
- Foliation orientation
- Fracture set; horizontal, inclined, vertical
- Vein orientation
- Fold
- Anticline
- Syncline
- Overturned anticline
- 2013/older rocks
- Observed contact
- Inferred contact
- Assumed contact
- Linears
- Fault
- Normal fault
- Thrust fault
- Strike-slip fault
- Outcrop

Antimony (ppm)
- ≥ 100
- ≥ 50 < 100
- ≥ 20 < 50
- ≥ 10 < 20
- ≥ 5 < 10
- 0 < 5
- SNG soil sample (2010-2013)
- SNG stream sediment sample
- Historical soil sample
- Historical stream sediment sample
- Sample - No value reported or not analyzed for this element
- SNG diamond drill hole
- Primary mineralized zone referred to in text
- Secondary soil anomaly referred to in text

6932000mN
6931000mN
6930000mN
6929000mN
6928000mN
607000mE
608000mE
609000mE
610000mE
DMp
Dp
OSrs
Mt
XXV
COrt
CPmc
MARKS
Owned by
er operators

T.N.
21°33'
23°55'
Grid north
Magnetic north
Annual change decreasing 25.6'

SILVER RANGE RESOURCES LTD.

FIGURE 70
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
MARKS ZONE
ANTIMONY SOIL GEOCHEMISTRY
KEG PROPERTY

0 250 500 m
UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft
FILE: .../Keg-F70-Geochem-Soils-Marks-Sb.wor | DATE: FEBRUARY 2014

Tv	- Tertiary Volcanics
Kst	- South Fork Volcanics
Ksp, mKv, mKs	- Selwyn Plutonic Suite
Trj	- Jones Lake Formation
CPmc	- Mount Christie Formation
Mt, CMal	- Tay Formation
DMe	- Earn Group
Mv	- Felsic Volcanics
DMp	- Prevost Formation
Dp	- Portrait Lake Formation
ODrs	- Road River Group
COr, COrh, COrt	- Rabbitkettle Formation
ICg	- Gull Lake Formation

(See Figure 6 for detailed Geology Legend)

- Bedding orientation
- Foliation orientation
- Fracture set; horizontal, inclined, vertical
- Vein orientation
- Fold
- Anticline
- Syncline
- Overturned anticline
- 2013/older rocks
- Observed contact
- Inferred contact
- Assumed contact
- Linears
- Fault
- Normal fault
- Thrust fault
- Strike-slip fault
- Outcrop

Tungsten (ppm)
- ≥ 20
- ≥ 10 < 20
- ≥ 5 < 10
- ≥ 2 < 5
- ≥ 1 < 2
- 0 < 1
- SNG soil sample (2010-2013)
- SNG stream sediment sample
- Historical soil sample
- Historical stream sediment sample
- Sample - No value reported or not analyzed for this element
- SNG diamond drill hole
- Primary mineralized zone referred to in text
- Secondary soil anomaly referred to in text

6932000mN
6931000mN
6930000mN
6929000mN
6928000mN
607000mE
608000mE
609000mE
610000mE
XXV
MARKS
DMp
Dp
OSrs
COrl
CPmc
Mt
Owned by
er operators

T.N.
1°33'
23°55'
Grid north
Magnetic north
Annual change decreasing 25.6'

SILVER RANGE RESOURCES LTD.

FIGURE 71
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
MARKS ZONE
TUNGSTEN SOIL GEOCHEMISTRY
KEG PROPERTY

0 250 500 m
UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft
FILE: .../Keg-F71-Geochem-Soils-Marks-W.wor | DATE: FEBRUARY 2014

Weld Zone Rock Geochemistry

Sample #	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)	Cu (ppm)	In (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Sn (ppm)	W (ppm)	Zn (ppm)
L840415	27	104	6600	65.8	461	0.128	2.77	19600	163.5	71.8	1	2070
L840417	2.5	3.66	160.5	0.4	140.5	0.034	0.64	193.5	153	7.3	1.1	727
L840418	1260	1540	10001	15	1440	0.0025	12.75	33900	619	500.5	1.1	4090
L840419	13	10.55	520	0.67	80.5	0.034	0.81	573	52	18.3	1.1	1300
L840461	15	222	790	293	33.2	0.006	8.44	5230	38.8	19.4	0.3	107
L840462	2.5	1.02	36.4	0.65	35	0.012	28.4	23.1	10.8	0.9	0.7	13
L840463	2.5	1.74	58.8	1.2	91.4	0.012	27.4	39.2	4.45	1.3	0.9	29
L840464	2.5	66.4	89.4	26	1890	0.199	66	3090	67.6	22.6	0.7	2090
L840465	2.5	1.53	6.7	2.28	11.1	0.092	1.03	260	17.35	5.8	0.4	147
L840466	2.5	2.09	37.9	0.54	61.7	0.018	22.4	56.1	21.7	1.3	0.9	37
L840467	2.5	0.78	18.9	0.23	63.6	0.032	39.6	21.7	10.3	2.4	0.6	20
L840468	2.5	1.12	4.7	0.42	47.3	0.016	31.5	22.6	9.5	1.4	0.8	174
L840469	2.5	0.51	7.4	0.18	11.8	0.019	1.77	13.7	6.44	1.6	0.8	68
L840470	2.5	0.87	28.9	0.21	6.6	0.01	2.56	12.4	7.72	1	0.9	14
L840471	2.5	0.54	13.4	0.13	27.4	0.021	30.4	19.3	10.15	0.9	0.7	176
L840472	2.5	0.15	9.2	0.16	12.9	0.007	1.59	10.1	3.8	1.5	0.1	42
L840473	5	1.05	1390	0.12	55.1	0.022	17.55	28	14.6	0.9	0.6	532
L840474	2.5	0.76	19.8	0.07	41.6	0.022	19.75	13	6.13	0.6	0.4	316
L840475	5	0.67	21.9	0.17	70.6	0.028	22.5	17.7	9.23	1.2	0.6	1650
L840476	2.5	10.5	11.1	0.09	326	0.12	30.5	4040	16.1	10.7	0.4	1460
L840477	2.5	73.9	75.6	12.65	1485	0.729	179.5	3410	30.7	20	1.1	1400
L840478	73	86	10001	2.89	681	0.025	2.37	7330	257	103	1.1	1520
L840479	13	10.05	1605	0.66	197	0.02	2.28	1730	78.4	34.1	0.9	990
L840480	2.5	11.4	808	0.51	117	0.018	0.76	1120	52.6	23.2	0.9	1180
L840481	2.5	0.7	28.6	0.23	30.9	0.014	23.8	40.3	11.45	1	0.5	281
L840482	2.5	51.1	287	0.1	239	0.039	19.65	5160	144.5	41.4	0.6	244
L840483	49	165	250	15.25	2780	0.514	45.8	34900	826	13.2	7.3	1720
K191838	21	130	2600	0.77	479	0.041	95.2	19750	139	49	0.4	835
K191839	2.5	3.76	2.5	1.32	95.8	0.103	19.85	510	9.1	8	0.7	253
K191840	2.5	151	1270	0.85	521	0.024	81.4	13550	107.5	82	3.2	765
K191841	5	196	1320	1.54	374	0.021	100	19950	311	47	0.5	773
K191842	8	220	2640	0.83	1835	0.078	90.6	41300	356	145	0.6	4920
K191843	2.5	82.1	908	0.38	516	0.027	34	9640	175.5	19	1.3	5250
M676034	2.5	1.35	20.5	0.36	46	0.103	33.4	76.5	9.41	1.1	0.7	618
M676035	5	3.26	26.5	0.64	48.8	0.079	22.8	179.5	13.65	0.8	0.7	534
M676036	9	269	37.5	99.2	2410	2.01	35.2	44300	267	24	0.6	2340
M676037	5	108	163.5	24.4	1770	0.775	57.9	18800	170	8	0.7	2550
K191844	2.5	1.64	45.2	0.16	32.4	0.041	14.45	273	9.44	7	0.7	126
K191845	9	52.3	10001	1.51	1340	0.075	10.9	18000	519	35	2.2	5170
K191846	139	366	10001	0.8	2960	0.496	20.5	24400	314	73	1.5	1700
K191847	107	476	10001	9.61	2700	0.337	56	97900	493	177	1.4	4810
K191848	0	7.03	2610	0.16	63.8	0.042	2.33	587	6.79	2.5	1	95
K191849	5	189	417	27	1795	1.125	32.4	24900	100.5	20	0.6	1160
K191850	2.5	211	297	24.6	765	0.443	30.8	18300	91.1	15	0.7	633
K191851	2.5	71.5	52.7	18.95	466	0.204	37.7	8770	55.8	12	0.7	1240
K191852	23	353	61.4	117.5	4410	2.3	77.3	6450	350	22	1.6	3350
K191853	2.5	23.3	43.3	2.65	315	0.048	33.1	3580	20.5	8	1	1480
K191854	2.5	10.7	36.7	1.96	166.5	0.12	46	1825	24.4	11	0.7	1620
K191855	2.5	14.1	20.3	0.59	328	0.141	22.8	3730	24.9	13	0.3	3880
K191856	2.5	13.15	49.3	0.33	192	0.098	51.2	2890	28	12	0.5	3580
K191857	2.5	2.91	94.3	0.1	78	0.027	22.8	1415	12.85	6	0.7	2810
K191860	8	292	69.6	54.2	1945	1.64	52.8	27800	159	20	1.1	1580
M676041	2.5	0.8	437	0.26	30	0.026	8.65	46.9	8.88	8	0.4	233
K191858	2.5	115	122.5	172.5	2660	2.21	419	7800	51	32	1.6	2090
K191859	5	86.7	114.5	39.2	1620	0.433	159.5	6660	42.9	21	0.6	3560
M676042	13	173	33.1	166.5	2480	1.25	509	11600	55.5	129	1.7	925
L840565	2.5	1.36	20.6	0.5	62.8	0.015	33	111.5	17	1	1.2	389
L840566	6	1.72	27.9	0.52	30.8	0.022	32.4	85.7	18.8	1.1	1.8	160
L840567	2.5	1.12	26.8	0.39	50.9	0.019	23.8	54.3	23	1	1.1	788
L840577	2.5	1.8	120	0.18	63.8	0.024	9.85	650	20.6	10.4	0.8	4080
L840568	2.5	0.69	506	1.21	99.6	0.017	4.22	350	21.4	2.7	0.4	2000
L840569	290	188	10001	0.26	1380	0.524	15.4	13600	373	27.3	0.5	542
L840570	123	249	10001	0.24	1090	0.341	9.75	21400	334	40.1	0.4	610
L840571	2.5	6.71	928	1.01	596	0.066	6.34	696	17	10.7	0.4	771
L840572	2.5	1.83	429	1.21	343	0.043	3.26	1390	60.6	8.2	6.8	811
L840573	2.5	5.52	235	0.9	127	0.027	10.85	705	18.35	5.3	1.7	524
L840575	65	3170	139.5	28	9030	1.045	16.8	602900	2420	718	0.1	1760
L840574	40	939	754	15.8	2290	0.346	6.71	84100	779	762	0.1	766
L840576	31	314	346	21.9	13800	1.48	13.1	79200	866	187	1.1	635
L840578	12	216	475	5.35	962	0.136	4.11	18400	442	53.1	0.5	1400
L840579	50	1410	1070	29.8	1995	0.238	13.35	151500	1260	424	0.3	661
L840580	31	671	2080	15.05	1200	0.199	4.38	40600	555	721	0.2	593
L840581	17	367	1375	14.1	1110	0.222	7.51	40900	473	140	0.5	946
L840582	20	251	3310	12.05	1910	0.134	12.7	24900	475	100.5	0.9	841
L840583	99	4120	698	107	4720	0.681	8.5	481000	2770	1580	0.1	166
L840584	21	286	619	6.46	3280	0.306	22.2	21700	412	198.5	1	678
L840585	7	61.9	249	0.69	1295	0.169	74.6	16050	131	21.6	0.7	387
L840586	2.5	5.15	230	0.53	48.3	0.029	6.48	489	31.6	9.1	0.7	2490
L840587	2.5	2.75	1370	0.59	156.5	0.026	11	662	119	5.6	1	8090
L840588	2.5	2.62	175.5	1.03	56.7	0.024	2.52	612	57.8	5.8	0.9	1680
L840589	114	3160	527	145	9990	0.36	10.7	409900	2630	772	0.05	203
L840591	393	1655	1245	99.4	9420	0.309	9.3	181500	2760	709	0.1	158
L840590	2.5	9.68	2810	1.09	118.5	0.103	16.15	1170	26.7	23.8	0.4	71
L840597	7	21.4	1790	4.67	356	0.026	10.2	5760	51.4	10.8	1.2	241
L840598	12	674	462	746	3400	0.359	21.2	78700	324	55.2	0.6	1380
L840599	2.5	16.3	38.5	36.7	184.5	0.011	19.4	1010	30	7.3	1.3	196
M676043	2.5	0.46	6	0.76	76.2	0.025	16.75	20.9	3.82	1.5	0.5	37

610000mE
611000mE
612000mE
613000mE
614000mE
615000mE
6927000mN
6926000mN
6925000mN
WELD
OSrs
Mt
COrt
COrt2
5,500

(See Figure 6 for detailed Geology Legend)

- Bedding orientation
- Foliation orientation
- Fracture set; horizontal, inclined, vertical
- Vein orientation
- Fold
- Anticline
- Syncline
- Overturned anticline
- 2013/older rocks
- Observed contact
- Inferred contact
- Assumed contact
- Linears
- Fault
- Normal fault
- Thrust fault
- Strike-slip fault
- Outcrop

Tv	- Tertiary Volcanics
Kst	- South Fork Volcanics
Ksp, mKv, mKs	- Selwyn Plutonic Suite
Trj	- Jones Lake Formation
CPmc	- Mount Christie Formation
Mt, CMal	- Tay Formation
DMe	- Earn Group
Mv	- Felsic Volcanics
DMp	- Prevost Formation
Dp	- Portrait Lake Formation
ODrs	- Road River Group
COr, COrh, COrt	- Rabbitkettle Formation
ICg	- Gull Lake Formation

Silver (ppm)
- ≥ 10
- ≥ 5.0 < 10
- ≥ 2.0 < 5.0
- ≥ 1.0 < 2.0
- ≥ 0.5 < 1.0
- 0 < 0.5

- SNG soil sample (2010-2013)
- SNG stream sediment sample
- Historical soil sample
- Historical stream sediment sample
- Sample - No value reported or not analyzed for this element
- SNG diamond drill hole
- Primary mineralized zone referred to in text
- Secondary soil anomaly referred to in text

T.N.
1°33'
23°55'
Grid north
Magnetic north
Annual change decreasing 25.6'

SILVER RANGE RESOURCES LTD.

FIGURE 73

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

WELD ZONE
SILVER SOIL GEOCHEMISTRY

KEG PROPERTY

0 250 500 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F73-Geochem-Soils-Weld-Ag.wor | DATE: FEBRUARY 2014

610000mE
611000mE
612000mE
613000mE
614000mE
615000mE
6927000mN
6926000mN
6925000mN
WELD
OSrs
Mt
COrt
COrt2
5,500

(See Figure 6 for detailed Geology Legend)

- Bedding orientation
- Foliation orientation
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Mv	- Felsic Volcanics
DMp	- Prevost Formation
Dp	- Portrait Lake Formation
ODrs	- Road River Group
COr, COrh, COrt	- Rabbitkettle Formation
ICg	- Gull Lake Formation

Lead (ppm)
- ≥ 1000
- ≥ 500 < 1000
- ≥ 200 < 500
- ≥ 100 < 200
- ≥ 50 < 100
- 0 < 50

- SNG soil sample (2010-2013)
- SNG stream sediment sample
- Historical soil sample
- Historical stream sediment sample
- Sample - No value reported or not analyzed for this element
- SNG diamond drill hole
- Primary mineralized zone referred to in text
- Secondary soil anomaly referred to in text

T.N.
21°33'
23°55'
Grid north
Magnetic north
Annual change decreasing 25.6'

SILVER RANGE RESOURCES LTD.

FIGURE 74

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

WELD ZONE
LEAD SOIL GEOCHEMISTRY

KEG PROPERTY

0 250 500 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F74-Geochem-Soils-Weld-Pb.wor | DATE: FEBRUARY 2014

610000mE
611000mE
612000mE
613000mE
614000mE
615000mE
6927000mN
6926000mN
6925000mN
WELD
OSrs
Mt
COrt
COrt2
5,500

(See Figure 6 for detailed Geology Legend)

- Bedding orientation
- Foliation orientation
- Fracture set; horizontal, inclined, vertical
- Vein orientation
- Fold
- Anticline
- Syncline
- Overturned anticline
- 2013/older rocks
- Observed contact
- Inferred contact
- Assumed contact
- Linears
- Fault
- Normal fault
- Thrust fault
- Strike-slip fault
- Outcrop

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DMe	- Earn Group
Mv	- Felsic Volcanics
DMp	- Prevost Formation
Dp	- Portrait Lake Formation
ODrs	- Road River Group
COr, COrh, COrt	- Rabbitkettle Formation
ICg	- Gull Lake Formation

Antimony (ppm)
- ≥ 100
- ≥ 50 < 100
- ≥ 20 < 50
- ≥ 10 < 20
- ≥ 5 < 10
- 0 < 5

- SNG soil sample (2010-2013)
- SNG stream sediment sample
- Historical soil sample
- Historical stream sediment sample
- Sample - No value reported or not analyzed for this element
- SNG diamond drill hole
- Primary mineralized zone referred to in text
- Secondary soil anomaly referred to in text

T.N.
21°33'
23°55'
Grid north
Magnetic north
Annual change decreasing 25.6'

SILVER RANGE RESOURCES LTD.

FIGURE 75

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

WELD ZONE
ANTIMONY SOIL GEOCHEMISTRY

KEG PROPERTY

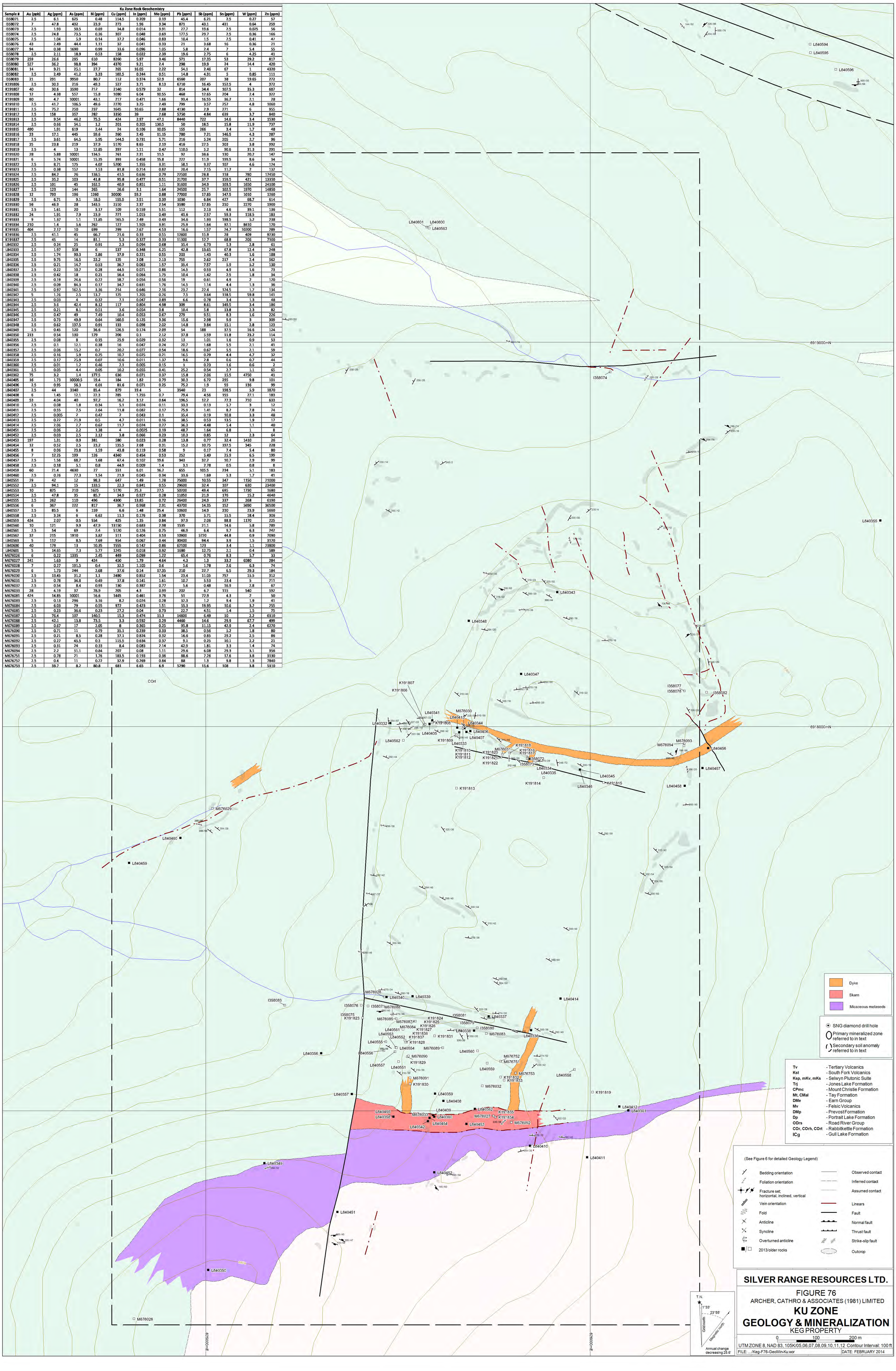
0 250 500 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F75-Geochem-Soils-Weld-Sb.wor | DATE: FEBRUARY 2014

Ku Zone Rock Geochemistry

Sample #	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)	Cu (ppm)	In (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Sn (ppm)	W (ppm)	Zn (ppm)
I358071	2.5	6.1	625	0.48	114.5	0.209	0.19	45.4	6.21	2.5	0.27	57
I358072	7	47.8	432	23.9	273	1.96	3.34	871	43.1	431	0.64	259
I358073	2.5	1.93	50.5	0.89	34.8	0.014	3.91	27.7	19.6	2.5	0.025	56
I358074	2.5	24.8	73.5	0.36	307	0.048	0.69	177.5	29.7	2.5	0.36	166
I358075	2.5	1.04	5.9	0.14	37.2	0.046	0.83	10.4	1.5	2.5	0.41	47
I358076	43	2.49	44.4	1.11	32	0.041	0.33	21	3.68	16	0.36	21
I358077	94	0.38	1690	0.99	33.6	0.096	1.05	5.8	2.4	7	5.4	55
I358078	2.5	2.11	18.9	0.53	158	0.022	2.39	19.6	2.75	6	4.25	41
I358079	259	26.6	295	610	8260	5.97	3.46	571	17.35	53	29.2	817
I358080	527	36.2	98.8	394	4370	9.21	2.4	298	19.9	24	14.4	420
I358081	14	9.21	25.1	27.7	265	16.05	2.22	54.1	2.46	67	1	4320
I358082	2.5	2.49	41.2	3.33	102.5	0.244	0.51	14.8	4.31	5	0.85	111
I358083	21	291	9950	80.7	112	0.374	52.9	6560	207	38	19.65	272
K191806	2.5	30.3	216	49.3	527	3.71	8.13	6710	16.45	152.5	4	372
K191807	40	30.6	3590	212	2140	0.579	32	814	34.4	107.5	35.3	687
K191808	12	4.38	557	15.8	1080	6.04	10.55	468	12.65	204	2.4	322
K191809	80	4.7	10001	43.1	217	0.471	1.66	93.4	16.55	36.2	2.1	28
K191810	2.5	41.7	106.5	49.6	2270	3.25	2.49	799	3.57	252	4.8	1060
K191811	2.5	75.2	250	237	1645	10.65	2.88	4130	2.9	271	6	955
K191812	2.5	158	357	282	3350	39	2.68	5750	4.84	639	3.7	840
K191813	2.5	9.54	46.2	75.5	424	2.97	47.1	8440	722	14.6	3.4	1530
K191814	2.5	0.66	54.1	1.2	201	0.205	130.5	50	18.5	15.8	11.9	737
K191815	490	1.91	619	2.44	24	0.106	10.05	155	266	3.4	1.7	48
K191816	23	17.1	445	59.6	260	2.45	11.15	780	7.21	146.5	4.3	287
K191817	2.5	3.61	64.5	5.95	144.5	0.731	5.71	216	5.24	205	2.7	96
K191818	25	23.8	219	37.9	5170	8.65	2.19	416	27.5	303	3.8	992
K191819	2.5	4	13	12.85	397	1.11	0.47	110.5	5.2	90.6	31.3	291
K191820	28	5.88	10001	134.5	761	2.31	11.5	92	38.6	130	20.2	147
K191821	6	5.74	10001	15.35	393	0.458	15.8	222	11.9	199.5	8.6	34
K191822	2.5	8.71	175	4.02	5200	1.355	3.31	58.1	9.37	107	4.6	174
K191823	2.5	0.38	152	1.53	81.8	0.214	0.82	20.4	7.15	11.2	2	132
K191824	2.5	84.2	26	138.5	41.5	0.636	0.79	22500	28.8	118	780	17450
K191825	2.5	35.2	103	41.8	95.8	0.477	0.51	21700	37.7	159.5	421	13350
K191826	2.5	101	45	162.5	40.9	0.851	1.11	31600	34.9	103.5	1650	24100
K191827	2.5	123	144	265	26.6	3.1	1.64	24500	25.7	102.5	1970	14850
K191828	12	793	196	1260	30000	59.2	0.88	77000	17.85	147.5	1010	1260
K191829	2.5	6.71	9.1	18.5	155.5	2.51	0.39	1030	6.84	427	68.7	614
K191830	56	46.9	28	143.5	2510	2.37	2.54	3580	17.85	210	2270	1900
K191831	2.5	1.61	20	3.17	109	0.159	5.51	112	2.13	4.6	39.1	136
K191832	24	1.91	7.9	23.9	221	1.015	0.49	41.6	2.57	59.3	118.5	183
K191833	9	1.37	1.1	11.85	165.5	2.49	0.43	34.6	1.93	198.5	5.2	238
K191834	210	1.4	5.6	262	127	1.505	3.91	25.9	1.64	92.1	8410	170
K191835	404	2.17	10	699	299	2.67	4.53	16.6	1.57	24.7	10200	289
K191836	2.5	41.1	45	66.7	21.6	0.33	0.55	12800	15.9	28	409	9230
K191837	2.5	45	14	81.1	5.3	0.327	0.33	11300	12.7	68.8	206	7100
L840332	2.5	0.24	25	0.91	2.3	0.094	0.68	35.4	6.73	5.3	2.8	61
L840333	2.5	1.97	358	6	537	0.348	6.25	42.8	13.65	67.8	12.4	248
L840334	2.5	1.74	90.3	2.86	37.9	0.221	0.55	203	1.43	40.3	1.6	188
L840335	2.5	9.75	16.5	22.2	125	2.08	2.13	755	2.62	217	2.4	562
L840336	2.5	0.21	14.7	0.53	36.7	0.063	1.57	35.4	7.57	5.9	5.2	130
L840337	2.5	0.22	10.7	0.28	44.5	0.071	0.86	14.5	0.53	4.9	1.6	73
L840338	2.5	0.42	18	0.21	56.4	0.064	1.75	10.4	1.42	2.5	1.8	34
L840339	2.5	0.19	24.6	0.22	58.7	0.054	0.56	19	0.61	4.9	2	120
L840340	2.5	0.09	84.3	0.17	34.7	0.631	1.76	14.5	1.14	4.4	1.3	36
L840341	2.5	0.97	162.5	3.36	214	0.646	2.16	23.7	22.4	124.5	1.7	134
L840342	5	1.26	2.5	13.7	125	1.205	0.26	7.5	3.64	118.5	59.8	141
L840343	2.5	0.03	4	0.32	7.1	0.047	0.89	6.6	0.78	3.4	1.3	48
L840344	2.5	3.6	42.4	8.12	117	0.804	4.98	309	8.61	149.5	3.4	186
L840345	2.5	0.21	8.1	0.51	3.6	0.054	0.8	10.4	5.8	13.8	2.3	82
L840346	2.5	0.47	49	7.49	10.4	0.053	0.67	279	9.51	8.3	1.6	226
L840347	2.5	0.73	49.9	0.64	160.5	0.125	3.36	15.6	2.98	9.9	3	309
L840348	2.5	0.62	137.5	0.91	133	0.098	2.02	14.8	3.84	15.1	2.8	123
L840349	2.5	0.45	120	36.6	126.5	0.174	2.09	54	188	37.5	16.6	124
L840350	213	0.54	130	179	206	0.1	2.12	37.8	5.59	11.8	23.2	114
L840355	2.5	0.08	8	0.15	25.9	0.029	0.32	13	1.01	1.6	0.9	53
L840356	2.5	0.1	12.1	0.38	16	0.047	0.24	20.7	1.68	5.5	2.1	41
L840357	2.5	0.06	15.2	0.2	20.2	0.077	0.54	18.6	0.67	5.5	2.1	59
L840358	2.5	0.16	5.9	0.25	10.7	0.025	0.21	16.5	0.29	4.4	4.7	32
L840359	2.5	0.17	25.9	0.07	10.6	0.011	1.37	9.6	2.8	0.6	0.7	44
L840360	2.5	0.01	1.2	0.46	2.1	0.005	0.15	1	0.23	1.6	0.6	2
L840361	2.5	0.05	4.4	0.05	10.2	0.055	0.41	25.2	0.54	2.7	1.1	65
L840362	75	3.2	1.4	177.5	636	0.071	0.37	15.8	2.06	15.5	4750	41
L840405	16	1.73	10000.5	19.4	184	1.82	0.79	30.3	6.72	295	9.8	101
L840406	2.5	0.95	56.3	6.01	81.6	0.071	0.25	75.2	1.9	55	136	99
L840407	2.5	44	3140	85.4	879	19.4	5	3540	23	198.5	5.9	1870
L840408	6	1.45	12.1	22.3	285	1.255	0.7	79.4	4.56	155	27.1	183
L840409	53	4.04	40	97.2	16.2	3.12	0.64	196.5	12.2	77.3	710	633
L840410	2.5	0.08	1.8	0.34	5.1	0.024	0.11	33.3	0.13	5.7	3	12
L840411	2.5	0.55	7.5	2.64	11.8	0.082	0.17	75.9	1.41	8.2	7.8	74
L840412	2.5	0.005	2	0.42	2	0.043	0.1	35.4	0.19	10.8	3.3	48
L840413	2.5	0.22	21.9	0.5	4.7	0.011	0.16	38.5	0.53	13.5	1.9	17
L840414	2.5	2.06	2.7	0.62	11.7	0.024	0.27	36.3	4.48	5.4	1.1	40
L840451	2.5	0.06	2.2	1.38	4	0.0025	0.19	48.7	1.64	6.8	1	8
L840452	2.5	0.03	2.5	2.12	3.8	0.066	0.23	10.3	0.85	12	2.3	64
L840453	197	1.31	0.9	381	580	0.023	0.28	13.8	0.77	32.4	1410	26
L840454	12	0.52	2.5	23.2	135.5	2.68	0.31	15.2	10.75	197.5	345	228
L840455	8	0.06	23.8	1.59	43.8	0.119	0.58	9	0.17	7.4	5.4	80
L840456	7	12.25	199	126	4340	0.454	0.53	252	5.49	25.9	6.5	199
L840457	2.5	1.56	68.7	1.68	67.4	0.102	19.6	343	32.2	10.7	2.9	99
L840458	2.5	0.18	5.1	0.8	44.9	0.009	1.4	3.1	2.78	0.5	0.8	8
L840459	60	21.4	4630	27	551	6.01	16.2	655	105.5	234	5.1	183
L840460	2.5	0.26	77.3	1.54	21.9	0.045	0.34	33.6	1.69	5.3	1.7	41
L840551	29	42	12	98.3	647	1.49	1.28	25000	10.55	347	1150	21000
L840552	2.5	94.1	15	133.5	22.3	0.841	0.55	29600	32.4	107	630	23400
L840553	10	825	210	1625	5170	25.3	27.5	50200	49.4	695	1730	1680
L840554	2.5	47.8	35	85.7	34.9	0.927	0.28	11050	21.9	176	15.2	4640
L840555	2.5	262	110	496	4300	13.85	0.72	26400	24.9	337	268	6190
L840556	6	367	222	817	36.7	0.968	2.91	43700	14.35	152	5690	36500
L840557	2.5	85.5	6	159	6.6	1.48	25.4	10600	14.9	230	23.9	5660
L840558	2.5	3.24	6	6.62	11.3	0.176	0.38	370	5.71	15.5	18.4	306
L840559	434	2.07	0.5	554	425	1.35	0.84	97.9	2.06	88.8	1170	225
L840560	10	121	9.9	47.9	13150	0.683	2.98	1535	21.1	14.6	5.8	789
L840561	2.5	54	69	2.4	5120	0.126	0.75	46.9	6.4	9.7	6.3	242
L840562	32	215	1910	3.82	511	0.404	3.53	10900	5720	44.8	0.9	7090
L840563	5	112	8.5	7.69	954	0.067	0.44	30400	94.4	3.9	1.5	3120
L840600	40	179	13	10.35	1555	0.142	0.86	62100	123	3.4	1.1	23800
L840601	5	14.65	7.3	5.77	1245	0.018	0.92	1680	12.75	2.1	0.4	589
M676026	6	0.22	1335	2.45	449	0.099	1.22	65.4	0.76	8.3	5.7	33
M676027	241	1.63	9	424	450	1.79	4.64	4.3	1.3	33.2	6580	284
M676028	7	0.27	191.5	0.4	32.5	1.105	0.6	5.6	1.78	2.6	6.3	74
M676029	6	1.73	244	2.68	37.6	0.14	17.35	210	22.7	6.5	29.3	184
M676030	2.5	13.45	31.2	1.1	2480	0.852	1.54	23.4	11.05	757	15.5	312
M676031	2.5	0.78	34.8	0.49	37.8	0.141	1.61	10.7	5.53	23.4	5	211
M676032	2.5	0.54	8.4	0.93	130	0.387	0.77	5.6	0.48	16.9	2.8	67
M676033	28	4.19	37	78.9	205	4.3	0.99	202	6.7	115	540	592
M676081	424	14.85	10001	16.6	1445	0.461	3.76	51	72.9	4.3	2	50
M676083	2.5	0.13	296	3.16	8.2	0.024	0.28	32.3	1.2	9.4	1.9	41
M676084	2.5	6.03	79	0.55	972	0.423	1.51	55.3	19.95	10.6	3.2	255
M676085	2.5	0.23	36.6	0.23	27.2	0.04	0.73	22.7	4.51	1.4	1.5	75
M676087	2.5	76.4	107	140.5	15.3	0.474	11.3	14800	6.49	10	2.2	6310
M676088	2.5	42.1	13.8	73.5	3.3	0.592	0.29	4460	14.6	29.9	67.7	499
M676089	2.5	0.67	17	2.05	8	0.365	0.25	95.8	11.15	42.9	2.4	6270
M676090	2.5	0.71	11	0.79	35.1	0.239	0.33	38.5	0.56	5.2	1.8	80
M676091	2.5	0.21	8.5	0.28	37.1	0.824	0.32	16.6	0.85	29.2	2.5	86
M676092	2.5	0.27	45.5	0.3	115.5	0.634	0.37	9.1	0.25	10.1	2.2	21
M676093	2.5	0.31	24	0.33	8.4	0.083	2.14	42.9	1.81	3.3	1.4	74
M676094	2.5	2.2	51.1	0.84	207	0.08	1.11	29.6	6.08	29.3	3.1	356
M676751	2.5	0.78	21	1.76	183.5	0.193	0.36	88.6	7.26	17.6	3.8	3130
M676752	2.5	0.4	11	0.22	32.9	0.269	0.84	88	1.3	9.8	1.3	7840
M676753	2.5	39.7	8.2	80.8	681	6.65	6.9	5290	15.6	108	3.8	5310



SILVER RANGE RESOURCES LTD.

FIGURE 76

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

KU ZONE
GEOLOGY & MINERALIZATION

KEG PROPERTY

0 100 200 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F76-GeoMin-Ku.wor | DATE: FEBRUARY 2014

625000mE
626000mE
627000mE
628000mE
6921000mN
6920000mN
6919000mN
6918000mN
mKs
Mt
GAUSS
CSm
KU
CSm
5,000
5,500
mKs

Dyke
Skarn
Micaceous metaseds

Tv	- Tertiary Volcanics
Kst	- South Fork Volcanics
Ksp, mKv, mKs	- Selwyn Plutonic Suite
Trj	- Jones Lake Formation
CPmc	- Mount Christie Formation
Mt, CMal	- Tay Formation
DMe	- Earn Group
Mv	- Felsic Volcanics
DMp	- Prevost Formation
Dp	- Portrait Lake Formation
ODrs	- Road River Group
COr, COrh, COrt	- Rabbitkettle Formation
ICg	- Gull Lake Formation

(See Figure 6 for detailed Geology Legend)

- Bedding orientation
- Foliation orientation
- Fracture set; horizontal, inclined, vertical
- Vein orientation
- Fold
- Anticline
- Syncline
- Overturned anticline
- 2013/older rocks
- Observed contact
- Inferred contact
- Assumed contact
- Linears
- Fault
- Normal fault
- Thrust fault
- Strike-slip fault
- Outcrop

Silver (ppm)
- ≥ 10
- ≥ 5.0 < 10
- ≥ 2.0 < 5.0
- ≥ 1.0 < 2.0
- ≥ 0.5 < 1.0
- 0 < 0.5
- SNG soil sample (2010-2013)
- SNG stream sediment sample
- Historical soil sample
- Historical stream sediment sample
- Sample - No value reported or not analyzed for this element
- SNG diamond drill hole
- Primary mineralized zone referred to in text
- Secondary soil anomaly referred to in text

T.N.
1°33'
23°55'
Grid north
Magnetic north
Annual change decreasing 25.6'

SILVER RANGE RESOURCES LTD.

FIGURE 77
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
KU & GAUSS ZONES SILVER SOIL GEOCHEMISTRY
KEG PROPERTY

0 250 500 m
UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft
FILE: .../Keg-F78-Geochem-Soils-KuGauss-Ag.wor DATE: FEBRUARY 2014

625000mE
626000mE
627000mE
628000mE
6921000mN
6920000mN
6919000mN
6918000mN
6917000mN
mKs
Mt
GAUSS
KU
CSm
COrl
5,000
5,500
mKs

Dyke
Skarn
Micaceous metaseds

Tv	- Tertiary Volcanics
Kst	- South Fork Volcanics
Ksp, mKv, mKs	- Selwyn Plutonic Suite
Trj	- Jones Lake Formation
CPmc	- Mount Christie Formation
Mt, CMal	- Tay Formation
DMe	- Earn Group
Mv	- Felsic Volcanics
DMp	- Prevost Formation
Dp	- Portrait Lake Formation
ODrs	- Road River Group
COr, COrh, COrt	- Rabbitkettle Formation
ICg	- Gull Lake Formation

(See Figure 6 for detailed Geology Legend)

- Bedding orientation
- Foliation orientation
- Fracture set; horizontal, inclined, vertical
- Vein orientation
- Fold
- Anticline
- Syncline
- Overturned anticline
- 2013/older rocks
- Observed contact
- Inferred contact
- Assumed contact
- Linears
- Fault
- Normal fault
- Thrust fault
- Strike-slip fault
- Outcrop

Lead (ppm)

- ≥ 1000
- ≥ 500 < 1000
- ≥ 200 < 500
- ≥ 100 < 200
- ≥ 50 < 100
- 0 < 50
- SNG soil sample (2010-2013)
- SNG stream sediment sample
- Historical soil sample
- Historical stream sediment sample
- Sample - No value reported or not analyzed for this element
- SNG diamond drill hole
- Primary mineralized zone referred to in text
- Secondary soil anomaly referred to in text

T.N.
1°33'
23°55'
Grid north
Magnetic north
Annual change decreasing 25.6'

SILVER RANGE RESOURCES LTD.

FIGURE 78

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

KU & GAUSS ZONES
LEAD SOIL GEOCHEMISTRY

KEG PROPERTY

0 250 500 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F79-Geochem-Soils-KuGauss-Pb.wor | DATE: FEBRUARY 2014

625000mE
626000mE
627000mE
628000mE
6921000mN
6920000mN
6919000mN
6918000mN
mKs
Mt
GAUSS
KU
COrl
CSm
mKs
5,000
5,800
0009

Dyke
Skarn
Micaceous metaseds

Tv	- Tertiary Volcanics
Kst	- South Fork Volcanics
Ksp, mKv, mKs	- Selwyn Plutonic Suite
Trj	- Jones Lake Formation
CPmc	- Mount Christie Formation
Mt, CMal	- Tay Formation
DMe	- Earn Group
Mv	- Felsic Volcanics
DMp	- Prevost Formation
Dp	- Portrait Lake Formation
ODrs	- Road River Group
COr, COrh, COrt	- Rabbitkettle Formation
ICg	- Gull Lake Formation

(See Figure 6 for detailed Geology Legend)

- Bedding orientation
- Foliation orientation
- Fracture set; horizontal, inclined, vertical
- Vein orientation
- Fold
- Anticline
- Syncline
- Overturned anticline
- 2013/older rocks
- Observed contact
- Inferred contact
- Assumed contact
- Linears
- Fault
- Normal fault
- Thrust fault
- Strike-slip fault
- Outcrop

Antimony (ppm)
- ≥ 100
- ≥ 50 < 100
- ≥ 20 < 50
- ≥ 10 < 20
- ≥ 5 < 10
- 0 < 5
- SNG soil sample (2010-2013)
- SNG stream sediment sample
- Historical soil sample
- Historical stream sediment sample
- Sample - No value reported or not analyzed for this element
- SNG diamond drill hole
- Primary mineralized zone referred to in text
- Secondary soil anomaly referred to in text

T.N.
1°33'
23°55'
Grid north
Magnetic north
Annual change decreasing 25.6'

SILVER RANGE RESOURCES LTD.

FIGURE 79

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

KU & GAUSS ZONES
ANTIMONY SOIL GEOCHEMISTRY

KEG PROPERTY

0 250 500 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F80-Geochem-Soils-KuGauss-Sb.wor | DATE: FEBRUARY 2014

625000mE
626000mE
627000mE
628000mE
6921000mN
6920000mN
6919000mN
6918000mN
6917000mN
mKs
Mt
GAUSS
KU
CSm
COrl
5,000
5,500
mKs

Dyke
Skarn
Micaceous metaseds

Tv	- Tertiary Volcanics
Kst	- South Fork Volcanics
Ksp, mKv, mKs	- Selwyn Plutonic Suite
Trj	- Jones Lake Formation
CPmc	- Mount Christie Formation
Mt, CMal	- Tay Formation
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DMp	- Prevost Formation
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COr, COrh, COrt	- Rabbitkettle Formation
ICg	- Gull Lake Formation

(See Figure 6 for detailed Geology Legend)

- Bedding orientation
- Foliation orientation
- Fracture set; horizontal, inclined, vertical
- Vein orientation
- Fold
- Anticline
- Syncline
- Overturned anticline
- 2013/older rocks
- Observed contact
- Inferred contact
- Assumed contact
- Linears
- Fault
- Normal fault
- Thrust fault
- Strike-slip fault
- Outcrop

Tungsten (ppm)

- ≥ 20
- ≥ 10 < 20
- ≥ 5 < 10
- ≥ 2 < 5
- ≥ 1 < 2
- 0 < 1
- SNG soil sample (2010-2013)
- SNG stream sediment sample
- Historical soil sample
- Historical stream sediment sample
- Sample - No value reported or not analyzed for this element
- SNG diamond drill hole
- Primary mineralized zone referred to in text
- Secondary soil anomaly referred to in text

T.N.
1°33'
23°55'
Grid north
Magnetic north
Annual change decreasing 25.6'

SILVER RANGE RESOURCES LTD.

FIGURE 80

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

KU & GAUSS ZONES
TUNGSTEN SOIL GEOCHEMISTRY

KEG PROPERTY

0 250 500 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F81-Geochem-Soils-KuGauss-W.wor | DATE: FEBRUARY 2014

Gauss Zone Rock Geochemistry

Sample #	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)	Cu (ppm)	In (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Sn (ppm)	W (ppm)	Zn (ppm)
L840318	2.5	0.08	52.7	0.15	13.3	0.029	14.6	4.1	8.42	1	0.7	27
L840319	2.5	0.2	88	0.26	30.9	0.073	1.53	28.6	10.2	1.2	2.2	97
L840320	2.5	0.5	12.7	0.7	9.2	0.041	7.13	63.6	8.67	2.2	1.3	248
L840321	2.5	0.31	5.6	0.56	23	0.042	1.46	39.5	5.03	2.1	1	1200
L840322	2.5	0.7	23.2	0.3	42.7	0.011	27.3	16.7	25.3	2	1.2	191
L840323	9	504	207	73.1	10600	0.06	0.44	143500	352	0.8	1.1	4770
L840324	2.5	12.25	242	0.19	8620	0.048	3.49	580	16.7	1.3	4.6	851
L840325	2.5	0.54	2.5	0.12	75	0.074	0.32	133.5	1.4	1.7	1.4	79
L840326	2.5	0.42	30.5	0.16	109.5	0.0025	30.7	18.1	3.05	0.6	0.9	13
L840327	2.5	0.43	2.5	0.11	33.3	0.051	0.28	89.1	8.17	1.1	2.1	152
L840328	2.5	44.1	28.9	2.06	22800	0.02	0.31	28600	31.7	0.1	0.2	981
L840329	2.5	0.71	59.4	0.69	130	0.067	0.22	310	12	1.6	2.2	187
L840330	2.5	0.37	2.4	0.11	135	0.065	2	85.4	1.58	1.7	0.8	129
L840331	2.5	0.07	2.5	0.05	56.7	0.034	0.3	12	3.96	0.9	0.7	70
L840351	2.5	0.32	127	0.23	52.6	0.068	10.3	38.3	6.69	1.9	1.6	114
L840352	2.5	9.83	96	0.49	1060	0.082	0.39	20.7	11.25	1.7	1.3	130
L840353	2.5	0.22	15	0.15	31.7	0.0025	19.2	37.2	3.16	0.6	0.6	70
L840354	2.5	0.15	4.8	0.07	8.6	0.025	0.63	45.2	0.59	3.4	2.2	40
L840401	2.5	0.1	3.1	0.07	14.8	0.02	1.4	26.4	1.05	1.1	0.8	95
L840402	2.5	2.56	69	3.46	181.5	0.089	0.78	589	13.55	1.1	1.3	233
L840403	2.5	0.08	4.2	0.05	70.7	0.06	1.63	17.6	19.9	3.1	0.9	543
L840404	2.5	0.58	22	0.08	303	0.097	0.29	5	8.6	2	2.1	135
L840564	2.5	21.3	35	11.05	1415	0.058	1.41	1735	42.1	0.4	1.8	520
L840592	2.5	0.29	32.7	0.37	12.1	0.01	2.94	19.5	7.52	0.6	0.7	212
L840593	2.5	0.17	41.3	0.12	5.9	0.013	5.43	14.1	12.35	0.9	0.9	31
L840594	2.5	5.16	83	1.17	473	0.101	0.36	542	13.15	2.5	4.2	505
L840595	2.5	9.09	31	2.61	564	0.069	0.22	1585	4.93	0.3	1.5	644
L840596	2.5	0.46	49	0.8	21.9	0.078	6.15	48.7	17	2	2.5	138

Mt

mKs

COr

CSm

6922000mN

6921000mN

6920000mN

620000mE

621000mE

622000mE

- SNG diamond drill hole
- Primary mineralized zone referred to in text
- Secondary soil anomaly referred to in text

- Dyke
- Skarn
- Micaceous metaseds

Tv	- Tertiary Volcanics
Kst	- South Fork Volcanics
Ksp, mKv, mKs	- Selwyn Plutonic Suite
Trj	- Jones Lake Formation
CPmc	- Mount Christie Formation
Mt, CMal	- Tay Formation
DMe	- Earn Group
Mv	- Felsic Volcanics
DMp	- Prevost Formation
Dp	- Portrait Lake Formation
ODrs	- Road River Group
COr, COrh, COrt	- Rabbitkettle Formation
ICg	- Gull Lake Formation

(See Figure 6 for detailed Geology Legend)

- Bedding orientation
- Foliation orientation
- Fracture set; horizontal, inclined, vertical
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- Anticline
- Syncline
- Overturned anticline
- 2013/older rocks
- Observed contact
- Inferred contact
- Assumed contact
- Linears
- Fault
- Normal fault
- Thrust fault
- Strike-slip fault
- Outcrop

T.N. 21°33' 23°55' Grid North Magnetic North

Annual change decreasing 25.6'

SILVER RANGE RESOURCES LTD.

FIGURE 81

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

GAUSS ZONE
GEOLOGY & MINERALIZATION

KEG PROPERTY

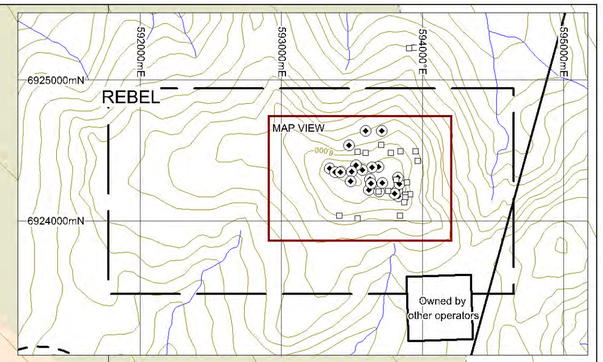
0 200 400 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F81-GeoMin-Gauss.wor DATE: FEBRUARY 2014

Rebel Zone Rock Geochemistry

Sample #	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)	Cu (ppm)	In (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Sn (ppm)	W (ppm)	Zn (ppm)
K276018	8	907	3030	0.35	1560	0.0025	0.17	813200	719	1415	0.06	438
K276019	5	175	10000	2.49	3090	0.331	2.41	136000	120	274	0.09	9910
K276020	2.5	11.75	738	0.28	804	0.076	1.57	4970	7.12	424	0.15	5790
K276021	2.5	6.24	91	0.12	43.1	0.174	0.87	4930	2.83	67	0.08	3790
J980200	100	187	2880	435	5250	3.67	4.63	30800	107	82.3	0.67	1855
J980201	100	1.6	27	0.78	30200	0.208	7.95	68.7	0.59	0.4	0.025	241
J980202	100	51.5	10001	56.7	2680	13.8	16	16150	76.6	46.1	0.17	40800
J980203	100	214	10001	14.1	40600	67.7	7.84	1950	35.1	250	0.16	32200
J980204	100	78.7	563	14.95	7750	188	5.31	1810	46.9	165	0.11	48100
J980205	100	307	10001	534	7190	25.6	4.62	70000	192	501	0.38	17200
J980206	100	338	10001	104	1980	64.8	0.63	136500	242	160	0.31	11150
J980207	100	141	10001	115	6380	14.5	4.55	83300	83.5	74.6	0.19	18050
J980208	100	161	10001	7.05	4090	6.86	2.45	60700	110	78.2	0.25	19900
J980209	100	53.8	407	297	1855	128.5	1.09	2120	41.2	55.2	0.29	13850
J980210	100	30.2	493	187.5	9560	5.25	10.9	1255	11.3	31.9	1.36	6010
J980211	100	5.13	1600	42.6	2240	4.94	0.72	252	11.2	23.1	0.06	816
J980212	100	41.1	10001	37	2770	7.13	3.53	4050	24.4	85.7	1.48	2000
J980213	100	27.2	2790	65.3	1710	1.93	7.08	4140	14.05	54	1.21	2660
J980214	100	176	399	22.9	2760	124.5	3.09	38900	75.3	210	0.23	8370
J980215	100	12.05	912	16.7	495	2.35	0.26	506	2.98	42.4	0.11	4020
J980216	100	2.35	40.1	0.75	3100	1.78	0.81	361	0.75	3.9	0.025	225
G005394	100	90	67.8	54.3	1640	4.56	2.8	5170	264	306	0.32	8800



CSM2c

CSM2a

CSM2b

593500mE

6924500mN

6924000mN

REB-11-001
REB-11-002
REB-11-003

K276020
K276021
K276019

J980216
J980215
J980214
J980213
J980212
J980211
J980210

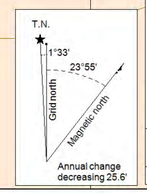
RCH-12-007
RCH-12-008
RCH-12-009
RCH-12-013
RCH-12-006
RCH-12-014
RCH-12-015
RCH-12-016
RCH-12-017
RCH-12-011
RCH-12-004
J980209
G005394
RCH-12-018
RCH-12-012
RCH-12-003
RCH-12-005
RCH-12-010
J980203
J980204
RCH-12-002
RCH-12-019
J980206
J980205
RCH-12-001
J980207
J980208
J980202
J980201
J980200

SNG diamond drill hole
SNG diamond drill hole
Primary mineralized zone referred to in text
Secondary soil anomaly referred to in text

CSM2a	Orange and brown altered volcanic and volcaniclastic rocks that are cut extensively by orange iron-carbonate veins.
CSM2b	Black, very carbonaceous shale.
CSM2c	Variably deformed, green volcanic breccia interbedded with green re-cemented volcaniclastic sandstone, silstone and tuffaceous rocks. Locally, amygdaloidal basalt flows have calcite-filled amygdules.

(See Figure 6 for detailed Geology Legend)

Bedding orientation	Observed contact
Foliation orientation	Inferred contact
Fracture set; horizontal, inclined, vertical	Assumed contact
Vein orientation	Linears
Fold	Fault
Anticline	Normal fault
Syncline	Thrust fault
Overturned anticline	Strike-slip fault
2013/older rocks	Outcrop



SILVER RANGE RESOURCES LTD.

FIGURE 82

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

REBEL ZONE
GEOLOGY & MINERALIZATION

KEG PROPERTY

0 125 250 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F82-GeoMin-Rebel.wor | DATE: FEBRUARY 2014

CSM2a — Orange and brown altered volcanic and volcaniclastic rocks that are cut extensively by orange iron-carbonate veins.

CSM2b — Black, very carbonaceous shale.

CSM2c — Variably deformed, green volcanic breccia interbedded with green re-cemented volcaniclastic sandstone, siltstone and tuffaceous rocks. Locally, amygdaloidal basalt flows have calcite-filled amygdules.

591000mE 592000mE 593000mE 594000mE 595000mE

6925000mN 6924000mN 6923000mN 6922000mN

REBEL

XVIII

Owned by other operators

Silver (ppm)
- ≥ 10
- ≥ 5.0 < 10
- ≥ 2.0 < 5.0
- ≥ 1.0 < 2.0
- ≥ 0.5 < 1.0
- 0 < 0.5

- SNG soil sample (2010-2013)
- SNG stream sediment sample
- Historical soil sample
- Historical stream sediment sample
- Sample - No value reported or not analyzed for this element
- SNG percussion drill hole
- SNG diamond drill hole
- Primary mineralized zone referred to in text
- Secondary soil anomaly referred to in text

T.N. 1°33' 23°55' Grid north Magnetic north
Annual change decreasing 25.6'

SILVER RANGE RESOURCES LTD.

FIGURE 83
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

REBEL ZONE
SILVER SOIL GEOCHEMISTRY
KEG PROPERTY

0 250 500 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F83-Geochem-Soils-Rebel-Ag.wor | DATE: FEBRUARY 2014

(See Figure 6 for detailed Geology Legend)

- Bedding orientation
- Foliation orientation
- Fracture set; horizontal, inclined, vertical
- Vein orientation
- Fold
- Anticline
- Syncline
- Overturned anticline
- 2013/older rocks
- Observed contact
- Inferred contact
- Assumed contact
- Linears
- Fault
- Normal fault
- Thrust fault
- Strike-slip fault
- Outcrop

CSM2a Orange and brown altered volcanic and volcaniclastic rocks that are cut extensively by orange iron-carbonate veins.

CSM2b Black, very carbonaceous shale.

CSM2c Variably deformed, green volcanic breccia interbedded with green re-cemented volcaniclastic sandstone, silstone and tuffaceous rocks. Locally, amygdaloidal basalt flows have calcite-filled amygdules.

592000mE
593000mE
594000mE
595000mE

6925000mN
6924000mN
6923000mN
6922000mN

REBEL

XVIII

Owned by other operators

Lead (ppm)
- ≥ 1000
- ≥ 500 < 1000
- ≥ 200 < 500
- ≥ 100 < 200
- ≥ 50 < 100
- 0 < 50

- SNG soil sample (2010-2013)
- SNG stream sediment sample
- Historical soil sample
- Historical stream sediment sample
- Sample - No value reported or not analyzed for this element
- SNG percussion drill hole
- SNG diamond drill hole
- Primary mineralized zone referred to in text
- Secondary soil anomaly referred to in text

T.N.
1°33'
23°55'
Grid north
Magnetic north
Annual change decreasing 25.6'

SILVER RANGE RESOURCES LTD.

FIGURE 84

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

REBEL ZONE
LEAD SOIL GEOCHEMISTRY

KEG PROPERTY

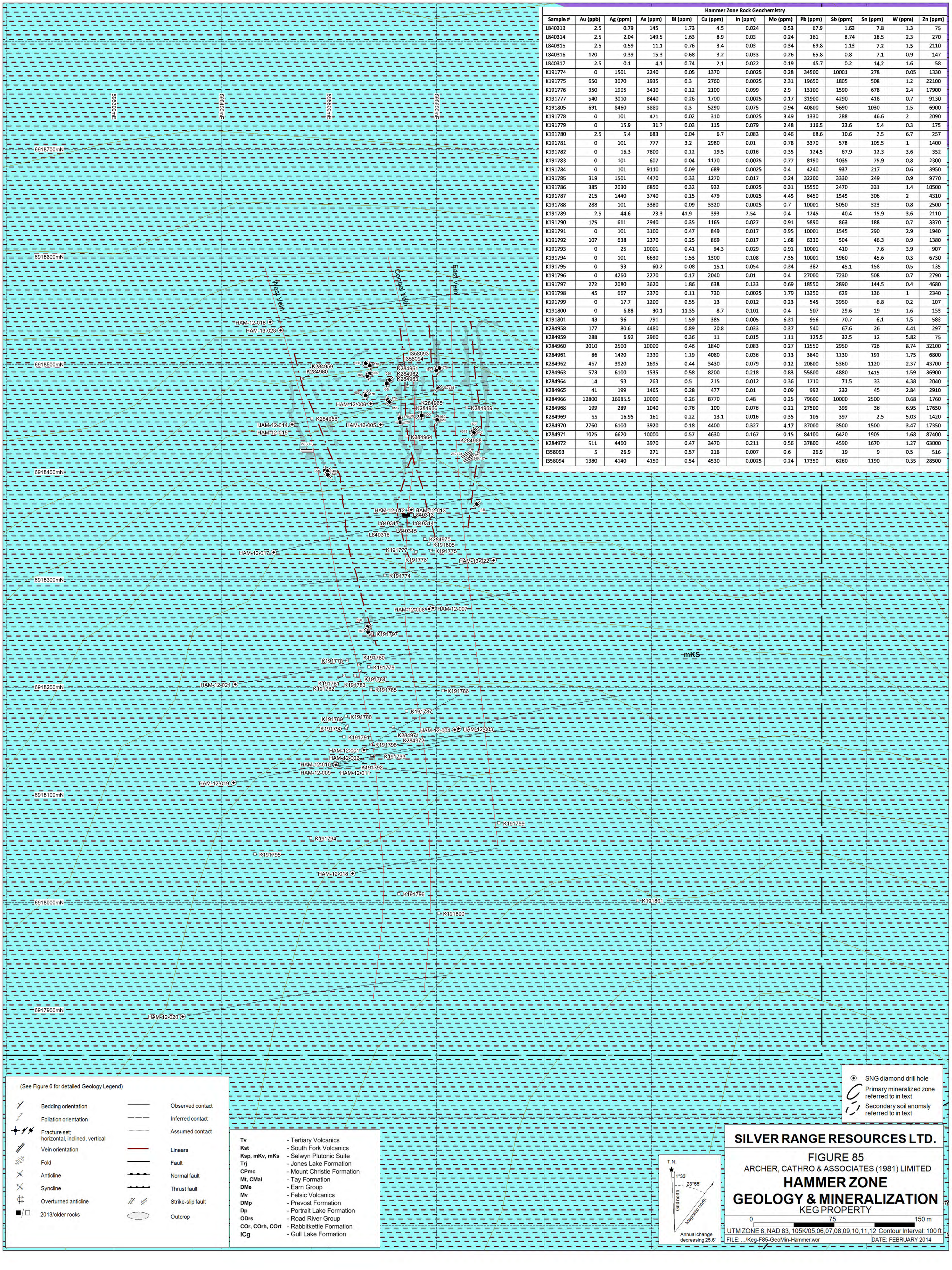
0 250 500 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F84-Geochem-Soils-Rebel-Pb.wor | DATE: FEBRUARY 2014

Hammer Zone Rock Geochemistry

Sample #	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)	Cu (ppm)	In (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Sn (ppm)	W (ppm)	Zn (ppm)
L840313	2.5	0.79	145	1.73	4.5	0.024	0.53	67.9	1.63	7.8	1.3	75
L840314	2.5	2.04	149.5	1.63	8.9	0.03	0.24	161	8.74	18.5	2.3	270
L840315	2.5	0.59	11.1	0.76	3.4	0.03	0.34	69.8	1.13	7.2	1.5	2110
L840316	120	0.39	15.3	0.68	3.2	0.033	0.26	65.8	0.8	7.1	0.9	147
L840317	2.5	0.1	4.1	0.74	2.1	0.022	0.19	45.7	0.2	14.2	1.6	58
K191774	0	1501	2240	0.05	1370	0.0025	0.28	34500	10001	278	0.05	1330
K191775	650	3070	1935	0.3	2760	0.0025	2.31	19650	1805	508	1.2	22100
K191776	350	1905	3410	0.12	2100	0.099	2.9	13100	1590	678	2.4	17900
K191777	540	3010	8440	0.26	1700	0.0025	0.17	31900	4290	418	0.7	9130
K191805	691	8460	3880	0.3	5290	0.075	0.94	40800	5690	1030	1.5	6900
K191778	0	101	471	0.02	310	0.0025	3.49	1330	288	46.6	2	2090
K191779	0	15.9	31.7	0.03	115	0.079	2.48	116.5	23.6	5.4	0.3	175
K191780	2.5	5.4	683	0.04	6.7	0.083	0.46	68.6	10.6	2.5	6.7	257
K191781	0	101	777	3.2	2980	0.01	0.78	3370	578	105.5	1	1400
K191782	0	16.3	7800	0.12	19.5	0.016	0.35	124.5	67.9	12.3	3.6	352
K191783	0	101	607	0.04	1170	0.0025	0.77	8190	1035	75.9	0.8	2300
K191784	0	101	9110	0.09	689	0.0025	0.4	4240	937	217	0.6	3950
K191785	319	1501	4470	0.33	1270	0.017	0.24	32200	3330	249	0.9	9770
K191786	385	2030	6850	0.32	932	0.0025	0.31	15550	2470	331	1.4	10500
K191787	215	1440	3740	0.15	479	0.0025	4.45	6450	1545	306	2	4310
K191788	288	101	3380	0.09	3320	0.0025	0.7	10001	5050	323	0.8	2500
K191789	2.5	44.6	23.3	41.9	393	2.54	0.4	1245	40.4	15.9	3.6	2110
K191790	175	611	2940	0.35	1165	0.027	0.91	5890	863	188	0.7	3370
K191791	0	101	3100	0.47	849	0.017	0.95	10001	1545	290	2.9	1940
K191792	107	638	2370	0.25	869	0.017	1.68	6330	504	46.3	0.9	1380
K191793	0	25	10001	0.41	94.3	0.029	0.91	10001	410	7.6	3.9	907
K191794	0	101	6630	1.53	1300	0.108	7.35	10001	1960	45.6	0.3	6730
K191795	0	93	60.2	0.08	15.1	0.054	0.34	382	45.1	158	0.5	135
K191796	0	4260	2270	0.17	2040	0.01	0.4	27000	7230	508	0.7	2790
K191797	272	2080	3620	1.86	638	0.133	0.69	18550	2890	144.5	0.4	4680
K191798	45	667	2370	0.11	730	0.0025	1.79	13350	629	136	1	2340
K191799	0	17.7	1200	0.55	13	0.012	0.23	545	3950	6.8	0.2	107
K191800	0	6.88	30.1	11.35	8.7	0.101	0.4	507	29.6	19	1.6	153
K191801	43	96	791	1.59	385	0.005	6.31	956	70.7	6.1	1.5	583
K284958	177	80.6	4480	0.89	20.8	0.033	0.37	540	67.6	26	4.41	297
K284959	288	6.92	2960	0.36	11	0.015	1.11	125.5	32.5	12	5.82	75
K284960	2010	2500	10000	0.46	1840	0.083	0.27	12550	2950	726	8.74	32100
K284961	86	1420	2330	1.19	4080	0.036	0.13	3840	1130	191	1.75	6800
K284962	457	3920	1695	0.44	3430	0.079	0.12	20800	5360	1120	2.37	43700
K284963	573	6100	1535	0.58	8200	0.218	0.83	55800	4880	1415	1.59	36900
K284964	14	93	263	0.5	215	0.012	0.36	1710	71.5	33	4.38	2040
K284965	41	199	1465	0.28	477	0.01	0.09	992	232	45	2.84	2910
K284966	12800	16985.5	10000	0.26	8770	0.48	0.25	79600	10000	2500	0.68	1760
K284968	199	289	1040	0.76	100	0.076	0.21	27500	399	36	6.95	17650
K284969	55	16.95	161	0.22	13.1	0.016	0.35	105	397	2.5	5.03	1420
K284970	2760	6100	3920	0.18	4400	0.327	4.17	37000	3500	1500	3.47	17350
K284971	1025	6620	10000	0.57	4630	0.167	0.15	84100	6420	1905	1.68	87400
K284972	511	4460	3970	0.47	3470	0.211	0.56	37800	4590	1670	1.27	63000
I358093	5	26.9	271	0.57	216	0.007	0.6	26.9	19	9	0.5	516
I358094	1380	4140	4150	0.54	4530	0.0025	0.24	17350	6260	1190	0.35	28500



(See Figure 6 for detailed Geology Legend)

Bedding orientation	Observed contact
Foliation orientation	Inferred contact
Fracture set; horizontal, inclined, vertical	Assumed contact
Vein orientation	Linears
Fold	Fault
Anticline	Normal fault
Syncline	Thrust fault
Overturned anticline	Strike-slip fault
2013/older rocks	Outcrop

Tv	- Tertiary Volcanics
Kst	- South Fork Volcanics
Ksp, mKv, mKs	- Selwyn Plutonic Suite
Trj	- Jones Lake Formation
CPmc	- Mount Christie Formation
Mt, CMal	- Tay Formation
DMe	- Earn Group
Mv	- Felsic Volcanics
DMp	- Prevost Formation
Dp	- Portrait Lake Formation
ODrs	- Road River Group
COr, COrh, COrt	- Rabbitkettle Formation
ICg	- Gull Lake Formation

- SNG diamond drill hole
- Primary mineralized zone referred to in text
- Secondary soil anomaly referred to in text

T.N.
1°33'
23°55'
Grid north
Magnetic north
Annual change decreasing 25.6'

SILVER RANGE RESOURCES LTD.

FIGURE 85

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

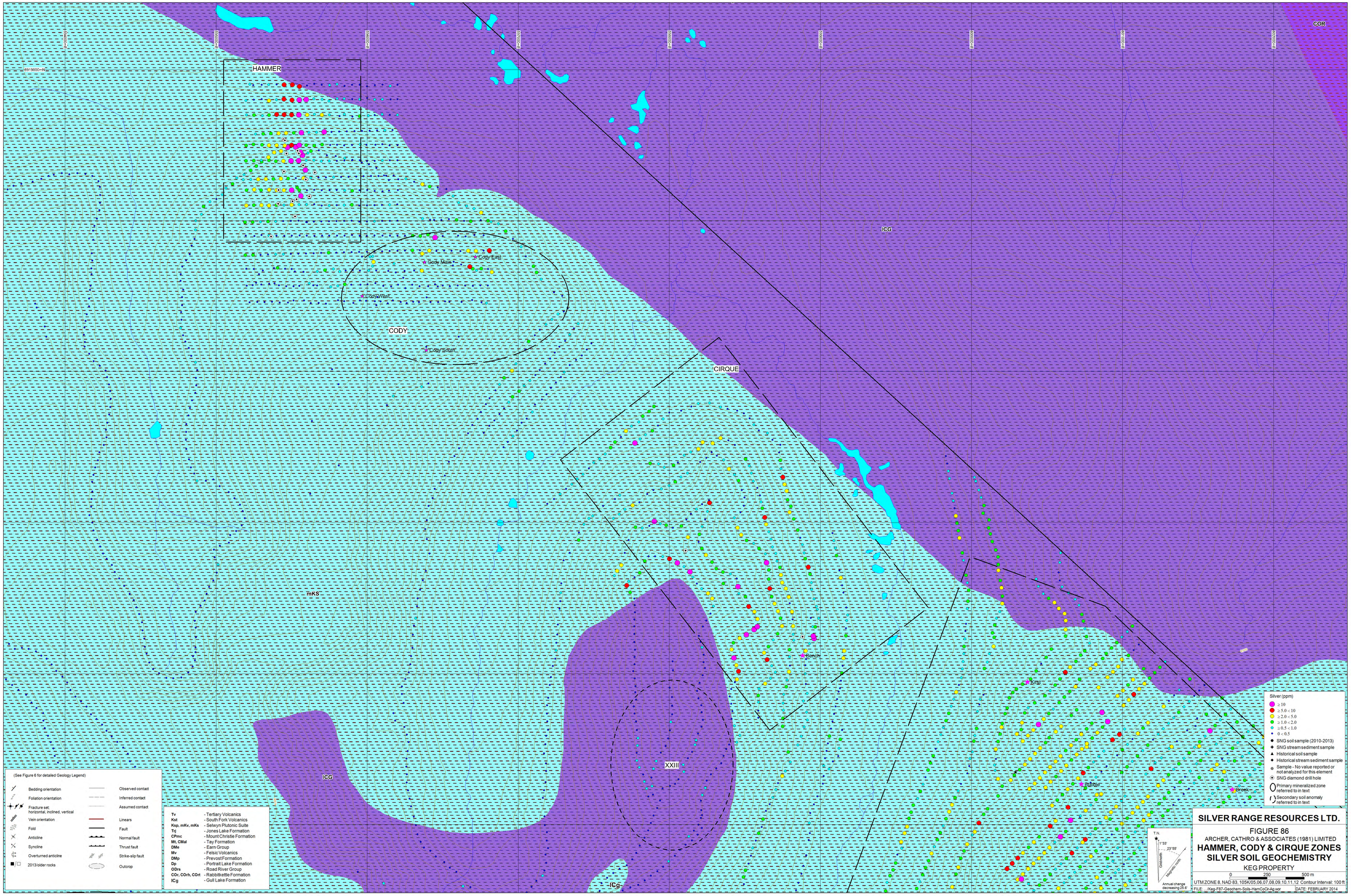
HAMMER ZONE GEOLOGY & MINERALIZATION

KEG PROPERTY

0 75 150 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F85-GeoMin-Hammer.wor | DATE: FEBRUARY 2014



HAMMER
CODY
CIRQUE
ICG
COR
mKS
XXIII
Cody Main
Cody East
Cody West
Cody South
Bench
Kirst
Bubble
Creek
(See Figure 6 for detailed Geology Legend)
Bedding orientation
Foliation orientation
Fracture set; horizontal, inclined, vertical
Vein orientation
Fold
Anticline
Syncline
Overturned anticline
2013/older rocks
Observed contact
Inferred contact
Assumed contact
Linears
Fault
Normal fault
Thrust fault
Strike-slip fault
Outcrop
Tv - Tertiary Volcanics
Kst - South Fork Volcanics
Ksp, mKv, mKs - Selwyn Plutonic Suite
Trj - Jones Lake Formation
CPmc - Mount Christie Formation
Mt, CMal - Tay Formation
DMe - Earn Group
Mv - Felsic Volcanics
DMp - Prevost Formation
Dp - Portrait Lake Formation
ODrs - Road River Group
COr, COrh, COrt - Rabbitkettle Formation
ICg - Gull Lake Formation
Silver (ppm)
≥ 10
≥ 5.0 < 10
≥ 2.0 < 5.0
≥ 1.0 < 2.0
≥ 0.5 < 1.0
0 < 0.5
SNG soil sample (2010-2013)
SNG stream sediment sample
Historical soil sample
Historical stream sediment sample
Sample - No value reported or not analyzed for this element
SNG diamond drill hole
Primary mineralized zone referred to in text
Secondary soil anomaly referred to in text
T.N.
1°33'
23°55'
Grid north
Magnetic north
Annual change decreasing 25.6'
SILVER RANGE RESOURCES LTD.
FIGURE 86
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
HAMMER, CODY & CIRQUE ZONES
SILVER SOIL GEOCHEMISTRY
KEG PROPERTY
0 250 500 m
UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft
FILE: ../Keg-F87-Geochem-Soils-HamCoCir-Ag.wor
DATE: FEBRUARY 2014

HAMMER

CODY

CIRQUE

ICG

mKS

XXIII

Cody East

Cody Main

Cody West

Cody South

Bench

First

Bucket

Creek

COR

(See Figure 6 for detailed Geology Legend)

Bedding orientation		Observed contact	
Foliation orientation		Inferred contact	
Fracture set; horizontal, inclined, vertical		Assumed contact	
Vein orientation		Linears	
Fold		Fault	
Anticline		Normal fault	
Syncline		Thrust fault	
Overturned anticline		Strike-slip fault	
2013/older rocks		Outcrop	

Tv	- Tertiary Volcanics
Kst	- South Fork Volcanics
Ksp, mKv, mKs	- Selwyn Plutonic Suite
Trj	- Jones Lake Formation
CPmc	- Mount Christie Formation
Mt, CMal	- Tay Formation
DMe	- Earn Group
Mv	- Felsic Volcanics
DMp	- Prevost Formation
Dp	- Portrait Lake Formation
ODrs	- Road River Group
COr, COrh, COrt	- Rabbitkettle Formation
ICg	- Gull Lake Formation

Lead (ppm)
- ≥ 1000
- ≥ 500 < 1000
- ≥ 200 < 500
- ≥ 100 < 200
- ≥ 50 < 100
- 0 < 50

- SNG soil sample (2010-2013)
- SNG stream sediment sample
- Historical soil sample
- Historical stream sediment sample
- Sample - No value reported or not analyzed for this element
- SNG diamond drill hole
- Primary mineralized zone referred to in text
- Secondary soil anomaly referred to in text

T.N. 11°33' 23°55' Grid north Magnetic north

Annual change decreasing 25.6'

SILVER RANGE RESOURCES LTD.

FIGURE 87

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

HAMMER, CODY & CIRQUE ZONES LEAD SOIL GEOCHEMISTRY

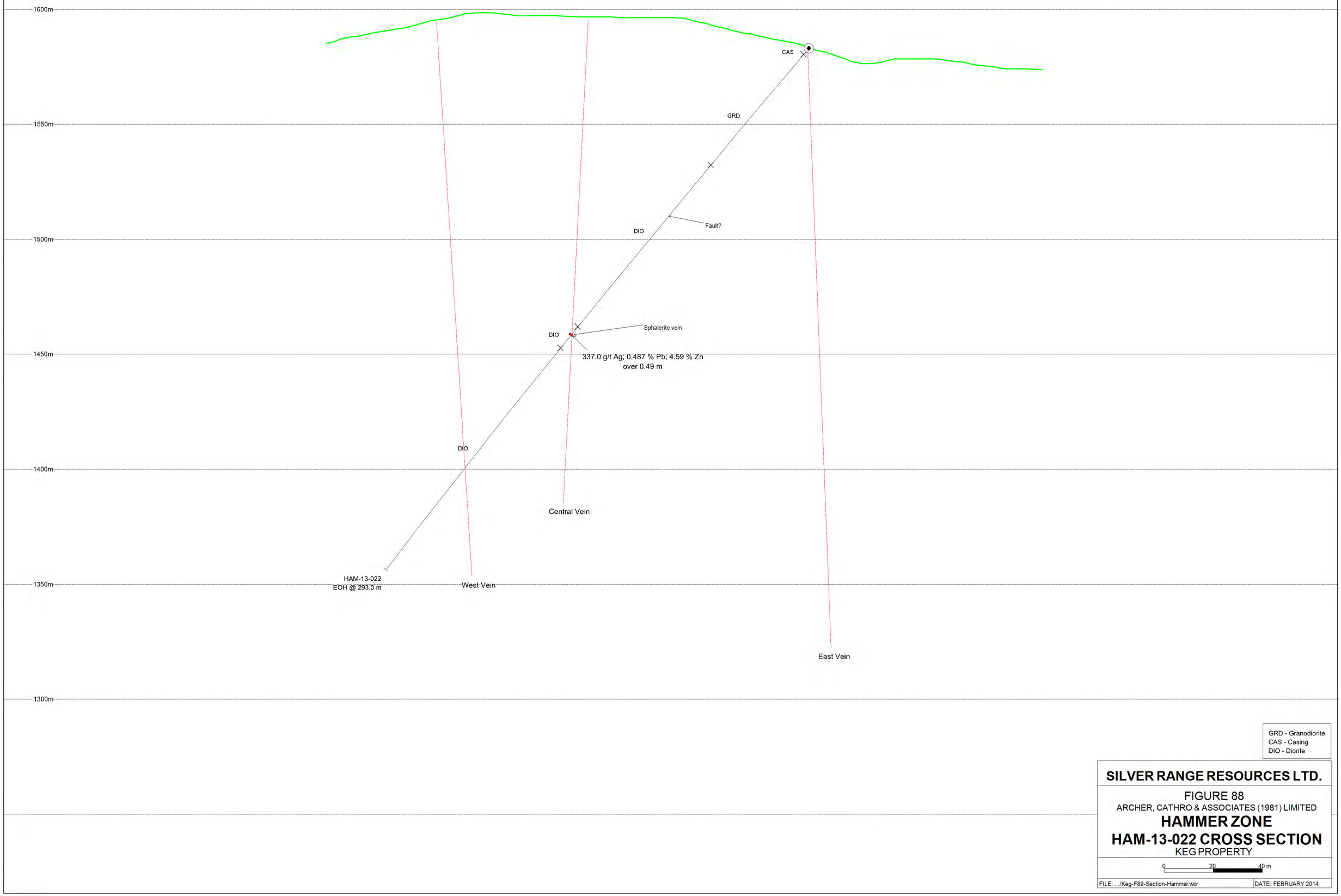
KEG PROPERTY

0 250 500 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE ../Keg-F87-Geochem-Soils-HamCoCir-Pb.wor DATE: FEBRUARY 2014

Looking NW



GRD - Granodiorite
CAS - Casing
DIO - Diorite

SILVER RANGE RESOURCES LTD.

FIGURE 88

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

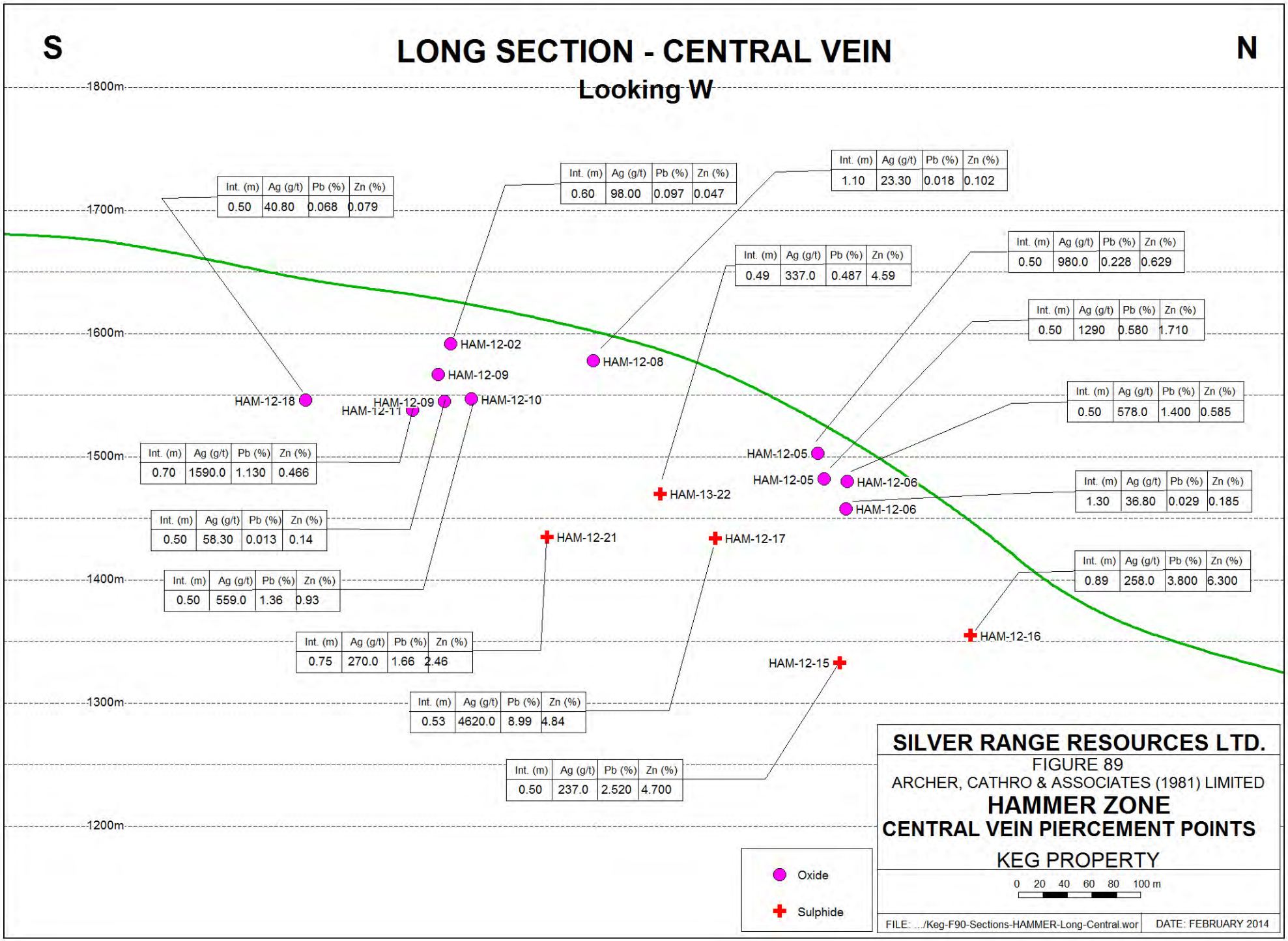
HAMMER ZONE

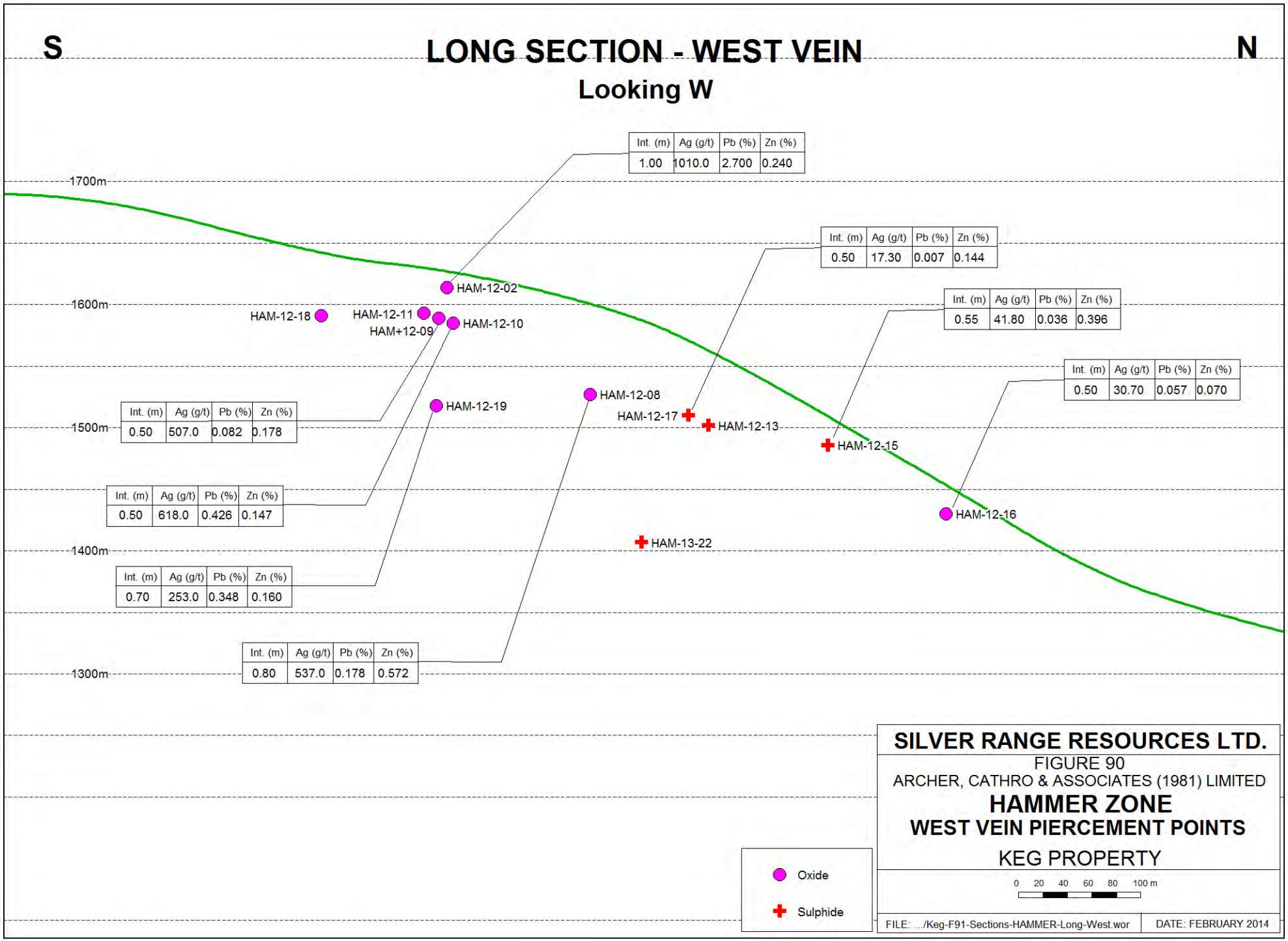
HAM-13-022 CROSS SECTION

KEG PROPERTY

0 20 40 m

FILE: .../Keg-F89-Section-Hammer.wor | DATE: FEBRUARY 2014


S
LONG SECTION - CENTRAL VEIN
Looking W
N
1800m
1700m
1600m
1500m
1400m
1300m
1200m
HAM-12-02
HAM-12-09
HAM-12-08
HAM-12-18
HAM-12-09
HAM-12-10
HAM-12-11
HAM-12-05
HAM-12-05
HAM-12-06
HAM-12-06
HAM-13-22
HAM-12-21
HAM-12-17
HAM-12-16
HAM-12-15
Int. (m) Ag (g/t) Pb (%) Zn (%)
0.50 40.80 0.068 0.079
Int. (m) Ag (g/t) Pb (%) Zn (%)
0.60 98.00 0.097 0.047
Int. (m) Ag (g/t) Pb (%) Zn (%)
1.10 23.30 0.018 0.102
Int. (m) Ag (g/t) Pb (%) Zn (%)
0.49 337.0 0.487 4.59
Int. (m) Ag (g/t) Pb (%) Zn (%)
0.50 980.0 0.228 0.629
Int. (m) Ag (g/t) Pb (%) Zn (%)
0.50 1290 0.580 1.710
Int. (m) Ag (g/t) Pb (%) Zn (%)
0.50 578.0 1.400 0.585
Int. (m) Ag (g/t) Pb (%) Zn (%)
0.70 1590.0 1.130 0.466
Int. (m) Ag (g/t) Pb (%) Zn (%)
1.30 36.80 0.029 0.185
Int. (m) Ag (g/t) Pb (%) Zn (%)
0.50 58.30 0.013 0.14
Int. (m) Ag (g/t) Pb (%) Zn (%)
0.89 258.0 3.800 6.300
Int. (m) Ag (g/t) Pb (%) Zn (%)
0.50 559.0 1.36 0.93
Int. (m) Ag (g/t) Pb (%) Zn (%)
0.75 270.0 1.66 2.46
Int. (m) Ag (g/t) Pb (%) Zn (%)
0.53 4620.0 8.99 4.84
Int. (m) Ag (g/t) Pb (%) Zn (%)
0.50 237.0 2.520 4.700
Oxide
Sulphide
SILVER RANGE RESOURCES LTD.
FIGURE 89
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
HAMMER ZONE
CENTRAL VEIN PIERCEMENT POINTS
KEG PROPERTY
0 20 40 60 80 100 m
FILE: .../Keg-F90-Sections-HAMMER-Long-Central.wor
DATE: FEBRUARY 2014


S
LONG SECTION - WEST VEIN
Looking W
N
1700m
1600m
1500m
1400m
1300m
HAM-12-02
HAM-12-18
HAM-12-11
HAM+12-09
HAM-12-10
HAM-12-19
HAM-12-08
HAM-12-17
HAM-12-13
HAM-12-15
HAM-12-16
HAM-13-22
Int. (m) Ag (g/t) Pb (%) Zn (%)
1.00 1010.0 2.700 0.240
Int. (m) Ag (g/t) Pb (%) Zn (%)
0.50 17.30 0.007 0.144
Int. (m) Ag (g/t) Pb (%) Zn (%)
0.55 41.80 0.036 0.396
Int. (m) Ag (g/t) Pb (%) Zn (%)
0.50 30.70 0.057 0.070
Int. (m) Ag (g/t) Pb (%) Zn (%)
0.50 507.0 0.082 0.178
Int. (m) Ag (g/t) Pb (%) Zn (%)
0.50 618.0 0.426 0.147
Int. (m) Ag (g/t) Pb (%) Zn (%)
0.70 253.0 0.348 0.160
Int. (m) Ag (g/t) Pb (%) Zn (%)
0.80 537.0 0.178 0.572
Oxide
Sulphide
SILVER RANGE RESOURCES LTD.
FIGURE 90
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
HAMMER ZONE
WEST VEIN PIERCEMENT POINTS
KEG PROPERTY
0 20 40 60 80 100 m
FILE: .../Keg-F91-Sections-HAMMER-Long-West.wor
DATE: FEBRUARY 2014

Cody Zone Rock Geochemistry

Sample #	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)	Cu (ppm)	In (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Sn (ppm)	W (ppm)	Zn (ppm)
K280911	2.5	0.06	2.3	0.65	7.7	0.037	0.27	40.7	0.17	5.9	0.8	69
K191769	121	64.9	1660	0.35	65.3	0.044	0.55	357	163	11.4	0.9	263
K191804	31	58.1	2020	0.03	20.9	0.009	0.82	738	594	7.2	0.9	598
K191770	2.5	0.53	66	0.71	10.3	0.031	1.25	20.3	17.25	1.8	1.1	82
K191771	95	0.62	1910	0.13	3.9	0.009	0.3	10.9	51.5	2.1	2.8	2
K191772	28	26.7	336	1.83	143	0.018	0.34	292	146	0.3	0.6	125
K191773	1030	35.6	3710	0.09	11.8	0.007	0.5	66.6	165	1.1	0.3	21
K191801	43	96	791	1.59	385	0.005	6.31	956	70.7	6.1	1.5	583
K191802	331	3610	7450	0.33	560	0.009	0.18	39500	10001	480	0.2	27300
K191803	0	101	1090	0.16	33.7	0.031	0.6	2160	1860	26.1	4.7	1260
M676261	2.5	0.78	154	0.16	7.3	0.021	0.44	9.4	30.4	0.8	5	23
M676262	2.5	0.26	1.8	18.6	1.8	0.005	2.24	5.4	1	0.4	0.1	3
M676263	2.5	3.89	55.5	0.09	7.9	0.276	0.17	24.9	8700	2	0.3	11
M676264	600	20.7	3450	0.3	8.6	0.036	3.4	43.5	1930	3.3	1.1	11
M676401	2.5	0.6	57.4	0.15	2.3	0.011	0.39	8.2	115.5	1.2	1.6	15
M676402	342	4.07	1980	0.21	29.1	0.018	0.55	89.9	310	0.8	0.5	23
M676403	84	130	535	0.06	3	0.008	0.57	30	71.7	1.3	0.7	12
M676404	151	162	509	0.1	2.8	0.006	0.88	21	71.8	1.3	1.2	15
L840615	401	1535	2760	0.2	233	0.023	0.45	15400	10001	118.5	0.7	6650
L840616	90	69.7	988	6.08	202	0.067	0.39	3430	2180	82.8	0.5	16150
L840617	142	2580	1260	0.07	331	0.0025	0.14	24600	10001	290	0.2	20500
L840618	367	2390	679	0.15	320	0.0025	0.38	34500	10001	259	25	22000
L840619	23400	284	10001	0.04	359	0.072	8.84	1590	1200	184.5	1160	4050
L840620	115	1995	213	0.07	394	0.0025	0.29	37500	10001	373	2.3	33100
L840621	126	2310	797	0.07	518	0.0025	0.21	36600	10001	439	2.1	29200
L840622	164	3270	1770	0.65	462	0.028	0.76	14250	4400	95.4	0.8	880
L840623	373	6210	2670	1.34	1615	0.01	0.87	21700	5940	181.5	1	959
M676442	7	152	69.9	399	2210	1.655	1.08	10650	7.15	4.8	0.3	1400
M676443	2.5	44.3	35.9	78	4020	0.42	0.47	7660	15.25	6.4	0.5	1100
M676444	2.5	7350	1285	1.95	559	0.0025	0.12	58800	10001	207	0.2	32300
M676445	18	17.75	244	0.65	18.2	0.067	0.43	188	119	5.9	1.3	597
M676446	30	140	447	0.54	14	0.021	0.66	1030	664	6.8	1.2	408
M676447	93	4.37	1340	0.65	10.5	0.016	4.53	49.3	50.4	3.3	1	16
M676448	173	12.8	2220	0.49	21.6	0.027	1.32	110.5	110.5	5	1.4	119
L840624	9	39.9	178	0.85	126	0.026	0.45	2770	106.5	29.1	0.5	3040
L840625	25	29.8	242	1.2	40.3	0.019	0.56	266	83.7	13.5	1.6	156
L840677	47	167	2070	0.05	210	0.012	8.63	926	300	2	55.2	2190
L840678	61	22.7	2240	0.16	40.4	0.045	5.6	525	546	3.3	13.7	1750
L840679	2.5	2.22	177.5	0.04	3.2	0.009	1.42	28.4	14.75	1.7	1.2	233
L840680	90	18.7	3470	1.54	24.8	0.029	15.6	77	697	4	1.8	1290
L840681	39	15.85	485	0.52	4.3	0.019	0.76	56.8	34.8	4.6	1.5	105
L840682	123	281	2490	0.64	246	0.071	7.56	325	161	25.4	0.8	6250
L840683	17	16.7	294	0.5	9.8	0.024	0.6	90.6	23	16.5	1.1	1040
L840684	559	11424.5	1435	0.62	6400	0.0025	1	67800	10001	737	3.1	14000
L840685	912	16069	2990	0.84	1820	0.0025	1.23	36800	10001	361	0.2	2550
L840686	338	1845	5130	0.43	1115	0.0025	1.02	14500	9210	269	1.7	12550
L840687	123	114	2020	0.76	86.6	0.021	1.98	350	307	12.6	1.1	79
L840688	37	319	3150	0.4	175.5	0.015	6.53	1705	685	20.7	1.1	472
L840689	71	381	1920	0.09	156.5	0.006	27.8	524	911	1.9	0.9	2670
L840690	1060	253	10001	0.14	145	0.022	4.48	6090	2400	12.1	0.1	905
L840691	92	16.1	10001	0.15	18.7	0.025	2.16	229	261	4.6	3.1	892
G006231	89	0.48	2070	0.2	2.6	0.019	0.2	17.1	49.2	5	1.1	123
G006232	400	421	2030	0.33	150	0.011	0.68	1685	850	4.6	0.3	554
K284967	2.5	61.7	1710	0.08	118.5	0.02	4.69	484	113.5	15	24.5	451

Tv - Tertiary Volcanics
Kst - South Fork Volcanics
Ksp, mKv, mKs - Selwyn Plutonic Suite
Trj - Jones Lake Formation
CPmc - Mount Christie Formation
Mt, CMal - Tay Formation
DMe - Earn Group
Mv - Felsic Volcanics
DMp - Prevost Formation
Dp - Portrait Lake Formation
ODrs - Road River Group
COr, COrh, COrt - Rabbitkettle Formation
lCg - Gull Lake Formation

(See Figure 6 for detailed Geology Legend)

- Bedding orientation
- Foliation orientation
- Fracture set; horizontal, inclined, vertical
- Vein orientation
- Fold
- Anticline
- Syncline
- Overturned anticline
- 2013/older rocks
- Observed contact
- Inferred contact
- Assumed contact
- Linears
- Fault
- Normal fault
- Thrust fault
- Strike-slip fault
- Outcrop

- SNG diamond drill hole
- Primary mineralized zone referred to in text
- Secondary soil anomaly referred to in text

T.N. 1°33' 23°55' Grid north Magnetic north
Annual change decreasing 25.6'

SILVER RANGE RESOURCES LTD.

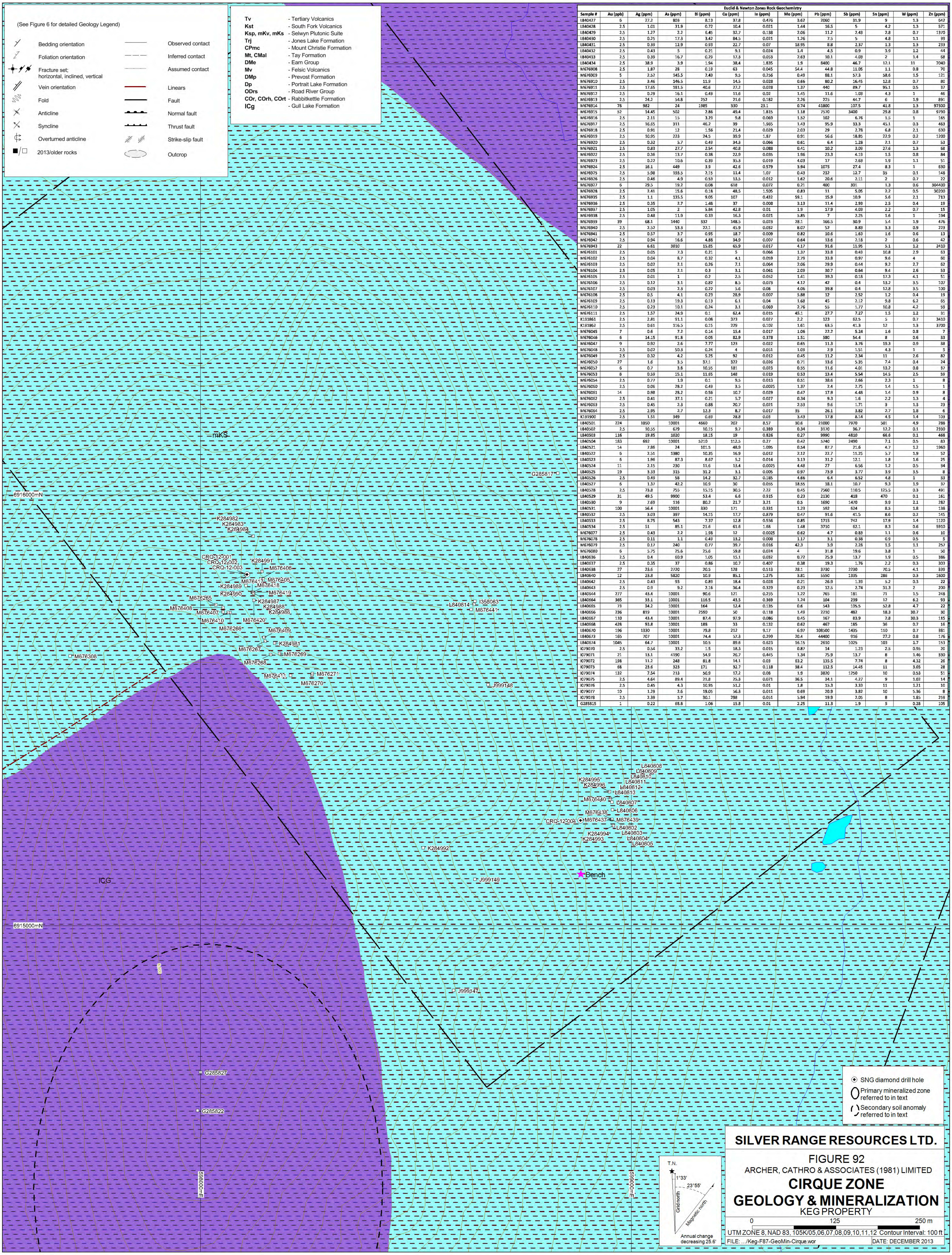
FIGURE 91
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

CODY ZONE
GEOLOGY & MINERALIZATION
KEG PROPERTY

0 100 200 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F91-GeoMin-Cody.wor | DATE: FEBRUARY 2014



Euclid & Newton Zones Rock Geochemistry

Sample #	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)	Cu (ppm)	In (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Sn (ppm)	W (ppm)	Zn (ppm)
L840427	6	27.2	803	8.13	37.8	0.476	3.62	2060	31.9	9	1.3	642
L840428	2.5	1.01	31.9	0.72	10.4	0.021	1.44	16.5	5	4.2	1.3	571
L840429	2.5	1.27	2.2	6.45	32.7	0.138	2.06	11.2	2.43	2.8	0.7	1370
L840430	2.5	0.25	17.3	3.42	84.5	0.021	1.26	7.5	5	4.8	1.1	39
L840431	2.5	0.39	12.9	0.93	22.7	0.07	18.95	8.8	2.37	1.3	1.3	233
L840432	2.5	0.43	5	0.21	9.1	0.024	1.4	4.5	0.9	3.9	1.2	44
L840433	2.5	0.39	16.7	0.29	17.3	0.053	2.63	10.1	4.03	2	1.4	68
L840434	2.5	38.9	3.9	1.94	38.4	1.835	1.9	8400	46.7	12.1	11	7040
M676908	2.5	1.87	28	0.19	63	0.045	54.4	44.8	11.05	1.1	0.8	70
M676909	5	2.52	145.5	2.43	9.5	0.256	0.49	88.1	57.3	58.6	1.5	121
M676910	2.5	3.46	146.5	11.9	14.5	0.028	0.66	80.2	16.45	12.8	0.7	80
M676911	2.5	17.65	181.5	40.6	27.2	0.028	1.37	440	89.7	95.1	0.5	37
M676912	2.5	0.29	16.1	0.49	11.6	0.02	1.45	11.6	1.03	4.3	1	46
M676913	2.5	24.2	54.8	252	21.6	0.182	2.26	225	44.7	6	1.9	891
M676914	78	982	24	1985	330	23.1	0.74	41800	107.5	41.8	1.3	97300
M676915	52	14.45	502	2.86	49.4	1.815	1.18	7570	3400	29.8	0.8	9790
M676916	2.5	2.11	15	3.29	9.8	0.069	1.52	102	6.76	1.5	1	165
M676917	2.5	16.65	311	46.2	39	1.965	1.43	95.9	33.3	45.1	0.3	463
M676918	2.5	0.91	12	1.56	21.4	0.029	2.03	29	2.78	6.8	2.1	630
M676919	2.5	10.95	223	24.5	39.9	1.87	0.91	56.6	18.85	22.9	0.2	1200
M676920	2.5	0.32	5.7	0.49	34.3	0.066	0.61	6.4	1.28	2.1	0.7	53
M676921	2.5	0.83	27.7	2.54	40.8	0.088	0.41	10.2	3.09	27.6	1.3	68
M676922	2.5	0.36	13.7	0.38	22.9	0.035	1.96	23.3	4.19	1.5	0.8	84
M676923	2.5	0.22	10.6	0.39	35.3	0.019	4.03	17	2.63	1.9	1.1	51
M676924	2.5	16.1	449	3.9	42.6	0.579	3.94	1075	27.4	8.3	1	630
M676925	2.5	5.98	193.5	2.15	11.4	1.07	0.43	232	12.7	35	0.1	148
M676926	2.5	0.46	4.9	0.53	13.5	0.012	1.62	20.6	2.11	2	0.7	22
M676927	6	29.5	19.2	0.08	618	0.072	0.21	400	301	1.3	0.6	304400
M676928	2.5	2.41	15.6	0.18	48.5	1.505	0.83	11	5.05	2.2	0.5	30200
M676935	2.5	1.1	135.5	9.05	107	0.432	59.1	15.9	10.9	5.6	2.1	713
M676936	2.5	0.35	2.7	1.48	37	0.008	3.13	11.4	2.93	2.5	0.4	19
M676937	2.5	1.05	2	5.84	42.8	0.01	1.9	17.9	4.03	2.2	0.7	15
M676938	2.5	0.48	11.9	0.33	16.3	0.021	5.85	7	2.25	1.6	1	194
M676939	39	68.1	1440	332	148.5	0.023	28.1	166.5	30.9	5.4	1.9	476
M676940	2.5	2.52	53.3	22.1	45.9	0.032	8.07	52	8.83	3.3	0.9	223
M676941	2.5	0.57	3.7	0.95	18.7	0.009	0.82	10.6	1.63	1.6	0.6	13
M676942	2.5	0.94	16.6	4.88	34.9	0.007	0.64	13.6	2.18	2	0.6	42
M676943	22	6.61	3010	15.85	65.9	0.017	4.17	91.6	11.95	5.1	1.2	2410
M676101	2.5	0.05	7.3	0.21	5	0.066	1.37	33.8	0.49	10.8	2.9	63
M676102	2.5	0.04	8.7	0.32	4.1	0.059	2.79	33.8	0.97	9.6	4	60
M676103	2.5	0.02	2.1	0.26	7.1	0.064	2.06	29.9	0.44	9.2	2.7	62
M676104	2.5	0.05	2.1	0.3	3.1	0.061	2.09	30.7	0.64	9.4	2.6	53
M676105	2.5	0.01	1	0.2	2.5	0.052	1.41	39.3	0.18	17.3	4.1	51
M676106	2.5	0.12	3.1	0.82	8.5	0.073	4.12	42	0.4	13.2	3.5	107
M676107	2.5	0.03	2.3	0.22	5.6	0.08	4.06	39.8	0.4	12.8	3.5	100
M676108	2.5	0.5	4.1	0.23	28.9	0.007	5.88	12	2.52	1.2	0.4	19
M676109	2.5	0.13	19.3	0.13	6.1	0.04	1.68	45	2.12	9.8	6.2	65
M676110	2.5	0.23	10.1	0.24	3.1	0.069	2.76	55	1.77	10.8	4.2	59
M676111	2.5	1.57	24.9	0.1	62.4	0.015	45.1	27.7	7.27	1.5	1.2	31
K191861	2.5	2.81	91.1	0.08	373	0.027	2.2	123	62.5	5	0.7	3410
K191862	2.5	0.61	116.5	0.15	229	0.102	1.61	63.5	41.3	12	1.3	3700
M676045	7	0.6	7.2	0.14	15.4	0.017	1.06	22.2	5.24	1.6	0.8	7
M676046	6	14.15	91.8	0.05	82.9	0.378	1.51	580	54.4	8	0.6	33
M676047	9	0.92	2.6	7.77	123	0.022	0.65	11.3	3.76	19.3	0.9	38
M676048	2.5	0.02	50.3	0.24	4	0.051	1.09	2.9	1.51	4.3	1	5
M676049	2.5	0.32	4.2	5.25	92	0.012	0.45	11.2	2.34	11	2.6	82
M676050	27	1.6	3.5	37.1	322	0.026	0.71	13.6	5.35	7.4	0.4	24
M676052	6	0.7	3.8	10.55	181	0.023	0.55	11.6	4.01	13.2	0.8	37
M676053	8	0.59	15.1	11.65	148	0.019	0.53	13.4	5.54	14.5	2.5	59
M676054	2.5	0.77	1.9	0.1	9.5	0.013	0.51	38.6	2.66	2.3	1	8
M676060	2.5	0.06	28.2	0.49	3.5	0.0025	1.37	2.4	2.75	1.4	1.5	1
M676061	14	0.98	28.2	0.56	10.7	0.029	0.47	17.9	4.48	1.4	0.9	8
M676062	2.5	0.41	37.1	0.21	5.7	0.027	0.34	9.3	1.6	2.2	1.3	4
M676063	2.5	0.45	2.3	0.88	20.7	0.021	2.53	9.6	1.71	3	1.3	23
M676064	2.5	2.95	2.7	12.3	8.7	0.017	35	26.1	3.82	2.7	1.8	6
K191900	2.5	1.51	349	0.69	28.8	0.03	3.43	17.8	8.14	4.5	1.4	103
L840501	224	1050	10001	4660	202	8.57	30.6	21000	7970	501	4.9	288
L840502	2.5	10.55	679	10.15	9.7	0.389	0.34	3170	36.7	12.2	0.1	2330
L840503	116	19.85	1020	18.15	19	0.826	0.27	9990	4810	66.6	0.1	468
L840504	183	692	10001	5210	112.5	0.27	0.42	5740	2490	7.1	0.5	83
L840521	14	7.86	24	101.5	48.9	1.095	0.54	87.7	21.6	4.7	1.2	1960
L840522	6	2.51	1380	10.35	16.9	0.012	2.12	22.7	11.25	5.7	1.9	52
L840523	6	1.96	87.3	8.67	5.2	0.014	3.13	31.2	12.1	1.8	1.6	25
L840524	11	2.15	230	11.6	13.4	0.0025	4.48	27	6.56	1.2	0.5	34
L840525	19	3.33	315	31.2	3.1	0.005	0.97	73.9	3.77	3.9	3.5	8
L840526	2.5	0.49	58	14.2	32.7	0.185	4.66	6.4	6.52	4.8	1	33
L840527	6	1.37	42.2	10.9	30	0.055	18.55	18.1	10.7	9.3	1.9	37
L840528	2.5	73.8	755	15.15	30.5	2.22	0.45	7560	110.5	125.5	0.3	491
L840529	31	49.5	9900	53.4	6.6	0.915	0.23	2130	418	470	0.1	161
L840530	9	7.69	116	80.2	21.7	3.21	0.5	1690	1470	9.9	2.1	282
L840531	100	56.4	10001	330	171	0.331	1.23	592	624	8.5	1.8	138
L840532	2.5	3.03	397	14.15	17.7	0.879	0.47	91.6	41.5	8.6	0.2	145
L840533	2.5	8.75	543	7.37	12.8	0.556	0.85	1715	742	17.9	1.4	1120
L840534	2.5	51	85.1	21.6	61.6	1.68	1.48	3710	62.1	8.3	0.6	5910
M676077	2.5	0.43	2.2	1.98	12	0.0025	0.62	4.7	0.83	1.1	0.6	10
M676078	2.5	0.11	1.1	0.49	13.2	0.008	1.17	3.1	0.38	0.9	0.5	5
M676079	2.5	0.17	240	0.77	39.7	0.016	42.3	3.9	2.28	1.5	1.1	257
M676080	6	5.75	25.6	25.6	59.8	0.024	4	31.8	19.6	3.8	1	50
L840636	2.5	0.4	60.9	1.05	15.1	0.032	0.72	25.9	13.7	1.9	0.5	386
L840637	2.5	0.35	37	0.86	10.7	0.407	0.38	19.3	1.76	2.2	0.3	303
L840638	27	23.6	2720	20.5	128	0.513	28.1	3730	2230	70.5	4.1	339
L840640	12	23.8	5820	10.9	85.1	1.275	3.81	5550	1335	286	0.3	1600
L840642	2.5	0.43	93	0.89	18.4	0.028	0.21	26.9	1.39	5.2	0.3	22
L840643	2.5	0.9	9.2	2.16	36.4	0.329	0.23	12.5	2.74	31.3	2	200
L840644	277	43.4	10001	90.6	121	0.255	1.22	765	181	71	1.5	248
L840664	365	33.1	10001	116.5	43.5	0.369	1.24	104	239	12	6.2	93
L840665	73	34.2	10001	164	12.4	0.135	0.6	543	105.5	52.8	4.7	22
L840666	236	819	10001	2590	50	0.118	1.49	2210	482	18.3	30.7	30
L840667	110	43.4	10001	87.4	97.9	0.086	0.45	167	83.9	2.8	30.3	115
L840668	428	93.8	10001	188	33	0.132	0.62	467	185	36	0.7	16
L840670	196	1330	10001	79.8	212	9.17	6.97	108500	1435	110	0.7	381
L840673	165	707	10001	74.4	57.3	0.299	20.4	44400	916	27.2	0.8	176
L840674	1045	64.7	10001	10.5	89.6	0.623	16.15	2610	1025	103	1.7	153
I079070	2.5	0.54	33.2	1.5	18.3	0.015	0.87	14	1.23	2.5	0.95	20
I079071	21	13.1	4190	54.9	26.7	0.445	1.34	75.9	13.7	8	1.46	330
I079072	198	11.2	248	81.8	14.1	0.03	63.2	135.5	7.74	8	4.32	26
I079073	68	23.6	323	171	32.7	0.118	38.4	112.5	14.45	11	3.05	28
I079074	132	7.54	213	50.9	17.2	0.08	1.9	3820	1250	10	0.53	51
I079075	2.5	4.64	89.4	21.8	25.3	0.071	36.5	34.1	4.27	9	1.02	14
I079076	2.5	0.45	4.3	10.95	51.2	0.01	1.8	15.3	3.33	11	1.21	10
I079077	10	1.29	2.6	19.05	56.3	0.011	0.69	20.9	3.82	10	5.36	8
I079078	2.5	2.39	5.7	30.1	298	0.051	5.94	19.9	2.05	8	1.85	259
G285815	1	0.22	68.8	1.06	15.8	0.01	2.25	11.3	1.9	5	0.28	105

SILVER RANGE RESOURCES LTD.

FIGURE 92

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

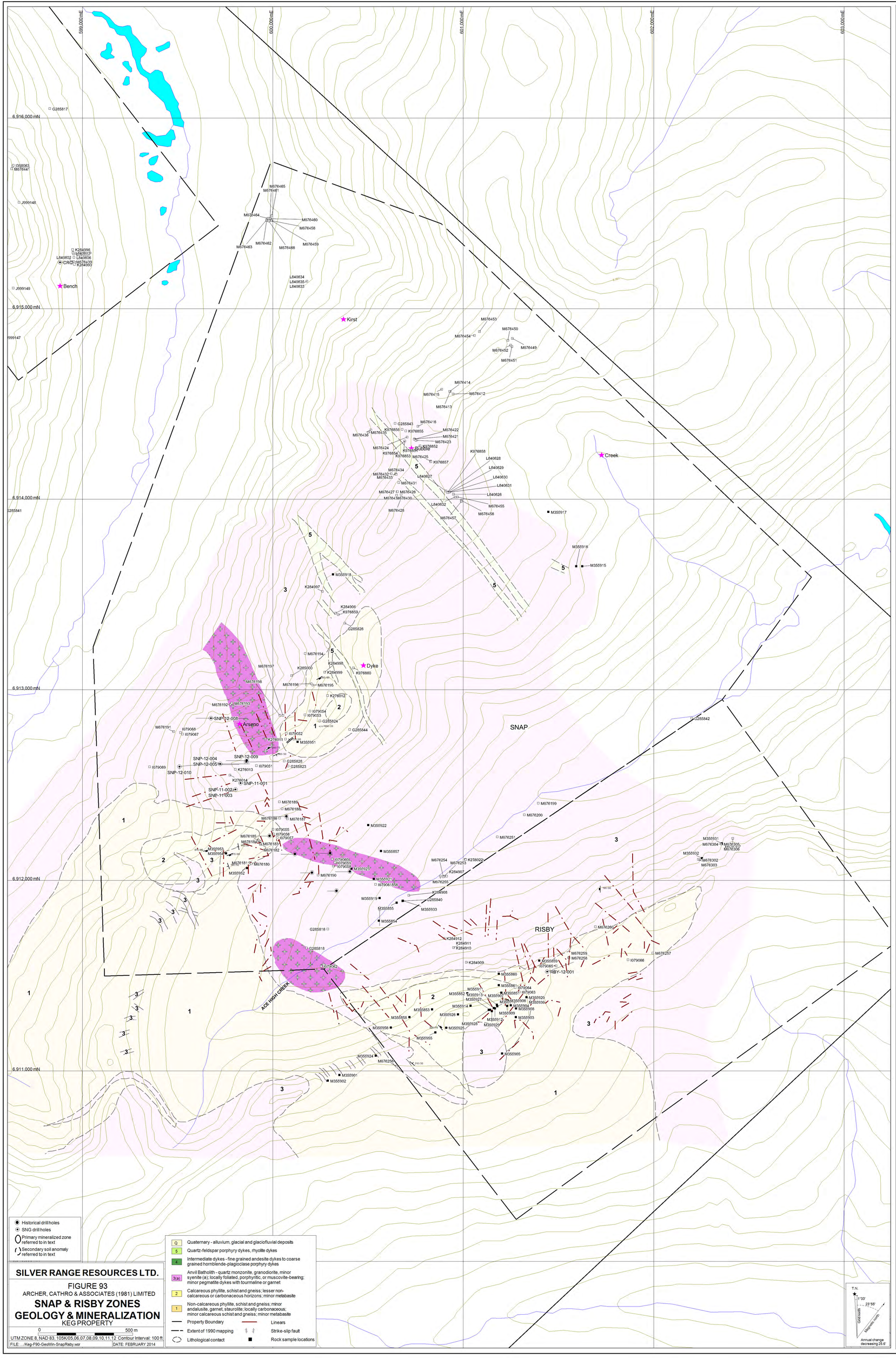
CIRQUE ZONE
GEOLOGY & MINERALIZATION

KEG PROPERTY

0 125 250 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F87-GeoMin-Cirque.wor DATE: DECEMBER 2013



SILVER RANGE RESOURCES LTD.

FIGURE 93

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SNAP & RISBY ZONES

GEOLOGY & MINERALIZATION

KEG PROPERTY

0 500 m

UTM ZONE 8, NAD 83 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F90-GeoMin-SnapRisby.wor DATE: FEBRUARY 2014

Snap & Risby Zones Rock Geochemistry

Sample #	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)	Cu (ppm)	In (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Sn (ppm)	W (ppm)	Zn (ppm)
M355851	2.5	0.02	4.3	0.18	5.2	0.034	0.25	18.5	0.15	0.7	0.5	38
M355852	2.5	0.2	14	2.09	4.2	0.082	0.5	20.5	2.46	56.7	10.1	229
M355853	2.5	0.12	4.8	0.32	271	0.058	9.8	20.1	0.19	12	1.3	50
M355854	37	41.6	1420	0.61	147	3.11	0.96	9300	55.5	75.7	9.5	21600
M355855	463	43.9	10001	0.24	153	18.7	0.41	7560	328	114	3.7	18400
M355856	882	5.74	10001	3.44	17.4	1.08	1.51	664	286	22	0.9	1680
M355857	145	6.65	1860	3.55	26.3	0.386	3.34	1130	20.8	36.1	1.9	338
M355858	2.5	0.15	7.5	0.69	25.1	0.1	0.65	30.6	0.82	22.2	31.3	139
M355859	467	13.55	4280	0.34	31.1	0.043	0.14	63.4	95.6	6.7	2.3	1540
M355860	144	245	3900	0.45	202	0.008	0.22	8380	215	212	2.3	3140
M355861	12	1.76	350	0.73	5	0.028	3.2	93.1	13.55	24.7	2.3	81
M355901	2.5	0.82	11.2	0.3	8.1	0.012	0.31	36.2	0.89	3	0.2	38
M355902	2.5	0.21	4.1	0.44	36	0.015	0.54	10.7	0.19	1.2	0.7	80
M355903	2.5	0.21	2.5	0.56	98.9	0.056	1.87	16.2	0.11	5.6	0.7	80
M355904	2.5	0.26	3.3	1.14	155.5	0.077	1.48	13.5	0.41	22.1	6.4	124
M355905	2.5	0.005	1.8	0.57	67.5	0.106	2.1	8.2	0.15	13.8	1.7	96
M355906	2.5	0.05	2.5	2.43	14	0.075	2.28	4.4	1.65	51.1	17.1	190
M355907	2.5	1.74	263	0.62	64.7	0.032	10.65	46.4	3.18	2.9	1.7	42
M355908	2.5	0.26	2.5	0.95	65.7	0.086	7.2	18.3	5.56	58.4	17.8	238
M355909	2.5	0.08	1.2	0.39	122.5	0.063	3.42	17.2	0.45	6.8	1	58
M355910	2.5	0.14	681	0.73	121	0.079	1.25	23.5	0.61	11.7	16.2	109
M355911	2.5	0.02	6	0.96	2.5	0.092	0.69	7.5	1.37	67.8	31.4	147
M355912	2.5	0.13	7.4	0.92	66.1	0.078	8.44	16.5	0.61	14.4	26.3	232
M355913	2.5	0.08	2.5	0.92	3.9	0.072	0.41	5.1	1.02	48.1	60.3	137
M355914	2.5	0.27	5	2.13	174.5	0.095	1.9	18.2	0.25	18.5	3.8	97
M355915	103	2.55	402	0.82	10.4	0.101	3.19	242	31.3	28.4	161.5	61
M355916	969	20.7	5400	0.42	279	0.209	0.31	4390	186.5	268	42.2	5020
M355917	5	1.62	541	0.44	15.4	0.449	0.33	912	6.48	17.9	2.4	190
M355918	162	51.3	886	112	63.1	1.465	1.19	1700	22.1	40.7	148	249
M355919	64	47.9	2170	0.21	155.5	1.62	0.2	8860	70	11	6.7	6360
M355920	35	131	2820	0.58	41.5	12.35	0.21	45000	154.5	85.7	11.5	9840
M355921	301	244	10001	5.23	225	4.07	0.26	106000	367	214	2.3	3140
M355922	6	2.54	370	1.56	10.9	0.068	0.76	585	4.82	21.3	3.5	327
M355923	914	79	10001	0.55	1350	63	0.21	26600	295	500.5	4	127500
M355924	2.5	0.27	2.4	0.25	82.1	0.024	19.9	8.1	0.11	3.1	2.1	84
M355925	2.5	1.56	0.9	0.3	214	0.043	12.35	24.1	0.07	1.1	1	128
M355926	2.5	0.07	0.1	0.71	154.5	0.087	2.35	15	0.07	6.9	3.6	85
M355927	2.5	0.03	9	1.45	10.7	0.077	0.94	7.2	0.5	51.5	7.9	136
M355928	2.5	0.005	2.5	0.51	11.1	0.07	0.67	6.1	0.22	33.2	15	121
M355929	2.5	0.03	2.5	2.31	5.6	0.074	1.05	9.1	0.87	37.3	52.6	138
M355930	2.5	0.005	2.5	0.62	5.2	0.071	0.8	7.1	0.51	39.2	22	124
M355931	2290	1880	10001	0.89	403	0.123	0.22	9320	5250	59.5	3.2	2770
M355932	590	18.9	5470	0.35	45.7	0.107	0.14	273	143	17.1	5.7	1120
M355933	722	29.3	10001	0.13	110	8.81	0.16	677	285	33.2	1.6	47600
M355951	10	4.53	322	4.51	38.4	0.357	1.5	366	5.63	18.2	3.8	859
M355952	220	18.55	10001	0.36	373	1.055	0.3	1470	114	51.4	1.5	21700
M355953	27	0.5	62	248	178	22.8	0.83	21.2	0.96	130.5	7190	4800
M355954	2.5	0.15	45	3.6	5.3	0.253	0.18	30.3	1.38	65.9	142.5	307
M355955	2.5	0.33	56	0.17	11.7	0.074	0.52	11.5	1.49	10.4	2.8	180
M355956	2.5	0.94	122	0.23	98.9	0.854	0.2	19.2	3.35	47.9	1.6	1960
M676180	627	58.3	6700	0.24	469	1.095	0.37	11050	158	303	4.5	2560
M676181	1155	21	10001	0.79	5.8	0.095	0.37	130	149	15.3	1.4	298
M676182	9	8.98	502	1.9	10.7	0.323	0.38	1565	18.05	24.3	1.8	75
M676183	2.5	0.25	82.3	2.67	3	0.026	0.25	40.8	1.11	16.7	1.7	20
M676184	257	13.35	9180	0.1	219	5.63	0.32	2740	110	76.8	4.9	1580
M676185	1360	270	10001	3.97	2150	8.3	0.81	72600	421	230	92.6	16400
M676186	617	19.7	10001	0.56	77.5	0.509	0.41	2330	168.5	96.7	2.3	583
M676187	97	50.7	9460	0.44	32.7	0.598	0.36	9540	164	57.8	3	588
M676188	5640	39	10001	0.11	111.5	2.01	0.32	5550	1420	161	1.7	828
M676189	5	1.5	367	0.08	2.3	0.011	0.22	72.4	3.31	1.9	1.5	8
M676190	810	69.8	10001	0.23	415	0.425	0.23	18950	428	72.8	2.3	9300
M676191	751	1.92	10001	0.27	20.4	0.051	0.4	220	119.5	18.2	39.8	280
M676192	786	26.7	10001	0.27	123.5	3.85	0.38	6240	326	62.1	3.2	1970
M676193	544	47.2	10001	0.56	709	14.2	0.37	17300	387	183	3	16950
M676194	174	8.14	4980	0.97	289	7.07	12.05	4000	48	32.3	2.9	680
M676195	51	5.1	3590	1.18	183.5	4.91	1.12	1675	28.4	44.3	2	5780
M676196	2.5	37.7	107	84.1	35	0.186	3.13	2470	5.12	4.9	1.1	230
M676197	8	1.02	38.5	42.8	3.8	0.064	0.38	30.1	1.37	0.9	0.4	20
M676198	58	27.8	2560	1.73	180	0.637	0.43	5570	130	122	4.7	5820
M676199	10	6.4	720	1.9	88.4	0.501	0.91	1240	17.3	58.8	1.9	8710
M676200	2.5	0.6	28.8	0.88	4	0.069	3.23	60.6	1.58	21.9	6.2	65
M676251	12	19.2	1260	3.1	54	3.17	0.74	3560	29.9	204	6.6	7020
M676252	765	351	10001	0.32	901	1.74	1.12	71100	535	640	4.3	48400
M676253	108	0.91	4820	0.11	3.6	0.085	0.3	236	52.7	14.8	0.7	249
M676254	112	9.22	3340	1.72	44.3	1.835	0.64	1740	39.7	129	4.4	3690
M676255	802	170	10001	0.13	308	3.14	0.31	45900	639	178.5	1.9	40700
M676256	199	30.6	10001	0.26	257	9.07	0.27	5010	110	248	11.6	14500
M676257	2.5	5.52	42.5	3.03	2.5	0.025	0.34	84.7	14.05	9.3	0.7	13
M676258	9070	409	10001	0.32	313	1.23	0.28	1940	1635	52	0.8	2020
M676259	2120	838	10001	0.32	620	5.41	0.21	6880	2900	275	6.5	20600
M676260	128	14.3	5040	1.89	7.8	0.131	0.68	2220	92.8	26.5	1.4	948
M676412	13	23.3	14.1	109	16.9	0.542	6.34	634	5.31	4.1	0.3	21
M676413	9	13.85	127	13.2	2180	2.37	0.93	6790	67.6	176.5	6.3	170
M676414	2.5	8.88	47.4	16.85	49.8	0.691	9.66	2330	7.29	19.5	1.1	55
M676415	2.5	8.99	4.5	19.65	19.4	0.204	27.9	440	2	7	0.8	44
M676416	2.5	3.23	21	1.01	47.9	7.16	1.65	729	10.95	93.7	8.2	824
M676421	2.5	7.99	56.4	4.79	72	2.27	0.76	1030	11.35	51.7	4.1	368
M676422	2.5	6.04	63.2	6.71	111.5	11.7	0.64	907	12.3	60.8	7	883
M676423	2.5	3.26	20.9	2.15	57.1	2.85	3.12	422	12.5	73.7	13.2	871
M676424	2.5	1.55	24.9	1.35	25.5	2.36	0.48	333	6.57	58.6	7.2	105
M676425	6	48.4	72.7	47.8	1935	34.1	0.39	770	31.9	281	5.6	2740
M676426	7	52.4	81.2	46.9	1310	10.8	0.35	1750	60.8	235	2.5	1720
M676427	2.5	13.8	96.1	11.55	1160	7.94	0.74	806	48.6	135	3.1	1240
M676428	12	23.1	142.5	18.3	2230	5.67	0.74	1960	97.1	231	3.4	817
M676429	2.5	5	9.3	1.67	174.5	3.06	0.34	164.5	7.01	16.2	0.6	2060
M676430	2.5	1.05	8	0.81	23	0.075	0.2	122	1.22	6	0.2	152
M676431	17	94.2	128.5	122	5080	60.5	0.5	3910	56.3	317	8.2	19700
M676432	2.5	0.84	4	1.05	30.5	2.55	1.41	88.7	1.18	13.2	0.9	124
M676433	2.5	3.23	8.1	3.85	39.3	2.42	2.37	1000	6.68	19.2	0.9	232
M676434	2.5	1.56	11.1	0.75	68.6	1.075	1.04	326	8.11	130	7.6	143
M676435	2.5	1.27	16.9	1.86	26	0.894	1.2	183	9.89	28	3.1	28
M676436	105	0.56	1520	0.18	130.5	0.649	0.17	38.3	35.3	34.7	1.3	19
M676449	27	3.55	10.6	61.9	5.9	0.019	0.26	89.9	8.49	7.1	3.4	94
M676450	9	13.9	40	2.7	180	0.252	0.21	4120	45.7	22.5	1.7	815
M676451	31	21.7	1035	6.3	492	1.72	0.9	7880	79.2	87.6	3.5	998
M676452	45	75	1330	37.3	1155	4.62	1.11	26600	152	200	3.9	1340
M676453	396	2.16	1905	0.47	80.1	1.675	0.41	575	45.4	27	1.7	560
M676454	7	31.3	114.5	40.5	227	2.89	3.07	2340	13.6	13.8	1	82
L840626	5	32.1	41.9	40.8	370	10.85	0.55	423	16.85	10900	8.3	1520
L840627	2.5	5.83	10.6	3.63	160	7.35	0.98	571	16.35	120	8.8	581
L840628	5	8.37	28.1	9.4	344	13.3	0.51	314	14.95	395	8	965
L840629	2.5	3.93	19.3	4.6	177.5	7.71	0.6	381	10.35	175.5	5.7	646
L840630	2.5	13.05	17.4	14.4	243	15	0.47	196.5	7.18	460	9.5	779
L840631	2.5	5.54	23.1	7.05	148	10.75	2.06	805	16.5	222	8.8	422
L840632	2.5	10.2	38.9	15.55	176.5	5.29	1.99	227	5.65	1660	10.6	575
L840633	2.5	15	76.8	2.28	226	6.79	0.23	10050	22.9	36.5	4.8	14000
L840634	2.5	4.85	34.7	6.35	29	0.122	0.27	666	6.58	28.5	2.2	249
L840635	230	1.11	2520	0.5	15.4	0.073	0.93	167	49.4	13.5	2.6	253
M676455	6	15	126.5	23.7	423	5.93	1.05	490	6.43	154.5	11.1	1400
M676456	2.5	3.91	34.3	2.45	23.5	0.845	0.57	389	12.35	87.4	8	310
M676457	2.5	9.77	2.8	16.05	9	0.122	2.74	115.5	2.11	7	0.6	15
M676458	2.5	31.2	46.6	2.19	387	9.69	0.81	17700	36.1	101.5	3.8	26100
M676459	2.5	7.89	20.9	1.73	322	3.49	1.3	3550	11.3	49.8	5.4	3400
M676460	45	178	51.1	1.72	346	4.72	0.37	109000	150	63.9	2.6	32600
M676461	8	367	46.1	0.82	692	4.29	0.43	292700	414	165	1.7	63700
M676462	606	6.92	4980	0.21	57.2	0.867	0.62	927	37.7	24.2	2.7	1000
M676463	1605	83.4	10001	4.34	1230	1.285	0.39	46600	200	32.6	2.5	8310
M676464	397	11.2	5080	2.09	496	1.2	0.64	4060	51.6	35.6	4.9	4250
M676465	12	101	747	291	134.5	4.34	1.35	3820	9.3	10.1	0.9	302
M676466	14	11.8	384	22.2	83.8	0.562	0.33	1425	4.09	7.9	2	1470
M676302	630	144	3090	0.93	65	0.125	0.23	620	261	21	3.4	1880
M676303	63	6.43	769	1.41	11.4	0.013	0.36	615	46	23.7	1.9	131
M676304	810	2560	4680	0.93	295	0.061	0.25	14500	8100	80.8	2.6	2160
M676305	1905	615	10001	0.69	135	0.133	0.19	3930	2160	44.6	3.7	1870
M676306	3430	3870	10001	2.98	1020	0.232	0.14	17650	5980	77.4	0.5	3720
M676307	1465	394	10001	1.29	258	0.039	0.3	1835	1065	21.5	5.1	103
K276022	809	267	10000	0.28	1035	2.29	0.37	52700	415	731	3.66	52100
I079053	6830	396	10000	21.1	70.5	0.38	0.13	49700	1600	35	2.5	214
I079052	93	59.1	8670	0.45	110	0.141	0.16	14200	77	97	0.44	9810
I079053	6	1.99	340	0.54	3.1	0.086	0.22	318	5.28	13	0.27	22
I079054	2.5	0.48	53.5	0.49	2.8	0.008	0.23	95.2	1.28	7	0.09	27
I079055	6	6.28	909	1.62	7.9	0.107	0.18	1765	9.26	57	0.78	45
I079056	5	5.52	599	0.74	26.4	0.054	0.19	1530	7.06	55	0.69	49
I079057	30	47.1	3280	0.35	83	0.69	0.23	6700	76.9	47	0.88	5440
I079058	10	8.61	2380	0.2	50.7	0.162	0.16	3090	13.5	78	0.71	1330
I079059	43	14.35	3460	0.18	111.5	0.611	0.17	4430	30.3	52	2.6	3290
I079060	24	24.3	1700	0.96	152	1.365	0.21	7630	38.8	59	1.43	9780
I079061	3050	16.25	10000	0.09	856	2.47	0.49	406	459	500	4.54	26900
I079062	2.5	7.89	45.5	12.3	36.5	0.012	1.92	223	5.83	12	0.49	63
I079063	2.5	0.23	61.5	1.17	28.3	0.051	0.51	10.1	1.06	22	0.14	210
I079064	2.5	0.26	10	0.77	10.9	0.01	0.11	28.9	0.5	13	0.1	59
I079067	23	3.47	77.3	1.2	4.9	0.017	0.42	43.7	3.2	21	14.75	30
I079068	308	16.75	9090	25.8	83.5	4.99	0.96	382	27.1	34	2.53	6450
I079069	246	29.7	10000	0.79	13	0.307	0.12	3320	106	21	4.24	2170
K284907	7	2.83	36.5	3.87	7.3	0.017	0.62	195	3.39	36	0.31	31
K284908	12	11.75	985	2.2	47	2.48	0.49	2870	15.2	162	0.66	4790
K276011	310	3.64	10000	1.37	46.5	0.02	0.29	320	134.5	35	1.04	330
K276012	1945	168	10000	3.04	624	1.53	0.36	68500	818	48	0.99	1310
K276013	34	0.62	5580	0.14	6.9	0.0025	0.13	58.5	9.39	5	0.24	47
K276014	101	1210	5570	2.42	542	0.342	1.2	3240	672	89	1.11	1000
G285840	125	18.55	10000	0.13	124.5	7.33	0.28	690	228	34	1.2	34000
G285842	166	35.3	10000	0.34	92.1	0.661	0.52	2150	162	55	5.11	14300
G285843	5	0.87	354	0.08	124.5	3.12	0.2	87	2.1	32	1.89	2920
G285844	3	1.63	114	0.49	5.9	0.186	2.48	457	2.91	23	3.04	396
G285816	115	24.2	7700	0.17	5.4	0.077	0.15	56.1	43.1	17	2.3	811
G285818	253	2.76	10000	0.06	24.7	2.56	0.19	147	186.5	54	0.61	4320
G285823	0.5	0.04	6.1	0.4	8	0.005	0.18	11.7	0.17	2.5	0.13	62
G285824	11	3.56	164	2.01	14.1	0.06	0.26	1470	7.01	15	0.32	23
G285826	16	31.5	105	9.33	403	18.25	1.03	12650	50.3	1675	1.42	14950
G285828	1	0.35	2	1.65	142	0.104	5.93	62.7	0.22	42	2.03	196
K976851	2.5	2.78	38.5	2.61	54.9	10.05	0.44	658	4.35	521	0.44	632
K976852	2.5	1.71	19.3	2.05	33.9	5.75	0.93	215	2.74	295	0.55	1630
K976853	2.5	3.46	17.6	1.95	42.9	6.79	0.59	786	4.04	326	0.71	740
K976854	2.5	1.24	22.5	1.42	44.1	3.07	0.3	467	2.81	185	0.49	1030
K976855	11	65.3	100	41.6	2200	8.98	0.3	5710	36.2	399	0.58	2990
K976856	2.5	9.81	30.8	5.11	202	3.85	0.26	778	8.78	599	0.69	651
K976857	9	61.9	68.9	72.3	2960	47.5	0.4	1405	29.1	746	0.53	9480
K976858	2.5	5.93	12.2	9.27	205	4.85	1.75	515	2.31	10000	2.11	510
K976859	2.5	11.65	65.2	2.14	91.7	2.11	0.26	8110	44.5	749	0.91	2070
K976860	35	50.5	4610	0.67	286	3.09	1.1	26300	64.2	81	1.76	9360
K284997	2.5	6.01	4.8	8.98	44.7	1.59	3.46	971	1.5	75	0.94	224
K284998	2.5	0.54	40.3	0.98	16.7	0.414	0.32	265	1.26	17	0.65	381
K284999	8	348	99.1	646	37.6	2.13	0.75	18850	5.87	32	0.12	8200
K285000	2.5	3.66	4.4	10.8	5.7	0.14	12.85	379	0.62	14	0.41	46
K284906	43	28.6	283	12.3	401	8.08	0.58	16200	72.3	5010	1.14	6180
I079065	8820	767	10000	0.81	193	0.273	0.23	3870	1345	80	9970	188
I079066	14	10.75	66.8	0.7	14	0.033	0.33	198.5	8.62	12	5.05	48
K284912	2.5	1.63	109.5	0.6	11.5	0.013	0.52	69.1	2.94	35	8.45	190
K284910	59	0.5	0.8	68.6	381	0.046	2.14	21	0.09	49	3100	208
K284911	26	0.43	0.6	33.8	409	0.075	1.84	10.4	0.07	60	164	64
K284909	6	0.32	10	3.8	72.4	3.19	0.12	47.3	0.19	35	52.7	5190

Q Quaternary - alluvium, glacial and glaciofluvial deposits

5 Quartz-feldspar porphyry dykes, rhyolite dykes

4 Intermediate dykes - fine grained andesite dykes to coarse grained hornblende-plagioclase porphyry dykes

3(a) Anvil Batholith - quartz monzonite, granodiorite, minor syenite (a); locally foliated, porphyritic, or muscovite-bearing; minor pegmatite dykes with tourmaline or garnet

2 Calcareous phyllite, schist and gneiss; lesser non-calcareous or carbonaceous horizons; minor metabasite

1 Non-calcareous phyllite, schist and gneiss; minor andalusite, garnet, staurolite; locally carbonaceous; minor calcareous schist and gneiss; minor metabasite

Property Boundary

Extent of 1990 mapping

Lithological contact

599000mE 600000mE 601000mE 602000mE

6915000mN 6914000mN 6913000mN 6912000mN

Bench Kirst Bubble Creek Dyke Arseno mKs

SNAP RISBY

Silver (ppm)

- ≥ 10
- ≥ 5.0 < 10
- ≥ 2.0 < 5.0
- ≥ 1.0 < 2.0
- ≥ 0.5 < 1.0
- 0 < 0.5

Historical drill holes

SNG drill holes

SNG soil sample (2010-2013)

SNG stream sediment sample

Historical soil sample

Historical stream sediment sample

Sample - No value reported or not analyzed for this element

Primary mineralized zone referred to in text

Secondary soil anomaly referred to in text

SILVER RANGE RESOURCES LTD.

FIGURE 94

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SNAP & RISBY ZONES
SILVER SOIL GEOCHEMISTRY

KEG PROPERTY

0 250 500 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F91-Geochem-Soils-SnapRisby-Ag.wor DATE: FEBRUARY 2014

T.N. 1°33' 23°55' Grid north Magnetic north

Annual change decreasing 25.6'

599000mE
600000mE
601000mE
602000mN
6915000mN
6914000mN
6913000mN
6912000mN
Bench
Kirst
Bubble
Creek
Dyke
Arsepo
mKs
SNAP
RISBY
6.000
6.500

Q Quaternary - alluvium, glacial and glaciofluvial deposits
5 Quartz-feldspar porphyry dykes, rhyolite dykes
4 Intermediate dykes - fine grained andesite dykes to coarse grained hornblende-plagioclase porphyry dykes
3(a) Anvil Batholith - quartz monzonite, granodiorite, minor syenite (a); locally foliated, porphyritic, or muscovite-bearing; minor pegmatite dykes with tourmaline or garnet
2 Calcareous phyllite, schist and gneiss; lesser non-calcareous or carbonaceous horizons; minor metabasite
1 Non-calcareous phyllite, schist and gneiss; minor andalusite, garnet, staurolite; locally carbonaceous; minor calcareous schist and gneiss; minor metabasite
Property Boundary
Extent of 1990 mapping
Lithological contact

Lead (ppm)
≥ 1000
≥ 500 < 1000
≥ 200 < 500
≥ 100 < 200
≥ 50 < 100
0 < 50

Historical drill holes
SNG drill holes
SNG soil sample (2010-2013)
SNG stream sediment sample
Historical soil sample
Historical stream sediment sample
Sample - No value reported or not analyzed for this element
Primary mineralized zone referred to in text
Secondary soil anomaly referred to in text

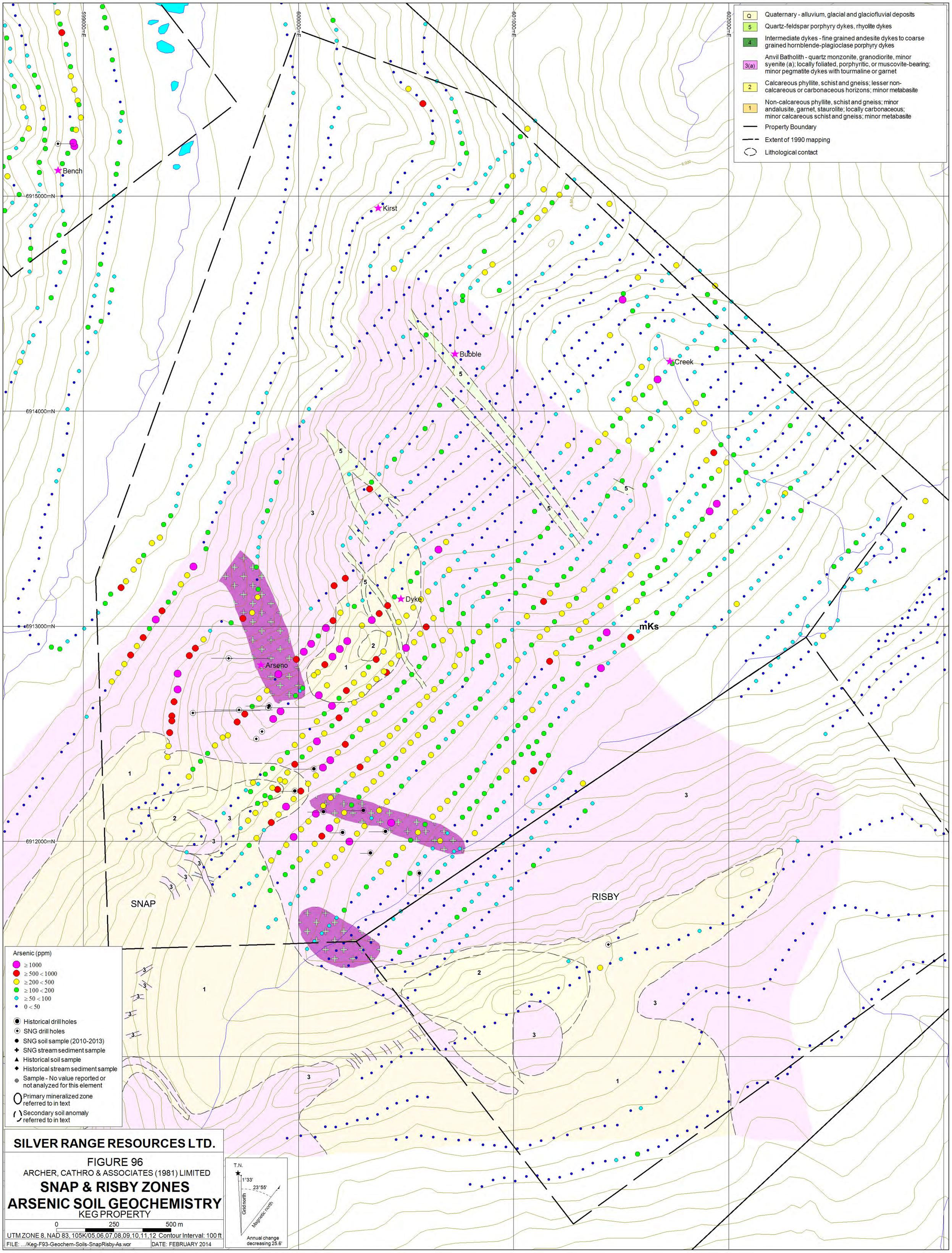
SILVER RANGE RESOURCES LTD.

FIGURE 95
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SNAP & RISBY ZONES
LEAD SOIL GEOCHEMISTRY
KEG PROPERTY

0 250 500 m
UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft
FILE: .../Keg-F92-Geochem-Soils-SnapRisby-Pb.wor DATE: FEBRUARY 2014

T.N.
1°33'
23°55'
Grid north
Magnetic north
Annual change decreasing 25.6'



SILVER RANGE RESOURCES LTD.

FIGURE 96

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

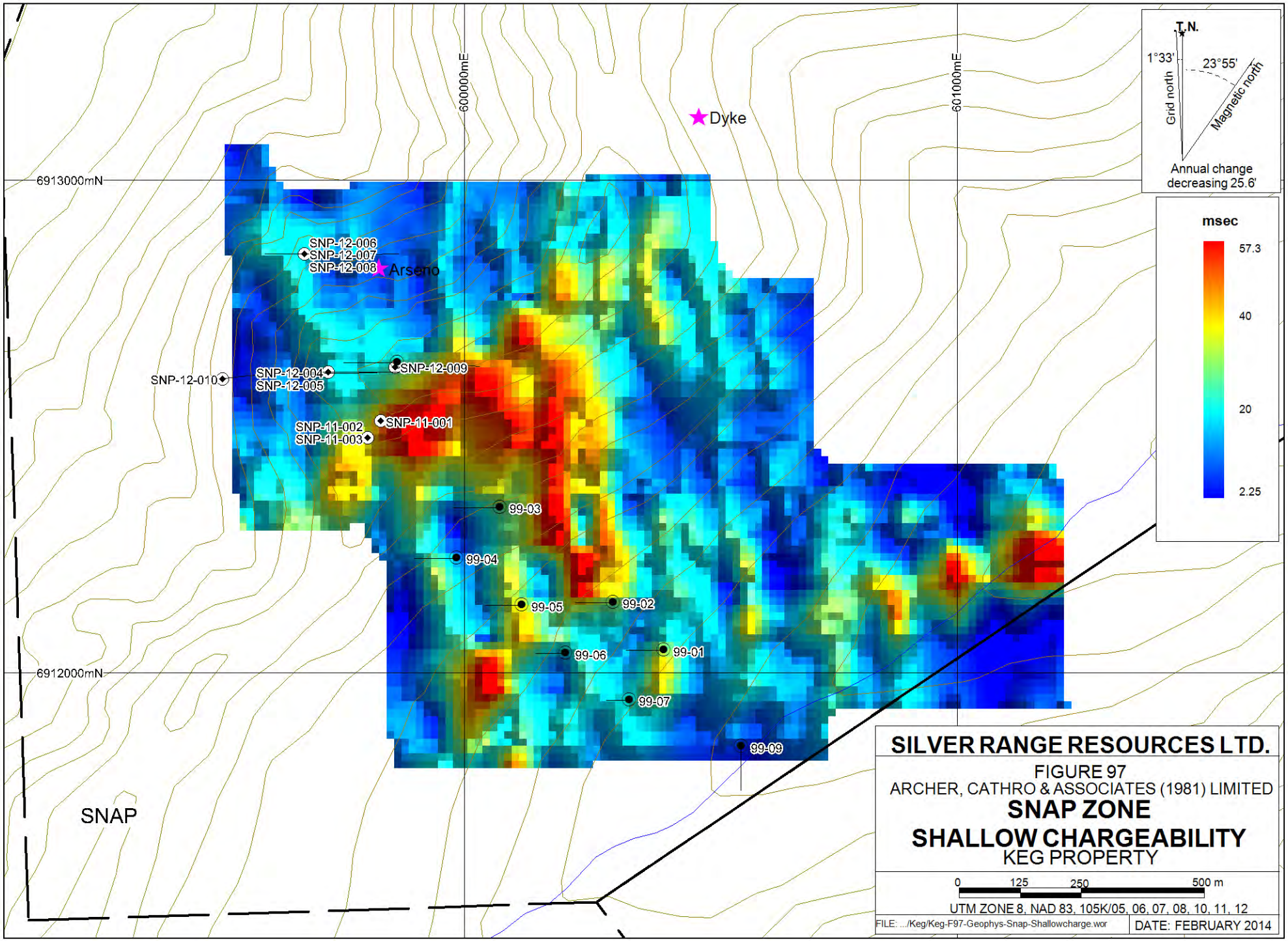
SNAP & RISBY ZONES
ARSENIC SOIL GEOCHEMISTRY

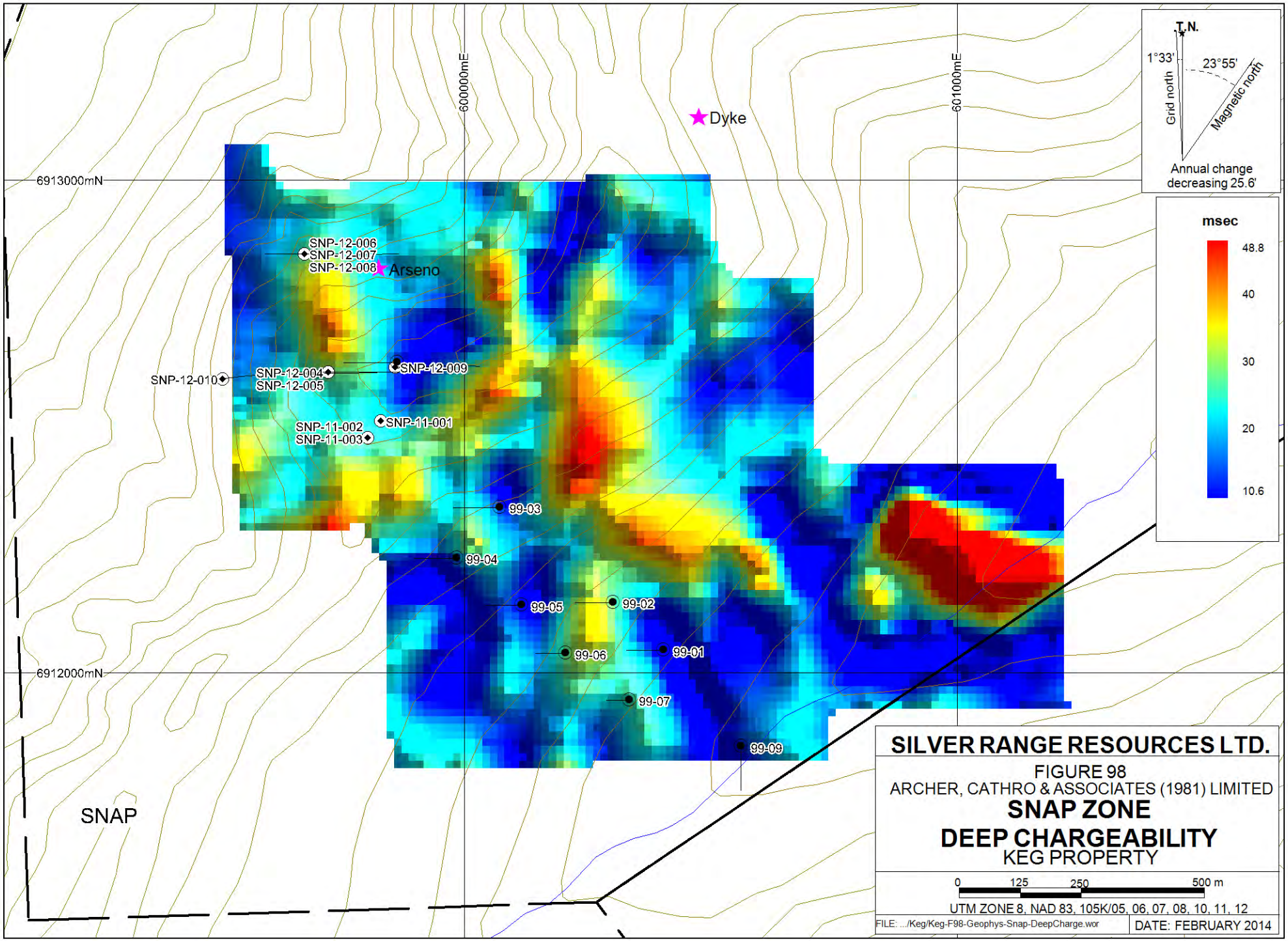
KEG PROPERTY

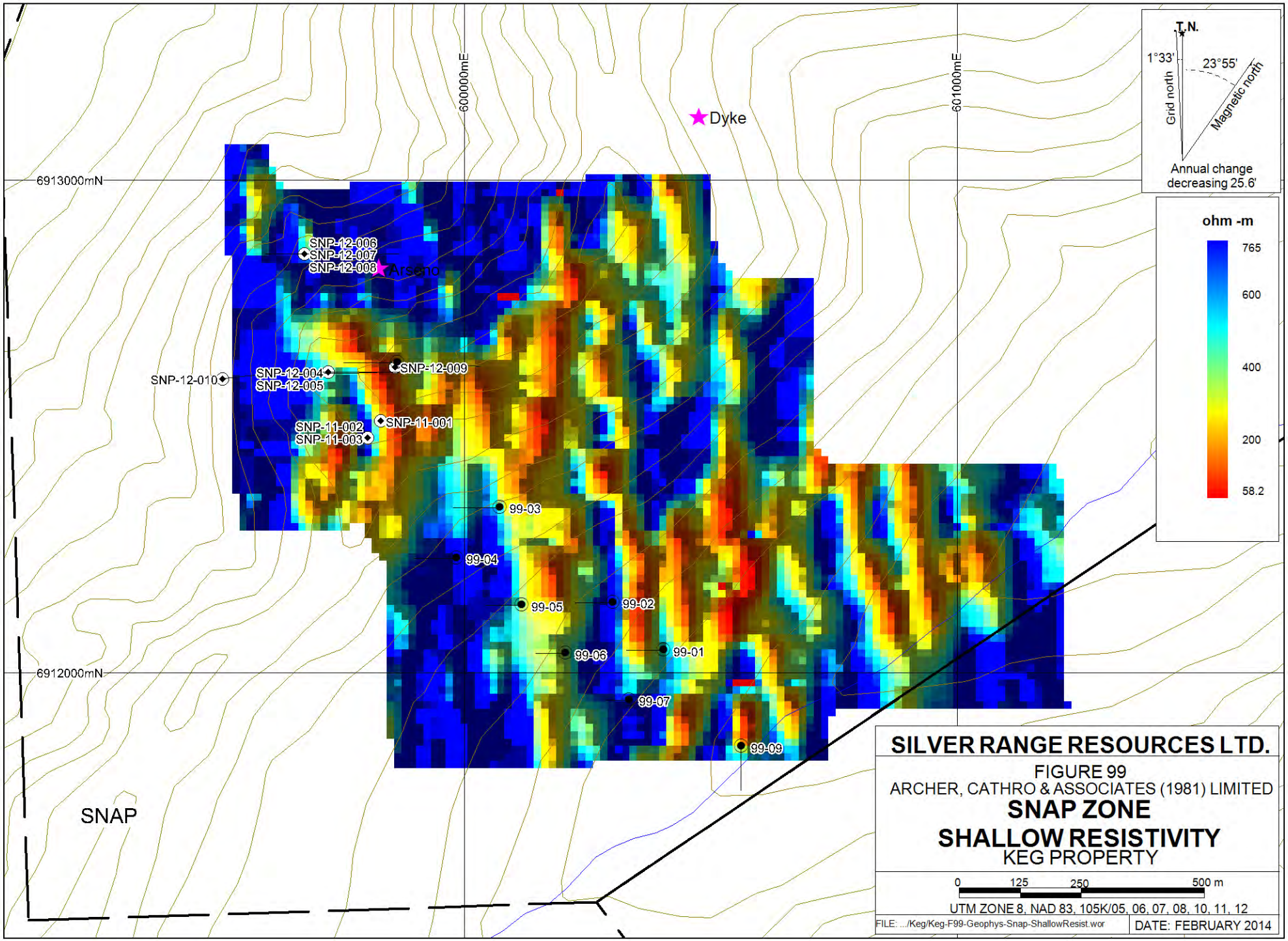
0 250 500 m

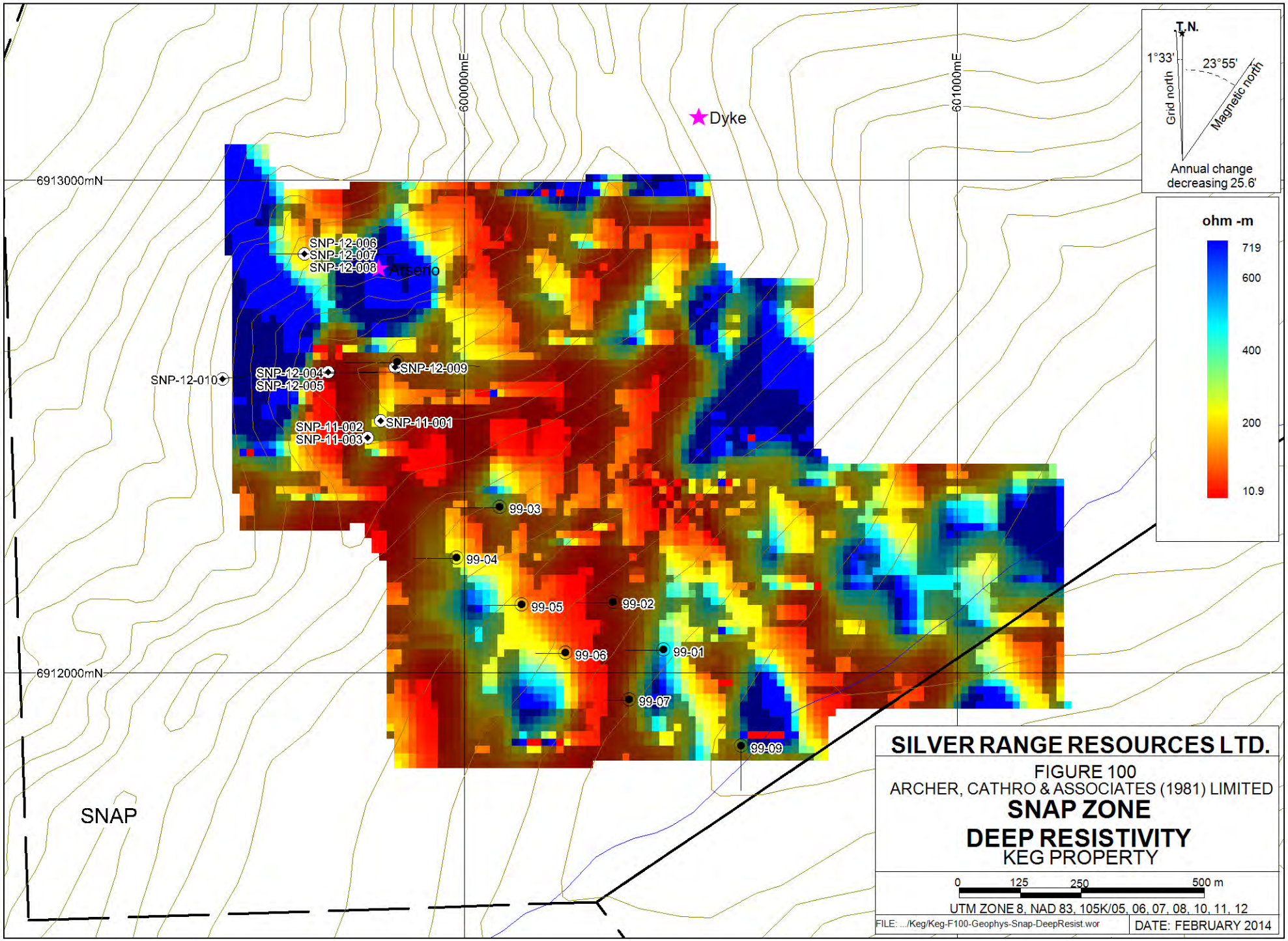
UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F93-Geochem-Soils-SnapRisby-As.wor | DATE: FEBRUARY 2014


600000mE
601000mE
6913000mN
6912000mN
Dyke
Arsenio
SNP-12-006
SNP-12-007
SNP-12-008
SNP-12-010
SNP-12-004
SNP-12-005
SNP-12-009
SNP-11-002
SNP-11-003
SNP-11-001
99-03
99-04
99-05
99-02
99-06
99-01
99-07
99-09
SNAP
T.N.
1°33'
23°55'
Grid north
Magnetic north
Annual change
decreasing 25.6'
msec
57.3
40
20
2.25
SILVER RANGE RESOURCES LTD.
FIGURE 97
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
SNAP ZONE
SHALLOW CHARGEABILITY
KEG PROPERTY
0
125
250
500 m
UTM ZONE 8, NAD 83, 105K/05, 06, 07, 08, 10, 11, 12
FILE: .../Keg/Keg-F97-Geophys-Snap-Shallowcharge.wor
DATE: FEBRUARY 2014


T.N.
1°33'
23°55'
Grid north
Magnetic north
Annual change
decreasing 25.6'
msec
48.8
40
30
20
10.6
600000mE
601000mE
6913000mN
6912000mN
Dyke
Arseno
SNP-12-006
SNP-12-007
SNP-12-008
SNP-12-009
SNP-12-010
SNP-12-004
SNP-12-005
SNP-11-001
SNP-11-002
SNP-11-003
99-03
99-04
99-05
99-02
99-06
99-01
99-07
99-09
SNAP
SILVER RANGE RESOURCES LTD.
FIGURE 98
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
SNAP ZONE
DEEP CHARGEABILITY
KEG PROPERTY
0
125
250
500 m
UTM ZONE 8, NAD 83, 105K/05, 06, 07, 08, 10, 11, 12
FILE: .../Keg/Keg-F98-Geophys-Snap-DeepCharge.wor
DATE: FEBRUARY 2014


T.N.
1°33'
23°55'
Grid north
Magnetic north
Annual change decreasing 25.6'
ohm -m
765
600
400
200
58.2
600000mE
601000mE
6913000mN
6912000mN
Dyke
Arsenio
SNP-12-006
SNP-12-007
SNP-12-008
SNP-12-009
SNP-12-010
SNP-12-004
SNP-12-005
SNP-11-001
SNP-11-002
SNP-11-003
99-03
99-04
99-05
99-02
99-06
99-01
99-07
99-09
SNAP
SILVER RANGE RESOURCES LTD.
FIGURE 99
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
SNAP ZONE
SHALLOW RESISTIVITY
KEG PROPERTY
0 125 250 500 m
UTM ZONE 8, NAD 83, 105K/05, 06, 07, 08, 10, 11, 12
FILE: .../Keg/Keg-F99-Geophys-Snap-ShallowResist.wor
DATE: FEBRUARY 2014


T.N.
1°33'
23°55'
Grid north
Magnetic north
Annual change
decreasing 25.6'
ohm -m
719
600
400
200
10.9
600000mE
601000mE
6913000mN
6912000mN
Dyke
Atseno
SNP-12-006
SNP-12-007
SNP-12-008
SNP-12-010
SNP-12-004
SNP-12-005
SNP-12-009
SNP-11-001
SNP-11-002
SNP-11-003
99-03
99-04
99-05
99-02
99-06
99-01
99-07
99-09
SNAP
SILVER RANGE RESOURCES LTD.
FIGURE 100
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
SNAP ZONE
DEEP RESISTIVITY
KEG PROPERTY
0
125
250
500 m
UTM ZONE 8, NAD 83, 105K/05, 06, 07, 08, 10, 11, 12
FILE: .../Keg/Keg-F100-Geophys-Snap-DeepResist.wor
DATE: FEBRUARY 2014

Orange Zone Area Rock Geochemistry

Sample #	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)	Cu (ppm)	In (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Sn (ppm)	W (ppm)	Zn (ppm)
K280912	2.5	0.05	0.6	0.7	4.1	0.028	0.2	35	0.12	7.4	0.9	29
K280913	5	0.07	0.9	45.8	10.1	0.0025	0.49	3.7	0.14	0.9	0.5	6
K280914	2.5	0.06	0.6	1.75	6	0.02	0.19	32.2	0.25	8.9	1.3	15
K280915	2.5	0.08	8.2	1.1	36.4	0.139	0.37	13.4	0.24	13.1	1.2	144
K280916	2.5	0.05	12.5	0.45	4.9	0.031	0.46	10.6	5.22	9.5	1.6	40
K280917	26	3.22	96.1	2.97	36.5	0.029	4.55	93	75.5	2.6	6.5	42
K280918	2.5	0.18	0.7	0.35	109.1	0.048	4.46	58	0.23	5	3.7	87
K280919	2.5	1.3	36.9	2.25	9.1	0.052	0.28	8.8	25.8	19.2	34.6	115
K280920	2.5	0.11	1.4	0.47	16.1	0.038	0.41	60.6	0.66	7.7	1.8	66
K280921	21	0.09	2.5	0.78	44.5	0.065	0.46	7.3	0.4	25.8	2.3	116
K280924	6	1.73	138	1.07	257	0.055	25.5	32.3	153	2.5	20	229
L640380	10	1.6	177.5	4.6	35.9	0.038	9.89	99.4	111.5	2.9	12.3	87
L640381	2.5	0.14	2.1	0.88	10.2	0.027	0.3	37.5	0.76	7.4	0.8	55
L640382	2.5	0.06	1.7	0.28	1.4	0.014	0.23	35.6	1.25	12.2	0.8	28
L640383	2.5	0.06	2.5	0.71	24.3	0.086	0.7	13.5	0.36	13.9	13.2	130
L640384	2.5	0.07	0.4	0.7	33.5	0.052	1.74	14.9	0.21	6.9	70.8	107
M355862	2.5	132	0.9	313	1775	0.665	0.92	7170	3.52	19.8	3	61
M355863	2.5	55.5	3.7	129.5	1015	0.555	1.28	2920	5.4	22.7	50.2	52
M355864	2.5	5.75	0.1	34.5	20.1	0.112	1.93	151	4.87	2.4	0.6	35
M355865	2.5	0.68	0.2	2.77	272	0.077	0.33	47.5	0.84	3.6	1.7	391
M355866	21	478	4.7	2570	237	7.18	1.78	19500	49.1	5.7	0.1	185
M355867	33	1150	6.7	2790	89	9.29	5.95	13400	40	3.3	0.7	236
M355868	2.5	24.1	0.1	68.7	173	0.203	0.36	991	1.04	1.3	0.1	40
M355869	2.5	59.4	5.6	136	892	0.483	0.68	11300	14.45	1.7	0.2	2610
M355934	2.5	56.9	6.4	187	1510	0.74	1.57	3470	8.44	18	0.3	268
M355935	2.5	0.85	0.4	7.55	14.1	0.077	0.41	64.4	0.23	1.9	0.3	59
M355936	2.5	0.33	0.7	1.13	29.2	0.078	0.37	32.1	0.09	3.1	0.7	107
M355937	2.5	4.84	10	11.9	134	0.112	11.35	710	12.65	12.2	2.6	187
M355938	2.5	0.56	1.1	2.97	65.5	0.047	14.85	27.4	0.59	10.3	2.3	306
M355939	2.5	0.6	0.1	0.96	160	0.077	6.93	17.2	0.15	11.3	1.8	203
M355940	2.5	0.08	2.5	1.16	7.5	0.072	1.09	6.8	0.41	27	15.4	119
M355941	2.5	0.13	0.1	1.43	8.5	0.124	2.71	11.2	0.54	35.6	11.4	207
M355942	2.5	0.05	2.5	2.99	2.9	0.05	0.37	4.4	1.07	22	67.8	108
M355943	2.5	0.55	0.1	1.36	117	0.078	2.44	11.7	0.06	14.9	6.9	171
M355944	2.5	0.28	1.2	0.45	236	0.042	46.3	44.9	0.07	9	1.5	76
M355945	78	0.18	20.9	358	33.9	0.014	1.57	1.8	6.56	0.4	0.4	5
M355946	22	0.55	11.7	176.5	4.1	0.0025	0.56	7	0.62	2.2	0.4	2
M355947	2.5	0.18	6.4	14.85	57.9	0.168	0.28	8.6	0.21	32.1	10.7	105
M355948	2.5	0.005	2.5	2.93	3.2	0.098	0.1	4.3	1	62.5	1.4	113
M355949	2.5	0.02	9	1.92	3.8	0.067	0.1	6.2	0.9	72.7	2.5	69
M355950	2.5	0.14	23	1.14	24.5	0.108	0.3	11.8	0.36	22.9	7.6	81
M355957	2.5	0.19	0.8	0.62	4.2	0.045	0.55	33.6	0.28	2.2	0.8	74
M355958	2.5	0.11	1.3	12.05	7.2	0.037	0.19	23.2	0.27	13.1	2.6	37
M355959	8	0.34	86.9	16.6	123.5	0.105	0.22	14	0.27	50.8	1.3	70
M650151	2.5	0.04	8.8	0.21	11.7	0.0075	0.18	6.2	0.39	3.5	0.8	4
M650152	2.5	0.01	7.8	0.94	3.9	0.007	0.15	51.7	0.17	6.1	0.2	4
M650153	2.5	1.31	13.5	19.3	342	0.23	2.36	40.7	6.29	98.3	1.5	22
M650154	7	2.58	29.1	85.2	19.3	0.025	0.73	37.3	2.18	3.8	1.3	14
M650155	2.5	0.03	6	0.78	9.7	0.032	0.11	11.5	0.42	8.5	0.8	27
M650156	34	0.23	2.5	87.9	37.9	0.424	0.65	7.6	4.71	118.5	2890	159
M650157	2.5	0.07	2.4	7.35	2.8	0.006	0.15	84.4	0.06	3.1	2.4	6
M650158	2.5	0.07	8.3	1.04	44.8	0.089	0.34	18.8	0.15	16.6	7.9	84
M650159	2.5	0.03	14.1	4.85	25.5	0.135	0.2	13.9	1.58	47.9	2.1	83
M650160	2.5	0.02	10.8	3.62	36.5	0.184	0.21	13.9	1.97	70.9	2.3	78
M650161	2.5	0.03	14	0.63	6.3	0.028	0.08	4.6	0.32	5.2	0.8	14
M650167	2.5	0.05	5.8	5.46	23.6	0.007	0.19	17.8	0.09	3.2	0.9	15
M650163	2.5	0.08	2.5	2.85	39.3	0.064	0.95	9.8	0.96	26.9	5.1	133
M650164	2.5	0.32	0.3	0.47	174.5	0.034	8.02	25.2	0.15	6.5	2.4	82
M650165	2.5	0.25	0.2	0.97	287	0.083	2.3	11.6	0.11	22.5	5.2	131
M650166	2.5	0.46	0.1	4.35	328	0.051	5.06	75.3	0.05	6.1	0.8	76
M650167	2.5	0.32	4.3	2.04	155	0.093	1.02	26.7	0.14	11	1.6	64
M650168	2.5	0.22	1.3	0.37	73.6	0.079	4.45	19.3	0.09	1.5	0.8	45
M650169	2.5	0.07	2.5	1.28	24.3	0.084	0.57	10.4	0.43	19.9	78.2	124
M676631	2.5	0.52	0.3	3.32	10.7	4.72	0.52	29.2	0.13	123	2.5	475
M676632	2.5	0.06	0.3	0.65	4.5	0.023	0.11	31.8	0.05	8.2	2.3	20
M676960	2.5	6.97	1.1	21.4	33.7	0.031	3.41	584	0.51	3.9	1.1	13
M676961	2.5	1.33	1.3	3.4	21.6	0.006	0.42	54.4	0.57	4.8	0.5	27
M676962	2.5	0.6	0.7	1.76	6.4	0.015	0.33	43.9	0.18	8.5	1	12
M676963	2.5	0.2	0.6	1.25	158.5	0.059	7.26	14.3	0.17	21.8	1.3	82
M676964	2.5	0.18	0.1	0.44	139	0.043	2.72	25	0.07	5.4	1.2	183
M676768	2.5	0.06	0.6	0.47	3.2	0.036	0.12	50.5	2.16	8.4	1.5	48
M676769	2.5	0.05	0.6	0.77	2.7	0.022	0.18	54.2	0.17	7.7	0.8	31
M676770	2.5	0.02	1	1.16	0.8	0.021	0.14	36.5	0.06	8.4	1.6	14
M676771	2.5	0.005	1.7	0.47	0.7	0.0025	0.19	12.1	0.15	15.6	1.4	9
M676772	2.5	0.04	0.9	1.54	8.7	0.0075	0.15	44.3	0.06	7.8	0.3	3
M676773	2.5	0.02	0.9	0.07	2.9	0.0025	0.32	2	0.09	0.5	0.2	1
M676821	2.5	0.03	1.4	0.49	0.5	0.013	0.21	7	0.92	64.2	15.7	66
M676822	2.5	0.05	2.5	5.29	9	0.206	0.29	6.4	1.64	36.6	44.9	201
M676823	7	1	125	0.25	51.1	0.034	0.73	23	81.4	4.5	1.4	81
L640697	7	675	4.1	1580	774	3.68	7.59	39600	8.7	9.2	15.9	191
L640693	2.5	352	2.8	813	346	1.895	3.45	25100	6.78	8.1	98.4	188
L640894	2.5	337	1.8	779	214	1.83	4.22	20300	6.04	4.5	38.3	129
G285822	1	0.19	0.7	0.18	107.5	0.014	0.42	21.6	0.025	9	0.26	53
G285825	5	0.26	0.05	0.82	170.3	0.019	12.35	15.3	0.05	49	3.18	24
G285827	2	0.11	0.5	1.35	60.3	0.034	0.93	13.9	0.1	33	180	66

(See Figure 6 for detailed Geology Legend)

- Bedding orientation
- Foliation orientation
- Fracture set; horizontal, inclined, vertical
- Vein orientation
- Fold
- Anticline
- Syncline
- Overturned anticline
- 2013/older rocks
- Observed contact
- Inferred contact
- Assumed contact
- Linears
- Fault
- Normal fault
- Thrust fault
- Strike-slip fault
- Outcrop

Tv	- Tertiary Volcanics
Kst	- South Fork Volcanics
Ksp, mKv, mKs	- Selwyn Plutonic Suite
Trj	- Jones Lake Formation
CPmc	- Mount Christie Formation
Mt, CMal	- Tay Formation
DMe	- Earn Group
Mv	- Felsic Volcanics
DMp	- Prevost Formation
Dp	- Portrait Lake Formation
ODrs	- Road River Group
COr, COrh, COrt	- Rabbitkettle Formation
lCg	- Gull Lake Formation

ORANGE

RECESSIVE RUSTY ZONE

XXIII

XXIV

ICG

mKS

- SNG diamond drill hole
- Primary mineralized zone referred to in text
- Secondary soil anomaly referred to in text

T.N. 21°33' 23°55' Grid North Magnetic North Annual change decreasing 25.6'

SILVER RANGE RESOURCES LTD.

FIGURE 101

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

ORANGE ZONE GEOLOGY & MINERALIZATION

KEG PROPERTY

0 250 500 m

UTM ZONE 8, NAD 83, 105K/05,06,07,08,09,10,11,12 Contour Interval: 100 ft

FILE: .../Keg-F98-GeoMin-Orange.wor

DATE: FEBRUARY 2014