



ASSESSMENT REPORT TITLE PAGE AND SUMMARY

TITLE OF REPORT: 2017 Geochemical & Diamond Drilling Report on the Forrest Kerr Property

TOTAL COST: \$932,225.49

AUTHOR(S): Cornell McDowell

SIGNATURE(S): 

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): MX-1-975

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YEAR OF WORK: 2017

PROPERTY NAME: Forrest Kerr

CLAIM NAME(S) (on which work was done): 502758, 501227, 592381, 592371, 592423, 596822, 1010212, 507426

COMMODITIES SOUGHT: Au, Cu, Ag, Pb, Zn

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN:

MINING DIVISION: LIARD Mining Division

NTS / BCGS: NTS 104B

LATITUDE: 56°54' N

LONGITUDE: 130° 37' W

UTM Zone: 9-U **EASTING:** UTM 401000 E **NORTHING:** 6307800 N

OWNER(S): Aben Resources Ltd.

MAILING ADDRESS: #1610—777 Dunsmuir, Vancouver, B.C., V7Y 1K4

OPERATOR(S) [who paid for the work]: Aben Resources Ltd.

MAILING ADDRESS: as above

REPORT KEYWORDS

Forrest Kerr Fault, Stikine Assemblage: Hazelton & Stuhini groups, Paleozoic, Triassic, Jurassic

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27692, 28107, 31193, 20722, 27376, 19364, 19646, 20769, 21366, 22607, 24165, 26735, 20562, 19316, 21956, 24156, 23734, 24057, 24719, 25336, 25813, 26184, 26406, 34378, 20667, 21529, 22623, 22238, 18411, 27071, 20598

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (in metric units)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping			
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Airborne			
GEOCHEMICAL (number of samples analysed for ...)			
Soil	Samples 576	507426, 1020212	
Silt			
Rock/Trench	Samples 50	502758, 501227, 592381, 592371, 592423, 596822, 1020212, 507426	
Other			
DRILLING (total metres, number of holes, size, storage location)			
2445	9 NQ2 McLymont Staging	502758, 501227, 592381	
Non-core			
RELATED TECHNICAL			
Sampling / Assaying			
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale/area)			
PREPATORY / PHYSICAL			
Line/grid (km)			
Topo/Photogrammetric (scale, area)			
Legal Surveys (scale, area)			
Road, local access (km)/trail			
Trench (number/metres)			
Underground development (metres)			
TOTAL COST			\$932,225.49

2017 Geochemical & Diamond Drilling Report on the Forrest Kerr Property

Liard Mining Division
NTS 104B15 & 104G2
UTM Zone 9 NAD 83 : 401000 E 6307800 N
56° 54' N latitude, 130° 37' W longitude

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SUMMARY

The Forrest Kerr property consists of 56 contiguous mineral claims covering 23,397 hectares of mountainous terrain in northwestern British Columbia. The property is accessible to its southern portion via the Coast Mountain Hydro project road and to its northern portion via the Galore Creek mine road. The remainder of the property is currently accessible only by helicopter. The Coast Mountain Hydro project combines three run-of-the river hydro projects that generate 277 MW of electrical energy to the BC power grid via the 287 kV Northwest transmission line. The hydro facilities are operated by AltaGas and include a 300 person camp located in the southernmost portion of the property, which has sufficient space to accommodate several mineral exploration crews. The Galore Creek Mining Corporation maintains a 100 person camp adjacent to the northern portion of the Forrest Kerr Property. The nearest community is the port of Stewart, located approximately 90 kilometres to the south, which has a deep-water concentrate & loading facility.

The Forrest Kerr property represents a consolidation of three mineral properties in addition to several claims staked by Aben Resources in 2016. From north to south, the RDN claims are currently held by Centerra Gold, the Forgold claims are owned by Carl Von Einsiedel and the Forrest claims are owned equally by Pamicon Developments Ltd. (“Pamicon”) and Equity Exploration Consultants Ltd. (“Equity”). Aben Resources (“Aben”) has option agreements to earn 100 % of all the claims by incurring three million dollars in exploration expenditures on the various properties before June 2020.

The Forrest Kerr property lies within the Stikine Terrane, near the boundary between the Intermontane and Coast Tectonic Belts of the Canadian Cordillera. The property straddles the Forrest Kerr Fault (“FKF”), a major lineament that can be traced in excess of 55 kilometres along strike. In general on the property, rocks to the west of the fault represent the Paleozoic members of Stikinia while those to the east are Mesozoic members, namely Triassic Stuhini and Jurassic Hazelton volcanic and sedimentary assemblages. There are numerous occurrences of early to middle Jurassic intrusive rocks throughout the property, which have close spatial and genetic links with many mineral deposits. The property is located in the center of the Golden Triangle of British Columbia, an area that hosts significant Au-Cu±Mo porphyry deposits, intrusion-related Au±Ag vein deposits and high-grade Au-Ag volcanogenic massive sulphide deposits. In fact, the Golden Triangle has a mineral endowment exceeding 100 million ounces of gold in N.I. 43-101 compliant resources and historical production within 50 kilometres of the Forrest Kerr property. There have been up to four distinct phases of Late Devonian to Tertiary deformation imposed onto the rocks of Stikinia.

Exploration work on the three separate claim packages began in the late 1980’s during a flurry of activity that was spurred by the discovery of the Snip and Eskay Creek mineral deposits. On the RDN claims a total of 80 drill holes have been completed between 1990 and 2005. Drill results from 1990 reported 125 g/T Au over 0.85 metres and 91.0 g/T Au over 1.95 metres (RG91-21)

from the Carcass Creek area and 33.7 g/T Ag over 27 metres (RDN05-42) from the RTB zone. A total of 5 holes were drilled in 1991 on the Forgold claims, although subsequent events have caused the claim boundary to be adjusted and now only one historic hole lies within the Forgold boundary. Two significant intersections of gold mineralization were reported; 3.9 g/T Au over 1.58 metres in drill hole FG-2 and 19.2 g/T Au over 0.82 metres in drill hole FG-3 (Bond, 1992). Two narrow zones of copper mineralization were reportedly intersected in hole FG-5, located approximately one kilometre south of the other 4 holes (2.97% copper over an interval of 0.31 metres and 1.14% copper over an interval of 1.16 metres). The Forrest claims had 35 drill holes completed in 1990 and 1995. The best drill intersections at the Creek zone averaged 0.77% Cu and 1.97 g/T Au over 39.7 metres of core length (16.8m true width) and 4.05 g/T Au over 3.15 metres of core length (1.6m true width).

Over 40 polymetallic mineral occurrences have been described within the current boundaries of the Forrest Kerr property. Mineralization styles range from discrete intrusion related Au + Cu +/- Ag veins to breccia, shear and stockwork zones in addition to areas with massive sulfide potential.

INTRODUCTION

This report has been prepared for Aben Resources Ltd. for the purpose of fulfilling reporting requirements in order that assessment credits may be applied to the claim group. The author was present throughout the 2017 exploration program which ran from June 21-August 30 and involved the collection of 576 soil, 50 rock and 2445 metres of NQ2 drilling in 9 drill holes. The focus of the program was to evaluate the degree and potential for precious and base metal mineralization across the property. The author has undertaken a thorough data compilation of all information provided and available on a property wide basis. Information in this report was derived from publicly-available assessment reports, private reports from various operators, and government maps and publications. A complete list of references is provided in Appendix A.

RELIANCE ON OTHER EXPERTS

The author is not relying on a report, opinion, or statement of another expert who is not a qualified person, or on information provided by the issuer, concerning other legal, political, environmental, or tax matters relevant to the technical report. Information regarding exploration programs prior to 2016 was derived from various assessment reports and private company reports, rather than first-hand experience. There is no reason to believe that any of this information is incorrect and portions were validated by the author in the field. The author has made no attempt to verify the legal status and ownership of the three separate properties, nor is he qualified to do so.

All dollar figures are in Canadian dollars (CDN) and g/T refers to grams/tonne, which is equivalent to parts per million (ppm).

PROPERTY DESCRIPTION AND LOCATION

The Forrest Kerr property represents a consolidation of three properties (RDN, Forgold, and Forrest) in addition to 10 recently staked claims by Aben Resources. The property is centred at 56° 54' N latitude and 130° 37' W longitude (UTM NAD 83 401000 E 6307800 N), within the Liard Mining Division on map sheets 104B/15E and 104G/2E (Figure 1). The property consists of 56

contiguous mineral claims which cover 23,397 hectares in northwestern British Columbia (Figure 2). Claim data has been sourced from Mineral Titles Online (MTO), a division of the British Columbia Ministry of Energy and Mines. All of these mineral claims are governed by the Mineral Tenure Act and the Mines Act (British Columbia) and are subject to a required assessment work or cash in lieu. All tenure data is summarized in Table 1. The author knows of no environmental liabilities associated with the property.

There are portions of certain claims within the claim group that are covered by staking reserves related to the potential development of hydroelectric power. Collectively, Order-in-Council 1589 (1972) and Order-in-Council 440 (1983) state that ground below 580 metres elevation is subject to flooding for hydroelectric development. Mineral exploration and development may be carried out in these staking reserves, but no compensation will be payable in the event of flooding. Claims located at lower elevations in the More Creek valley that may be partially affected by these two orders include; 502751, 502752, 502756, 518112, 501812, 501895, 501927 and 1044993. Also, conditional staking reserves #378962 and #385934 cover elevations below 480 metres on these claims located along the Forrest Kerr creek and Iskut river; 597143, 597144, 842682, 1044514, 1044989, 1044988 and 1043752.

In the event that a commercially exploitable mineral deposit is discovered in an area subject to these reserves, a subsequent decision by the Government of British Columbia to flood the area for water resource or hydroelectric generating purposes will not entitle the title holders to any form of compensation. To date, no significant mineralized occurrences have been identified in areas subject to the Orders-in-Council or staking reserves.

Surface rights are held by the Crown, as administered by the Province of British Columbia. There are no placer rights within the Forrest Kerr property. The ownership of other rights (timber, water, grazing, etc.) over the Forrest Kerr property has not been investigated by the author.

The Forrest Kerr property lies within the traditional territory of the Tahltan First Nation. Land claims have not been settled in this part of British Columbia and their future impact on the property's access, title or the right and ability to perform work remain unknown.

Aben Resources Ltd. has entered into separate agreements with the three owners of the respective claim groups to acquire a 100% interest in the various properties, details of which follow. Aben had entered into an agreement with Rimfire Minerals, a wholly owned subsidiary of Kiska Metals, whereby Aben may acquire a 100% interest in the RDN property by issuing 4 million shares and expending \$1,000,000 in exploration expenses on the RDN claims before June 30, 2020. Rimfire retains a property wide net smelter return (NSR) of 1.33% for which no buy back provision exists. Rocky Saliken and Randy DeBock share equally a 1% royalty interest (on all RDN claims except tenure 504799), of which 50% can be purchased for \$500,000. In addition, Rimfire owns a 2% NSR on claims 504798 & 504799 that are fully buyable for \$2,000,000. In March 2017 AuRico Metals Inc. took over Kiska Metals, which became a wholly-owned subsidiary of AuRico Metals Inc. In November 2017 Centerra Gold Inc. completed the acquisition of AuRico Metal Inc. so that those underlying royalties and option agreements that pertained to Kiska have now reverted to Centerra.

A 100% interest in the Forgold group of claims can be attained by the issuance of 1 million common shares to the current claim owner. These claims are subject to a 2% NSR, half of which can be purchased for the sum of \$1,000,000. Aben can acquire a 100% interest in the Forrest group of claims through the issuance of 2 million common shares and by incurring direct

exploration expenses of \$500,000 by June 30, 2020. The Forrest claim group is subject to a 2% NSR, half of which may be purchased for \$1,500,000.

Figure 1 Location of Forrest Kerr Project



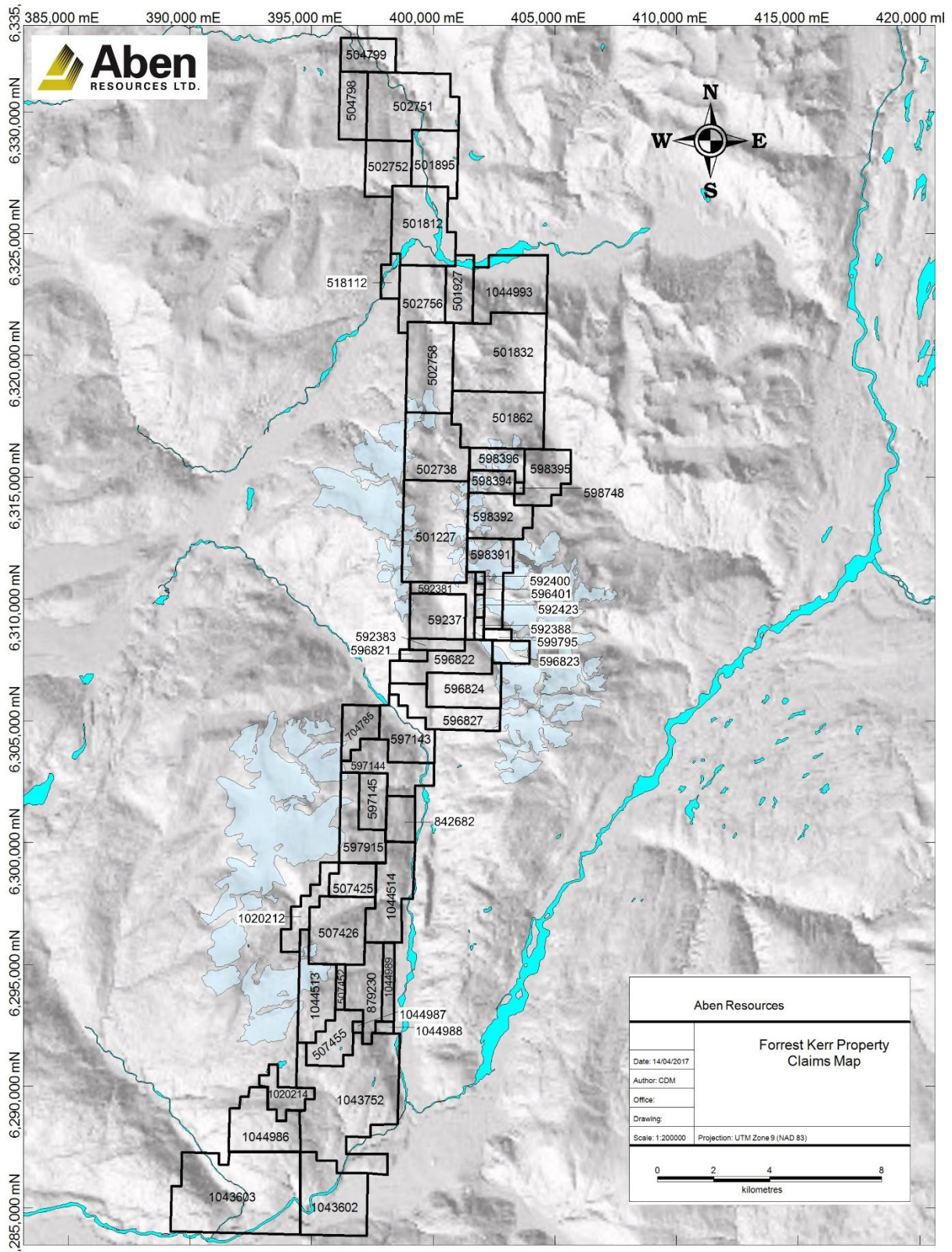


Figure 2 Forrest Kerr claims map

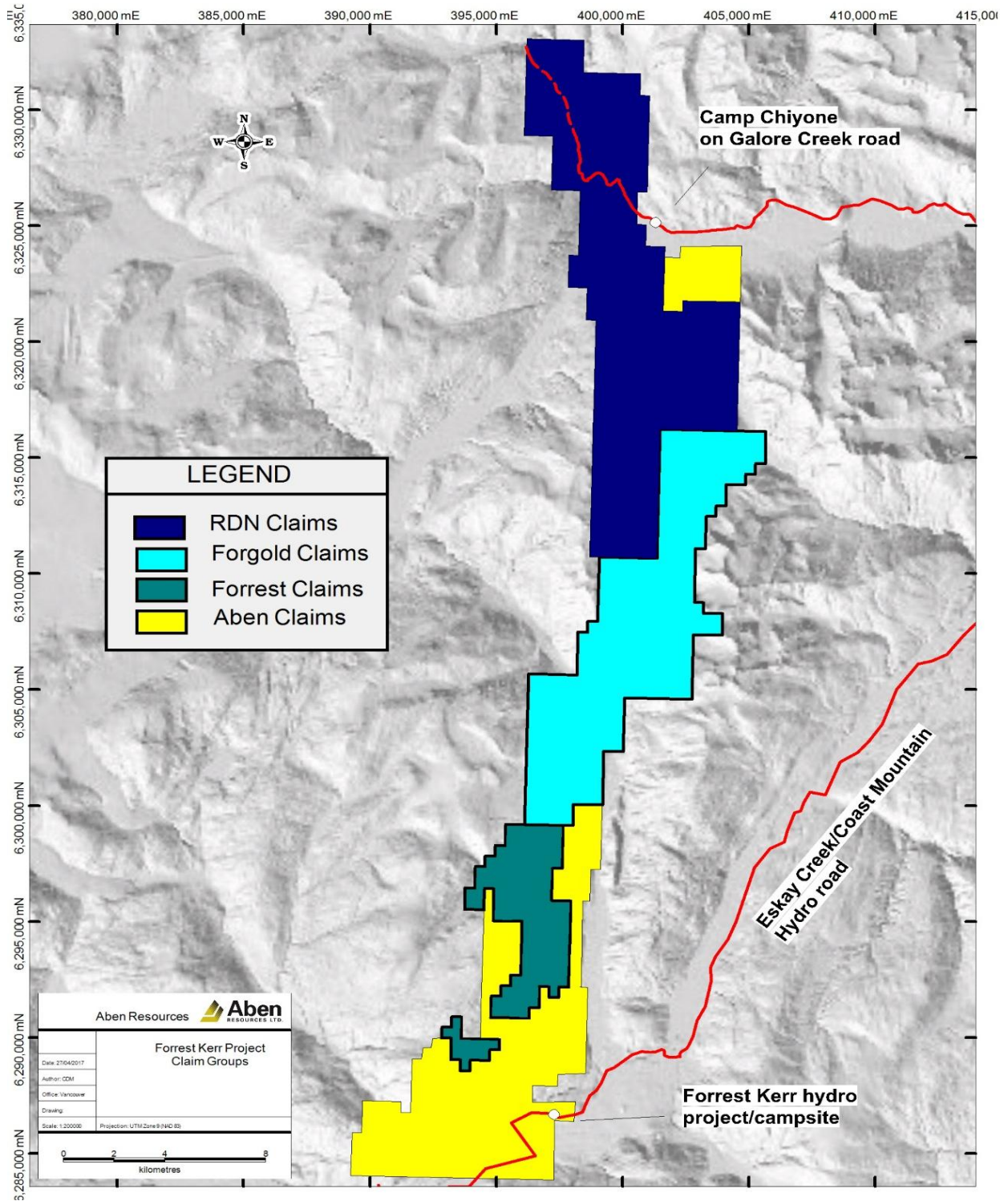


Figure 3 Claim groups of the Forrest Kerr Property

FORREST KERR PROJECT - TENURE LIST						
Title Number	Owner	Issue Date	Good To Date	Area (ha)	Anniversary year of claim	Work Req Per Ha
501227	141517 (100%)	2005/jan/12	2022/dec/31	1111.923	1	\$ 5.00
501812	141517 (100%)	2005/jan/12	2022/dec/31	774.248	1	\$ 5.00
501832	141517 (100%)	2005/jan/12	2021/dec/31	1162.807	1	\$ 5.00
501862	141517 (100%)	2005/jan/12	2021/dec/31	846.243	1	\$ 5.00
501895	141517 (100%)	2005/jan/12	2021/dec/31	457.21	1	\$ 5.00
501927	141517 (100%)	2005/jan/12	2021/dec/31	299.329	1	\$ 5.00
502738	141517 (100%)	2005/jan/13	2021/dec/31	670.153	1	\$ 5.00
502751	141517 (100%)	2005/jan/13	2021/dec/31	931.516	1	\$ 5.00
502752	141517 (100%)	2005/jan/13	2021/dec/31	404.486	1	\$ 5.00
502756	141517 (100%)	2005/jan/13	2021/dec/31	457.823	1	\$ 5.00
502758	141517 (100%)	2005/jan/13	2021/dec/31	704.855	1	\$ 5.00
504798	141517 (100%)	2005/jan/25	2021/dec/31	316.37	1	\$ 5.00
504799	141517 (100%)	2005/jan/25	2021/dec/31	316.213	1	\$ 5.00
518112	141517 (100%)	2005/jul/21	2021/dec/31	123.24	1	\$ 5.00
592371	127981 (100%)	2008/oct/02	2022/dec/31	423.9311	8	\$ 20.00
592381	127981 (100%)	2008/oct/02	2022/dec/31	211.9263	8	\$ 20.00
592383	127981 (100%)	2008/oct/02	2021/dec/31	106.0114	8	\$ 20.00
592388	127981 (100%)	2008/oct/02	2021/dec/31	35.3312	8	\$ 20.00
592400	127981 (100%)	2008/oct/02	2022/dec/31	17.6571	7	\$ 15.00
592423	127981 (100%)	2008/oct/02	2021/dec/31	35.3239	8	\$ 20.00
596401	127981 (100%)	2008/dec/20	2023/dec/31	17.6591	8	\$ 20.00
596821	127981 (100%)	2009/jan/01	2021/dec/31	53.0117	8	\$ 20.00
596822	127981 (100%)	2009/jan/01	2021/dec/31	441.7954	8	\$ 20.00
596823	127981 (100%)	2009/jan/01	2021/dec/31	141.3564	5	\$ 15.00
596824	127981 (100%)	2009/jan/01	2021/dec/31	441.9077	5	\$ 15.00
596827	127981 (100%)	2009/jan/01	2021/dec/31	442.0048	5	\$ 15.00
597143	127981 (100%)	2009/jan/08	2021/dec/31	442.1118	5	\$ 15.00
597144	127981 (100%)	2009/jan/08	2021/dec/31	442.2597	5	\$ 15.00
597145	127981 (100%)	2009/jan/08	2021/dec/31	265.4423	5	\$ 15.00
597915	127981 (100%)	2009/jan/23	2021/dec/31	442.5243	5	\$ 15.00
598391	127981 (100%)	2009/feb/01	2021/dec/31	441.4108	8	\$ 20.00
598392	127981 (100%)	2009/feb/01	2021/dec/31	441.1685	5	\$ 15.00
598394	127981 (100%)	2009/feb/01	2021/dec/31	176.4098	5	\$ 15.00
598395	127981 (100%)	2009/feb/01	2021/dec/31	405.6961	5	\$ 15.00
598396	127981 (100%)	2009/feb/01	2021/dec/31	229.2841	5	\$ 15.00
598748	127981 (100%)	2009/feb/05	2022/dec/31	17.6414	5	\$ 15.00
599795	127981 (100%)	2009/feb/21	2021/dec/31	52.9998	8	\$ 20.00

FORREST KERR PROJECT - TENURE LIST (continued)						
704785	127981 (100%)	2010/jan/25	2021/dec/31	265.2513	5	\$ 15.00
842682	127981 (100%)	2011/jan/09	2021/dec/31	212.3897	5	\$ 15.00
507425	108992 (100%)	2005/feb/17	2023/dec/31	247.9446	8	\$ 20.00
507426	108992 (100%)	2005/feb/17	2023/dec/31	637.888	8	\$ 20.00
507452	108992 (100%)	2005/feb/18	2023/dec/31	70.9161	8	\$ 20.00
507455	108992 (100%)	2005/feb/18	2023/dec/31	354.765	8	\$ 20.00
879230	279932 (100%)	2011/aug/02	2023/dec/31	443.2355	9	\$ 20.00
1020212	279932 (100%)	2013/jun/10	2023/dec/31	265.7314	9	\$ 20.00
1020214	279932 (100%)	2013/jun/10	2022/dec/31	230.7184	6	\$ 15.00
1043602	282655 (100%)	2016/apr/19	2022/dec/31	763.9084	1	\$ 5.00
1043603	282655 (100%)	2016/apr/19	2021/dec/31	1545.5247	1	\$ 5.00
1043752	282655 (100%)	2016/apr/27	2021/dec/31	1597.4673	1	\$ 5.00
1044513	135211 (100%)	2016/jun/03	2021/dec/31	496.4498	1	\$ 5.00
1044514	135211 (100%)	2016/jun/03	2021/dec/31	584.5171	1	\$ 5.00
1044986	263928 (100%)	2016/jun/27	2021/dec/31	514.8512	1	\$ 5.00
1044987	263928 (100%)	2016/jun/27	2022/dec/31	17.738	1	\$ 5.00
1044988	263928 (100%)	2016/jun/27	2021/dec/31	35.476	1	\$ 5.00
1044989	263928 (100%)	2016/jun/27	2021/dec/31	106.3627	1	\$ 5.00
1044993	263928 (100%)	2016/jun/27	2021/dec/31	704.261	1	\$ 5.00

Table 1 List of Tenures

ACCESSIBILITY, PHYSIOGRAPHY AND CLIMATE

The Forrest Kerr property lies in the 'Iskut' area of the Coast Mountains in northwestern British Columbia. The center of the property is approximately 100 kilometres northwest of the deep water port of Stewart, British Columbia and 200 kilometres southwest of Dease Lake, British Columbia. Travel time to the project from Terrace or Smithers is approximately 6 hours. Both Smithers and Terrace serve as centers for mining and mineral exploration with several drill, helicopter, geological and support contractors based locally.

The property is road accessible to both its southern and northern regions. The southern route is via the controlled-access gravel Coast Mountain Hydro road (formerly the Eskay Creek mine road), which intersects the Stewart Cassiar highway (Hwy 37) 4 kilometres south of the Bob Quinn airstrip (20 km east of property). The Forrest Kerr run-of-river hydro facility is located 44 kilometres along this road and within the claim boundary of the Forrest Kerr Project. This facility is operated by AltaGas and comprises a 300 person camp and 3 generating facilities that supply 297 MW of electricity to the province through the 287 kV Northwest transmission line. The northern access is achieved by travelling 12 kilometres north of Bob Quinn on Hwy 37 and then travelling 40 kilometres west along the Galore Creek Mining Corporation ("GCMC") road. GCMC maintains a 100 person camp (Ch'iyone) at km 37.5 on this road, which is currently scaled back to a 10 person camp performing care and maintenance duties on the Galore Creek project.

The Bob Quinn airstrip is suitable for fixed-wing aircraft of any size and is serviced by NT Air with 5 flights/week during the summers from Smithers. Alternatively the Property can be accessed by helicopter from Bronson airstrip (air access only) located on the south side of the Iskut River approximately 20 kilometres to the southwest.

The Forrest Kerr claim block covers several tributaries of the Iskut River, principally More, Downpour, and Forrest Kerr creeks. Topography is rugged, typical of mountainous and glaciated terrain, with elevations ranging from 490 metres on More Creek and 930 metres on Downpour Creek to over 2000 metres on unnamed peaks. Alluvium, till and outwash fill the bottom of the three valleys. Much of the property lies above treeline, covered by open alpine vegetation. Tag alder and alpine fir are common below treeline, which averages 1400 metres in elevation. Most of the claims along More Creek are covered by mature spruce and hemlock, with open patches of tag alder and devil's club. Both summer and winter temperatures are moderate although annual rainfall may exceed 200 centimetres and several metres of snow commonly fall at higher elevations. The property can be worked from early June at lower elevations, or mid-July at higher elevations, until late September or early October.

EXPLORATION HISTORY

The consolidated Forrest Kerr Property has hosted extensive exploration activities by a variety of operators throughout the last thirty years. The following summary is presented under the subheadings of the three separate claim groups.

RDN Claims

The following section on the exploration history of the RDN claims was taken from Jones (2006).

The original RDN 1-4 claims were staked in November 1987 to cover a small but intense gossan (the "Marcasite Gossan") on which no work had previously been reported. At the time, the Iskut River district was undergoing exploration for gold-bearing quartz-sulphide veins similar to those which were later developed into the Skyline and Snip mines. The following September, Neil DeBock carried out three days of prospecting on the RDN claims. Two rock samples from the Marcasite Gossan exceeded 50 g/T Ag, with the best assaying 207.6 g/T Ag (DeBock, 1989). All exploration work carried out on the area covered by the RDN property is summarized in Table 2.

Noranda Exploration Company staked their GOZ claims immediately north of the RDN property in October 1989, optioned the RDN 1-4 claims and did limited sampling on them. Gold and silver values were generally low in rock and talus fine samples, but rock samples from the Marcasite and South Gossans contained anomalous arsenic and antimony, with up to 1196 ppm Sb and 831 ppm As. A heavy mineral concentrate from Downpour Creek returned 2410 ppb Au and a silt sample taken from one of its tributaries contained 164 ppb Au (Savell, 1990a).

Years	Company	Claims	Geochemistry	Geophysics	Drilling, Trenching
1988	Neil DeBock	RDN 1-4	10 silts, 27 rocks		
1989-90	Noranda	RDN 1-8, 11-13	32 heavy minerals, 91 silts, 1384 soils, 464 rocks	Airborne: magnetics/EM Ground: 20 line-km magnetics, 14.9 line-km VLF-EM, 14.9 line-km HLEM	15 DDH: 1546m (5072')
1991	Noranda	RDN 1-8, 11-13	15 silts, 275 soils, 200 rocks	Ground: magnetics, IP, HLEM	15 DDH: 2087m (6847')
1990-91	Skeena	RDN 14-17, Luc, Narby, Bogden, LL1-2, KC1-2	221 silts, 799 soils, 384 rocks	Ground: 1.8 line km IP, 2.66 line kms mag, 1.6 line km VLF	Blast and hand trenching, 106 m
1990	Adrian	RDN 9-10	14 silts, 3 soils, 37 rocks		
1990	Noranda/Skeena	RDN 9-10	2 heavy minerals, 20 silts, 404 soils, 35 rocks	Ground: 13.1 line-km magnetics, 4.5 line-km EM	
1991	Noranda/Skeena	RDN 9-10	12 silts, 59 soils, 27 rocks	Ground: IP	
1991-92	Adrian/Noranda/Skeena	RDN 9-10	279 soils, 22 basal tills, 109 rocks	Ground: 11 line-km VLF-EM	Blast-trenching
1994	Pathfinder	RDN 1-6	6 silts, 3 soils, 67 rocks, 24 whole rocks		
1995	Pathfinder	RDN 1-8	574 soils, 8 rocks		
1996	Pathfinder	RDN 1-10	2 silts, 448 soils, 110 rocks, 44 whole rocks	Ground: 28 line-km magnetics, 28 line-km VLF-EM	
1997	Rimfire	RDN 1-10	648 soils, 156 rocks, 4 whole rocks		
1998	Rimfire	RDN 1-10, 1318	1727 soils, 179 rocks, 33 whole rocks		Backhoe trenching: 129 m
1999	Rimfire	RDN 1-13	16 silts, 425 soils, 159 rocks, 35 whole rocks	Ground: 7.4 line-km magnetics, 7.4 line-km VLF-EM	9 DDH: 574.2 m (1,884')
2000	Newmont/Rimfire	RDN 1-4, 6, 1013	12 silts, 165 soils, 32 rocks, 4 whole rocks	Ground: 26.8 line-km UTEM	
2001	Newmont/Rimfire	RDN 2, 4, 11, 13		Ground: 0.525 line-km Max-Min II	13 DDH: 2,255.8 m (7,401')
2002	Homestake/Rimfire	RDN 1,3, 5-12, 14, 16	37 silts, 207 soils, 93 rock, 10 whole rock		9 DDH: 1,125.9 m (3,694')
2003	Homestake/Rimfire	RDN 3,4,13,14, 16, MOR 2	3 silts, 108 soils, 164 rock, 17 whole rock		
2004	Rimfire/Northgate	RDN 3,4,13,14, 16, MOR 2	23 silt, 499 soils, 78 rocks, 32 whole rocks, 2 age dates		9 DDH, 2498.7m (8198'), 1534 core samples
2005	Rimfire/Northgate	501227,502738, 502758,502751, 502752,501895	3 silt, 579 soil, 244 rock including 31 channel, 48 whole rock, 1 fossil date		6 DDH, 1470.66 m (4825'), 917 core samples
2006	Rimfire/Northgate		16 silt, 178 rock including 98 chip & 35 whole rock, 331 soil	740 line km airborne EM-Mag	4 DDH, 1350.05 m (4429'), 965 core samples
Total			34 heavy minerals, 501 silts, 8917 soils, 2751 rocks, 286 whole rocks	Ground: magnetics, VLF-EM, UTEM, Max-Min II, Airborne EM	80 DDH: 12,908.4 m (42,350'), 129 m trenching

Table 2 Exploration History on the RDN claim group

In 1990, Noranda and High Frontier Resources Ltd. carried out a joint exploration program over the RDN and GOZ claims (Savell, 1990b). They laid out sixty kilometres of grid over the gossanous felsic volcanics, with a baseline oriented at 010° and crosslines every 100 metres, and carried out ground geophysics to detail airborne anomalies (Savell, 1991). Prospecting resulted in the discovery of several gold-bearing quartz-sulphide veins within dacitic tuffs on the GOZ claims, accompanied by a large Au+Ag+As+Pb+Zn±Cu soil geochemical anomaly. Fifteen BGM core holes were drilled on the GOZ claims, with the best intersection grading 11.7 g/T Au across 4.4 metres of a brecciated quartz-sulphide vein (Savell, 1990b).

In 1991, Noranda and High Frontier continued exploration on the RDN and GOZ properties (Savell and Grill, 1991). A new grid was established in the Gossan Creek/Carcass Creek area, almost entirely within the felsic tuffs and their subvolcanic porphyries. Its baseline was oriented at 155°, with five crosslines at 065° spaced 200 metres apart. All lines were surveyed with HLEM and two were surveyed with induced polarization (IP) techniques. At the southern end of the GOZ/RDN claims, they laid out east-west lines at 200 metre intervals from a north-south baseline on the Boundary Zone and collected soil samples at 25 metre intervals (Savell, 1992). Fifteen more BTW holes were drilled in 1991. Of the 30 holes drilled by Noranda in 1990 and 1991, all but four were targeted at quartz-sulphide veins or silicified zones in the intermediate to felsic volcanics and their subvolcanic porphyries. Results from the other holes, designed to test the property's potential for Eskay Creek-style mineralization, were all inconclusive. Two of these holes, RG91-26 and 27, were drilled within sediments and diorite on the RDN 2 claim, but failed to reach the felsic/sediment contact. The other two, RG90-12 and 13, were targeted at anomalous Au-As soil geochemistry (the "Jungle Anomaly"), but were abandoned in overburden.

Following the 1991 program, Noranda terminated their option on the RDN claims and allowed their GOZ claims to lapse. As the GOZ claims came open, they were gradually re-staked as the RDN 58 and 11-13 claims in May 1994, March 1995, October 1997 and October 1998. All of Noranda's drilling and grid work lie on the current RDN property.

In September 1989, Skeena Resources Ltd. staked a large claim package (the Arctic claims) on the north fork of More Creek to cover an area thought to be underlain by Hazelton Group stratigraphy similar to that hosting the Eskay Creek deposit. In 1990, Skeena carried out reconnaissance silt sampling and mapping/prospecting traverses, identifying felsite and orbicular rhyolite with local flow banding over several kilometres along both sides of More Creek (Bobyne, 1990). Skeena also investigated several scattered showings with detailed mapping, trenching, grid soils, and local induced polarization geophysical surveys in 1991 (Tucker, 1991). The Downstream Showing, consisting of "narrow chalcedonic quartz veins...[which]...host massive pyrite stringers up to 5 cm in width" within pyritic felsite/rhyolite, returned grab samples with up to 75 ppm Hg, 580 ppm Sb and 4860 ppm As (Bobyne, 1991). The KC Showing consists of pyrite-magnetite-chalcopyrite stringers in epidotized volcanic rocks along the sheared contact with Paleozoic granite. As well, several grab samples of carbonate veins and lenses in sedimentary strata at the mouth of Black Bear Creek returned strongly elevated results for Au, Ag, Pb, Zn, Hg, and Cu. Skeena's claims were allowed to lapse and the RDN 14-18 claims were staked in October 1997 to cover the Downstream Showing and the rhyolitic package along More Creek.

In March 1990, Adrian Resources Ltd. and Skeena each staked claims between Noranda's GOZ and Skeena's Arctic claim groups, and contested ownership. Exploration work was done by each

group that summer. Adrian carried out reconnaissance mapping and limited sampling (Dunn, 1990). Noranda optioned Skeena's More claims, cut a north-south baseline with east-west cross-lines every 200 metres and carried out soil sampling and ground geophysics over their grid (Savell and Wong, 1991). The following year, Noranda carried out two test lines of IP and did minor sampling, but no results are available.

In 1991, Adrian optioned the More claims from Skeena and Noranda and carried out grid-based geological mapping and added infill soil lines at 100 metre spacings to Noranda's grid. The soil geochemistry showed a 200 x 700 metre northerly-trending, Pb+Zn±Au±As±Ag±Cu anomaly with peak values of 0.460 ppm Au, 620 ppm Pb, 1200 ppm Zn and 352 ppm Cu, in an area underlain by dacitic volcanics. Two mineralized zones were reported from within silicified and carbonate-altered dacitic volcanics. The Main Zone had grab samples grading up to 4.6 g/T Au and 10.6% Zn. The Gem Zone, located 1,000 metres to the south in a separate soil geochemical anomaly, returned values up to 2.2 g/T Au (Campbell et al, 1991). Blast trenching was apparently carried out by Adrian the following year, but was never recorded and no results are available. The More claims lapsed on March 21, 1995 and were re-staked the following day as the RDN 9 and 10 claims.

Pathfinder Resources Ltd. optioned the RDN property in 1994 and carried out reconnaissance exploration on the RDN 1-6 claims for Eskay Creek-style stratiform Au-Ag-Pb-Zn mineralization, focusing on six kilometres of felsic/sediment contact. Six thin sections from subvolcanic porphyry intrusives and variably altered dacitic/trachytic lapilli tuff revealed intense potassic alteration. No massive sulphide mineralization was discovered, but altered dacite beneath the Marcasite Gossan felsic/sediment contact assayed up to 141 g/T Ag. Similar float four kilometres to the north assayed 11.6 g/T Au with anomalous Ag, Pb, Zn, Cu, As, Sb, Hg and Bi (Awmack, 1995a).

In 1995, Pathfinder performed a grid-based soil geochemical survey over the RDN 1-8 claims, designed to cover known or suspected portions of the felsic/sediment contact. Soil samples were taken at 25 metre intervals from short crosslines run 100 metres apart from a cut north-south baseline (the "Downpour Grid"). Results were spotty, with several isolated anomalous soil samples (Awmack, 1995b).

The following year, Pathfinder carried out 48 man-days of geological mapping, prospecting, soil sampling and geophysical surveying over the RDN 1-10 claims. Soil sampling on the Downpour Grid confirmed an Au+As geochemical anomaly (the "Jungle Anomaly") north of the mouth of Gossan Creek. A magnetic/VLF-EM survey was run over the southern half of the Downpour Grid, showing a VLF conductor along the felsic/mafic contact above the Marcasite Gossan. On the RDN 9-10 claims, two infill soil lines run west from the 1990 Noranda baseline corroborated the reported soil geochemical anomaly. Previously blasted exposures of the Main Zone breccia vein were chip sampled, assaying 3.1 g/T Au, 0.49% Pb and 1.13% Zn across a true width estimated at 8.3 metres (Awmack, 1996).

The RDN property was acquired by Rimfire Minerals Corporation in July 1997 and Rimfire contracted Equity Engineering Ltd. to carry out exploration programs from 1997 to 1999. From 1997 to 2005, Rimfire or their partners have conducted exploration in each field season, as summarized below.

1997 Exploration

In August 1997, Rimfire carried out mapping, prospecting and soil sampling in the More Grid, Cole Creek, Jungle Anomaly and Marcasite Gossan areas (Awmack, 1997). Infill soil lines on 50-metre centres were run in the Jungle Anomaly area west of Downpour Creek and reconnaissance lines at 100 metre intervals to the east.

The 1997 More Grid sampling showed the More soil geochemical anomaly to lie almost entirely over the central fault slice of felsic volcanics, covering an area of 250 x 800 metres. To the north, the anomaly is truncated by the swamp marking the edge of the More Creek flood-plain. To the south, no anomalous values are found south of 1700N. Campbell et al (1991) inferred a fault trending 070° at approximately 1725N, based on discontinuities in VLF-EM conductors. No geological evidence was seen for such a fault, but it would help explain the southern termination of the soil anomaly. To the west, the soil anomaly continues down for at least 50 metres into the western fault slice of Betty Creek Formation andesite. This is thought to represent downslope dispersion from the strongest sections of the main anomaly.

The Jungle Au+As+Ag+Pb soil geochemical anomaly was defined over an area of 100 x 450 metres; a cobble of silicified, pyritic argillite from within it assayed 25.44 g/T Au. Noranda had targeted two diamond drill holes at the Jungle soil anomaly, with holes RG90-12 (-48°, 46.0m) and RG90-13 (-60°, 30.5m) abandoned in overburden after coring through boulders of “black siltstone and oxidized felsic volcanic”. Both of these holes were drilled down a 35° hillside, undoubtedly worsening drilling conditions. A multi-element soil anomaly lies on the western end of line 7500N, between 7450 Creek and 7500 Creek, and covers the wide zone of faulting associated with the Carcass Fault, including silicified slivers of felsic volcanics and sheared argillite subcrop.

Geological mapping and prospecting was carried out at a scale of 1:2,500 over portions of the More and Downpour Grids, with emphasis on the Marcasite Gossan, Cole Creek, the Jungle soil anomaly and the More Grid Au+Pb+Zn soil anomaly. A total of 156 rock geochemical samples were taken (31 from the More Grid and 125 from the Downpour Grid) during the course of geological mapping and prospecting. Three thin, polished sections were described by Dr. Jeff Harris (1997) to identify lithologies and styles of mineralization. One of which was determined to be a sample of a brecciated shale with a possible volcanic component and containing pyrite and sphalerite.

Mapping of the Marcasite Gossan showed it to be a seafloor magmatic/hydrothermal vent. The Steen Vein was discovered in Cole Creek; it assayed 279 g/T Ag across a true width of 2.0 metres, flanked by 20 metres of hanging wall stockwork grading 20 g/T Ag. On the More Grid, another quartz-sulphide vein breccia (the “Baseline Showing”) was discovered 240 metres southwest of the Main Zone, assaying 6.21 g/T Au across 1.1 metres (Awmack, 1997).

1998 Exploration

In August and September 1998, Rimfire carried out 160 man-days of line-cutting, geological mapping, prospecting, soil sampling and backhoe trenching on the RDN property (Awmack and Baknes, 1998). Gridwork and soil sampling were conducted in five areas: Arctic Grid, NE Downpour Grid, Jungle Anomaly, South Downpour and Marcasite Gossan.

Three trenches totalling 129 metres were excavated on the Jungle soil geochemical anomaly using a Kubota KX-41 backhoe, operated under contract by Peak Explorations Ltd. of Smithers, B.C. No outcrop was encountered by the trenching, but homogeneous colluvium, thought to be locally derived, was present in each trench.

Geological mapping and prospecting was carried out at a scale of 1:2,500 over the new grids and between the Marcasite Gossan and Cole Creek. Three thin+polished sections were described by Dr. Jeff Harris (1998) to identify lithologies and styles of mineralization. One of these specimens was determined to be a pyritic exhalative chert with altered volcanic inclusions. Four fossils were collected and dated by Dr. Paul Smith of the University of British Columbia, however dating was inconclusive.

The NE Downpour Grid was laid out over the northeastern strike projection of the Jungle Anomaly, on the east side of Downpour Creek where no previous mapping had been done. There are no significant geochemical anomalies on the NE Downpour Grid.

The South Downpour gridwork consisted of a southward extension of the existing Downpour Grid to cover the projected extension of favourable stratigraphy onto the newly-acquired RDN 13 claim. Soil geochemistry is problematic through this area because of numerous talus fans and moraines, which have the effect of masking soil anomalies derived from residual soils. Limited soil sampling by Savell (1992) had indicated the presence of elevated Au values near the property's southern boundary, associated with the Boundary Zone Au-Cu veins. This was confirmed by the 1998 sampling, with two Au-rich samples from the vicinity of veining and the 1991 drilling.

Elevated Au values extend discontinuously for 1200 metres in a north-south direction from the head of Nelson Creek, through the pass into the headwaters of Downpour Creek and down Downpour Creek to Sand Lake. No sampling has been done along this trend north of Sand Lake, leaving the anomaly open in this direction. The Au values are not readily attributable to downslope dispersion nor can they be attributed to some sort of placer concentration. This anomaly marks the transition from the dacitic/trachytic volcanic package to the overlying mafic volcanic/sedimentary package on the west limb of the Downpour Anticline. This stratigraphic contact is equivalent to the host contact for Eskay Creek's 21 Zone ore-bodies. The Au soil anomalies could mark the presence of Au-bearing Eskay Creek-style stratiform sulphides.

A strong, multi-element Pb+Zn+Ag+Ba+Cu soil geochemical anomaly covers an area of about 400 x 700 metres. The anomaly remains open in the unsampled area to the north and may extend through an unsampled area into an anomaly 700 metres north. To the south, this anomaly extends discontinuously to the property's southern boundary, and is truncated by a north-south fault and Stuhini Group volcanoclastics to the east. Grab sample 459809 was taken just upslope from the heart of the anomaly; it contained 1.60% Pb and 3770 ppm Zn from patches of galena and sphalerite in weakly silicified dacite.

A restricted Pb+Au+Zn soil anomaly extends from 1100N 5250E to 1200N 5500E, with peak values of 558 ppm Pb, 0.085 ppm Au and 656 ppm Zn. Grab sample 130284, with 1.36% Pb, 0.190 ppm Au, 2930 ppm Zn and 2190 ppm Cu, was taken from sheared maroon agglomerate with patchy sulphides in the heart of this anomaly. This style of mineralization, which may be responsible for the remainder of the anomaly, appears to hold limited economic significance. A strong Cu-only soil anomaly covers an area of 600 x 200 metres along the western slope of

Downpour Creek between lines 1900N and 2500N. It remains open to the west, where the highest Cu values are also present, suggesting a source upslope from the soil grid. Grab sample 459827, with 1660 ppm Cu and 0.025 ppm Au, was taken from malachite-stained phyllitic argillite upslope and north of this soil anomaly, from rocks thought to be Paleozoic. Alternatively, the Cu soil anomaly could reflect unrecognized mineralization or higher background Cu levels in Paleozoic mafic volcanics(?) which appear to underlie this slope west of the inferred Forrest Kerr Fault.

Soil sampling, consisting of further 50-metre infill lines to the north, were established to ensure that the Jungle anomaly was closed off. This infill sampling confirmed previous results, adding definition to the main Au+As±Ag±Pb soil anomaly. In addition, a line through the heart of the Jungle anomaly, with a shallower “B” horizon soil sample and a deeper “C” horizon soil sample at each site returned very similar or slightly higher values for the deep samples relative to the shallow ones.

The reconnaissance-scale Arctic Grid was laid out on the west side of the north fork of More Creek. Previous mapping had indicated the presence of Hazelton Group rhyolite in this area; this was confirmed during mapping concurrent with the soil sampling. Analysis of soil percentile levels show the Arctic Grid to be almost entirely devoid of elevated base and precious metal values. Those which are present occur primarily as isolated 1-3 sample anomalies which do not extend between lines. The most noteworthy of these single-station anomalies occurs at 5400E 5800N, which lies between the Arctic and Bear Magnet Faults, on the eastern flank of a ridge of aphanitic rhyolite. No mineralization has been found to explain this anomaly.

1999 Exploration

In July 1999, Rimfire carried out an initial evaluation of the newly-staked RDN 11 and 12 claims from a fly camp in the Carcass Creek valley (Awmack, 1999). This was followed in August by a nine hole diamond drilling program based from a drill camp immediately north of the Marcasite Gossan. Geological mapping, prospecting, soil sampling and VLF-EM surveying were concentrated on the newly staked RDN 11 and 12 claims, which cover the bulk of Noranda’s 1990-91 drilling and a large, open-ended, multi-element soil geochemical anomaly reported by them. Geological mapping and prospecting were carried out at a scale of 1:2,500 over several areas on the property.

The Carcass Grid was laid out to cover the Noranda soil geochemical anomaly (the “Wedge Anomaly”) east of Carcass Creek and extend it to the north and west. This anomaly covers an area of 800 x 2,600 metres, remaining open to the north and west. The Wedge Anomaly is entirely underlain by the package of dacitic/trachytic volcanics which extends north from the Gossan Creek subvolcanic porphyry. It fringes the highly altered and pyritic subvolcanic porphyry, which is itself generally overlain by only background geochemical values; the porphyry may have served as the hydrothermal source for mineralization in the area of the Wedge Anomaly. Quartz-sulphide veining (collectively, the Wedge Zone) is common throughout the area underlain by the Wedge Anomaly. The southern portion of the Wedge Anomaly is dominated by Pb, Zn and As, with only erratic Au and Ag values. This corresponds to the Wedge Zone quartz-sulphide veins sampled in this area, with low ratios of precious to base metals.

The strongest portion of the Wedge Anomaly, particularly for Au, Ag, Cu and Hg, extends for 1,100 metres north along the eastern slope of Carcass Creek from the toe of the Carcass Glacier.

The Waterfall, Pear and Mick Zones and the Au-bearing veins intersected by Noranda's Wedge Zone drilling all lie immediately upslope from the southern 500 metres of this anomaly. However, the northern 500 metres is the strongest part of this anomaly and remains unexplained by the limited drilling done to date. The western portion of this anomaly, on the gentle slopes approaching Carcass Creek, is underlain by lateral moraines containing abundant boulders of quartz-sulphide vein float derived from Wedge Zone veins upslope and up-valley. The high soil values for this part of the anomaly have been transported and do not reflect underlying mineralization.

A clay-rich terminal moraine extends northeasterly from about 9900N 7725E on the Carcass Grid, effectively truncating the Wedge geochemical anomaly. However, beyond the northern edge of the end moraine, a few anomalous soil samples were taken; one sample on the northernmost line sampled contained 0.165 ppm Au, indicating the need for further geochemistry to the north. Gold-bearing quartz-sulphide float was also found in this area, which lies near the contact between the same dacitic package that hosts the Wedge Zone veins and the stratigraphically overlying upper Hazelton Group clastic sediments.

Two lines of contour soil samples and two lines of creek bank soil samples were run in the vicinity of a large rhyolite outcrop northeast of the Carcass Grid. Soil values were at background levels, with the exception of spotty high As, Cu and Hg values. The source of these high values is unclear; rock samples from this area were not anomalous.

A 7.4 line-km magnetic/VLF-EM survey was performed over the Carcass Grid in 1999, in order to define the location of the Forrest Kerr Fault and the areal extent of black argillite exposed in Carcass Creek. Most of the grid overlies thick lateral moraines, with outcrop control only on the eastern and extreme southern edges of the grid. This survey was conducted by Amerok Geosciences Ltd., the following discussion is largely based upon Power (1999).

"The VLF-EM survey detected a very weak, primarily contact-type anomaly...[that] follows the argillite/dacite contact where known from mapping and drill hole information...The character of the geophysical response strongly suggests that the contact between the two rock units is stratigraphic and not structural." The entire length of this contact anomaly is covered by moraines, but it does fit well with mapped outcrops at the extreme southern end of the grid. North of the grid, the argillite is in stratigraphic contact with dolomitic wacke; this anomaly shows the contact between argillite and an "electrically resistive rock", which is likely dacite at the southern end of the grid, but may be dolomitic wacke or another lithology further north. An enigmatic VLF-EM response, extending from 9700N 75257700E to 9800N 7500-7725E "is tentatively ascribed to conductive overburden or possibly to a flat to very gently dipping, shallow conductive rock unit." The overburden in this area between Carcass Creek and the Forrest Kerr Fault does not appear different from elsewhere, consisting of prominent ridges of lateral moraine; the conductor's source remains unknown.

"The total magnetic field survey recorded relief in the order of 120 nT over the entire grid. A region of positive magnetic response in the eastern portion of the grid area is coincident with the dacite unit. There are several isolated positive anomalies west of the dacite including a high amplitude response on the extreme western portion of the grid at 9800N 7450E." The Carcass Grid only crossed to the west side of the Forrest Kerr Fault on a few lines; the magnetic high at 9800N 7450E is underlain by weakly magnetic Devonian-Mississippian basalt. This magnetic high helps to constrain the location of the Forrest Kerr Fault.

Nine holes totalling 574.2 metres (1,884') of ATW and BTW core were drilled in August and September 1999. Microprobe analysis was done on one core specimen from hole RDN99-05 to verify the presence of rhodochrosite. One thin section from a 1998 rock sample was described petrographically by Dr. Jeff Harris (1999) and one core specimen was analyzed for mineralogy by SEM/EDS (Raudsepp and Pani, 1999). Thin section examination and whole rock geochemical interpretations classify this sample as a breccia flow or tuff of rhyolite to rhyodacite/dacite composition.

2000 Exploration

The RDN property was optioned by Newmont Exploration of Canada Limited in early 2000 (Awmack, 2000). Newmont carried out a UTEM ground geophysical survey in June and July 2000, accompanied by limited mapping, prospecting and soil geochemical sampling. Limited geological mapping was also conducted during the layout and surveying of the UTEM grid. In addition, mapping, prospecting and contour soil sampling were carried out in the previously unexplored terrain between the Carcass and More Grids on the RDN 10 and 11 claims.

Contour soil sampling, carried out entirely in the relatively barren “hanging wall” clastic/basalt sequence of the Hazelton Group did not yield any significant soil anomalies. Silt samples results were uniformly low, reflecting the relative lack of mineralization in the Hazelton Group “hanging wall” clastic/basalt package and the Devono-Mississippian rocks which these streams drain.

The UTEM survey, totalling 26.8 line-km, was designed to test 6.7 kilometres of the “Eskay-equivalent” stratigraphic contact between the “footwall” felsic volcanics and the “hanging wall” mafic/clastic package. UTEM survey lines, spaced 200 metres apart, were chained, slope-corrected and cut where necessary, mainly from existing cut baselines. Due to heavy snow, the lines in the South Downpour area (L900N-L2500N) had to be run from a new baseline. Stations were marked by blue pickets and green flagging, to differentiate them from the existing soil stations with pink and blue flagging. In keeping with the orientation of the pre-existing soil grid, UTEM survey lines were run at 088.5°/268.5° on the Downpour Grid and 090°/270° on the Carcass Grid. The existing baseline “200E” was relabelled “5200E” from L2700N to L5100N, to fit with nomenclature on the South Downpour Grid. The UTEM survey was contracted to S.J. Geophysics Ltd. of Delta, B.C. and results and interpretation were reported separately by Jim Wright of Newmont (Wright, 2000).

Wright (2000) described six UTEM conductors *comments by Awmack (2003) in italics*:

Zone A (Carcass Creek and Downpour Creek): This corresponds to the Forrest Kerr Fault on the twenty-three (23) lines which crossed the fault. The fault is interpreted to have graphite and/or sulphides on the fault plane. This graphitic material coupled with the relatively large size of the conductor produces the very low channel responses.

Zone B (Carcass Creek, lines 9000-10200N): This zone lies within the prospective lithologies and is of a scale similar to Eskay Creek. The responses on lines 9200 and 9400 indicate a good to excellent conductor. Sulphides are indicated. A depth to source of 30 metres is indicated with a westerly dip. The lessening of channel responses to the north and south would be consistent with an Eskay type anomaly, where variable conductivity is to be expected. From a geophysical standpoint, this is the most attractive anomaly on the property. *This conductor coincides well with*

the position of the dacite/clastic contact inferred from the 1999 VLF-EM survey. Where exposed upslope to the east, the dacite is altered and host to widespread gold-bearing quartz-sulphide veining, which could represent footwall alteration/mineralization to an Eskay Creek-style seafloor mineralizing system.

In particular, the Waterfall Zone is a >20m wide zone of intense sericitization with abundant discontinuous quartz-sulphide veining which trends 280-300° and dips steeply to the north, hosted by the footwall dacite. Noranda reported up to 44.3 g/T Au in a 1-metre chip sample from one of these veins. The vein/alteration zone appears discordant to the felsic stratigraphy and may represent a feeder system similar to Eskay's 109 and Pumphouse zones. It projects to the felsic/clastic contact at L9400N/7675E, very near the axis of Zone B.

Zone C (Downpour Creek, lines 6300-6700N): This is a flat-lying conductor near the Jungle Zone. The conductivity is not very high, but the zone appears to be of significant volume. Width of the flat-lying body approaches 200 metres. This should be examined as a possible overburden response. *The central portion of this anomaly overlies thick ferricrete; the northern and southern parts are not well-exposed.*

Zone D (Marcasite Gossan area, lines 4100-4900N): This is a conductor of intermediate conductivity. Its axis passes between the Upper and Lower Marcasite Gossans and was cut by drill hole RDN99-05, which did not intersect a conductive lithology. However, black argillite was mapped a few tens of metres to the south along strike and clastic massive pyrite cobbles are thought to have been derived from syngenetic sulphides deposited above the Lower Marcasite Gossan. The clastic massive sulphides cobbles, however, contain low base and precious metal values.

Zone E (east of Marcasite Gossan, lines 3300-4300N): The surface trace of the zone falls within the overlying mafic volcanics. Depth to source on line 4100N is approximately 150 metres; however, the long wavelength nature of the response makes a definitive interpretation difficult. The northern part of the zone (i.e. lines 4100N and 4300N) may be indicating a conductor at the favourable horizon. *This would be down-dip from the Marcasite Gossan, where we have documented sea-floor venting of hydrothermal fluids, certainly an interesting spot to search for more sea-floor sulphide accumulation, possibly with better grades.*

Zone F (Nelson Creek, line 900N): One line response near the Boundary Zone, perhaps an extension of the Boundary Zone. There is no outcrop in the immediate vicinity of this conductor, but hole RG91-30 was drilled within dacite, a few tens of metres to the south. Veining in the Boundary Zone area is felsic-hosted massive pyrite-chalcopyrite; the response may be due to one of these veins.

South of Zone C, Wright (2000) marked an unnamed conductor at L6100N/1025E. This lies very close to the sphalerite-bearing altered dacite outcrops that have been described as possible footwall alteration; the conductor should be re-examined in that light. East of Sand Lake, at the head of Downpour Creek, Wright indicates a two-line conductor (lines 2500-2700N), along the contact between dacite and the "hanging wall" basalt. Immediately downslope is the unexplained South Downpour Au soil geochemical anomaly which parallels this contact for 1,300 metres and could be related to Eskay Creek style mineralization along it.

2001 Exploration

Newmont carried out a two phase exploration program of ground electromagnetic surveying and diamond drilling in June and July, and September 2001 (Stammers and Montgomery, 2001). Limited frequency domain (Max-Min II+) electromagnetic surveying, totalling approximately 525 line-metres on two lines in the Wedge and Marcasite Gossan Zones, was conducted by SJ Geophysics Ltd. to confirm 2000 UTEM anomalies. The Max-Min survey confirmed the presence and location of UTEM anomalies on these two lines, and that other UTEM anomalies could be reliably drilled with no additional groundwork. The Max-Min survey did not add significantly to interpretations of the UTEM data and was not as effective as UTEM surveying in this terrain.

A total of 2,255.82 metres (7401 feet) of NQII diamond drill holes were cored in 13 holes, including ten holes in the Wedge Zone, and one hole each at the Boundary, Sand Lake and Downpour Creek Zones. The holes were drilled by the Major Drilling Group of Smithers, BC. utilizing a JT2000 portable fly rig. The drill holes, which ranged in length from 90 to 300 metres, targeted UTEM electromagnetic conductor axes. Each hole was logged for lithology, alteration, mineralization, structure, core recovery, and rock quality density (RQD). Diamond drill core is stored at two locations; core (Holes RDN01-10 to -13 and RDN01-17 to -22) from the Wedge Zone is stored in durable 4 x 4 post racks at More Creek camp while holes RDN01-14 to -16 are safely cross-stacked near the 1999 core at the Marcasite camp site on Downpour Creek.

Seven samples from drill core were selected for petrographic examination by PetraScience Consultants Inc. (Gale and Thompson, 2001a and 2001b). Two samples from drill hole RDN01-11 and RDN01-13 were determined to be pervasively silicified and sericite-siderite altered feldspar-porphyrific volcanic rocks containing sphalerite, pyrite, chalcopyrite, galena, tennantite, and tetrahedrite. SEM analysis of the sample from RDN01-13 identified native Bi and an unidentified species of Pb-Bi-Ag. A second sample from RDN01-11 was determined to be a breccia with potassium feldspar-rich lithic and crystal fragments that contains orpiment, sphalerite, chalcopyrite, tetrahedrite-tennantite, galena and pyrite. The remaining four samples were from hole RDN01-17, the most significant of which consists of a sericite-quartz-carbonate zone in contact with massive sulphides comprising sphalerite, chalcopyrite, pyrite, galena and tetrahedrite-tennantite. Contact relations suggest that the massive sulphides are not of vein origin and may be of replacement origin. The other specimens are of; flow breccias with feldspar-biotite porphyritic lithic clasts, sphalerite, pyrite and tetrahedrite-tennantite, and sericite-carbonate-calcite altered porphyritic rock with potassium feldspar, quartz and plagioclase phenocrysts, sphalerite, pyrite, chalcopyrite, galena and tetrahedrite-tennantite.

2002 Exploration

Subsequent to Newmont electing to terminate their option in 2001, the property was then optioned to Homestake Canada Inc. Homestake staked additional claims and conducted detailed geological mapping, sampling, prospecting, soil and stream sediment sampling, and diamond drilling in 2002 (Gale et al, 2003). Nine angled NQII drill holes, including one auto-wedge hole, totalling 1,092.11 metres (3,582 feet) were cored by Hytech Drilling Ltd. of Smithers, B.C. utilizing a Tech4000 portable fly rig. Eight of these holes, which ranged in length from 20 to 320 metres, were cored in the Jungle Zone area and the ninth hole was collared 700 metres to the northwest of the Jungle Zone and targeted the stratigraphy around the Carcass Creek Fault. Each hole was logged for lithology, alteration, mineralization, and structure. A temporary logging and core

sampling facility was set up at Equity's Marcasite Drill Camp on Downpour Creek and 2002 core is safely cross stacked at this camp.

Geological mapping on the RDN and MOR properties was ongoing throughout the drilling program, and the main focus was examining areas that had received limited attention in the past and that are underlain by volcanic rocks similar to the Eskay Creek stratigraphic package. These areas included, from north to south; the Arctic Grid, the DK area (situated approximately 2 km northeast of the Wedge Zone), the Carcass Fault, and the valley west of the South Gossan.

Significant soil anomalies were identified in two zones; the DK and MOR 2 Zones. The DK Zone anomaly consists of an As-Hg-Sb anomaly (highest As, 5th highest Hg, and the 2nd highest Sb value in the 2002 program). The anomalous sample is underlain by mudstone/siltstone about 100m west of rhyolite. The MOR 2 claim area northeast of the DK Zone is also significant because of four samples with multi-element anomalies underlain by tuffaceous dacite, mudstone/siltstone and tuffaceous andesite. In addition to numerous single element anomalies, this area is marked by anomalous Ag, Sb, Zn, As, and Hg.

2003 Exploration

Exploration by Barrick in 2003 (Mann and Gale, 2004) consisted primarily of field checking rock, silt and soil geochemical anomalies stemming from work in 2002. The work was focused on the Arctic and Boundary (South Downpour) areas based on the presence of felsic volcanic rocks and/or Eskay-type geochemistry. Geological mapping identified pyritic rhyolite units in both areas. In the Arctic area, a contact between rhyolite and mudstone was traced 1.9 kilometres across the Arctic West grid. Silt sampling and soil sampling for mobile metal ion (MMI) analysis did not detect any anomalous results. However, high organic content in the samples essentially discounted the MMI results. In the Boundary area, work focused on a small rhyolite outcrop area, later to be called the RTB Zone, and altered rocks within Hazelton stratigraphy near the east edge of the claim block. Sampling did not detect significant gold mineralization but returned values up to 300 g/T Ag. The results were interpreted to indicate no Eskay-style deposit in the Boundary area.

High grade gold results from outcrop and float boulders on the west side of the Forrest Kerr Fault were also investigated. A discontinuous, sulphide vein in Paleozoic rocks returned 5.24 g/T Au (sample 02313). The source of auriferous float, which assayed 6.18 g/T Au (2002 sample 02329), was not located.

2004 Exploration

In 2004, Northgate Minerals Corporation agreed to terms with Rimfire to option the RDN property and completed a large, comprehensive exploration program aimed at drill testing the Wedge Zone, Marcasite Gossan, and Jungle Anomaly. As well, geological mapping, prospecting and soil sampling was done in several under-explored areas of the property including the Blind Fault area, Marcasite Gossan hanging wall area, the north Downpour Creek area, and the Arctic area. The 2004 diamond drilling program, totalling 2498.74 metres of core in nine holes (2420.41 m NQ, 78.33 m HQ), was directed at the potential for Eskay Creek-style VMS mineralization along the contact between the lower Jurassic dacite and the "hanging wall" basalt/clastic sediment package, particularly in the Wedge Zone. Three holes were directed at similar targets in the Marcasite

Gossan (RDN04-038, 039) and Jungle Anomaly (RDN04-037) areas. Each hole was logged for lithology, alteration, mineralization, and structure. The core was logged and stored at the camp at the mouth of Carcass Creek.

Sampling indicated an anomaly north of the Blind Fault that is defined by highly to very highly anomalous Pb, Zn, Ag, and Sb soil and rock geochemistry. These results are associated spatially with a clastic to pyroclastic, porphyritic dacitic volcanic package and cover an area of 850 metres north-south and 450 metres east-west. The anomaly is cut off to the south by an area of relatively poor soil sampling medium in the area of the RTB Zone, and so the anomaly may be considered open in this direction. To the north, the anomaly is limited primarily by the extent of sampling. Highly to very highly anomalous results for arsenic are more restricted, more closely associated with faults identified in the RTB-Red Creek area and the Bench Fault which bounds the Jurassic stratigraphy on the east. Highly anomalous mercury shows a still narrower trend, possibly indicating structural control, extending north along the RTB-Red Creek trend for about 500 metres, from about 100 metres south of the RTB. As well, spotty anomalous mercury in soils and, to a lesser extent, gold follow the general trace of the Blind Fault for about 1000 metres southwest towards the Boundary Zone. Moderately to highly anomalous copper geochemistry occurs peripheral to the main showings, and lies above the RTB Zone, adjacent to the Bench Fault.

Limited soil sampling detected several arsenic-mercury-antimony anomalies along the north-south baseline east of More Creek in the Arctic Area. The section of the baseline from Cougar Creek to south of Slime Creek is moderately to very highly anomalous for arsenic, mercury and copper, with weakly anomalous results for antimony and gold over 1200 metres. Another section of the baseline has moderately to highly anomalous results for arsenic and weakly to moderately anomalous results for antimony and mercury from Grizzly Creek to 450 metres south. A third anomaly is present about 500 metres up Black Bear Creek, north of More Creek. Soil samples scattered over an area of 600 by 600 metres have moderately to highly anomalous results for copper and gold. One very highly anomalous result of 0.124 ppm Au in soil occurs in this area, associated with very highly anomalous arsenic and antimony. This area surrounds two rock samples that contained over 0.800 and 0.100 ppm Au in carbonate altered and quartz veined volcanic rocks.

Soil sampling in the steep terrain of the North Downpour area consisted of a few contour sample lines at points where the slope was traversable. These lines tended to be fairly high up the east-facing slopes and as such do not test the eastern, or lower, section of the stratigraphy in this area. Soil sample results do not define any anomalies of significant size. Two contour lines, covering an area 450 by 250 metres on the upper slope, have moderately to very highly anomalous arsenic with spotty highly anomalous copper and weakly anomalous antimony. This anomaly occurs in the same area as anomalous nickel in silt results. The anomaly is probably related to a gabbro to diorite intrusion within the sedimentary-volcanic package.

2005 Exploration

In 2005, Northgate funded another large exploration program on the RDN property for Rimfire. The program included detailed grid soil sampling and mapping in the Arctic East grid area, detailed mapping and surface rock sampling in the Blind Fault area, and follow up diamond drilling. The 2005 diamond drilling program, totalling 1470.66 metres of core in six holes, was directed at

the potential for Eskay Creek-style VMS mineralization in two areas; 4 holes on the RTB Zone in the Blind Fault area, and two holes on the rhyolite-mudstone contact in the Arctic Grid area.

Grid soil sampling off BL 5000E was done on the east Arctic Grid areas in 2005. Soil results from the area along Baseline 5000E, from 7500N to 8300N and approximately 4900E to 5300E, commonly have highly to very highly anomalous values for arsenic and mercury, with spotty moderately to highly anomalous results for silver and gold. This anomaly contains up to 7.730 ppm Hg and 560 ppm As. Gold values range up to 0.060 ppm but significant samples are scant. Another similar As-Hg soil anomaly trends north-northeast and lies west of and along baseline 5000E from 9000N to 10000N. This anomaly apparently corresponds with interbedded volcanic units in a coarse clastic sedimentary section and is 150 to 250 metres wide. This anomaly contains samples with up to 481 ppm As.

The area north of More Creek and west of Grizzly Creek did not produce any significant soil geochemical anomalies. However, a large portion of this area is inundated with glacial drift and the boulder population does not reflect the local geology.

2006 Exploration

A multi-faceted exploration program was completed in 2006 (Jones, November 2006) in the northern portion of the RDN claims over the Arctic area. Activities included an airborne geophysical survey, diamond drilling, geological mapping, prospecting and soil geochemical sampling. A 740 line kilometre geophysical survey was completed using Fugro's RESOLVE electromagnetic-magnetometer system, which produced magnetic, resistivity, and conductor maps. A complete report on this geophysical survey can be read in the 2006 Assessment report by Jones (November, 2006).

Four diamond drill holes totaling 1350.05 metres of NQ core were collared in the Arctic west area in search of potential for Eskay Creek style VMS mineralization. Three holes tested the upper contact of the rhyolite and fine to coarse grained clastic sediment while the fourth encountered difficult ground conditions and was stopped in the sedimentary unit. No significant mineralized horizons were intersected aside from disseminated pyrite and localized elevated Pb, Zn and Ag values.

Geochemical sampling produced 178 rock, 16 silt and 331 soil samples. Thirty five whole rock samples were taken from a combination of rock and core samples. The sixteen silt samples tested moderately anomalous for Au, Ag, Hg, Cu and Zn and alternately highly anomalous for Sb, Mo and As. The fill-in soil sampling was successful in identifying a fairly continuous narrow linear anomaly that tested moderately to highly anomalous in As, Sb and Hg and moderately anomalous in Au and Ag.

Forgold Claims

This section on historical exploration on the Forgold claims was taken from von Einsiedel (2004). Exploration on the current Forgold Property group dates back to the 1980's. The current Forgold Property covers several historic exploration properties. To simplify the summary of previous

exploration work the current Forgold Property is subdivided into three areas: the Forgold northeast area, the Forgold central area and the Forgold south area. There is one reported Minfile mineral occurrence (Minfile No.104B-376: Forgold) on the current Forgold Property. The exploration history that has occurred within Forgold north, central and southwest is discussed below and is summarized in Table 3.

Operator	Geochem	Geophysics	Trenching	Drilling	Reference
Ecstall Mining Corp Omega Gold Corp	17 rock, 27 silt				Nicholson (1989) ARIS: 19634
High Frontier Resources	171 rock, 194 silt, 30 moss mat, 4 soil				Walker & Gal (1990) ARIS: 20598
Ecstall Mining, Omega Gold and Manridge	90 rock, 30 silt, 15 moss mat, 1 soil				Termuende (1990) ARIS: 20540
Carmac Resources	24 rock, 24 silt				Atkinson and Leriche (1990) ARIS: 20533
Canadian Cariboo Resources	54 rock, 19 silt, 876 soil				Pegg (1990) ARIS: 20932
Santa Marina Gold Ltd.	116 rock				Malensek et al. (1990) ARIS: 20722
Gold Fields Canadian Mining	244 rock, 1475 soil				Ronning (1991) ARIS: 21868
Homestake Canada	24 rock, 3 silt, 101 soil				Marsden and Bozek (1991) ARIS: 21016
Kennecott Canda Inc.		425 km VLF- EM, Mag, Resistivity			Fields (1992) Aris: 22102
Gold Fields Canadian Mining	670 rock			5 holes	Bond (1992) ARIS:22623
Northgate Exploration	15 rock, 5 silt				Edmunds (2003) ARIS: 27172
Rimfire Minerals Northgate Minerals	51 rock, 7 silt, 308 soil				Jones (2006) ARIS: 28106
Azincourt Resources Corp.	281 soil				Nicholson (2011)
Azincourt Resources Corp.	1743 soil, 127 rock				von Einsiedel (2013)
TOTALS:	1603 rock, 309 silt, 4789 soil, 45 moss mat				

Table 3 Exploration History on Forgold Claim Group

Forgold—Northeast

In 1988 the Forgold northeast area was staked as the For Property for Ecstall Mining Corporation and Omega Gold Corporation to cover favourable Triassic volcanic rocks and Jurassic volcanic and sediment rocks mapped in the area by the Geological Survey of Canada. The 1989 exploration program included geologic mapping, reconnaissance stream sediment survey (27 silts) and reconnaissance rock sampling (171 rocks). A number of silt and rock sample assay results were encouraging and combined with the reconnaissance mapping resulted in Nicholson (1989) to recommend further prospecting and sampling in the areas of encouraging assay results. In 1990 the area was revisited and a detailed mapping and sampling project (171 rock; 194 silt; 30 moss mat; 4 soil) corroborated previous (1989) anomalies and delineated new target zones. Several samples reportedly returned copper assays with 1-2% copper and one assay up to 15% copper. Copper mineralization was found to be hosted in narrow fractures. Walker & Gal (1990) recommended that anomalous values of copper, lead and zinc should be followed up to ascertain whether the mineralization is restricted to thin fractures, or if larger mineralized bodies are present. In 1991 an airborne magnetic, electromagnetic and VLF-EM survey flown by Kennecott covered the For Property. A total of 425 linear kilometres was flown with 100m line spacing. The survey identified one conductor on the property. The geophysical survey was never followed up and none of the anomalous base or precious metal samples were followed up by detailed soil geochemical surveys that can be used to identify larger buried mineralized bodies.

Forgold—Central Area

In 1989 the Forgold central area was staked for Ecstall, Omega Gold Corporation and Manridge Exploration Limited. Preliminary stream sediment sampling (30 silt and 15 moss mat samples) of the west-facing slope of the Nelson Creek valley returned very encouraging concentrations of gold, silver and copper, as well as anomalous lead, zinc and mercury values. Both base and precious metal mineralization were apparently related to an extremely leached, sericitic altered zone trending north-northwest to south-southeast along the west facing valley wall and the focus of work was shifted to this area.

In 1990, Santa Marina Mining optioned the claims from Ecstall, Omega Gold Corporation and Manridge Exploration Limited. Santa Marina Mining collected 116 rock samples that reportedly returned anomalous base and precious metal assays.

In 1991, GoldFields optioned the claims from Ecstall. GoldFields and collected 244 rock samples and 1475 soil samples for assay. The soil geochemical survey was successful and identified three anomalous zones (Zone A, B and C in Figure 4 and in Appendix) within the leached, sericitic altered zone along the west side of the valley. The rock samples confirmed the presence of widespread copper, lead, zinc, silver and gold mineralization.

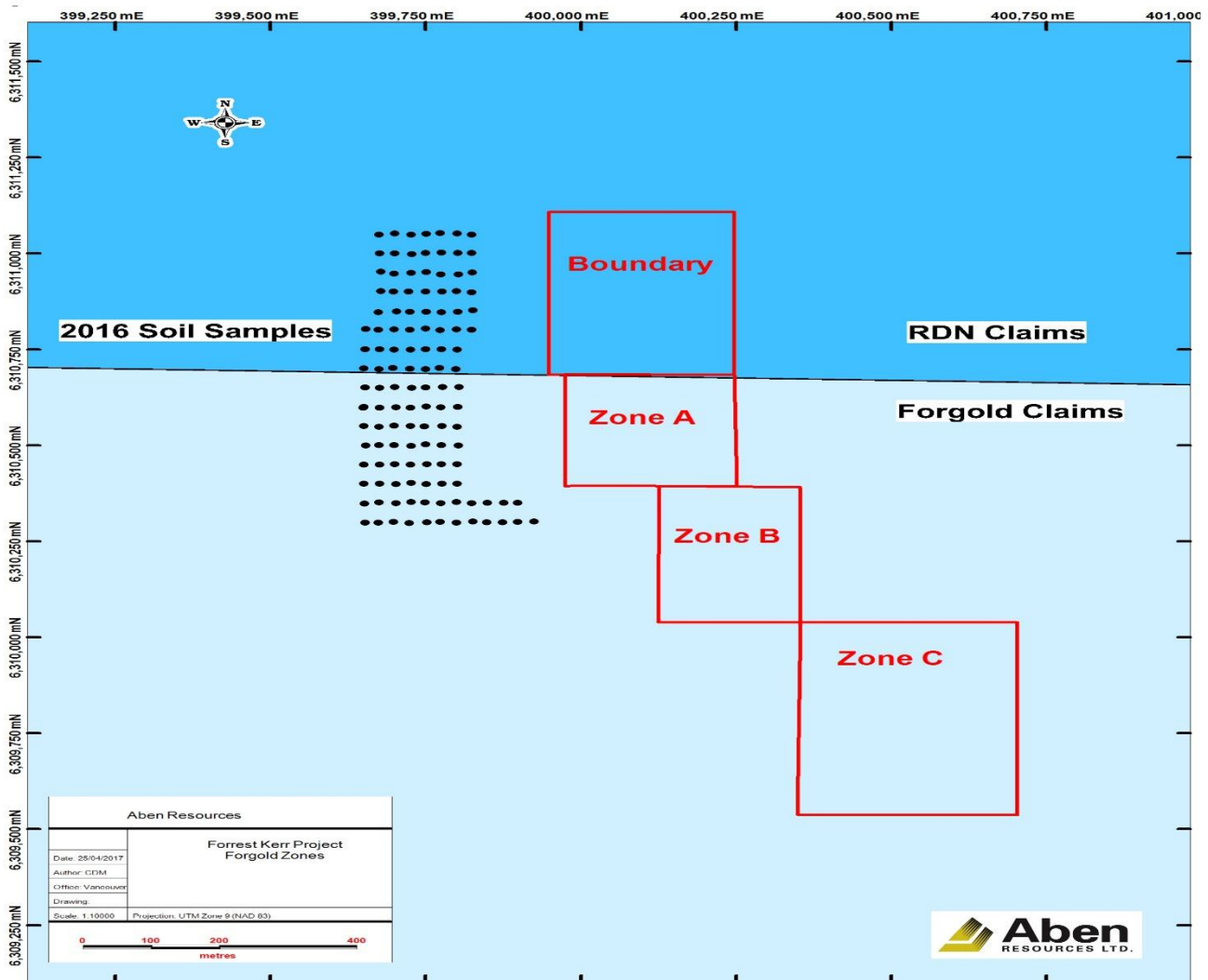


Figure 4 Forged Zone locations

Later in 1991, Goldfields carried out a limited drill program completing a total of 935m from 5 holes in the northern part of the 2,000 metre long soil geochemical anomaly that was defined by the soil sample data. The first four drill holes (FG - 1, 2, 3, and 4) were designed to test the southern strike extent of the Noranda/High Frontier drill intersection which reportedly intersected an 11.6 metre interval that averaged 23.9 g/T Au (The Northern Miner, Sept. 1991). Two significant zones of gold mineralization were intersected in holes FG-2 and FG-3 (0.113 oz/ton or 3.90 g/T) Au over 1.58m and 0.56 oz/ton (19.20 g/T) Au over 0.82m respectively). Hole FG-5 did not encounter any significant gold mineralization but did intersect two narrow zones of copper mineralization (2.97% Cu over 0.31 m and 1.14% Cu over 1.16 m respectively). It is important to note that subsequent re-staking of the claims resulted in the boundary between the properties being shifted several hundred metres to the south and as a result drill holes FG 1-4 are actually located on the RDN claims immediately north of the current Forged Property claim boundary.

No rigorous statistical analysis of the soil sample results was ever done. The results were interpreted by plotting them on plan maps and inspecting them for significant patterns. For each element certain values were selected and plotted on the plan as contours to help distinguish patterns. Based on the drilling Bond (1992) concluded that the gold mineralization is narrow and discontinuous, however, the amount of drilling to date has not tested the highly anomalous geochemical signature that extends well over 2 km in a north-south trend and is over 500m wide. A geophysical survey was referred to by Ronning (1991) and Bond (1992), however, no accompanying results or interpretation has been made available in the public domain.

Forgold-- Southwest

The Forgold southwest area has been staked by several mining companies since 1989 including Rimfire Minerals and Northgate Exploration, Homestake Canada, Canadian Cariboo Resources and Carmac Resources. Reconnaissance type geochemical surveys and prospecting have been carried out and several anomalous sample results have been reported. A systematic evaluation of the historic data is required to define targets for follow-up exploration.

2012-2103 Exploration

The Forgold central area was the target for the 2012 and 2013 exploration programs, 1743 soils and 127 rocks were collected during this two year program. Tightly spaced soil grids were concentrated over the previously mentioned Zones A-C (Figure 4). A small soil grid was also completed on the RDN Boundary Zone. The soils were collected from north-south lines at 10 metre intervals. The lines were spaced 25 metres apart except the northern portion of the RDN Boundary Zone where the lines were spaced 50 metres apart. The soils were collected from well developed "C" horizon at a depth of 20 to 50cm.

The RDN Boundary Zone grid was established to understand the mineralization and soil geochemistry of Goldfields drilling program. The grid contains 300 soil samples and 19 rock samples. The area contained around 15% rock outcrops in creek draws and small cliff sets surrounded by steep slopes of wildflowers and weeds. The geology was predominantly volcanics with small zones of intense quartz-carbonate veining and a few small mafic dykes.

The northern extent of the grid is located 430 metres north of the Forgold claim block and contains 6 soil lines, 350 metres long and spaced 50 metres apart. Samples were collect at ten metre intervals and covered the area of four of the historic drill holes FG-1 to FG-4 including two old BQ sized drill holes that were never recorded for work. Anomalous rock samples from this area include a 30 cm chip sample of siliceous veinlets in a volcanic host rock with massive chalcopryrite that returned values of 53.9 ppm Au, 188 ppm Ag and 25.0% Cu (sample 1132956) and a 30cm wide shear zone with weathered pods to 15cm of coarse grained chalcopryrite returning values of 153 ppm Ag, 1.9% Pb and 22.6% Cu (sample 1132955). The soil grid returned values as high as 4520 ppm Cu with 4.6 ppm Ag (sample 050950) and numerous anomalous copper values from 1500-2460 ppm Cu near the old drill holes.

Another small, tighter soil grid covered the remaining 80 metres to the Forgold claims. The grid ties into the Zone A grid and contains twelve north trending soil lines, 70 metres long spaced 25 metres apart. Soil samples were collected at 10 metre intervals and covered a steep creek draw and associated small cliffs that contained numerous quartz-calcite veins with localized zones

containing abundant chalcopyrite. This zone also covers the southern extent of two north trending mafic dykes, one contains 61.8 ppm Au, 13.3 ppm Ag and 2.47% Cu (sample 1050864), and another 56 metres west containing 0.34 ppm Au, 153 ppm Ag and 21.1% Cu over 50cm. The soils on this grid correlated moderately well with the rock samples collected and introduced the mafic dykes as a new target for exploration.

Zone A ties the “Boundary Zone” on the RDN claims into the Central Area of the Forgold property. This zone has a marked decrease of outcrops with about 5% of the zone as rock. The soil grid consists of 12 lines at 25 metre spacing with samples at 10m intervals for a total of 348 samples. The copper values showed a weak correlation with the rock samples that were collected, with only a small anomalous zone containing one or two samples directly downslope from known mineralization. The best example of this is a zone containing a 50cm wide massive chalcopyrite vein trending NNE. The vein was traced out to 6.5m in length before it disappears under thick overburden on both sides. A 50cm chip sample across the vein returned 0.36 ppm Au, 211 ppm Ag and 30.8% Cu (sample 1050870). A soil sample directly below the showing returned a copper value of 2,590 ppm (sample 150590) with one single soil sample 28 metres downslope from this zone returning 1,235 ppm Cu (sample 125580) surrounded by low soil values. An area deemed the Willy showing was located on a steeply incised creek valley that drained west into Nelson creek. This area encompasses a 30x15 metre zone of moderate to intense quartz-carbonate veining and quartz flooding in grey volcanics containing large amounts of chalcopyrite and minor galena. Rock samples from this area ranged from 0.136% to 1.095% Cu with one sample returning 6.45 ppm Au, 25.4 ppm Ag and 4.7% Cu (sample 1050769). A minor soil anomaly consisting of six soil samples surround the showing with values up to 861 ppm Cu (sample 225520).

The downslope dispersion distance for mineralization in soils for copper, and the lateral extent appears quite limited. This indicates the importance of each anomalous copper value in individual soil samples and that a tight soil grid is essential to delineate the mineralized zones.

Zone B grid consists of 360 soil samples collected from 10 soil lines spaced 25 metres apart with samples collected at ten metre intervals that cover an area with historic high gold values. Rock outcrop is limited to three steeply incised creek draws and a total of 16 rocks were collected from the grid area. The soil samples outlined two large anomalous zones trending downslope, and follow the outskirts of the creek draws. Some of the more interesting rock samples located within this grid includes a sample of quartz/sericite schist with 9.52 ppm Au and 4.1 ppm Ag (sample 1132963), a 25cm wide siliceous horizon with sphalerite and chalcopyrite containing 3.34 ppm Au, 10.4 ppm Ag and 19.85% Zn (sample 1132567) and a sample of siliceous volcanic with minor calcite veins and sphalerite containing 10.9 ppm Ag and 21.5% Zn (sample 1132566).

Zone C was established in 2013 to cover the gold and copper in soil anomalies from historic work. The grid consists of 735 soil samples from 15 north-south lines. The lines were spaced 25 metres apart with 10 metre samples intervals. This grid zone had very little rock outcrop but the soil assays outlined a large copper in soil anomaly on the eastern portion of the grid with numerous samples over 1000 ppm Cu. A very interesting zone of siliceous volcanics with quartz veins was located on the west side of Nelson creek. Samples collected from this area includes a grab sample volcanic host rock with numerous small quartz veins with chalcopyrite that returned values of 28.3 ppm Au, 18.7 ppm Ag and 2.31% Cu (sample 1132551).

During the 2013 field season DGW Explorations completed a reconnaissance geophysical survey program on the Forgold property. The mandate of the program was to carry out a total magnetic field survey over the soil geochemical surveys to determine if a magnetic and soil anomaly relationship exists and to aid in the geological interpretation of this area. The Forgold geophysical survey consisted of 13 North-South lines and 5 east-west line. A total of 13 line km of magnetic data was collected over these north-south east-west lines, covering an area of 1.3km². A total of 1500 individual magnetic readings were collected at 1500 stations. Station spacing was 10m. Labels for the grid were based on UTM positions of the stations.

Forrest Claims

This section on historical exploration on the Forrest claims is taken from Awmack (2013). Table 4 summarizes all known exploration work carried out on the ground currently comprising the Forrest property.

Operator	Geochemistry	Geophysics	Drilling/ Trenching	Reference
Pamicon (1988)	rocks			AR 18316 (Todoruk and Ikona, 1988)
Avondale (1989)	15 heavy minerals, 16 silts, 3913 soils, rocks	Ground: 54.6 km EM16R-resistivity, 54.6 km magnetics	trenching	(Todoruk et al., 1990)
Avondale (1990)	2899 soils, 356 rocks	Ground: 24.5 km VLF, 24.5 km magnetics, 1.5 km IP, 6.0 km UTEM	34 trenches (1,471m); 24 BQ DDH (2,498m)	AR 20562 (Stammers and Ikona, 1990; Stammers et al., 1991)
Abacus (1994)	209 soils, 66 rocks		trenching	AR 23629 (Todoruk, 1994)
Meridian Peak (1995)	86 soils, 52 rocks	Ground: 16.3 km VLF, 16.3 km magnetics	11 NQ DDH (1,421m)	AR 24156 (Scott and Ikona, 1995; Visser, 1995)
Central (2007)	rocks			AR 31193 (Jones, 2009)
Misty Creek/Pamicon (2009)	19 rocks			AR 31193 (Jones, 2009)
Astar (2011)	32 silts, 573 soils, 57 rocks			AR 32548 (Lehtinen, 2011)
Astar (2013)	7 silts, 452 soils, 23 rocks	Airborne: 428 km VTEM/magnetics/radiometrics		Awmack (2013), Fiset et al. (2013)
Totals:	15 heavy minerals, 55 silts, 7934 soils, rocks	Airborne: 428 km VTEM/magnetics/radiometrics Ground 95.4 km magnetics, 1.5km IP, 6.0 km UTEM	35 DDH (3,919 m) trenching	

Table 4 Exploration on the Forrest claim group

The original Forrest claims were staked by Pamicon in October 1987 to cover quartz veins exposed above tree-line. No previous work had been documented in the property area, but the entire Iskut River district was undergoing extensive exploration following the discovery of the Johnny Mountain and Snip gold deposits thirty kilometres to the southwest. In 1988, Pamicon carried out initial prospecting of their Forrest claims, identifying a number of Cu and Au-bearing occurrences in four areas distributed in a band seven kilometres long on the west side of the West Slope Fault, a NNE-striking fault of regional extent (Todoruk and Ikona, 1988).

In 1989, Avondale Resources Ltd. (“Avondale”) optioned the property and carried out a comprehensive exploration program that summer, comprising conventional silt and heavy mineral

stream sediment sampling, extensive soil sampling over the Forrest and South Central grids and along contour lines, mapping, prospecting and blast-trenching of showings. The geochemical surveys showed extensive Au and base metal anomalies. A magnetometer/EM-16R resistivity survey was carried out over both grids (Todoruk et al., 1990).

In 1990, Avondale carried out extensive exploration on the Forrest property, including mapping, prospecting, grid-based geochemical and geophysical surveys, mechanical trenching and drilling. Three test lines of induced polarization (“IP”) were run in the Goldpan Showing area, revealing a strong chargeability high subsequently shown by drilling to be due to graphitic phyllite. Nine UTEM lines were surveyed over the Forrest and Fifty zones without revealing significant conductors. VLF-EM and magnetometer surveys were run over several mini-grids and test lines, helping to define lithological trends and faults. Soil sampling was done over three new grids (North, Central and South), with limited infill sampling on the two existing grids and a few contour soil samples. Grid sampling was generally done at 25 metre intervals along lines spaced 100-200 metres apart. The soil geochemical results showed numerous Au±Cu±As anomalies, both associated with known mineralization and in other areas. By 1990, thirty mineralized showings had been recognized along 8.4 kilometres of the West Slope Fault. Drilling tested nine showings with mixed results; the best drill intersections were from the Creek Showing (90A-05: 39.7m @ 1.97 g/tonne Au, 0.77% Cu; 90A-13: 12.0m @ 5.79 g/tonne Au, 0.83% Cu) and Canyon Showing (90A-15: 1.5m @ 19.4 g/tonne Au) (Stammers and Ikona, 1990; Stammers et al., 1991).

Avondale relinquished its option on the Forrest property and Abacus Minerals Corporation (“Abacus”) optioned it in 1993. The following year, Abacus commissioned a limited program of mapping, prospecting, hand-trenching and soil sampling focused on the Crooked Creek Showing, which was believed to be the strike extension of the Creek Showing located 1,200 metres to the southwest across Gossan Creek with a similar orientation and style of mineralization. This work confirmed the presence of Au-Cu mineralization at the Crooked Creek Showing for 100 metres down-dip and 75 metres along strike from its previously-recognized extent (Todoruk, 1994).

By 1995, Meridian Peak Resources Corporation (“Meridian Peak”) had optioned the Forrest property. Meridian Peak carried out magnetic/VLF-EM surveying over three small grids (Visser, 1995) and drilled five showings, including two previously undrilled ones, with 11 core holes (1,421 metres). The best drill intersection averaged 4.05 g/tonne Au across 3.15 metres in hole F95-11, testing the Creek Showing (Scott and Ikona, 1995).

A brief program of rock sampling was apparently initiated by Central Resources Corp. (“Central”) in September 2007 but was cut short by weather problems. This work has not been documented.

No further work was reported on the Forrest property until 2009, when Misty Creek Ventures Ltd. (“Misty Creek”) and Pamicon owned the property equally and carried out limited rock sampling and mapping focused on the structural framework of mineralization (Jones, 2009).

In August 2011, Astar optioned the Forrest property from Pamicon and Equity Exploration Consultants Ltd. (“Equity”), the successor company to Misty Creek. Later that year, Astar carried out a program of mapping, prospecting and geochemical sampling, which resulted in the discovery of the JAM-2 Cu-As±Au showing and collection of three silt samples from the southwestern part of the property which were highly anomalous in As-Cu-Mo-Sb-Zn±Ag (Lehtinen, 2011).

In 2013, Equity Exploration Consultants Ltd. was contracted to carry out mapping, prospecting, geochemical sampling and an airborne geophysical survey on the Forrest property. The airborne geophysical component of this program was subcontracted to Aeroquest Airborne of Aurora, Ontario, with the flying carried out from Bell II Lodge from July 24-28, 2013. The fieldwork was carried out by a 4 person field crew with daily set-outs by Quantum Helicopters Ltd. from the Eskay Creek mine-site from August 23-29, 2013. A magnetic declination of 20° 07' E was used for all compass measurements. All maps and UTMs are referenced to the 1983 North American Datum (NAD-83).

The helicopter-borne geophysical survey consisted of coincident Versatile Time-Domain Electromagnetic (VTEM), magnetic and radiometric surveys. It was flown with a nominal 30m terrain clearance along lines oriented at 102°, roughly perpendicular to the major faults and lithological contacts on the property. Essentially the entire property was covered with lines spaced 200 metres apart; ten intermediate lines reduced line spacing to 100 metres over the well-mineralized Gossan Ridge area in the centre of the property, an area which includes the Forrest and Creek zones.

A total of 23 rock samples, 7 silt samples and 501 (including 49 QA/QC) soil samples were taken from the Forrest property in 2013. Mapping was concentrated on the Forrest Zone. Prospecting concentrated on the little explored southwestern part of the property. Rock samples were taken from mineralized and altered rocks during the course of prospecting and mapping. Silt samples were collected from the active parts of previously unsampled streams in the southwestern part of the property. Both silt and rock sample sites were marked in the field by pink and blue flagging and aluminum tags.

Soil sampling was confined to the southwestern part of the property in 2013. The soil geochemical grid was extended 800 metres to the south over favourable geology, with samples taken at 25 metre intervals along five east-west lines spaced 200 metres apart. In addition, three contour soil lines at 1,300m, 1,400m and 1,500m elevation were sampled across the drainage where three 2011 silt samples contained highly anomalous As, Cu, Mo, Sb, Zn and Ag values. All sites were located by GPS. Wherever possible, soil samples were collected from the B horizon at 15-40 cm depth, but samples were taken from talus fines or glacial and fluvial material where "B" horizon soils were non-existent. Field notes were recorded and each site was marked with orange flagging and a Tyvek tag. Blanks and field duplicates were included with the soil sampling for quality assurance.

Consolidated Claim Block Exploration

2016 Exploration

Exploration work in 2016 involved the collection of 362 soil, 35 rock and 11 stream sediment samples by a four man crew from September 8-21st. Exploration activities took place in several discrete zones across the property. Rock samples were sourced mainly from areas with previously reported high grade base and precious metal values to both confirm historic information and to correlate mineralization with lithologic and alteration types. Soil samples were targeted in areas adjacent to existing soil grids in an effort to discover if known mineralization trends continue

across mapped structures and within previously untested lithologies. Soil samples were sourced from the conventional 'B' soil horizon where possible. Many of the sampling areas were located above treeline where a well-developed soil profile was not available so 'talus fines' were sampled and described appropriately. A more comprehensive description and complete list of all samples can be found in an assessment report filed in April 2017 entitled "2016 Geochemical Report on the Forrest Kerr Property".

2017 Exploration

The 2017 exploration program at Forrest Kerr comprised property-wide prospecting, reconnaissance and target evaluation, soil and rock sampling and diamond drilling. In total 576 soil, 50 rock and 2445 metres in 9 drill holes were completed to add to the property-wide historic combined total of 19,359 soil, 2175 rock and 20,057 metres of drilling in 130 drill holes.

Initial exploration began on June 20th with 2 geologists and one pilot of a Bell 206 Jetranger supplied by Lakelse Helicopters of Terrace, BC. At that time most of the snow had abated enough to allow general access to a majority of the terrain below 1500m, although most creeks and depressions were still under considerable snow pack. In particular, the Carcass Creek area remained under extensive snow cover until early July.

A two member field crew from Terralogic Exploration conducted soil sampling on the Forrest Claims between June 28 and July 12th. A Discovery II drill supplied by Omineca Drilling was mobilized to sight via the Galore Creek road on August 1st and was demobilized via the Coast Mountain Hydro road on August 25th. Throughout the drill program phase an A-star helicopter was utilized. All exploration personnel were housed at the AltaGas hydro camp while staging and core logging/storage facilities were based out of the McLymont staging area, located 9km southwest of the main camp. All core from the 2017 drill program is currently stored at the McLymont staging area. (UTM NAD 83 Zone 9 390192E 6283503N—see **Appendix D for map location**)

Forrest Soil Sampling

A total of 576 soil samples were taken from the heavily vegetated lower slopes of Forrest Gossan Creek. A small soil grid was completed on the south side of the creek while a more extensive grid was completed across the creek to the north over a prominent conductivity anomaly that was delineated during a 2013 airborne geophysical survey. Surface sampling on the north side uncovered some elevated gold and copper values. Ground reconnaissance turned up variable lithologies of dominant medium to coarse grained intrusive (granitic) to more fine grained subvolcanic with limited sedimentary horizons. A few rock samples were strongly pyritic with minor quartz veining visible and occasional copper oxides (malachite) present on fracture surfaces. The area of sampling has thick organic cover on a moderately inclined south facing slope so any geochemical response would likely be muted or eclipsed by the creek which spans the lower 2/3 of the anomaly (Southern end).

A strong response was returned on the south side grid. Of the 87 samples taken there over 40% returned values > 0.1 ppm (g/T) with an average of 0.2 ppm for all samples. Only two samples

returned values > 1 ppm Au (2.85 and 1.94 ppm) so the average over the entire grid was strongly anomalous. Figure 5 shows a strong linear gold-in-soil feature directly east of the 2017 sampling that is definitively a result of downhill dispersion due to its location at the base of extensive cliff face that hosts auriferous quartz veins. To some extent this could be the case for the 2017 south grid but it may also reflect subsurface mineralization and will require more ground work in 2018. Maps showing sample numbers and analytical results for gold, copper and arsenic can be viewed in Appendix E.

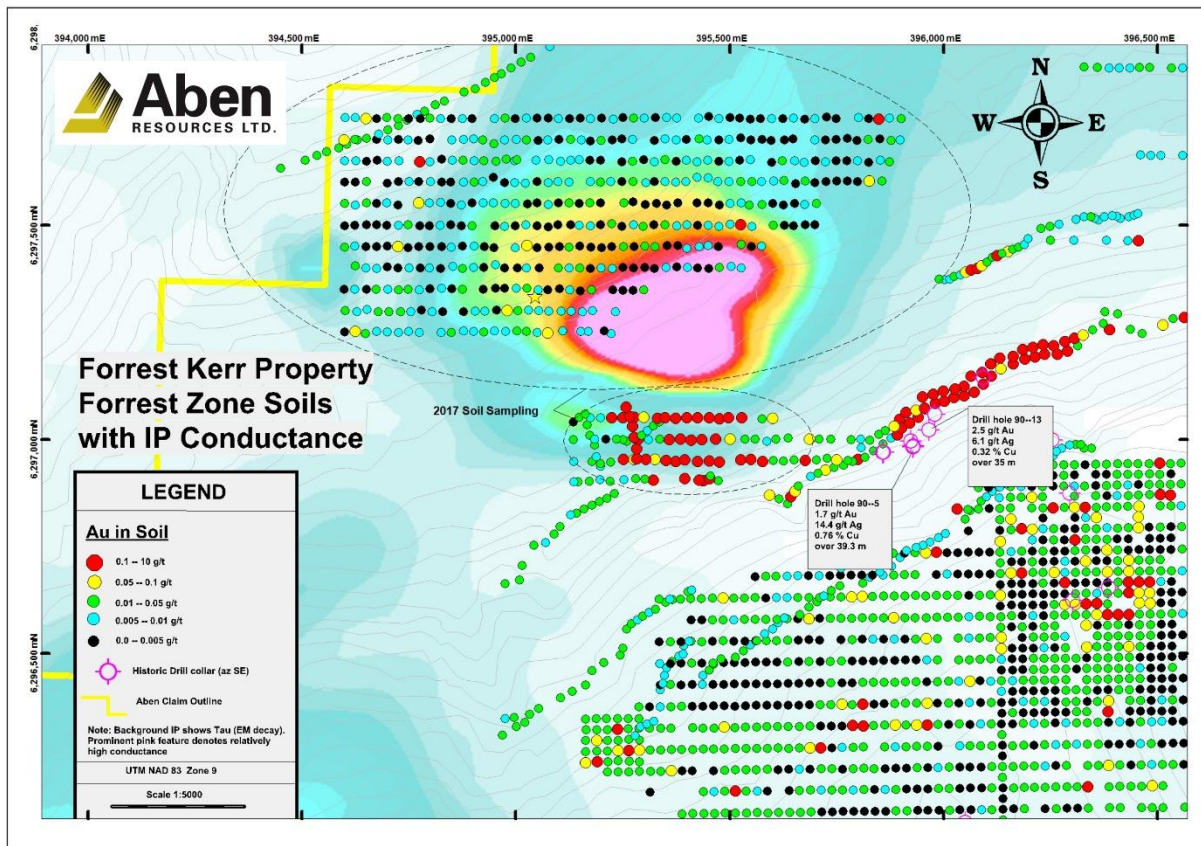


Figure 5 Forrest Zone soil sampling

2017 Drilling

A total of 2445 metres were drilled in 9 holes in the Carcass Creek and Boundary zones. The first three drill holes (holes FK17-01, FK17-02 and FK17-03) were drilled to a combined depth of 677.5 metres in the Carcass Creek area, where historic drilling had returned high-grade intercepts such as 9.9 g/T (grams/tonne) Au over 29.3 metres, including 124.9 g/T Au over 0.8 metres and 91.6 g/T Au over 1.9 metres in hole RG91-21.

Hole	Easting	Northing	Depth (m)	Azimuth	Dip	Elevation(m)	Elevation (ft)
FK17-01	399891	6318855	205.5	90	-45	1267	4155.76
FK17-02	399891	6318853	203	115	-45	1267	4155.76
FK17-03	399898	6318774	269	90	-45	1256	4119.68
FK17-04	399960	6311219	397	140	-45	1277	4188.56
FK17-05	399960	6311219	152	140	-60	1277	4188.56
FK17-06	399960	6311219	141	140	-75	1277	4188.56
FK17-07	399971	6310795	416	140	-45	1286	4218.08
FK17-08	400126	6310539	225	100	-45	1307	4286.96
FK17-09	399936	6311059	437	142	-45	1270	4165.6
NAD 83 Zone 9		Total:	2445.5				

Table 5 2017 Drill Collar Locations

Hole	Depth	Azimuth	Dip	Mag
FK17-01	6	88	-44.5	5586
	80	90.5	-44.2	5588
	193.5	94.6	-44.9	5574
FK17-02	6	112.8	-45.6	5579
	103	117.7	-46.5	5596
	200	121.2	-46.8	5584
FK17-03	11	92.2	-44.4	5605
	134	96.5	-44.9	5584
	269	100.6	-44.9	5591
FK17-04	6	140.1	-43.4	5634
	200	146.1	-44	5581
FK17-05	9	142.3	-59.1	5644
	75	144.6	-59.7	5590
	143	145.4	-59.8	5588
FK17-06	10	142.9	-74.3	5639
	75	145.6	-74.7	5573
	130	145.9	-74.3	5595
FK17-07	9	141.6	-44	5636
	210	148.2	-41.5	5581
	413	152.4	-33.1	5565
FK17-08	9	99.1	-44.7	5882
	117	101.7	-46.1	5596
	225	103.7	-45.3	5613
FK17-09	18	144.1	-44.4	5578
	219	148.6	-44.2	5593
	435	157.2	-39.5	5598

Table 6 2017 Downhole Survey Results

FK17-01 returned several discrete mineralized horizons such as 0.35 g/T Au, 1.1 g/T Ag and 0.43% Zn over 8 metres and 0.49 g/T Au, 4.3 g/T Ag, 0.23 % Cu and 0.27 % Zn over 3 metres. Hole **FK17-02** (203 m) returned isolated zones with gold values ranging from trace to 1.3 g/T. **FK17-03** encountered 0.22 g/T Au, 1.34 g/T Ag and 0.23% Cu over 5 metres between 173-178metres with other discrete and narrow zones of elevated base and precious metal mineralization. The holes at Carcass Creek did not intercept the high-grade gold values that were reported historically from the area.

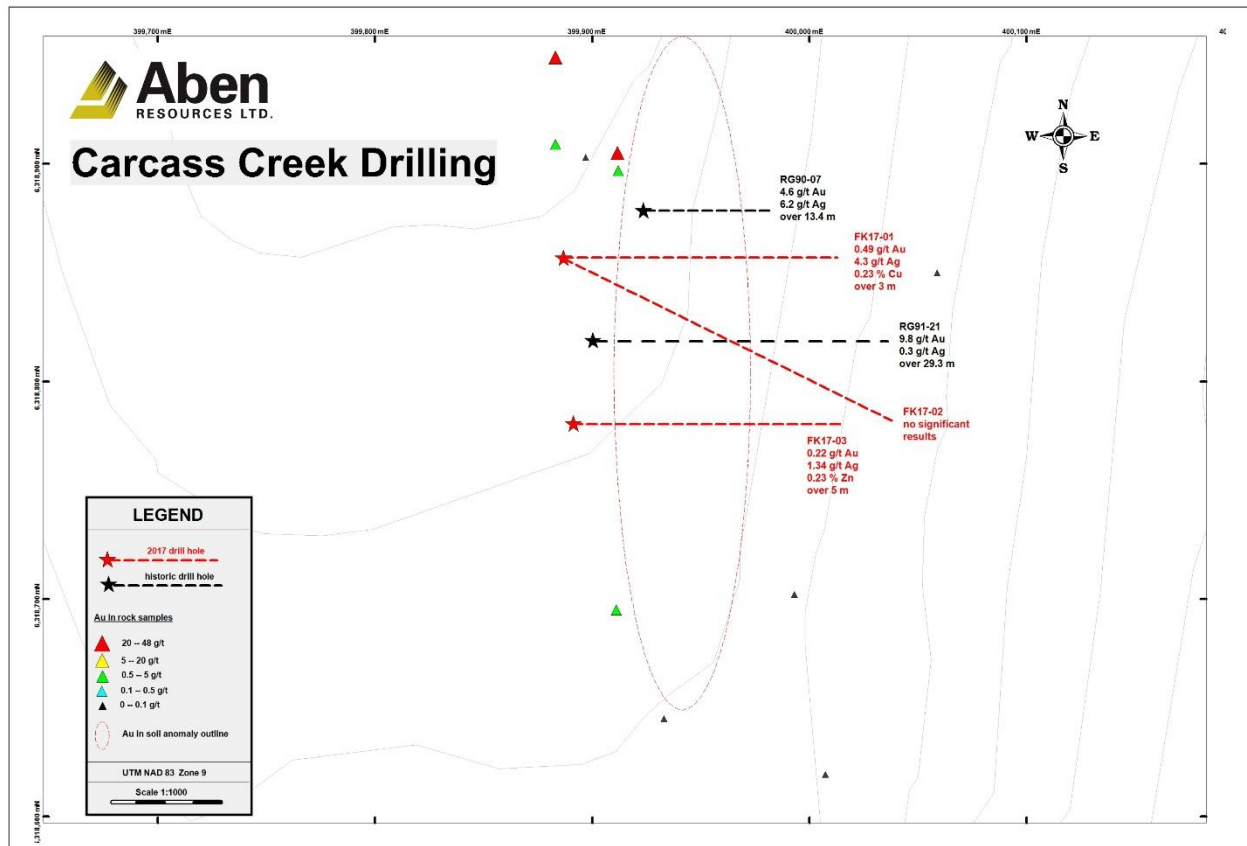


Figure 6 2017 Carcass Creek drill collar locations

The final six holes (1768 m) were drilled at the Boundary Zone, which straddles the Forgold and RDN claim groups. The first three holes at Boundary were collared from the same pad, which was located 150 metres north of nearest historic drill location. All three holes pierced a near-surface, high-grade Au-Ag-Cu discovery comprised of strong quartz and quartz-carbonate veining with well-mineralized breccia horizons. Chalcopyrite + pyrite were the only visible sulfides in this zone. Drilling was oriented to the southeast as preliminary mapping determined that the general trend of mineralization was NE-SW, an observation that is believed to be confirmed by the drill results. A brief summary of each drill hole follows and a plan map of drill locations can be seen below Figure 7.

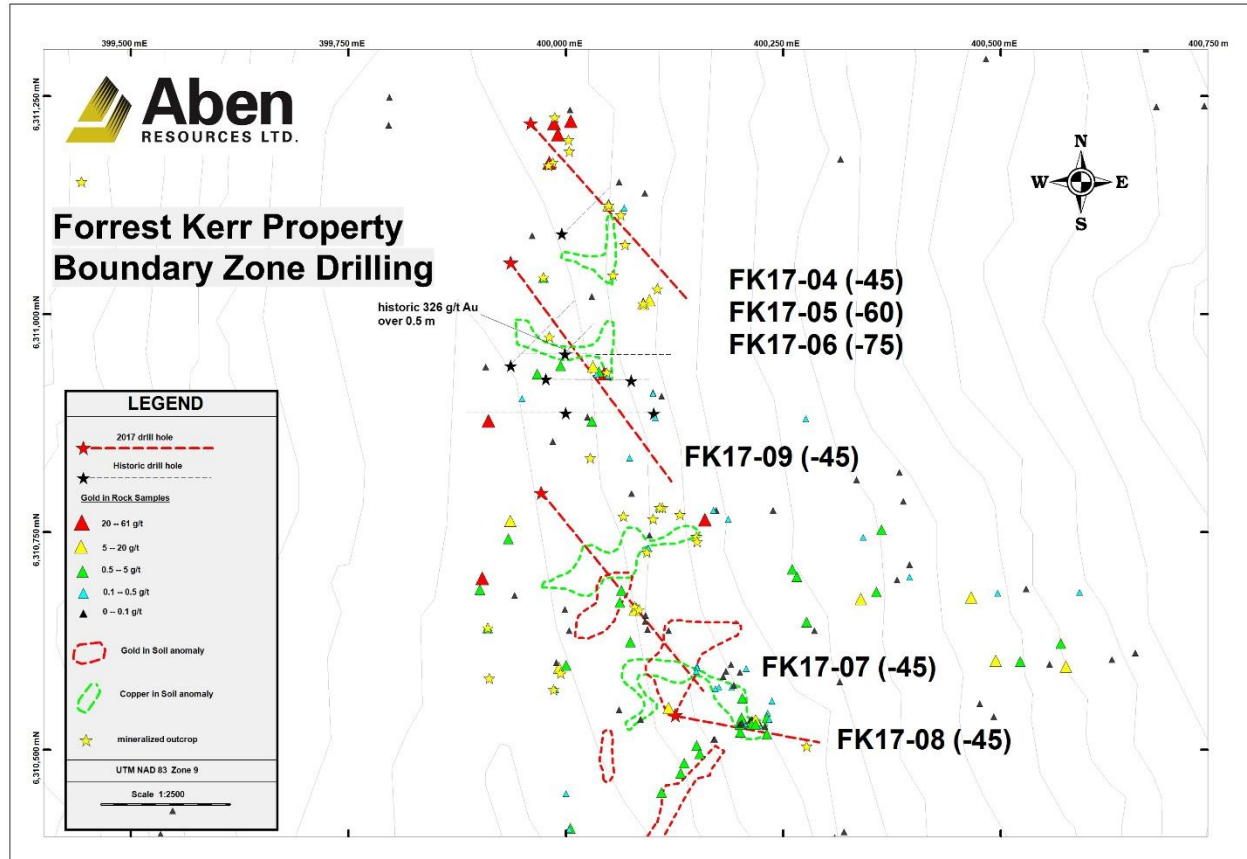


Figure 7 2017 Boundary Zone drill collar locations

FK17-04 (-45 dip) pierced the high-grade zone between 16-26 metres down-hole depth and returned 6.7 g/T Au, 6.36 g/T Ag and 0.9% Cu over those 10 metres with a 3m core that returned 18.9 g/T Au, 16.6 g/T Ag and 2.2% Cu. The entire hole averaged 0.26 g/T Au over 387.0 metres. Several discrete zones returned Au values > 1 g/T with notable zones between 155-168 m that averaged 2 g/T Ag, 0.2% Cu and 0.35% Zn, and between 193-207 m that averaged 1.1 g/T Au, 2.8 g/T Ag and 0.2% Cu. Mineralization is contained within quartz-sulfide and quartz-carbonate-sulfide veins (and subordinate carbonate breccia) hosted in a plagioclase-phyric porphyry to sub-volcanic flow. This unit has been altered by what was interpreted to be early hematite, subsequent variable quartz-sericite-pyrite alteration with variably strong chlorite overprint.

FK17-05 (-60 dip) pierced the zone between 33-45 metres and returned 10.9 g/T Au, 14.6 g/T Ag and 1.5% Cu over those 12 metres with a higher-grade core of 21.5 g/T Au, 28.5 g/T Ag and 3.1% Cu over 6 metres. The entire hole averaged 1.2 g/T Au, 1.8 g/T Ag and 0.21% Cu over 122 metres. Again, multiple discrete zones with elevated Au-Ag-Cu mineralization were encountered in this hole with a noticeable absence of Zn horizons. Lithology and alteration were similar to FK17-04.

FK17-06 (-75 dip) pierced the zone between 46-60 metres and returned 2.91 g/T Au, 5.2 g/T Ag and 0.6% Cu over 14 metres. The hole averaged 0.51 g/T Au, 1.03 g/T Ag and 0.1% Cu over 94 metres in similar lithology and alteration to above.

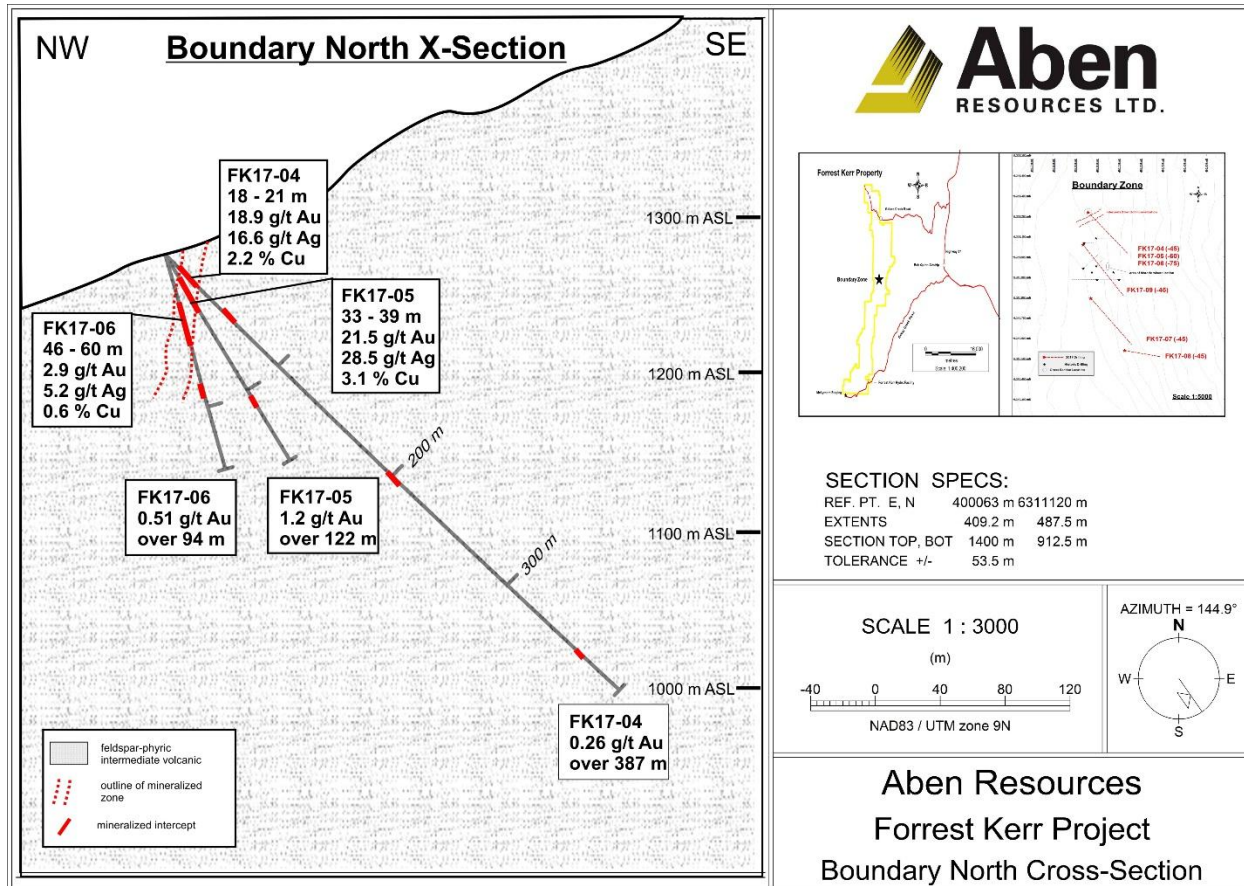


Figure 8 North Boundary Cross Section

FK17-07 was collared 420 metres south of holes 04, 05 and 06 and cut through an extensive package of pyrite-rich variably brecciated and clay altered rock over its entire 416 metres. Lithologies encountered ranged between variably brecciated to more coherent plagioclase-phyric porphyritic to subvolcanic with alternate horizons described to be crystal-lithic tuff dominant. Discrete and narrow mineralized horizons were present throughout the hole including 1.2 g/T Au, 4.7 g/T Ag and 0.47% Cu between 379-380 metres down-hole depth.

FK17-08 was collared 300 metres southeast of FK17-07 and returned a range of Au values from trace to 5.0 g/T with multiple metre-long samples reporting > 0.2 g/T Au. Discrete zones of elevated Ag, Ba and Zn were also encountered within a mixed package of plagioclase-phyric subvolcanic to crystal-lithic tuff. This hole displayed moderate to strong sericite and silica alteration, abundant pyrite and episodic quartz to quartz-carbonate veining throughout its entire 225 metre length.

FK17-09 was collared 160 metres south of holes 04, 05 and 06 and transected an area where the majority of historic drilling at the Boundary Zone was located. Many discrete base and precious metal zones were encountered in this hole, but the higher grade gold samples reported in historic drill core and at surface were not replicated.

SAMPLE PREPARATION, ANALYSES AND SECURITY

A total of 50 surface rock, 576 soil and 1921 one-metre core samples were sourced from the Forrest Kerr Property in 2017. During the initial reconnaissance and surface sampling portion of the exploration program several duplicate and blank samples were inserted to fulfill QA/QC requirements. Throughout the drill program Aben personnel utilized sample duplicates and placed field blanks and a lab certified standard into the sample stream at a rate of one QA/QC sample in every 10 samples. No significant issues were discovered (see Appendix F for graph representations of QA/QC results). All samples were placed in individual bags with a sample tag and sealed with a zip tie in the field. Groups of individual samples were then placed in rice sacks, sealed with tamper proof zip ties and transported to the ALS Global prep facility in Terrace, British Columbia. All rock & core samples were crushed until 70% passed a 2mm sieve, then a 250 gram split was pulverized until better than 85% passed a 75 micron screen. Gold was tested via fire assay method Au-ICP21 with all ore-grade samples (>10 g/T) undergoing fire assay with gravimetric finish. ALS performed multi-element ICP-AES package ME-ICP41 in their Vancouver facility to test for 35 other elements.

GEOLOGIC SETTING

Regional and Property Geology

The following section on regional and property geology has been summarized from Jones (2006). While the following summary will provide a general overview of both regional geology and local geology as it pertains to the RDN and Forgold claim groups, the reader is advised to consult Jones (2006) for a very comprehensive geologic description. A separate subheading for the Forrest claims will follow the summary of regional and local geology below.

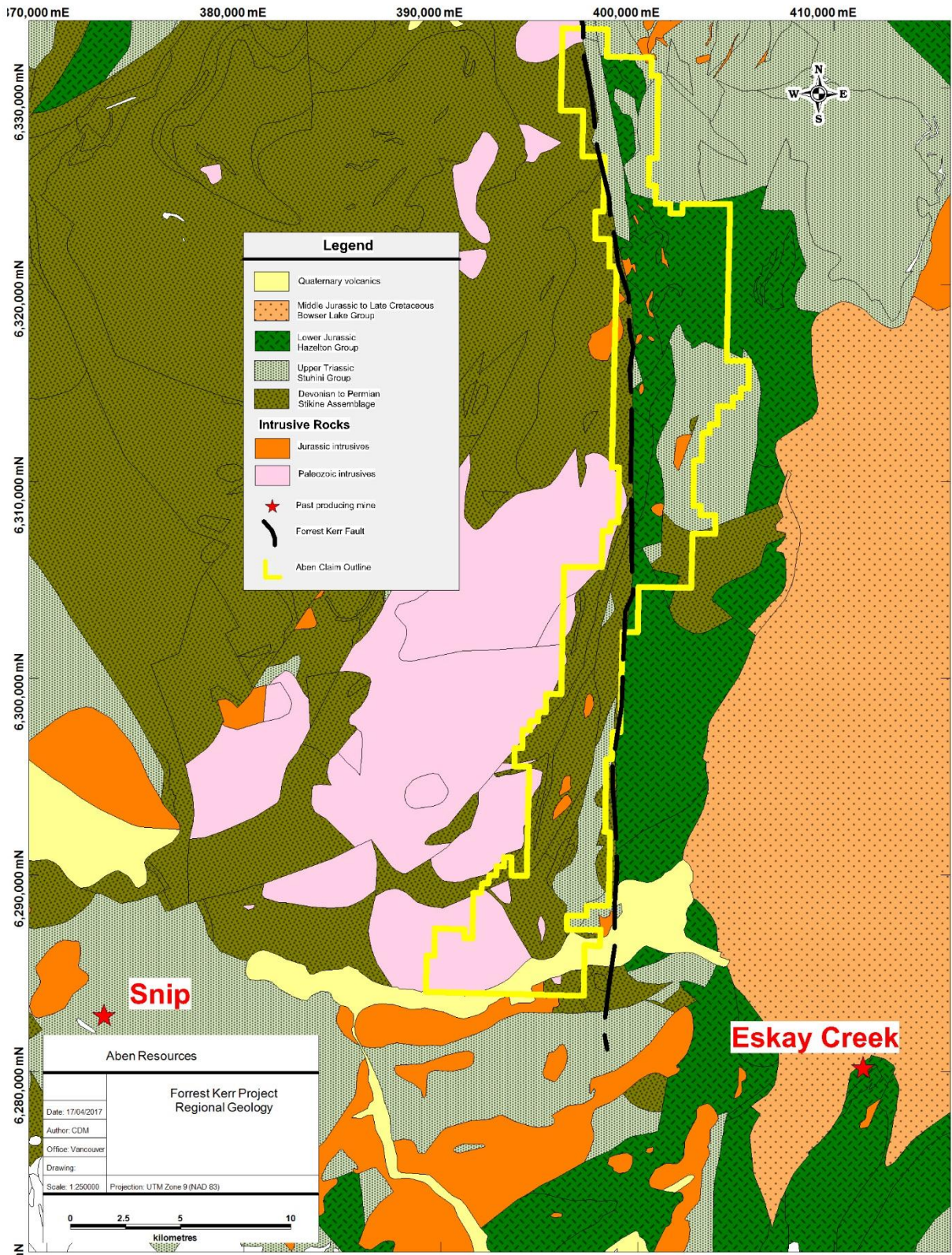


Figure 9 Regional Geology around Forrest Kerr Property

The regional geology surrounding the Forrest Kerr property consists of mid-Paleozoic and Mesozoic island arc successions which are overlapped to the east by clastic sediments of the Bowser Basin. Regional mapping has been carried out at a scale of 1:50,000 by Logan et al (1990a, b; 1992a, b; 1997) of the BCGS and by Read et al (1989) of the GSC. Recent mapping has been done in the Forrest Kerr area by the B.C. Geological Survey (Alldrick et al, 2005).

The Paleozoic Stikine Assemblage in the vicinity of the Forrest Kerr property comprises variably foliated mafic to intermediate volcanic rocks, chert and fine clastic sedimentary rocks. These have been intruded by the Late Devonian to Early Mississippian More Creek and Forrest Kerr composite batholiths, with phases ranging from granite to diorite. The Paleozoic rocks lie entirely on the western side of the Forrest Kerr Fault, with Mesozoic rocks exposed to the east. The Stikine Assemblage is unconformably overlain by island arc volcanic and sedimentary rocks of the Upper Triassic Stuhini Group. At the base of the Stuhini Group is a thick package of fine-grained volcanoclastic and sedimentary rocks, dominated by volcanic wacke, arenite and interbedded siltstone and argillite. These units inter-finger with overlying massive green tuff.

The Early to Middle Jurassic Hazelton Group unconformably overlies the Stuhini Group, and comprises five regional units (MacDonald et al, 1996); which are summarized below in Table 5. For clarity, Table 5 includes correlations to rock units used at Eskay Creek by Logan et al (1997) and for the northern portion of the Forrest Kerr property (Figures 10).

The basal coarse clastic unit, which contains Upper Hettangian to Lower Sinemurian ammonites, is a few tens or hundreds of metres thick, overlying the Stuhini Group along a disconformity or angular unconformity. It is conformably overlain by the sequence of andesitic to dacitic volcanics, which includes the previously defined Betty Creek Formation (Anderson, 1993). It is characterized by extensive variations in thickness and facies; Macdonald et al (1996) report a U-Pb date of 193 Ma for one of its flows. The intermediate volcanic and volcanoclastic strata are locally overlain by regionally discontinuous felsic calc-alkaline volcanic flows and tuffs with U-Pb dates from 186.5 to 194 Ma. The overlying sedimentary unit is distinguished from the basal unit by the absence of the granitoid-clast conglomerate and by clasts derived from the underlying intermediate volcanic packages. Fossils within the sedimentary unit range from Upper Pliensbachian to Upper Aalenian.

The Upper Sequence of the Hazelton Group is dominantly a bimodal tholeiitic volcanic assemblage with lesser tuffaceous, calcareous and argillaceous rocks, thought to represent intra-arc rifting (Roth et al, 1999). At Eskay Creek, this unit consists of felsic volcanic rocks overlain by a basaltic volcanic-sedimentary package, but regionally these stratigraphic relations are more complex and locally reversed. Fossils constrain this unit between Late Aalenian and Early Bajocian; U-Pb dates on rhyolites indicate a range of 181-172 Ma (Childe, 1996).

Middle to Upper Jurassic Bowser Lake Group marine and terrestrial mudstones, sandstones and conglomerates conformably overlie the Hazelton Group. These basinal clastics lack volcanic components and contain clasts of rock types from adjacent terranes, indicating a change in the local and regional tectonic setting (Roth et al, 1999).

McDonald et al (1996) Unit Lithology	Eskay Creek	Logan et al (1997)	Forrest Kerr
Upper Sequence Bimodal volcanic Dacite tuffs and flows, rhyolite flows, basalt rocks (181 to 173 Ma.) hyaloclastite, interstratified mudstone and tuffaceous mudstone	Hanging Wall Basalt, Contact Mudstone, Eskay Rhyolite,	Jw, Jwgc mJHsl, mJHb	mJRY, mJBA, mJDI, mJSE, l-mJRY
Lower Sequence Sedimentary unit Turbiditic siltstone to sandstone, heterolithic (Upper cobble conglomerate, bioclastic calcareous Pliensbachian to Aalenian) siltstone, lesser tuffaceous sandstone upper Aalenian)		IJHsl	mJSE ₇ , IJSA _{8,13}
Dacite to rhyolite Dacite domes and flows, volcanoclastic flows and tuffs sandstone to conglomerate, dacite breccias, (186.5 to 194 Ma.) rhyolitic welded tuffs	Footwall Volcanics	IJHv, IJHr	IJDT, IJDM, IJRY ₁
Andesitic to dacitic Hornblende-plagioclase flows and volcanic rocks breccias, volcanoclastic sandstone and (193 Ma.) conglomerate, lapilli to block tuff	Lower Footwall Unit	IJHv	IJPO, IJSA
Basal coarse Locally fossiliferous calcareous sandstone, clastic unit trough cross-stratified granitoid clast (Hettangian-Sinemurian boundary) conglomerate, rare welded dacite lapilli tuff	Lower Footwall Unit		IJSA ₂ , IJSA

Table 7 Hazelton Stratigraphic Units (Jones 2006)

Read et al (1989) mapped several small feldspar±quartz porphyry plugs and dykes near the Forrest Kerr Fault. Souther (1972) had previously assigned these plugs a Late Cretaceous to Early Tertiary age, but Read noted cobbles of this unit in basal conglomerates of the Middle to Upper Jurassic Bowser Lake Group. He postulated the felsic plugs and dykes to be subvolcanic feeders to the Early to Middle Jurassic Hazelton Group dacitic/trachytic volcanic rocks. Diorite sills and dykes are associated with the upper Hazelton Group basalt extrusive rocks and are thought to be subvolcanic equivalents.

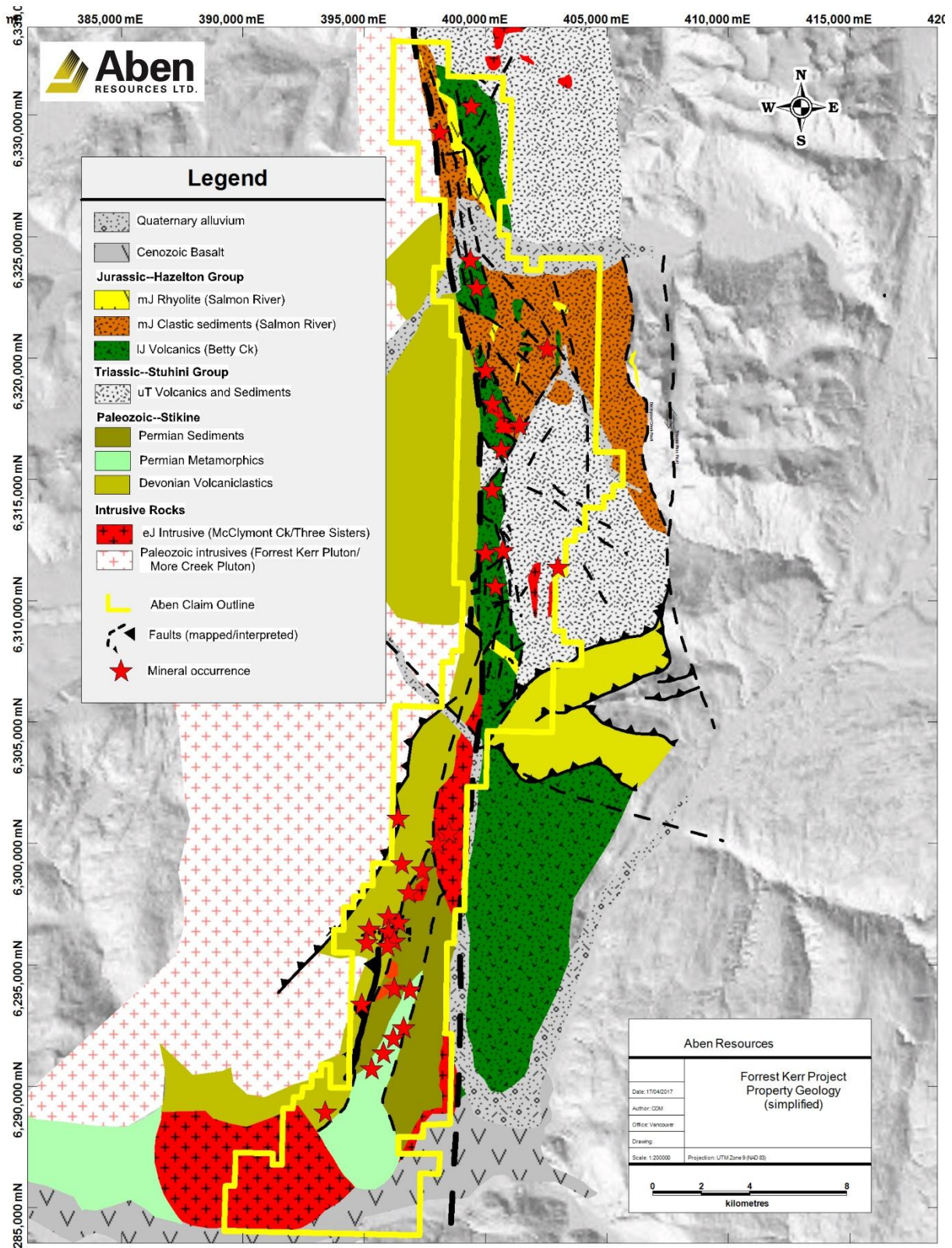


Figure 10 Forrest Kerr Property Geology

The first phase of structural deformation in the area is evident as widespread phyllite and foliated greenstone in Lower Permian and older rocks (Read et al, 1989). A second, post-Jurassic phase of folding produced northerly-trending upright folds. Bowser Lake Group rocks are affected by a third phase of deformation, with folding about northwesterly trending axial planes. Fault trends are complex, with a northerly trending set and an anastomosing east-northeast set. The sub-vertical Forrest Kerr Fault, which runs through the Forrest Kerr Property, is a major northerly-trending fault which can be traced for more than 40 kilometres. Read et al (1989) estimate a left-lateral horizontal displacement of 2.5 kilometres and a minimum vertical displacement of 2 kilometres (east side down). Britton et al (1990) suggest that south of the property, across the Iskut River, the Forrest Kerr Fault steps eastward and continues south for another 20 kilometres as the Harrymel Creek Fault. This fault, which truncates Hazelton Group stratigraphy immediately west of the Eskay Creek deposit, is "a zone of recent faulting that may represent a long-lived crustal break" (Britton et al, 1990). This "crustal break" may have localized Jurassic felsic volcanic centres at Eskay Creek, the Four Corners Complex (Alldrick et al, 2005) on the Forgold claims and on the RDN claims.

Forrest Geology

The following description of the Forrest geology has been adapted from Jones (2009) and Awmack (2013).

In the southwest part of the Forrest property, Devonian coralline and crinoidal thin bedded carbonate and calcareous sedimentary rocks are thrust southeasterly over Permian and older strata by the West Lake fault. The latter strata comprise a lower unit dominated by plagioclase and/or pyroxene-phyric andesite flows and schistose lapilli tuffs, with an upper unit, both structurally and stratigraphically, dominated by mixed metasedimentary and metavolcanic clastic rocks including black, graphitic and sericitic phyllite, thin bedded siltstone, cherty sediments and a variety of ash and lapilli tuff units. Rapid lateral and vertical facies changes are characteristic of the stratified members. To the southeast, Upper Triassic Stuhini units comprising carbonate, volcanoclastic, sediment and porphyritic plagioclase andesite flows and breccias unconformably overlie Permian stratigraphy. These rocks are juxtaposed against the Permian and older rocks to the west by the West Slope Fault. Immediately east of the claims, across the Forrest Kerr fault, lower Jurassic Hazelton Group tuffs, minor conglomerates with granitic clasts and grey siltstones are overlain by an extensive succession of Middle Jurassic basic pillow lava and breccia.

Several intrusions are present on the property, varying from small stocks of diorite, quartz diorite and feldspar porphyry to large plutons of granodiorite to granite. The Late Devonian to Early Mississippian Forrest Kerr Pluton, of mainly biotite granite and tonalite composition, is located in the upper plate of the West Lake Fault along the western property boundary. The Stikine assemblage is bounded on the southwest by the McLymont Creek pluton which is an Early Jurassic hornblende, biotite, potassium feldspar megacrystic granite of the Texas Creek Plutonic suite. Granodiorite plugs of unknown age form a linear trend along the western side of the Forrest Kerr Fault, intruding Upper Triassic strata along the length of the eastern boundary of the property. A similar intrusion occurs within the Paleozoic rocks adjacent to the gossan on the north side of Gossan Creek. The rocks underlying the Forrest Zone were reinterpreted in 2013 as forming a northerly-elongated diorite stock approximately 750 metres wide and at least 900 metres long, of

indeterminate age. Immediately south of Gossan Creek and along Gossan Ridge, dacitic or monzonitic quartz-feldspar megacrystic porphyry dikes intrude the Paleozoic strata. These dykes are believed to represent sub volcanic feeders for Lower and Middle Jurassic Hazelton Group volcanic rocks.

Elsby (1992) carried out structural mapping over much of the Forrest property, recognizing four phases of deformation. Regional east-west compression (D_1) during the Late Paleozoic to pre-Late Triassic produced a northeast-trending penetrative transposed foliation and widespread east-vergent recumbent structures. Axial planes generally dip moderately to gently northwest with shallow to moderate southwest-plunging fold axes. During this event, lower greenschist facies metamorphism was initiated and, as deformation progressed, was accompanied by the formation of low-angle ductile-brittle fault zones which resulted in fault-bounded panels of variably strained rocks.

In the Late Triassic and Jurassic, east-vergent F_2 folds were accompanied by increasing metamorphism and ductile shearing along established D_1 low angle fault zones and F_2 axial plane surfaces. During D_2 deformation, the northwest-dipping West Lake fault and numerous other thrusts developed subparallel to D_1 geometry and mylonite formed along their traces. It is equivocal whether the West Slope fault is another of these thrusts or an east-dipping normal fault. A moderate to strong north-south compression (D_3) superimposed upright F_3 folding and fracturing on all rock types, representing a ductile-brittle transition during the waning stages of metamorphism.

F_3 folds and their related cleavage are almost orthogonal to F_1 and F_2 folds, with steeply south-dipping axial planes and gently plunging fold axes. D_4 records a dominantly east-west compression regime, with open upright folds which trend northeast and plunge gently to the southwest, most notably warping the surface trace of the West Lake fault; it may be associated with movement along the Forrest Kerr Fault (Elsby, 1992).

DEPOSIT TYPES—ECONOMIC GEOLOGY

Geological and geochemical evidence indicates that the Forrest Kerr claim group has the potential to host a variety of deposit types. Historic prospecting and diamond drilling has encountered significant polymetallic mineralization in lithologies that are analogous to strata that host mineral deposits throughout the region. On the property, auriferous quartz veins are associated with sheared and brecciated zones both within and adjacent to Early to Middle Jurassic intrusive bodies, which are recognized as important drivers of mineralization in the Golden Triangle.

Submarine Exhalative Massive Sulfide Deposits (VMS)

Exploration since 1990 on the Forgold & RDN claims has largely focused on the pursuit of submarine exhalative massive sulfide deposits. This style of mineralization offers significant economic potential due to the precious metal-rich high grade nature of similar deposits such as the Eskay Creek mine, situated 30km to the SE of the central part of the Forrest Kerr property. Total production to December 2001 at the Eskay Creek Mine totalled 1.04 Mt grading 61.5 g/T Au and 2721 g/T Ag with proven and probable reserves estimated at 1.3 Mt grading 43.1 g/T Au and 2000 g/T Ag (Rogers, 2002). The Forrest Kerr property hosts many kilometres of rock that is age and genetic equivalent to the footwall and hanging wall zones at Eskay.

Intrusion related Au-Ag-(Cu) veins

Polymetallic mineralization in quartz and quartz-carbonate veins formed by structurally focused hydrothermal fluids are present on the property. These types of deposits are normally associated with regional faults, fault sets and fractures although veins are typically associated with second order structures. Veins typically occur in the central parts of discrete shear zones within a larger regional fault, where the rotational or simple shear strains predominate. Vein systems are tabular, sub vertical structures of varying thickness and lateral extent. The Snip mine, located 17 km west of the southern portion of the Forrest Kerr property, is an auriferous shear vein system hosted in Upper Triassic Stuhini Group metasediments that have been intruded by Early Jurassic age stocks.

Porphyry copper-gold deposits

Porphyry copper-gold deposits, both alkalic and calc-alkaline, occur throughout the Intermontane Belt in both the Stikinia and Quesnellia terranes. These types of deposits are common in the Golden Triangle, comprising over 25% of the reported mineral occurrences. Alteration patterns for alkalic type porphyry deposits are distinctly different from those of classic calc-alkaline deposits, which are characterized by concentric phyllic-argillic-propylitic zones. The alkalic deposits typically have a central potassic or sodic plagioclase zone, which passes outward into a propylitic zone. These often overlap and are overprinted by retrograde metasomatic alteration. There are numerous Early to Middle Jurassic intrusives on the Forrest Kerr property that have not been explored for their mineralization potential. The Kerr, Sulphurets, Mitchell and Snowfield deposits are all porphyry deposits located within 40 km of the Forrest Kerr property.

INTERPRETATIONS AND CONCLUSIONS

The consolidated Forrest Kerr Property has over 40 documented mineral occurrences that contain significant Au-Ag-Cu-Pb-Zn mineralization in a variety of depositional styles. The property straddles the Forrest Kerr fault, a regional fault zone with many associated splays, fractures and shear zones that portray a complex structural history in a region of extensive mineralization. Much evidence of a long-lived robust hydrothermal system exists in the rock record, both in outcrop and from historic drilling across the claim group. The property-wide database now contains over 19,000 soil, 2100 rock, 500 stream sediment samples and over 20,000 metres in 130 drill holes. Many prospective areas documented through sampling and prospecting remain under-explored or untested by drilling.

Initial exploration on the RDN claim group in the early 1990's targeted quartz-sulfide veins. Drilling in 1990 & 1991 hit intercepts that returned 14.5 g/T Au over 7.8m (RG90-07) and 91 g/T Au over 1.5m (RG91-21). At the Boundary zone, located near the border of the RDN and the Forgold claims to the south, hole RG91-16 reported 326 g/T Au over 0.4 m (average 60 g/T Au over 5.5m). After the discovery of the metal-rich Eskay Creek mine 30 km to the south, exploration between 1994 and 2005 was directed toward the potential of the RDN claims to host precious metal-enriched volcanogenic massive sulphide (VMS) mineralization. The potential for the property to host VMS mineralization is still valid based on over 10 km of strong stratigraphic and lithologic

similarities along strike to Eskay. In addition, there are numerous structural targets outlined in historic geophysical surveys that remain under-investigated.

The Forgold claims, located in the central portion of the Forrest Kerr Property, are host to a highly anomalous Au-Cu geochemical signature that extends for over 2 km along strike and in excess of 750m laterally. Rocks taken from across the Forgold claims display well developed sericitic alteration providing evidence that a large scale hydrothermal system was present in the area. Samples from Forgold outcrop have returned up to 15 % Cu and 9 g/T Au along a linear trend within a zone of highly fractured and faulted rocks associated with the Forrest Kerr fault. Only two drill holes have been collared within the present Forgold claim boundary and the claim group has not been properly tested with geophysics. In particular, the under-explored Four Corners zone has potential to host precious metal enriched massive sulphide mineralization based on stratigraphic, lithologic and depositional field observations.

The Forrest claim group is located wholly on the west side of the Forrest Kerr fault and therefore underlain by mainly Paleozoic rocks of the Stikine assemblage with occurrences of Triassic Stuhini Group and Jurassic intrusives, interpreted to be important drivers of mineralization in the region. The 20+ documented Au+Cu mineral occurrences in this area are located along large scale fault structures that parallel the Forrest Kerr fault to the east and the West Lake thrust fault to the west. Exploration in 1990 & 1995 targeted Au + Cu mineralization located near the edge of a diorite stock that hosts extensive sheeted quartz veining. Drilling at the Creek showing returned 5.79 g/T Au and 0.83% Cu over 8.49 metres (A90-13) and 1.7 g/T Au and 0.77% Cu over 39.3 metres (A90-05). Only limited field work has been conducted at Forrest since drilling was completed in 1995. A 2013 property wide VTEM/Radiometrics/Magnetics airborne survey helped to confirm the location of mapped lithologic and structural controls and also delineated areas with good potential to extend known mineralization. In addition, three conductive zones were indicated, one of which lies adjacent to the Creek zone in an area with very limited geochemical sampling or detailed mapping.

The majority of exploration on the consolidated Forrest Kerr property has been guided through the application of the 'Eskay Creek' exploration model. The use of this model is well justified due to the compelling stratigraphic and lithologic similarities between Eskay and a large portion of the Forrest Kerr property. Given the relatively small footprint of a high grade VMS deposit and the widely-spaced drilling completed thus far over most of Forrest Kerr property, many more viable targets remain to be tested. Modern discoveries within the Golden Triangle have emphasized the wide range of deposit styles and their potential for high grade mineralization throughout the area. Common to many of these deposits is their position within Hazelton Group rocks near the unconformable contact with Stuhini Group rocks with Jurassic intrusives in close proximity. The Forrest Kerr property combines these lithologic criteria with evidence of widespread hydrothermal activity through an extensive fault system that acted as a conduit for the mineralizing fluid. The property merits further exploration in light of the recent success using a variety of target models.

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APPENDIX B: Authors Certificate

APPENDIX B: Certificate of Qualified Person

CERTIFICATE. C. McDowell

I, Cornell McDowell, of 3507 108st NW Edmonton, Alberta, do hereby certify that:

- 1) I am a professional geologist providing consulting services to the exploration industry with an office at 3507 108st NW Edmonton, Alberta.
- 2) I graduated from the University of Alberta in 2005 with a B.Sc., Specialization in Geology.
- 3) I am a member in good standing in the Association of Professional Engineers and Geoscientists of the Provinces of British Columbia and Alberta.
- 4) I have practiced my profession continuously since 2005. I have had 13 years' experience in ore deposits and mineral exploration while working on a variety of ore deposit types.
- 5) I have read the definition of "qualified person" set out in National Instrument 43-101 and certify that by reason of education and relevant experience I meet the requirements of a Qualified Person as defined in National Instrument 43-101.
- 6) I am the author of this assessment report "2017 Geochemical and Diamond Drilling Report on the Forrest Kerr Property" and am responsible for all parts of it.
- 7) I was present every day on the Forrest Kerr Property during the 2017 field program.
- 8) I act in the capacity of Vice President of Exploration for Aben Resources and therefore am not independent of the issuer.

Dated this 15th day of February, 2018



(signed) C. McDowell, P.Geol.



(Sealed)

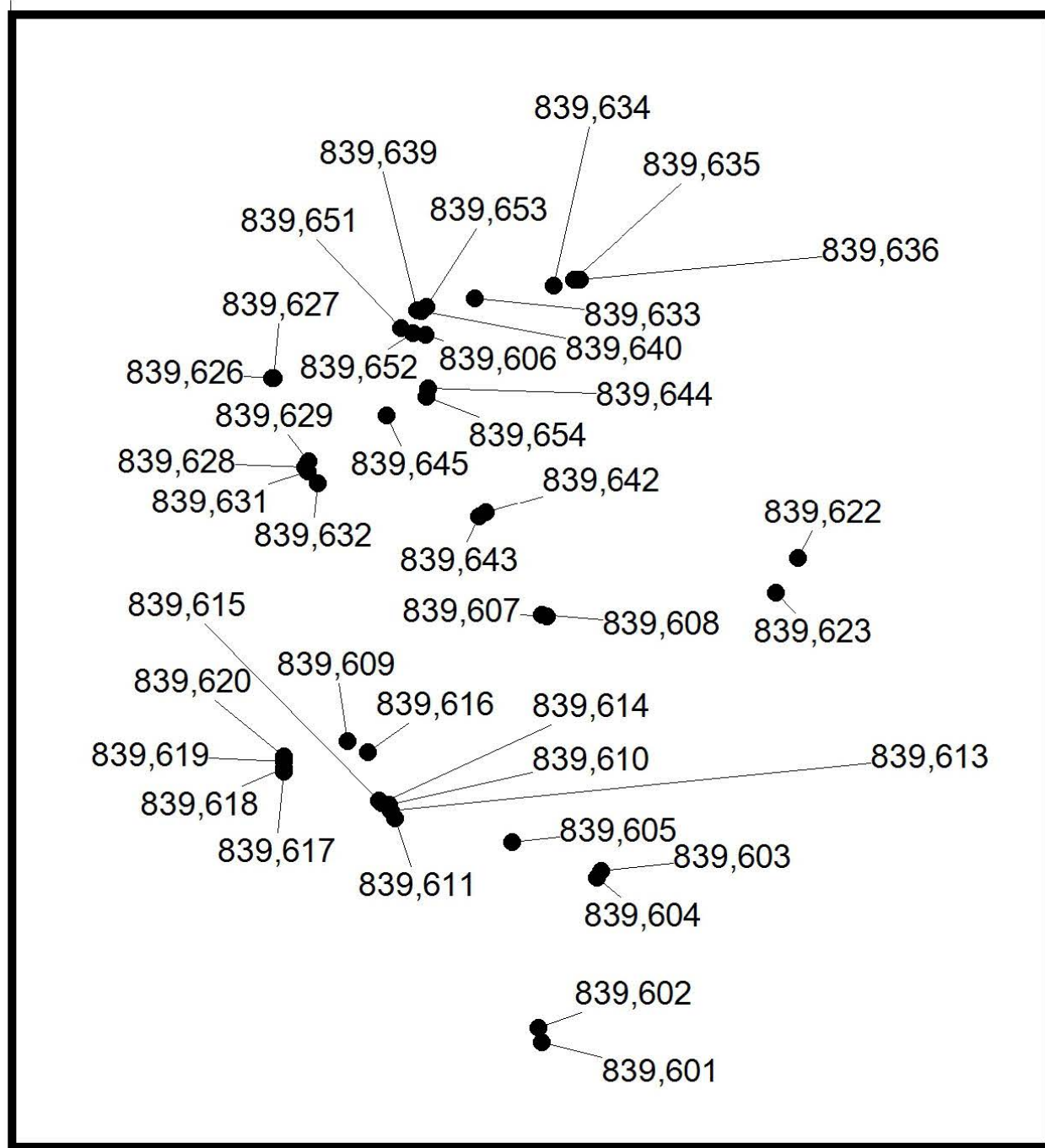
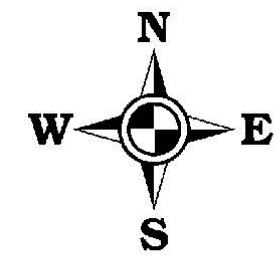
APPENDIX C: List of Expenditures

Expenditure Summary 2017					Totals
Personnel (Name)* / Position	Field Days (list actual days)	Days	Rate	Subtotal*	
Cornell McDowell/ Geologist	June 20-August 30, 2017	76	\$600.00	\$45,600.00	
Rohanna Gibson/ Geologist	June 20-August 30, 2017	70	\$500.00	\$35,000.00	
Chris Shook (sampler)	June 27-July 13, 2017	17	\$425.00	\$7,225.00	
Ali Shroeder (sampler)	June 27-July 13, 2017	17	\$400.00	\$6,800.00	
Keith Brown	August 10-27, 2017	18	\$450.00	\$8,100.00	
Shelby Marion	August 18-27, 2018	10	\$450.00	\$4,500.00	
				\$107,225.00	\$107,225.00
Office Studies	Personnel (no field days listed)				
Literature search	Cornell McDowell	5.0	\$500.00	\$2,500.00	
Database compilation	Cornell McDowell	10.0	\$500.00	\$5,000.00	
Computer modelling		10.0	\$500.00	\$5,000.00	
Archaeological Overview Assessment		1.0	\$7,000.00	\$7,000.00	
General research		10.0	\$500.00	\$5,000.00	
Report preparation	Cornell McDowell	5.0	\$500.00	\$2,500.00	
planning & logistics				\$27,000.00	
				\$54,000.00	\$54,000.00
Geochemical Surveying	Number of Samples	No.	Rate	Subtotal	
Drill (cuttings, core, etc.)		2142	\$31.00	\$66,402.00	
Stream sediment					
Soil		576	\$31.00	\$17,856.00	
Rock		50	\$31.00	\$1,550.00	
Other (specify)			\$0.00	\$0.00	
				\$85,808.00	\$85,808.00
Drilling	No. of Holes, Size of Core and Metres	No.	Rate	Subtotal	
Diamond	9 holes, NQ2, 2445 m		\$0.00	\$257,909.17	
pad building				\$31,729.50	
				\$289,638.67	\$289,638.67
Transportation		No.	Rate	Subtotal	
Airfare		1	\$6,500.00	\$6,500.00	
Taxi		1	\$100.00	\$100.00	
truck rental	2.5 months			\$6,798.82	
kilometers		2400	\$0.25	\$600.00	
fuel				\$3,500.00	
Helicopter (hours)		142	\$1,450.00	\$205,900.00	
Fuel (litres/hour)		142	\$240.00	\$34,080.00	
				\$257,478.82	\$257,478.82
Accommodation & Food	Rates per day				
Hotel	when not in camp	14.00	\$150.00	\$2,100.00	
Camp	385 man days-drill, support and geological	385.00	\$260.00	\$100,100.00	
Meals			\$0.00	\$575.00	
				\$102,775.00	\$102,775.00
Miscellaneous					
Road Use and Laydown fees			\$0.00	\$15,000.00	
Communication Agreement				\$20,000.00	
				\$35,000.00	\$35,000.00
Equipment Rentals					
Field Gear (Specify)			\$0.00	\$0.00	
Other (Specify)	radio, gps, inReach(communication)			\$300.00	
				\$300.00	\$300.00
TOTAL					\$932,225.49

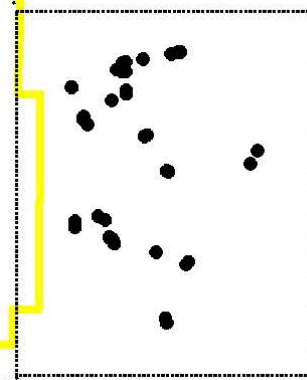
APPENDIX D: Surface Rock Samples

Sample #	Easting	Northing	Sample Type	Source	Rock Type	Alteration 1	Alteration 2	Sulfide Type	% Sulfide	Sampler	Date	
839601	400624	6307754	comp	outcrop	fld volc/porph	qtz-carb	sericite	Py	1	CM	2017/06/22	
839602	400607	6307820	comp	outcrop	fld volc/porph	qtz vein	sericite	Py, Gal, Sphal	2	CM	2017/06/22	
839603	400898	6308542	comp	outcrop	fld volc/porph	silic	FeOx	Py, Gal, Sphal	5	CM	2017/06/22	
839604	400875	6308512	comp	outcrop	intermediate volcanic	FeOx	silic	Py	5	RG	2017/06/22	
839605	400485	6308673	comp	outcrop	gossan	FeOx	silic	Py,Gal, Cpy	5	CM	2017/06/22	
839606	400089	6311012	comp	outcrop	unknown	qtz vein	FeOx	Py, Cpy	5	CM	2017/06/23	
839607	400646	6309713	comp	outcrop	unknown	silic	sericite	Py	0.5	CM	2017/06/24	
839608	400623	6309721	comp	outcrop	fld volc/porph	FeOx	silic	CuOx, Py	3	CM	2017/06/24	
839609	399729	6309139	comp	outcrop	fld volc/porph	silic	FeOx	Py	1	CM	2017/06/25	
839610	399919	6308844	comp	outcrop	fld volc/porph	sericite	sulf	Py,ArsPy	2	CM	2017/06/25	
839611	399946	6308782	comp	outcrop	fld volc/porph	FeOx		ArsPy, Py, Gal	2	CM	2017/06/25	
839612			Blank								RG	2017/06/25
839613	399930	6308820	comp	outcrop	fld volc/porph	FeOx	chlor	py, Gal	2	CM	2017/06/26	
839614	399887	6308852	comp	outcrop	fld volc/porph	FeOx	clay	CuOx, Py	4	CM	2017/06/26	
839615	399873	6308864	comp	outcrop	fld volc/porph	silic	sericite	Py	2	CM	2017/06/26	
839616	399822	6309088	comp	outcrop	vein	silic	clay	Py	1	CM	2017/06/26	
839617	399437	6308999	comp	outcrop	silic	silic		Py	0.5	CM	2017/06/26	
839618	399435	6309013	comp	outcrop	silic	silic		Py	1.5	CM	2017/06/26	
839619	399435	6309044	comp	outcrop	silic	silic		Py	2.5	CM	2017/06/26	
839620	399438	6309069	comp	outcrop	silic	silic		Py	3.5	CM	2017/06/26	
839621			Blank								RG	2017/06/26
839622	401804	6309983	comp	outcrop	gossan	qtz vein	carb vein	Py	2	CM	2017/06/27	
839623	401704	6309821	grab	float	gossan	FeOx	carb vein	Py	3	CM	2017/06/27	
839624	395045	6297335	comp	outcrop	sed	epidote		Py	1	CM	2017/06/29	
839625	395249	6297555	comp	outcrop	sed	FeOx	chlor	Py	0.5	CM	2017/06/29	
839626	399382	6310813	comp	outcrop	vein	qtz-carb	FeOx	Py	1	CM	2017/06/30	
839627	399390	6310811	comp	outcrop	gossan	FeOx	qtz vein	Py	1	CM	2017/06/30	
839628	399534	6310403	comp	outcrop	fld volc/porph	FeOx		Py	1	CM	2017/06/30	
839629	399548	6310430	comp	outcrop	intermediate volcanic	FeOx	silic	Py	2	RG	2017/06/30	
839630			Blank								RG	2017/06/30
839631	399544	6310385	comp	outcrop	fld volc/porph	FeOx		Py	1	CM	2017/06/30	
839632	399593	6310328	comp	outcrop	fld volc/porph	FeOx		Py	1	CM	2017/06/30	
839633	400316	6311178	comp	outcrop	fld volc/porph	FeOx	carb vein	Py	1	CM	2017/07/03	
839634	400679	6311238	comp	outcrop	volc breccia	FeOx	sericite	Py	0.5	CM	2017/07/03	
839635	400772	6311266	comp	outcrop	gossan	FeOx		Py	3	CM	2017/07/03	
839636	400798	6311264	comp	outcrop	silic	silic	qtz vein	Py	2	CM	2017/07/03	
839637	399977	6319357	comp	outcrop	intermediate volcanic	FeOx	Silica	Py, Cp	5	RG	2017/07/05	
839638	399967	6319354	comp	outcrop	felsic volcanic	qtz vein	sericite	Cpy, Py, PbS?	3	CM	2017/07/05	
839639	400049	6311125	comp	outcrop	shear	qtz vein	FeOx	CuOx, Cpy, Py	5	CM	2017/07/07	
839640	400067	6311122	comp	outcrop	intermediate volcanic	qtz vein	silica	Py	2	CM	2017/07/07	
839641			Duplicate of 839640								CM	2017/07/07
839642	400364	6310194	comp	outcrop	intermediate volcanic	silic	sericite	Py	2	CM	2017/07/10	
839643	400334	6310172	comp	outcrop	intermediate volcanic	silic	sericite	Py	5	CM	2017/07/10	
839644	400100	6310765	comp	outcrop	intermediate volcanic	qtz vein	shear	Cpy, CuOx, Py	5	CM	2017/07/11	
839645	399910	6310640	comp	outcrop	intermediate volcanic	qtz vein	QSP	Cpy, CuOx, Py	5	CM	2017/07/12	
839646			Blank								RG	2017/07/12
839653	400091	6311139	comp	outcrop	intermediate volcanic	FeOx	clay	Py	0.5	RG	2017/07/09	
839651	399974	6311042	comp	outcrop	fld volc/porph	silic	FeOx	Py, Cp	1	RG	2017/07/08	
839652	400030	6311020	comp	outcrop	fld volc/porph	silic	FeOx	Py	3	RG	2017/07/08	
839654	400093	6310727	comp	outcrop	fld volc/porph	silic	FeOx	Py, Cp	1	RG	2017/07/11	

2017 Rock Sample Numbers



839637
839638



Property Outline

839625
839624

Core Storage
McLymont Staging
390192 E 6283503 N

Aben Resources

Date: 03/05/2018

Author: CDM

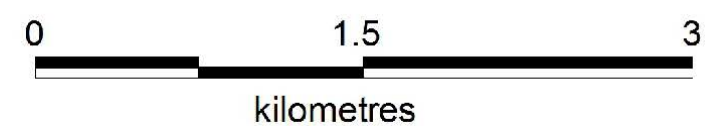
Office:

Drawing:

Scale: 1:50000

Projection: UTM Zone 9 (NAD 83)

Forrest Kerr Property
2017 Rock Samples



APPENDIX E: Soil Samples & Maps

Sample #	EASTING	NORTHING	PRIMARY COLOUR	SECONDARY COLOUR	SLOPE	DEPTH	HORIZON	QUALITY	NOTE 1	NOTE 2	DATE
839101	395135	6296901	DARK BROWN		20-40	20-30	B	2	LINE START	ORGANIC	28/6/2017
839102	395146	6296901	LIGHT BROWN		20-40	20-30	B	4			28/6/2017
839103	395172	6296902	BROWN		0-20	20-30	B	3	ROCKY		28/6/2017
839104	395196	6296906	BROWN		0-20	20-30	B	3	ROCKY		28/6/2017
839105	395220	6296902	BROWN	LIGHT BROWN	20-40	20-30	B	3	ROCKY		28/6/2017
839106	395253	6296906	DARK BROWN		20-40	20-30	B	2	ROCKY		28/6/2017
839107	395280	6296908	DARK BROWN		20-40	20-30	B	2	ROCKY		28/6/2017
839108	395301	6296907	DARK BROWN		40-60	20-30	B	2	BASE OF CLIFF	ROCKY	28/6/2017
839109	395321	6296905	BROWN		0-20	20-30	B	3	ROCKY		28/6/2017
839110	395353	6296892							BLANK		28/6/2017
839111	395395	6296909	DARK BROWN	BLACK	20-40	20-30	B	1	ORGANIC	ROCKY	28/6/2017
839112	395425	6296903	DARK BROWN		20-40	20-30	B	2	ROCKY		28/6/2017
839113	395438	6296904	DARK BROWN	BLACK	20-40	20-30	B	1	ROCKY		28/6/2017
839114	395453	6296908	DARK BROWN		20-40	20-30	B	2	ROCKY	TOP OF CLIFF	28/6/2017
839115	395473	6296903	BROWN		20-40	20-30	B	2	ROCKY	BASE OF CLIFF	28/6/2017
839116	395135	6296948	LIGHT BROWN		20-40	20-30	B	4	LINE START		28/6/2017
839117	395178	6296948	DARK BROWN		20-40	20-30	B	3			28/6/2017
839118	395198	6296943	LIGHT BROWN		20-40	20-30	B	3	ROCKY		28/6/2017
839119	395222	6296947	BROWN		20-40	20-30	B	2	ORGANIC	ROCKY	28/6/2017
839120	395251	6296954	LIGHT BROWN		20-40	20-30	B	2	ROCKY		28/6/2017
839120D	395251	6296954	LIGHT BROWN		20-40	20-30	B	2	ROCKY	DUPLICATE	28/6/2017
839121	395276	6296953	DARK BROWN	BLACK	20-40	20-30	B	2	ORGANIC		28/6/2017
839122	395304	6296954	DARK BROWN	BLACK	20-40	20-30	B	2	ORGANIC	ROCKY	28/6/2017
839123	395325	6296953	BROWN		20-40	20-30	B	3	ROCKY	ROOT HOLE	28/6/2017
839124	395351	6296951	DARK BROWN		20-40	20-30	B	2	ORGANIC	ROCKY	28/6/2017
839125	395374	6296948	BROWN		20-40	20-30	B	2	ROCKY		29/6/2017
839126	395394	6296952	DARK BROWN		20-40	20-30	B	2	ROCKY	ROOT HOLE	29/6/2017
839127	395424	6296949	DARK BROWN	BROWN	20-40	20-30	B	3	ROCKY		29/6/2017
839128	395452	6296950	DARK BROWN	BROWN	20-40	20-30	B	3			29/6/2017
839129	395475	6296947	BROWN		20-40	20-30	B	3	CROSSED CREEK	ROCKY	29/6/2017
839130	395500	6296950							BLANK		29/6/2017
839131	395525	6296952	DARK BROWN		20-40	20-30	B	2	ROOT HOLE	ROCKY	29/6/2017
839132	395549	6296953	DARK BROWN	BLACK	20-40	20-30	B	1	ROCKY		29/6/2017
839133	395577	6296949	BROWN		20-40	20-30	B	3	ROCKY	ORGANIC	29/6/2017
839134	395601	6296951	BROWN	DARK BROWN	20-40	20-30	B	3	ROCKY		29/6/2017
839135	395625	6296950	BROWN		20-40	20-30	B	3	ROCKY		29/6/2017
839136	395650	6296952	BROWN		20-40	20-30	B	2	ROCKY		29/6/2017
839137	395676	6296951	BROWN		20-40	20-30	B	3	ROCKY		29/6/2017
839138	395702	6296952	DARK BROWN		40-60	20-30	B	1	ROCKY	ORGANIC	29/6/2017
839139	395727	6296956	BROWN		40-60	20-30	B	3	ROCKY		29/6/2017
839140	395750	6296952	BROWN	DARK BROWN	40-60	20-30	B	4	ROCKY	BASE OF CLIFF	29/6/2017
839141	395750	6296952	BROWN	DARK BROWN	40-60	20-30	B	4	ROCKY	BASE OF CLIFF	29/6/2017
839142	395776	6296951	DARK BROWN	BROWN	20-40	20-30	B	2	ROCKY	ORGANIC	29/6/2017
839143	395799	6296953	BROWN		20-40	20-30	B	3	LINE END		29/6/2017
839144	395806	6297001	LIGHT BROWN		20-40	20-30	B	4	LINE START		29/6/2017
839145	395783	6296999	LIGHT BROWN		20-40	20-30	B	3	ROCKY		29/6/2017
839146	395760	6296699	BROWN		20-40	20-30	B	3	ROCKY		29/6/2017
839147	395736	6297001	BROWN		20-40	20-30	B	3	ROCKY		29/6/2017
839148	395709	6297001	BROWN		20-40	20-30	B	3	ROCKY	ROOT HOLE	29/6/2017

Sample #	EASTING	NORTHING	PRIMARY COLOUR	SECONDARY COLOUR	SLOPE	DEPTH	HORIZON	QUALITY	NOTE 1	NOTE 2	DATE
839149	395686	6297001	BROWN		20-40	20-30	B	3			29/6/2017
839150	395659	6297002							BLANK		29/6/2017
839151	395636	6297003	LIGHT BROWN	BROWN	20-40	20-30	B	3	ROCKY		29/6/2017
839152	395608	6297001	DARK BROWN	BLACK	20-40	20-30	B	1	TALUS	ROCKY	29/6/2017
839153	395587	6296996	LIGHT BROWN	BROWN	0-20	20-30	B	3	TOP OF CLIFF	METERS ABOVE	29/6/2017
839154	395559	6297001	BROWN		20-40	20-30	B	3	ROCKY	CROSSED CREEK	29/6/2017
839155	395535	6297001	BROWN		40-60	20-30	B	3	ROCKY		29/6/2017
839156	395501	6297001	DARK BROWN		20-40	20-30	B	3	BASE OF CLIFF	10 METERS PAST	29/6/2017
839157	395467	6297001	BROWN		40-60	20-30	B	3	5 METERS PAST	ROCKY	30/6/2017
839158	395435	6297000	BROWN		20-40	20-30	B	1	TALUS	ROCKY	30/6/2017
839159	395409	6296998	BROWN		20-40	20-30	B	3	TALUS	ROCKY	30/6/2017
839160	395384	6297001	BROWN		20-40	20-30	B	2	TALUS	ROCKY	30/6/2017
839161	395384	6297001	BROWN		20-40	20-30	B	2	TALUS	ROCKY	30/6/2017
839162	395358	6296999	BROWN		20-40	20-30	B	2	TALUS	ROCKY	30/6/2017
839163	395336	6297001	BROWN		20-40	20-30	B	2	TALUS	ROCKY	30/6/2017
839164	395310	6296999	DARK BROWN	BLACK	20-40	20-30	B	1	ORGANIC	ROOT HOLE	30/6/2017
839165	395286	6297001	BROWN		0-20	20-30	B	4	ROCKY		30/6/2017
839166	395250	6297000	BROWN		20-40	20-30	B	3	ROCKY		30/6/2017
839167	395235	6297001	LIGHT BROWN	BROWN	20-40	20-30	B	3	ROCKY	CROSSED CREEK	30/6/2017
839168	395210	6297001	BROWN	LIGHT BROWN	20-40	20-30	B	5	CROSSED CREEK		30/6/2017
839169	395184	6297001	BROWN	LIGHT BROWN	20-40	20-30	B	4			30/6/2017
839170	395159	6297000			20-40	20-30	B		BLANK		30/6/2017
839171	395134	6297000	BROWN		0-20	20-30	B	4	LINE END		30/6/2017
839172	395134	6297041	LIGHT BROWN		20-40	20-30	B	4	LINE START	ROCKY	30/6/2017
839173	395148	6297052	BROWN		0-20	20-30	B	4			30/6/2017
839174	395174	6297050	LIGHT BROWN	BROWN	0-20	20-30	B	4			30/6/2017
839175	395198	6297051	BROWN	BLACK	0-20	20-30	B	3	ROCKY		30/6/2017
839176	395224	6297050	BROWN		0-20	20-30	B	3	ROCKY		30/6/2017
839177	395250	6297051	BROWN		0-20	20-30	B	3	ROCKY		30/6/2017
839178	395276	6297052	BROWN		0-20	20-30	B	3	ROCKY		30/6/2017
839179	395299	6297052	BROWN		0-20	20-30	B	2	TALUS	ROCKY	30/6/2017
839180	395331	6297049	DARK BROWN		20-40	20-30	B	1	5 METERS PAST	TALUS	30/6/2017
839181	395331	6297049	DARK BROWN		20-40	20-30	B	1	5 METERS PAST	TALUS	30/6/2017
839182	395348	6297051	DARK BROWN		20-40	20-30	B	1	ROCKY	ORGANIC	30/6/2017
839183	395374	6297049	BROWN	DARK BROWN	20-40	20-30	B	3	ROCKY	ROOT HOLE	30/6/2017
839184	395399	6297050	BROWN	DARK BROWN	20-40	20-30	B	2	ORGANIC	ROCKY	30/6/2017
839185	395424	6297051	BROWN		20-40	20-30	B	3	ROCKY	ORGANIC	30/6/2017
839186	395452	6297050	BROWN		20-40	20-30	B	3	ROCKY		30/6/2017
839187	395475	6297048	BROWN		20-40	20-30	B	3	CROSSED CREEK	ROCKY	30/6/2017
839188	395497	6297050	BROWN		20-40	20-30	B	3	ROCKY	ORGANIC	30/6/2017
839189	395528	6297051	BROWN		20-40	20-30	B	3	5 METERS PAST	ROCKY	30/6/2017
839190	395548	6297049							BLANK		30/6/2017
839191	395575	6297048	BROWN		20-40	20-30	B	3	ROCKY		30/6/2017
839192	395600	6297049	BROWN		20-40	20-30	B	2	BASE OF CLIFF	ROCKY	30/6/2017
839193	395223	6297247	LIGHT BROWN		0-20	20-30	B	3	LINE START	ROCKY	07/01/2017
839194	395207	6297253	BROWN		20-40	20-30	B	3			07/01/2017
839195	395169	6297252	BROWN		0-20	20-30	B	3	SANDY		07/01/2017
839196	395152	6297252	BROWN	GRAY	20-40	20-30	B	3	ROOT HOLE		07/01/2017
839197	395109	6297253	DARK BROWN		20-40	20-30	B	3			07/01/2017

Sample #	EASTING	NORTHING	PRIMARY COLOUR	SECONDARY COLOUR	SLOPE	DEPTH	HORIZON	QUALITY	NOTE 1	NOTE 2	DATE
839198	395074	6297249	DARK BROWN		20-40	20-30	B	2	ORGANICS		07/01/2017
839199	395050	6297250	BROWN		20-40	20-30	B	3	CROSSED CREEK	ROCKY	07/01/2017
839200	395024	6297252	RUSTY BROWN		20-40	20-30	B	3			07/01/2017
839201	395024	6297252	RUSTY BROWN		20-40	20-30	B	3	DUPLICATE		07/01/2017
839202	395002	6297253	BROWN		20-40	20-30	B	3			07/01/2017
839203	394976	6297252	BROWN		20-40	20-30	B	3	ROCKY		07/01/2017
839204	394950	6297253	BROWN		20-40	20-30	B	4			07/01/2017
839205	394925	6297251	BROWN		20-40	20-30	B	4			07/01/2017
839206	394901	6297252	LIGHT BROWN	BROWN	20-40	20-30	B	3	ROCKY	NEXT TO CREEK	07/01/2017
839207	394877	6297253	BROWN		20-40	20-30	B	3	ROOT HOLE		07/01/2017
839208	394849	6297250	BROWN		20-40	20-30	B	3	ROCKY		07/01/2017
839209	394825	6297250	BROWN		20-40	20-30	B	3	CROSSED CREEK	ROOT HOLE	07/01/2017
839210	394800	6297250							BLANK		07/01/2017
839211	394774	6297250	DARK BROWN	BROWN	0-20	20-30	B	3	ROCKY		07/01/2017
839212	394749	6297252	BROWN		0-20	30-40	B	4	STUMP SAMPLE		07/01/2017
839213	394726	6297250	LIGHT BROWN	BROWN	0-20	20-30	B	3	ROOT HOLE		07/01/2017
839214	394699	6297251	LIGHT BROWN	BROWN	0-20	20-30	B	3	ROCKY	ROOT HOLE	07/01/2017
839215	394675	6297252	LIGHT BROWN	BROWN	0-20	20-30	B	3			07/01/2017
839216	394648	6297248	RUSTY BROWN		20-40	20-30	B	4	ROCKY		07/01/2017
839217	394625	6297252	LIGHT BROWN		40-60	20-30	B	3	CROSSED CREEK		07/01/2017
839218	394600	6297251	BROWN		20-40	20-30	B	3	LINE END	ROOT HOLE	07/01/2017
839219	394601	6297301	LIGHT BROWN	BROWN	40-60	20-30	B	2	LINE START	SANDY	07/01/2017
839220	394628	6297298	RUSTY BROWN	BROWN	20-40	20-30	B	3	ROOT HOLE		07/01/2017
839221	394628	6297298	RUSTY BROWN	BROWN	20-40	20-30	B	3	ROOT HOLE	DUPLICATE	07/01/2017
839222	394652	6297303	BROWN		20-40	20-30	B	3	ROOT HOLE	ROCKY	07/01/2017
839223	394678	6297299	LIGHT BROWN	BROWN	0-20	20-30	B	3			07/01/2017
839224	394703	6297298	RUSTY BROWN		20-40	20-30	B	4			07/01/2017
839225	394730	6297298	BROWN		20-40	20-30	B	4			07/01/2017
839226	394754	6297299	RUSTY BROWN		0-20	20-30	B	4			07/01/2017
839227	394779	6297302	BROWN		20-40	20-30	B	3	ROOT HOLE		07/02/2017
839228	394804	6297299	BROWN		20-40	20-30	B	3	ROOT HOLE		07/02/2017
839229	394829	6297299	BROWN		20-40	20-30	B				07/02/2017
839230	394854	6297303			20-40	20-30	B		BLANK		07/02/2017
839231	394877	6297299	BROWN		0-20	20-30	B	4	CROSSED CREEK		07/02/2017
839232	394905	6297300	BROWN	GRAY	0-20	20-30	B	3			07/02/2017
839233	394927	6297300	BROWN		0-20	20-30	B	3			07/02/2017
839234	394955	6297302	DARK BROWN		0-20	20-30	B	3	ROOT HOLE		07/02/2017
839235	394980	6297301	BROWN		40-60	20-30	B	3	CROSSED CREEK	ROCKY	07/02/2017
839236	395004	6297301	DARK BROWN		20-40	20-30	B	4			07/02/2017
839237	395029	6297302	RUSTY BROWN		20-40	20-30	B	4			07/02/2017
839238	395053	6297301	BROWN		0-20	20-30	B	4	ROOT HOLE		07/02/2017
839239	395077	6297300	DARK BROWN		20-40	20-30	B	4			07/02/2017
839240	395106	6297300	BROWN		20-40	20-30	B	4			07/02/2017
839241	395106	6297300	BROWN		20-40	20-30	B	4	DUPLICATE		07/02/2017
839242	395129	6297300	BROWN		20-40	20-30	B	3			07/02/2017
839243	395155	6297298	RUSTY BROWN		20-40	20-30	B	3	ROCKY		07/02/2017
839244	395179	6297301	RUSTY BROWN		40-60	20-30	B	4			07/02/2017
839245	395233	6297299	BROWN		40-60	20-30	B	4	LINE END		07/02/2017
839246	395299	6297350	BROWN		20-40	20-30	B	4	LINE START		07/02/2017

Sample #	EASTING	NORTHING	PRIMARY COLOUR	SECONDARY COLOUR	SLOPE	DEPTH	HORIZON	QUALITY	NOTE 1	NOTE 2	DATE
839247	395274	6297348	BROWN		20-40	20-30	B	3	ROOT HOLE	ROCKY	07/02/2017
839248	395250	6297348	RUSTY BROWN	BROWN	20-40	20-30	B	4	ROOT HOLE		07/02/2017
839249	395226	6297349	RUSTY BROWN		20-40	20-30	B	4			07/02/2017
839250	395201	6297348							BLANK		07/02/2017
839251	395177	6297349	DARK BROWN		0-20	20-30	B	3	ROCKY	ORGANIC	07/02/2017
839252	395151	6297347	DARK BROWN		20-40	20-30	B	3	ROCKY	ORGANIC	07/02/2017
839253	395126	6297349	DARK BROWN		20-40	20-30	B	3	ROCKY	ORGANIC	07/02/2017
839254	395102	6297352	RUSTY BROWN		20-40	20-30	B	3	ROCKY		07/02/2017
839255	395075	6297350	RUSTY BROWN		0-20	20-30	B	3	ROCKY		07/02/2017
839256	395052	6297349	LIGHT BROWN	BROWN	0-20	20-30	B	3	ROOT HOLE		07/02/2017
839257	394599	6297351	BROWN		20-40	20-30	B	4	ROCKY	LINE END	07/03/2017
839258	394623	6297351	DARK BROWN	BROWN	20-40	20-30	B	4			07/03/2017
839259	394651	6297351	BROWN		0-20	20-30	B	3			07/03/2017
839260	394673	6297351	BROWN	LIGHT BROWN	0-20	20-30	B	3	ROCKY		07/03/2017
839261	394673	6297351	BROWN	LIGHT BROWN	0-20	20-30	B	3	ROCKY	DUPLICATE	07/03/2017
839262	394701	6297351	LIGHT BROWN		0-20	20-30	B	4			07/03/2017
839263	394726	6297349	RUSTY BROWN		40-60	20-30	B	5			07/03/2017
839264	394748	6297351	RUSTY BROWN	LIGHT BROWN	40-60	20-30	B	4			07/03/2017
839265	394774	6297350	LIGHT BROWN	GRAY	0-20	20-30	B	3	ROCKY	NEXT TO CREEK	07/03/2017
839266	394799	6297352	RUSTY BROWN		0-20	30-40	B	5	STUMP SAMPLE	NEXT TO CREEK	07/03/2017
839267	394826	6297353	RUSTY BROWN		20-40	20-30	B	4	ROCKY		07/03/2017
839268	394850	6297352	BROWN	GRAY	20-40	20-30	B	3	ROCKY		07/03/2017
839269	394875	6297351	BROWN	RUSTY BROWN	20-40	20-30	B	4	ROCKY		07/03/2017
839270	394900	6297351							BLANK		07/03/2017
839271	394924	6297351	BROWN		20-40	20-30	B	4	ROCKY		07/03/2017
839272	394952	6297353	LIGHT BROWN	BROWN	40-60	20-30	B	4	NEXT TO CREEK		07/03/2017
839273	394974	6297353	BROWN		20-40	20-30	B	3	ROOT HOLE		07/03/2017
839274	395001	6297353	DARK BROWN	BROWN	20-40	20-30	B	4			07/03/2017
839275	395026	6297353	LIGHT BROWN	BROWN	20-40	20-30	B	4			07/03/2017
839276	395225	6297399	RUSTY BROWN	BROWN	0-20	20-30	B	4	ROOT HOLE		07/03/2017
839277	395250	6297402	DARK BROWN		0-20	20-30	B	3			07/03/2017
839278	395275	6297401	GRAY	BROWN	0-20	20-30	B	3	ROOT HOLE		07/03/2017
839279	395301	6297402	BROWN		0-20	20-30	B	3	ROOT HOLE		07/03/2017
839280	395324	6297399	DARK BROWN	BROWN	0-20	30-40	B	3	ROOT HOLE		07/03/2017
839281	395324	6297399	DARK BROWN	BROWN	0-20	30-40	B	3	ROOT HOLE	DUPLICATE	07/03/2017
839282	395351	6297402	DARK BROWN	BROWN	0-20	20-30	B	2	ORGANIC	ROCKY	07/03/2017
839283	395376	6297403	BROWN		0-20	20-30	B	4	ROOT HOLE		07/03/2017
839284	395401	6297402	BROWN		40-60	20-30	B	3	ROCKY		07/03/2017
839285	395425	6297400	BROWN		40-60	20-30	B	4			07/03/2017
839286	395451	6297399	BROWN		40-60	20-30	B	4	ROCKY	ROOT HOLE	07/03/2017
839287	395475	6297402	BROWN		40-60	20-30	B	3	ROCKY		07/03/2017
839288	395503	6297404	BROWN		20-40	20-30	B	3	ROCKY		07/03/2017
839289	395526	6297400	BROWN		20-40	20-30	B	3	LINE START		07/03/2017
839290	394600	6297399							BLANK	LINE END	07/04/2017
839291	394625	6297405	BROWN		20-40	20-30	B	4			07/04/2017
839292	394649	6297400	BROWN		0-20	20-30	B	3	ROCKY		07/04/2017
839293	394674	6297399	BROWN		0-20	20-30	B	4			07/04/2017
839294	394699	6297403	BROWN		0-20	20-30	B	4			07/04/2017
839295	394724	6297401	BROWN		0-20	20-30	B	4	NEXT TO CREEK		07/04/2017

Sample #	EASTING	NORTHING	PRIMARY COLOUR	SECONDARY COLOUR	SLOPE	DEPTH	HORIZON	QUALITY	NOTE 1	NOTE 2	DATE
839296	394750	6297400	BROWN		0-20	20-30	B	3	ROOT HOLE	ORGANIC	07/04/2017
839297	394777	6297400	BROWN		0-20	20-30	B	4			07/04/2017
839298	394798	6297400	RUSTY BROWN	LIGHT BROWN	0-20	20-30	B	4	ROOT HOLE		07/04/2017
839299	394824	6297399	RUSTY BROWN		20-40	20-30	B	4	ROOT HOLE		07/04/2017
839300	394852	6297404	RUSTY BROWN	BROWN	20-40	20-30	B	5			07/04/2017
839301	394852	6297404	RUSTY BROWN	BROWN	20-40	20-30	B	5	DUPLICATE		07/04/2017
839302	394875	6297399	RUSTY BROWN		20-40	20-30	B	4			07/04/2017
839303	394901	6297402	BROWN		20-40	20-30	B	4	ROOT HOLE		07/04/2017
839304	394925	6297402	BROWN		40-60	20-30	B	3	ROCKY		07/04/2017
839305	394952	6297408	LIGHT BROWN	GRAY	40-60	30-40	B	3	0 METERS ABOVE	CROSSED CREEK	07/04/2017
839306	394973	6297400	DARK BROWN		20-40	20-30	B	3	ROCKY	ORGANIC	07/04/2017
839307	395003	6297400	DARK BROWN	BROWN	0-20	20-30	B	4			07/04/2017
839308	395025	6297400	BROWN		40-60	20-30	B	3	NEXT TO CREEK	ROCKY	07/04/2017
839309	395054	6297401	BROWN		20-40	20-30	B	4	ROOT HOLE		07/04/2017
839310	395076	6297399							BLANK		07/04/2017
839311	395099	6297401	BROWN		0-20	20-30	B	3	ROCKY		07/04/2017
839312	395124	6297401	DARK BROWN		20-40	20-30	B	3	ROCKY	ORGANIC	07/04/2017
839313	395149	6297401	BROWN		0-20	20-30	B	3	ROCKY		07/04/2017
839314	395174	6297399	BROWN		0-20	20-30	B	3	ROCKY		07/04/2017
839315	395199	6297401	DARK BROWN		20-40	20-30	B	3	ROCKY		07/04/2017
839316	395175	6297449	BROWN		20-40	20-30	B	4			07/04/2017
839317	395200	6297448	DARK BROWN		40-60	20-30	B	3	ROOT HOLE	ORGANIC	07/04/2017
839318	395224	6297451	BROWN		20-40	20-30	B	3	ROCKY		07/04/2017
839319	395251	6297451	BROWN		40-60	20-30	B	2	ROCKY	ORGANIC	07/04/2017
839320	395276	6297451	BROWN		20-40	20-30	B	3	ROOT HOLE	ROCKY	07/04/2017
839321	395276	6297451	BROWN		20-40	20-30	B	3	ROOT HOLE	ROCKY	07/04/2017
839322	395301	6297452	BROWN		20-40	20-30	B	3	ROCKY		07/04/2017
839323	395325	6297450	BROWN		0-20	20-30	B	4	ROCKY		07/04/2017
839324	395354	6297453	BROWN		20-40	20-30	B	3	ROOT HOLE	ROCKY	07/04/2017
839325	395378	6297453	RUSTY BROWN		20-40	20-30	B	3	ROCKY	ORGANIC	07/04/2017
839326	395400	6297447	BROWN		0-20	20-30	B	3	ROCKY	ORGANIC	07/04/2017
839327	395428	6297450	BROWN		20-40	20-30	B	3	ORGANIC		07/04/2017
839328	395449	6297453	RUSTY BROWN		40-60	20-30	B	5			07/04/2017
839329	395473	6297451	RUSTY BROWN		20-40	20-30	B	5			07/04/2017
839330	395501	6297452							BLANK		07/04/2017
839331	395527	6297455	BROWN		20-40	20-30	B	3	CROSSED CREEK	METERS ABOVE	07/04/2017
839332	395550	6297450	RUSTY BROWN		40-60	20-30	B	4			07/04/2017
839333	395574	6297452	BROWN		40-60	20-30	B	3	ROCKY	LINE START	07/04/2017
839334	394600	6297449	BROWN		20-40	20-30	B	3	ROCKY	LINE END	07/05/2017
839335	394623	6297452	BROWN		0-20	20-30	B	3	ORGANIC	NEXT TO CREEK	07/05/2017
839336	394650	6297450	BROWN		20-40	20-30	B	3	ROOT HOLE		07/05/2017
839337	394675	6297450	BROWN		20-40	20-30	B	3	ROCKY		07/05/2017
839338	394700	6297452	BROWN		20-40	20-30	B	3	ROOT HOLE	ORGANIC	07/05/2017
839339	394724	6297451	BROWN		0-20	20-30	B	3	ROCKY		07/05/2017
839340	394748	6297448	BROWN		0-20	20-30	B	3			07/05/2017
839341	394748	6297448	BROWN		0-20	20-30	B	3	DUPLICATE		07/05/2017
839342	394773	6297450	BROWN		20-40	20-30	B	3			07/05/2017
839343	394799	6297450	RUSTY BROWN		0-20	20-30	B	4			07/05/2017
839344	394826	6297450	BROWN		0-20	20-30	B	4			07/05/2017

Sample #	EASTING	NORTHING	PRIMARY COLOUR	SECONDARY COLOUR	SLOPE	DEPTH	HORIZON	QUALITY	NOTE 1	NOTE 2	DATE
839345	394849	6297449	BROWN	GRAY	0-20	20-30	B	3	ROOT HOLE	ROCKY	07/05/2017
839346	394875	6297452	BROWN		40-60	20-30	B	3	ROCKY		07/05/2017
839347	394902	6297452	LIGHT BROWN	BROWN	0-20	20-30	B	3	NEXT TO CREEK		07/05/2017
839348	394926	6297451	BROWN	GRAY	0-20	20-30	B	3	ROCKY		07/05/2017
839349	394949	6297448	BROWN	RUSTY BROWN	20-40	20-30	B	3	ROOT HOLE		07/05/2017
839350	394976	6297452							BLANK		07/05/2017
839351	394999	6297448	BROWN		40-60	20-30	B	3	ROCKY		07/05/2017
839352	395026	6297453	BROWN		40-60	20-30	B	3	ROCKY	NEXT TO CREEK	07/05/2017
839353	395050	6297448	BROWN		20-40	20-30	B	3	ROCKY		07/05/2017
839354	395077	6297449	RUSTY BROWN		20-40	20-30	B	3	ROCKY		07/05/2017
839355	395102	6297451	BROWN		20-40	20-30	B	4			07/05/2017
839356	395124	6297449	DARK BROWN	BROWN	0-20	20-30	B	3	ROCKY		07/05/2017
839357	395149	6297452	BROWN		20-40	20-30	B	3	ROOT HOLE	ROCKY	07/05/2017
839358	395297	6297498	BROWN		20-40	20-30	B	3	ROCKY		07/05/2017
839359	395322	6297501	DARK BROWN		20-40	20-30	B	3	ROCKY		07/05/2017
839360	395348	6297501	DARK BROWN	BROWN	20-40	20-30	B	3	ORGANIC		07/05/2017
839361	395348	6297501	DARK BROWN	BROWN	20-40	20-30	B	3	ORGANIC	DUPLICATE	07/05/2017
839362	395376	6297499	BROWN		0-20	20-30	B	3			07/05/2017
839363	395399	6297502	LIGHT BROWN	GRAY	20-40	20-30	B	3			07/05/2017
839364	395424	6297500	BROWN		20-40	20-30	B	4			07/05/2017
839365	395449	6297500	RUSTY BROWN		20-40	20-30	B	4			07/05/2017
839366	395474	6297498	RUSTY BROWN		20-40	20-30	B	4			07/05/2017
839367	395501	6297503	RUSTY BROWN		20-40	20-30	B	4			07/05/2017
839368	395525	6297501	RUSTY BROWN		20-40	20-30	B	4			07/05/2017
839369	395551	6297498	BROWN		20-40	20-30	B	4			07/05/2017
839370	395576	6297499							BLANK		07/05/2017
839371	395601	6297500	BROWN	GRAY	20-40	20-30	B	3	ROCKY	ROOT HOLE	07/05/2017
839372	395627	6297500	RUSTY BROWN		40-60	20-30	B	4	ROCKY		07/05/2017
839373	395649	6297499	RUSTY BROWN		40-60	20-30	B	3	ROCKY		07/05/2017
839374	395676	6297501	BROWN		40-60	20-30	B	3	ROCKY		07/05/2017
839375	395699	6297502	BROWN		20-40	20-30	B	3	ROCKY	LINE END	07/05/2017
839376	394600	6297499	BROWN		20-40	20-30	B	3	LINE START		07/06/2017
839377	394623	6297500	DARK BROWN		0-20	20-30	B	3	ROCKY		07/06/2017
839378	394651	6297502	BROWN		20-40	20-30	B	3	ROCKY		07/06/2017
839379	394675	6297502	BROWN		20-40	20-30	B	4			07/06/2017
839380	394698	6297500	DARK BROWN	BROWN	20-40	20-30	B	3	ROCKY	ROOT HOLE	07/06/2017
839381	394698	6297500	DARK BROWN	BROWN	20-40	20-30	B	3	ROCKY	ROOT HOLE	07/06/2017
839382	394726	6297500	BROWN		20-40	20-30	B	3	ROCKY	ROOT HOLE	07/06/2017
839383	394748	6297501	DARK BROWN	BROWN	20-40	20-30	B	2	ROCKY		07/06/2017
839384	394776	6297499	BROWN		0-20	20-30	B	3	ROOT HOLE	ROCKY	07/06/2017
839385	394798	6297499	BROWN		0-20	20-30	B	3	ROCKY		07/06/2017
839386	394823	6297500	BROWN		0-20	20-30	B	3	ROCKY	ROOT HOLE	07/06/2017
839387	394848	6297502	BROWN		20-40	20-30	B	4	ROCKY		07/06/2017
839388	394872	6297499	DARK BROWN		40-60	20-30	B	2	ROCKY		07/06/2017
839389	394897	6297499	BROWN		20-40	20-30	B	3	ROOT HOLE	ROCKY	07/06/2017
839390	394923	6297500							BLANK		07/06/2017
839391	394951	6297499	RUSTY BROWN		0-20	20-30	B	4			07/06/2017
839392	394973	6297498	RUSTY BROWN		0-20	20-30	B	4			07/06/2017
839393	394998	6297499	BROWN		0-20	20-30	B	4	CROSSED CREEK		07/06/2017

Sample #	EASTING	NORTHING	PRIMARY COLOUR	SECONDARY COLOUR	SLOPE	DEPTH	HORIZON	QUALITY	NOTE 1	NOTE 2	DATE
839394	395023	6297502	RUSTY BROWN		20-40	20-30	B	4			07/06/2017
839395	395050	6297499	RUSTY BROWN		20-40	20-30	B	4			07/06/2017
839396	395076	6297497	LIGHT BROWN		20-40	20-30	B	4			07/06/2017
839397	395098	6297501	RUSTY BROWN		0-20	20-30	B	4			07/06/2017
839398	395128	6297502	BROWN		40-60	20-30	B	3	ROCKY	ORGANIC	07/06/2017
839399	395148	6297500	BROWN		40-60	20-30	B	3	ROCKY	ROOT HOLE	07/06/2017
839400	395174	6297499	DARK BROWN	BROWN	20-40	20-30	B	3	ROCKY	ROOT HOLE	07/06/2017
839401	395174	6297499	DARK BROWN	BROWN	20-40	20-30	B	3	ROCKY	ROOT HOLE	07/06/2017
839402	395198	6297501	RUSTY BROWN	LIGHT BROWN	20-40	20-30	B	3	ROCKY		07/06/2017
839403	395224	6297504	BROWN		20-40	20-30	B	2	ROCKY		07/06/2017
839404	395248	6297498	DARK BROWN		40-60	20-30	B	3	ROCKY		07/06/2017
839405	395275	6297501	DARK BROWN		20-40	20-30	B	3	ORGANIC		07/06/2017
839406	395302	6297549	DARK BROWN	BROWN	20-40	20-30	B	3	ROCKY		07/06/2017
839407	395328	6297551	RUSTY BROWN		20-40	20-30	B	4	ROCKY		07/06/2017
839408	395352	6297548	BROWN		20-40	20-30	B	4			07/06/2017
839409	395378	6297552	BROWN		40-60	20-30	B	4	ROOT HOLE	NEXT TO CREEK	07/06/2017
839410	395400	6297550							BLANK		07/06/2017
839411	395423	6297552	DARK BROWN		20-40	20-30	B	3	ORGANIC		07/06/2017
839412	395449	6297552	LIGHT BROWN		20-40	20-30	B	4			07/06/2017
839413	395475	6297548	BROWN		20-40	20-30	B	3	ROCKY	ORGANIC	07/06/2017
839414	395501	6297551	RUSTY BROWN		20-40	20-30	B	4			07/06/2017
839415	395527	6297553	BROWN		20-40	20-30	B	3	ROCKY	ORGANIC	07/06/2017
839416	395545	6297548	BROWN		20-40	20-30	B	3	ROCKY		07/06/2017
839417	395575	6297549	BROWN	GRAY	20-40	20-30	B	3	CROSSED CREEK	ROCKY	07/06/2017
839418	395600	6297551	RUSTY BROWN		0-20	20-30	B	3	ROCKY	CROSSED CREEK	07/06/2017
839419	395625	6297548	RUSTY BROWN		0-20	20-30	B	4			07/06/2017
839420	395651	6297551	RUSTY BROWN		0-20	20-30	B	4	ROCKY		07/06/2017
839421	395651	6297551	RUSTY BROWN		0-20	20-30	B	4	ROCKY	DUPLICATE	07/06/2017
839422	395675	6297549	BROWN		20-40	20-30	B	4	ROCKY		07/06/2017
839423	395702	6297551	BROWN		20-40	20-30	B	3	ROCKY	LINE START	07/06/2017
839424	394600	6297551	DARK BROWN		20-40	20-30	B	3	LINE START	ROCKY	07/07/2017
839425	394625	6297548	BROWN		20-40	20-30	B	3	ROCKY		07/07/2017
839426	394651	6297553	BROWN		40-60	20-30	B	4	BASE OF CLIFF		07/07/2017
839427	394674	6297551	BROWN		40-60	20-30	B	3	ROCKY	ROOT HOLE	07/07/2017
839428	394698	6297552	LIGHT BROWN	BROWN	40-60	20-30	B	3	ROCKY		07/07/2017
839429	394724	6297548	BROWN	4	40-60	20-30	B	3			07/07/2017
839430	394749	6297553							BLANK		07/07/2017
839431	394773	6297553	BROWN		40-60	20-30	B	4	ROOT HOLE		07/07/2017
839432	394798	6297552	LIGHT BROWN	BROWN	20-40	20-30	B	3	ROCKY	TOP OF CLIFF	07/07/2017
839433	394824	6297554	BROWN		20-40	20-30	B	3	ROCKY		07/07/2017
839434	394848	6297551	BROWN	RUSTY BROWN	40-60	20-30	B	4			07/07/2017
839435	394873	6297548	RUSTY BROWN		20-40	20-30	B	4	ROCKY		07/07/2017
839436	394897	6297552	RUSTY BROWN		0-20	20-30	B	5	TOP OF CLIFF		07/07/2017
839437	394924	6297553	RUSTY BROWN	LIGHT BROWN	20-40	20-30	B	4			07/07/2017
839438	394947	6297553	BROWN		40-60	20-30	B	3	ROCKY	BASE OF CLIFF	07/07/2017
839439	394975	6297551	BROWN		0-20	20-30	B	4			07/07/2017
839440	394998	6297551	RUSTY BROWN		20-40	20-30	B	4	ROOT HOLE		07/07/2017
839441	394998	6297551	RUSTY BROWN		20-40	20-30	B	4	ROOT HOLE	DUPLICATE	07/07/2017
839442	395027	6297550	RUSTY BROWN		20-40	20-30	B	4	ROCKY		07/07/2017

Sample #	EASTING	NORTHING	PRIMARY COLOUR	SECONDARY COLOUR	SLOPE	DEPTH	HORIZON	QUALITY	NOTE 1	NOTE 2	DATE
839443	395050	6297552	BROWN		20-40	20-30	B	3	ROOT HOLE		07/07/2017
839444	395076	6297549	RUSTY BROWN	BROWN	20-40	20-30	B	5			07/07/2017
839445	395099	6297553	BROWN		20-40	20-30	B	4			07/07/2017
839446	395124	6297552	BROWN		20-40	20-30	B	3	ROOT HOLE	ROCKY	07/07/2017
839447	395148	6297551	RUSTY BROWN	BROWN	20-40	20-30	B	4			07/07/2017
839448	395173	6297552	BROWN	RUSTY BROWN	20-40	20-30	B	3	ROOT HOLE		07/07/2017
839449	395198	6297553	DARK BROWN		20-40	20-30	B	3	ROCKY	ROOT HOLE	07/07/2017
839450	395226	6297550							BLANK		07/07/2017
839451	395252	6297553	BROWN		40-60	20-30	B	3	ROOT HOLE		07/07/2017
839452	395274	6297555	BROWN	RUSTY BROWN	20-40	20-30	B	3	5 METERS ABOVE	TOP OF CLIFF	07/07/2017
839453	395552	6297603	LIGHT BROWN		20-40	20-30	B	4			07/07/2017
839454	395574	6297603	BROWN		0-20	20-30	B	4			07/07/2017
839455	395602	6297604	BROWN		20-40	20-30	B	3	ROCKY		07/07/2017
839456	395626	6297605	BROWN		20-40	20-30	B	4			07/07/2017
839457	395654	6297597	BROWN		0-20	20-30	B	4			07/07/2017
839458	395676	6297604	BROWN		0-20	20-30	B	3	ROCKY	ROOT HOLE	07/07/2017
839459	395699	6297600	BROWN		0-20	20-30	B	3	ROCKY		07/07/2017
839460	395725	6297603	RUSTY BROWN	BROWN	20-40	20-30	B	3	ROOT HOLE		07/07/2017
839461	395725	6297603	RUSTY BROWN	BROWN	20-40	20-30	B	3	ROOT HOLE	DUPLICATE	07/07/2017
839462	395750	6297604	DARK BROWN		20-40	20-30	B	3	ROCKY	ROOT HOLE	07/07/2017
839463	395775	6297604	DARK BROWN	BROWN	0-20	20-30	B	3	ORGANIC		07/07/2017
839464	395798	6297603	BROWN	DARK BROWN	20-40	20-30	B	2	ORGANIC		07/07/2017
839465	395826	6297604	DARK BROWN	GRAY	40-60	20-30	B	3	ROOT HOLE		07/07/2017
839466	395855	6297604	DARK BROWN		20-40	20-30	B	4	ROCKY	LINE END	07/07/2017
839467	394600	6297601	BROWN		40-60	20-30	B	3	ROCKY	ORGANIC	07/08/2017
839468	394625	6297601	BROWN		40-60	20-30	B	4			07/08/2017
839469	394651	6297602	BROWN		0-20	20-30	B	3	TOP OF CLIFF	ROCKY	07/08/2017
839470	394673	6297600							BLANK		07/08/2017
839471	394700	6297599	BROWN		40-60	20-30	B	3	ROCKY	ORGANIC	07/08/2017
839472	394725	6297602	DARK BROWN	BROWN	40-60	20-30	B	3	ROCKY	ORGANIC	07/08/2017
839473	394751	6297602	BROWN		0-20	20-30	B	3	ROCKY	ORGANIC	07/08/2017
839474	394773	6297603	BROWN		20-40	20-30	B	3	ROCKY	ORGANIC	07/08/2017
839475	394800	6297602	BROWN		20-40	20-30	B	4			07/08/2017
839476	394826	6297601	BROWN		20-40	20-30	B	3	ROCKY	ROOT HOLE	07/08/2017
839477	394848	6297601	BROWN		0-20	20-30	B	3	ROCKY	ROOT HOLE	07/08/2017
839478	394877	6297601	RUSTY BROWN		0-20	30-40	B	4	ROCKY	STUMP SAMPLE	07/08/2017
839479	394902	6297601	RUSTY BROWN		0-20	20-30	B	4	ROCKY		07/08/2017
839480	394923	6297602	BROWN	RUSTY BROWN	0-20	20-30	B	3	ROCKY		07/08/2017
839481	394923	6297602	BROWN	RUSTY BROWN	0-20	20-30	B	3	ROCKY	DUPLICATE	07/08/2017
839482	394947	6297612	RUSTY BROWN	BROWN	0-20	20-30	B	3	0 METERS ABOVE	TOP OF CLIFF	07/08/2017
839483	394973	6297600	BROWN		20-40	20-30	B	4	CROSSED CREEK		07/08/2017
839484	394997	6297600	RUSTY BROWN		20-40	20-30	B	4			07/08/2017
839485	395022	6297599	RUSTY BROWN		20-40	20-30	B	3	ROCKY	ROOT HOLE	07/08/2017
839486	395049	6297603	RUSTY BROWN		0-20	20-30	B	5			07/08/2017
839487	395076	6297600	BROWN		0-20	20-30	B	4	ROCKY		07/08/2017
839488	395098	6297603	RUSTY BROWN		20-40	20-30	B	4	ROCKY		07/08/2017
839489	395124	6297601	BROWN		0-20	20-30	B	3	ROCKY	ROOT HOLE	07/08/2017
839490	395150	6297602							BLANK		07/08/2017
839491	395174	6297602	RUSTY BROWN		0-20	20-30	B	4			07/08/2017

Sample #	EASTING	NORTHING	PRIMARY COLOUR	SECONDARY COLOUR	SLOPE	DEPTH	HORIZON	QUALITY	NOTE 1	NOTE 2	DATE
839492	395198	6297601	BROWN	RUSTY BROWN	0-20	20-30	B	3	ROCKY	ORGANIC	07/08/2017
839493	395222	6297602	RUSTY BROWN	BROWN	0-20	20-30	B	4			07/08/2017
839494	395248	6297602	BROWN		0-20	20-30	B	3	ROCKY		07/08/2017
839495	395274	6297602	BROWN		0-20	20-30	B	4			07/08/2017
839496	395304	6297600	BROWN		20-40	20-30	B	4			07/08/2017
839497	395323	6297602	BROWN		20-40	20-30	B	3	ROCKY		07/08/2017
839498	395349	6297603	BROWN		20-40	20-30	B	4			07/08/2017
839499	395374	6297601	BROWN		0-20	20-30	B	5			07/08/2017
839500	395397	6297603	RUSTY BROWN		0-20	20-30	B	5			07/08/2017
839501	395397	6297603	RUSTY BROWN		0-20	20-30	B	5	DUPLICATE		07/08/2017
839502	395423	6297612	BROWN		20-40	20-30	B	3	0 METERS ABOVE	NEXT TO CREEK	07/08/2017
839503	395450	6297611	RUSTY BROWN		40-60	20-30	B	5	0 METERS ABOVE	CROSSED CREEK	07/08/2017
839504	395472	6297602	BROWN		20-40	20-30	B	3	ORGANIC	NEXT TO CREEK	07/08/2017
839505	395498	6297602	BROWN		40-60	20-30	B	3	CROSSED CREEK	ROCKY	07/08/2017
839506	395525	6297603	BROWN	RUSTY BROWN	40-60	20-30	B	4			07/08/2017
839507	395498	6297650	RUSTY BROWN		20-40	20-30	B	4			07/08/2017
839508	395523	6297652	RUSTY BROWN		20-40	20-30	B	4			07/08/2017
839509	395548	6297653	LIGHT BROWN	BROWN	20-40	20-30	B	3	ROOT HOLE		07/08/2017
839510	395572	6297648							BLANK		07/08/2017
839511	395598	6297647	BROWN		40-60	20-30	B	4	ROCKY		07/08/2017
839512	395623	6297651	BROWN		0-20	20-30	B	2	ROCKY	ORGANIC	07/08/2017
839513	395651	6297651	RUSTY BROWN	BROWN	0-20	20-30	B	4	ROCKY		07/08/2017
839514	395674	6297647	BROWN		0-20	20-30	B	3	ROCKY		07/08/2017
839515	395700	6297651	RUSTY BROWN		0-20	20-30	B	3	ROCKY	ROOT HOLE	07/08/2017
839516	395724	6297649	RUSTY BROWN		20-40	20-30	B	3	ROCKY		07/08/2017
839517	395748	6297651	BROWN		40-60	20-30	B	3	ROCKY	ORGANIC	07/08/2017
839518	395773	6297651	DARK BROWN	BROWN	20-40	20-30	B	2	ORGANIC	ROCKY	07/08/2017
839519	395798	6297651	BROWN		20-40	20-30	B	3	ROCKY		07/08/2017
839520	395824	6297647	BROWN		0-20	20-30	B	3	ORGANIC		07/08/2017
839521	395824	6297647	BROWN		0-20	20-30	B	3	ORGANIC	DUPLICATE	07/08/2017
839522	395852	6297652	LIGHT BROWN		20-40	20-30	B	3	ROCKY		07/08/2017
839523	395873	6297649	LIGHT BROWN	GRAY	20-40	20-30	B	3	ROCKY	CROSSED CREEK	07/08/2017
839524	394600	6297651	BROWN		20-40	20-30	B	4	LINE START	ROOT HOLE	07/09/2017
839525	394626	6297651	BROWN		20-40	20-30	B	3	ROCKY		07/09/2017
839526	394651	6297650	BROWN		20-40	20-30	B	4	ROCKY		07/09/2017
839527	394676	6297652	BROWN		20-40	20-30	B	4			07/09/2017
839528	394700	6297650	BROWN		20-40	20-30	B	3	ORGANIC	TOP OF CLIFF	07/09/2017
839529	394727	6297651	BROWN		20-40	20-30	B	3	ORGANIC	ROOT HOLE	07/09/2017
839530	394750	6297651							BLANK		07/09/2017
839531	394775	6297649	BROWN		20-40	20-30	B	3	ROCKY	ROOT HOLE	07/09/2017
839532	394799	6297649	RUSTY BROWN		20-40	20-30	B	4			07/09/2017
839533	394827	6297655	LIGHT BROWN		20-40	20-30	B	4	5 METERS ABOVE	ROCKY	07/09/2017
839534	394851	6297652	LIGHT BROWN		20-40	20-30	B	4			07/09/2017
839535	394876	6297652	BROWN		20-40	20-30	B	3	ROCKY		07/09/2017
839536	394902	6297651	LIGHT BROWN	BROWN	20-40	20-30	B	4	ROOT HOLE		07/09/2017
839537	394925	6297651	BROWN	DARK BROWN	20-40	20-30	B	3	ROOT HOLE		07/09/2017
839538	394953	6297650	BROWN		20-40	20-30	B	3	ORGANIC	ROOT HOLE	07/09/2017
839539	394977	6297655	BROWN		20-40	20-30	B	4	5 METERS ABOVE	TOP OF CLIFF	07/09/2017
839540	394997	6297651	BROWN	RUSTY BROWN	20-40	20-30	B	4	ROOT HOLE		07/09/2017

Sample #	EASTING	NORTHING	PRIMARY COLOUR	SECONDARY COLOUR	SLOPE	DEPTH	HORIZON	QUALITY	NOTE 1	NOTE 2	DATE
839541	394997	6297651	BROWN	RUSTY BROWN	20-40	20-30	B	4	ROOT HOLE	DUPLICATE	07/09/2017
839542	395002	6297653	LIGHT BROWN	BROWN	20-40	20-30	B	3	ROCKY		07/09/2017
839543	395047	6297652	BROWN		20-40	20-30	B	3	ROCKY		07/09/2017
839544	395077	6297653	BROWN		20-40	20-30	B	3	ROCKY		07/09/2017
839545	395104	6297650	DARK BROWN		20-40	20-30	B	4			07/09/2017
839546	395128	6297652	BROWN		20-40	20-30	B	5			07/09/2017
839547	395148	6297653	BROWN		20-40	20-30	B	4	ROCKY		07/09/2017
839548	395173	6297652	LIGHT BROWN	BROWN	20-40	20-30	B	3	ROCKY		07/09/2017
839549	395198	6297652	BROWN		20-40	20-30	B	5			07/09/2017
839550	395225	6297648							BLANK		07/09/2017
839551	395248	6297648	BROWN		20-40	20-30	B	4	ROOT HOLE		07/09/2017
839552	395273	6297650	RUSTY BROWN		20-40	20-30	B	4	ROCKY		07/09/2017
839553	395299	6297653	RUSTY BROWN		20-40	20-30	B	4	ROOT HOLE		07/09/2017
839554	395323	6297648	RUSTY BROWN	BROWN	20-40	20-30	B	4			07/09/2017
839555	395348	6297653	RUSTY BROWN	BROWN	20-40	20-30	B	4			07/09/2017
839556	395375	6297650	BROWN		20-40	20-30	B	3	ROCKY		07/09/2017
839557	395398	6297652	RUSTY BROWN		20-40	20-30	B	4	ROOT HOLE		07/09/2017
839558	395423	6297648	LIGHT BROWN	RUSTY BROWN	20-40	20-30	B	5			07/09/2017
839559	395448	6297652	RUSTY BROWN		40-60	20-30	B	4			07/09/2017
839560	395474	6297650	BROWN	DARK BROWN	20-40	20-30	B	3	ROOT HOLE		07/09/2017
839561	395474	6297650	BROWN	DARK BROWN	20-40	20-30	B	3	ROOT HOLE	DUPLICATE	07/09/2017
839562	395474	6297700	RUSTY BROWN	BROWN	20-40	20-30	B	4	ROCKY		07/09/2017
839563	395498	6297701	RUSTY BROWN	BROWN	20-40	20-30	B	3	ROCKY		07/09/2017
839564	395525	6297704	LIGHT BROWN	BROWN	20-40	20-30	B	3	ROCKY		07/09/2017
839565	395549	6297699	DARK BROWN	BROWN	0-20	20-30	B	3	ROCKY		07/09/2017
839566	395575	6297701	BROWN		20-40	20-30	B	4			07/09/2017
839567	395597	6297698	RUSTY BROWN	BROWN	20-40	20-30	B	3	ROCKY		07/09/2017
839568	395627	6297700	BROWN	LIGHT BROWN	20-40	20-30	B	3	ROOT HOLE	ROCKY	07/09/2017
839569	395648	6297702	BROWN	RUSTY BROWN	20-40	20-30	B	3	ROCKY		07/09/2017
839570	395677	6297701							BLANK		07/09/2017
839571	395699	6297699	RUSTY BROWN		0-20	20-30	B	5			07/09/2017
839572	395724	6297699	BROWN		20-40	20-30	B	3	ROCKY	ROOT HOLE	07/09/2017
839573	395748	6297701	BROWN		20-40	20-30	B	4	ROCKY		07/09/2017
839574	395774	6297703	BROWN		20-40	20-30	B	3	ROCKY		07/09/2017
839575	395797	6297698	BROWN		0-20	30-40	B	3	ROOT HOLE	ORGANIC	07/09/2017
839576	395823	6297701	DARK BROWN	BROWN	0-20	20-30	B	2	CROSSED CREEK	ROCKY	07/09/2017
839577	395850	6297702	BROWN		0-20	20-30	B	2	ROCKY		07/09/2017
839578	395877	6297698	LIGHT BROWN	DARK BROWN	0-20	30-40	B	2	ORGANIC	ROCKY	07/09/2017
839579	395898	6297700	LIGHT BROWN	DARK BROWN	0-20	20-30	B	2	ROCKY	ROOT HOLE	07/09/2017
839580	394599	6297699	BROWN		20-40	20-30	B	3	ROCKY	LINE START	07/10/2017
839581	394599	6297699	BROWN		20-40	20-30	B	3	ROCKY	LINE START	07/10/2017
839582	394624	6297701	BROWN		40-60	20-30	B	4			07/10/2017
839583	394651	6297703	BROWN		20-40	20-30	B	4			07/10/2017
839584	394674	6297701	BROWN		20-40	20-30	B	3	ROCKY	ORGANIC	07/10/2017
839585	394701	6297700	BROWN		20-40	20-30	B	3	ROCKY		07/10/2017
839586	394725	6297701	BROWN		20-40	20-30	B	4	ROCKY		07/10/2017
839587	394748	6297699	BROWN		20-40	20-30	B	4			07/10/2017
839588	394772	6297698	BROWN		20-40	20-30	B	4			07/10/2017
839589	394799	6297702	BROWN		20-40	20-30	B	4	ROCKY		07/10/2017

Sample #	EASTING	NORTHING	PRIMARY COLOUR	SECONDARY COLOUR	SLOPE	DEPTH	HORIZON	QUALITY	NOTE 1	NOTE 2	DATE
839590	394826	6297698							BLANK		07/10/2017
839591	394850	6297699	BROWN		20-40	20-30	B	3	ROCKY		07/10/2017
839592	394877	6297701	BROWN		20-40	20-30	B	3	ORGANIC		07/10/2017
839593	394901	6297702	BROWN		20-40	20-30	B	4			07/10/2017
839594	394923	6297700	BROWN		20-40	20-30	B	3	NEXT TO CREEK	ORGANIC	07/10/2017
839595	394948	6297691	BROWN		20-40	20-30	B	3	0 METERS BELOW	BASE OF CLIFF	07/10/2017
839596	394974	6297700	BROWN		20-40	20-30	B	3	ROCKY	ROOT HOLE	07/10/2017
839597	395001	6297701	BROWN		0-20	20-30	B	4	ORGANIC		07/10/2017
839598	395024	6297699	RUSTY BROWN		0-20	20-30	B	4	ROOT HOLE		07/10/2017
839599	395052	6297698	RUSTY BROWN		20-40	20-30	B	4			07/10/2017
839600	395074	6297700	BROWN		20-40	20-30	B	4	ROCKY	ROOT HOLE	07/10/2017
839701	395074	6297700	BROWN		20-40	20-30	B	4	ROCKY	ROOT HOLE	07/10/2017
839702	395101	6297701	BROWN		0-20	20-30	B	4	ROCKY		07/10/2017
839703	395128	6297701	BROWN		0-20	20-30	B	4			07/10/2017
839704	395153	6297699	BROWN		20-40	20-30	B	4			07/10/2017
839705	395174	6297697	BROWN		20-40	20-30	B	4	ROCKY		07/10/2017
839706	395199	6297698	BROWN		0-20	20-30	B	3	ROOT HOLE	ROCKY	07/10/2017
839707	395225	6297699	BROWN		0-20	20-30	B	5			07/10/2017
839708	395247	6297702	BROWN		0-20	20-30	B	4	ROCKY		07/10/2017
839709	395273	6297701	BROWN		0-20	20-30	B	4			07/10/2017
839710	395301	6297701							BLANK		07/10/2017
839711	395323	6297698	BROWN		20-40	20-30	B	3	ORGANIC		07/10/2017
839712	395349	6297702	BROWN		20-40	20-30	B	3	ROCKY		07/10/2017
839713	395375	6297700	BROWN		20-40	20-30	B	4			07/10/2017
839714	395398	6297701	BROWN		20-40	20-30	B	3	ORGANIC	ROOT HOLE	07/10/2017
839715	395428	6297702	DARK BROWN		20-40	20-30	B	3	ORGANIC		07/10/2017
839716	395447	6297699	BROWN		20-40	20-30	B	3	ROCKY	ROOT HOLE	07/10/2017
839717	395474	6297749	BROWN		40-60	20-30	B	3	ROCKY	ORGANIC	07/10/2017
839718	395500	6297752	BROWN		40-60	20-30	B	3	ROCKY		07/10/2017
839719	395523	6297751	BROWN		20-40	20-30	B	4			07/10/2017
839720	395548	6297748	DARK BROWN	BROWN	20-40	20-30	B	3	ORGANIC		07/10/2017
839721	395548	6297748	DARK BROWN	BROWN	20-40	20-30	B	3	ORGANIC	DUPLICATE	07/10/2017
839722	395572	6297750	BROWN		20-40	20-30	B	3	ROCKY		07/10/2017
839723	395598	6297749	BROWN		20-40	20-30	B	4			07/10/2017
839724	395624	6297750	RUSTY BROWN		0-20	20-30	B	4			07/10/2017
839725	395649	6297751	BROWN		20-40	20-30	B	4	ROCKY		07/10/2017
839726	395675	6297748	RUSTY BROWN		20-40	20-30	B	4			07/10/2017
839727	395698	6297750	BROWN		0-20	20-30	B	4			07/10/2017
839728	395726	6297753	BROWN		20-40	20-30	B	4	ORGANIC		07/10/2017
839729	395749	6297750	BROWN		0-20	20-30	B	4	ROCKY		07/10/2017
839730	395775	6297750							BLANK		07/10/2017
839731	395801	6297752	BROWN	GRAY	0-20	20-30	B	3	CROSSED CREEK	ROCKY	07/10/2017
839732	395824	6297749	BROWN		0-20	20-30	B	3	ROCKY	ORGANIC	07/10/2017
839733	395848	6297748	BROWN		0-20	20-30	B	3	ROOT HOLE	ROCKY	07/10/2017
839734	395873	6297751	BROWN		0-20	20-30	B	3	ORGANIC	ROCKY	07/10/2017
839735	395900	6297749	BROWN		0-20	20-30	B	3	ROCKY	SANDY	07/10/2017
839736	394601	6297752	BROWN		20-40	20-30	B	4	LINE START		07/11/2017
839737	394625	6297752	BROWN		20-40	20-30	B	3	ORGANIC	ROCKY	07/11/2017
839738	394650	6297749	LIGHT BROWN		20-40	20-30	B	4	ROCKY		07/11/2017

Sample #	EASTING	NORTHING	PRIMARY COLOUR	SECONDARY COLOUR	SLOPE	DEPTH	HORIZON	QUALITY	NOTE 1	NOTE 2	DATE
839739	394674	6297749	BROWN		20-40	20-30	B	4			07/11/2017
839740	394698	6297752	BROWN		20-40	20-30	B	4			07/11/2017
839741	394698	6297752	BROWN		20-40	20-30	B	4	DUPLICATE		07/11/2017
839742	394724	6297750	BROWN		20-40	20-30	B	4	ROCKY		07/11/2017
839743	394749	6297749	BROWN		20-40	20-30	B	3	ROCKY		07/11/2017
839744	394777	6297749	BROWN		20-40	20-30	B	4			07/11/2017
839745	394799	6297751	LIGHT BROWN	BROWN	20-40	20-30	B	4			07/11/2017
839746	394824	6297750	BROWN		20-40	20-30	B	3	ROOT HOLE	ROCKY	07/11/2017
839747	394849	6297749	LIGHT BROWN	BROWN	20-40	20-30	B	4			07/11/2017
839748	394875	6297750	BROWN		20-40	20-30	B	3	ROCKY	ROOT HOLE	07/11/2017
839749	394898	6297749	BROWN		0-20	20-30	B	3	ROCKY	ORGANIC	07/11/2017
839750	394923	6297749							BLANK		07/11/2017
839751	394950	6297750	BROWN		0-20	20-30	B	4	ROCKY		07/11/2017
839752	394975	6297751	BROWN		20-40	20-30	B	4			07/11/2017
839753	394999	6297750	BROWN		20-40	20-30	B	3	TOP OF CLIFF	ROOT HOLE	07/11/2017
839754	395024	6297751	BROWN		20-40	20-30	B	4			07/11/2017
839755	395049	6297751	BROWN		20-40	20-30	B	3	ROCKY		07/11/2017
839756	395076	6297751	BROWN		20-40	20-30	B	3			07/11/2017
839757	395099	6297750	BROWN		20-40	20-30	B	3	ROCKY		07/11/2017
839758	395126	6297750	DARK BROWN		20-40	20-30	B	4			07/11/2017
839759	395150	6297751	BROWN		20-40	20-30	B	3	ROOT HOLE		07/11/2017
839760	395174	6297750	BROWN		20-40	20-30	B	4			07/11/2017
839761	395174	6297750	BROWN		20-40	20-30	B	4	DUPLICATE		07/11/2017
839762	395200	6297751	BROWN		20-40	20-30	B	3	ROCKY		07/11/2017
839763	395227	6297748	LIGHT BROWN	BROWN	0-20	20-30	B	4			07/11/2017
839764	395250	6297752	BROWN		20-40	20-30	B	3	ROOT HOLE		07/11/2017
839765	395275	6297751	LIGHT BROWN	BROWN	20-40	20-30	B	3	ROCKY		07/11/2017
839766	395300	6297751	BROWN		20-40	20-30	B	4			07/11/2017
839767	395326	6297752	BROWN		20-40	20-30	B	4			07/11/2017
839768	395352	6297752	BROWN		20-40	20-30	B	3	ROCKY	ORGANIC	07/11/2017
839769	395376	6297751	RUSTY BROWN	BROWN	20-40	20-30	B	4	ROOT HOLE		07/11/2017
839770	395399	6297749							BLANK		07/11/2017
839771	395427	6297751	RUSTY BROWN	BROWN	20-40	20-30	B	4			07/11/2017
839772	395451	6297755	RUSTY BROWN		20-40	20-30	B	5	5 METERS ABOVE TOP OF CLIFF		07/11/2017

394,500 mE

395,000 mE

395,500 mE

396,000 mE

6,298,000 mN

6,297,500 mN

6,297,000 mN

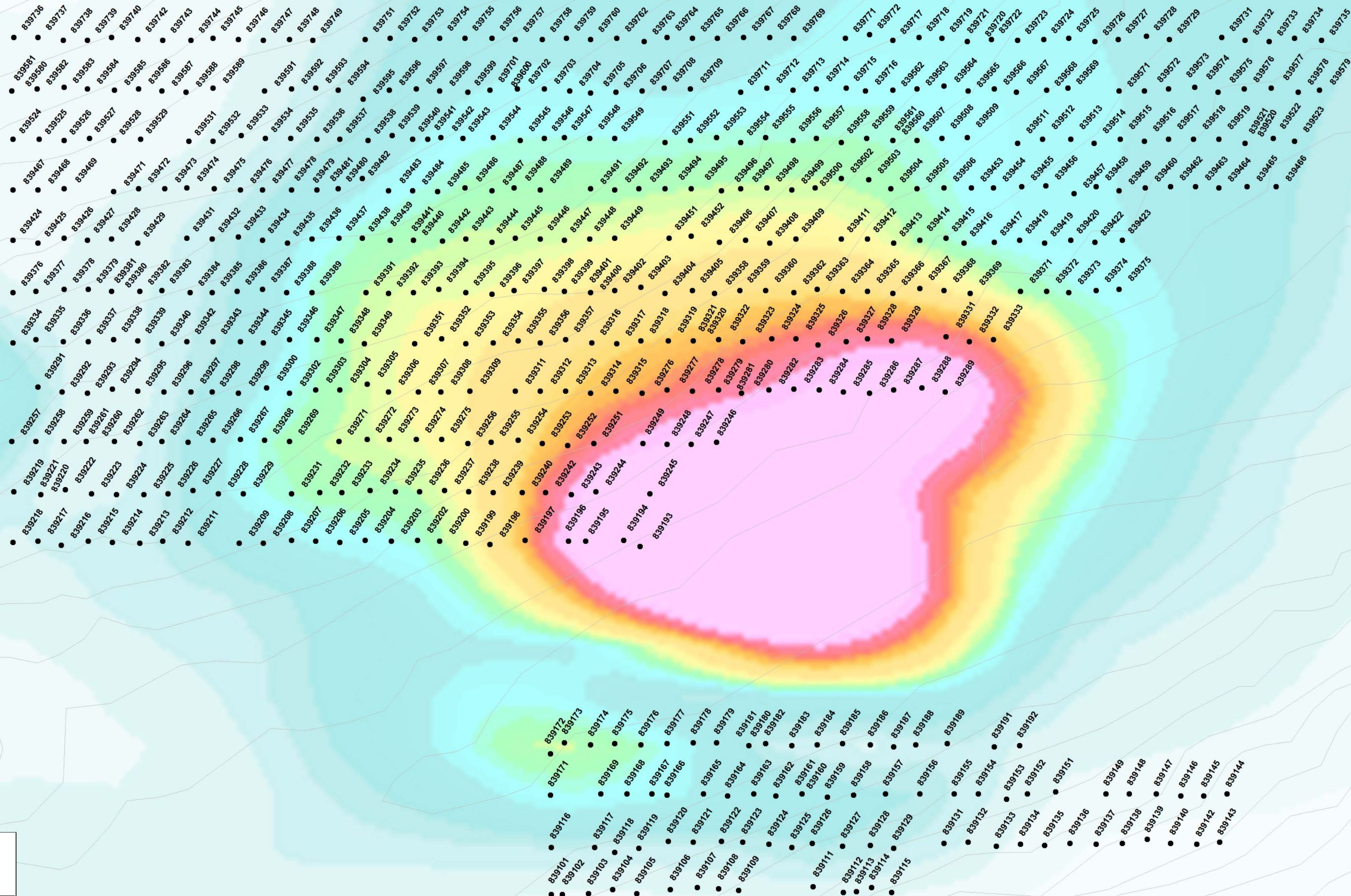


LEGEND

• soil samples

100 ft contour

Background shows conductive feature in pink (TAU)



Aben Resources

Date: 03/02/2018

Author: CDM

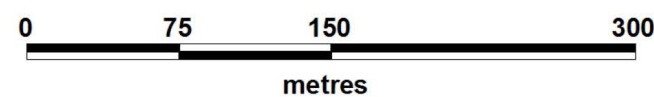
Office:

Drawing:

Scale: 1:4000

Projection: UTM Zone 9 (NAD 83)

Forrest Kerr Property
Forrest Zone
Soil Sample Numbers



6,297,000 mN

6,297,500 mN

6,298,000 mN

394,500 mE

395,000 mE

395,500 mE

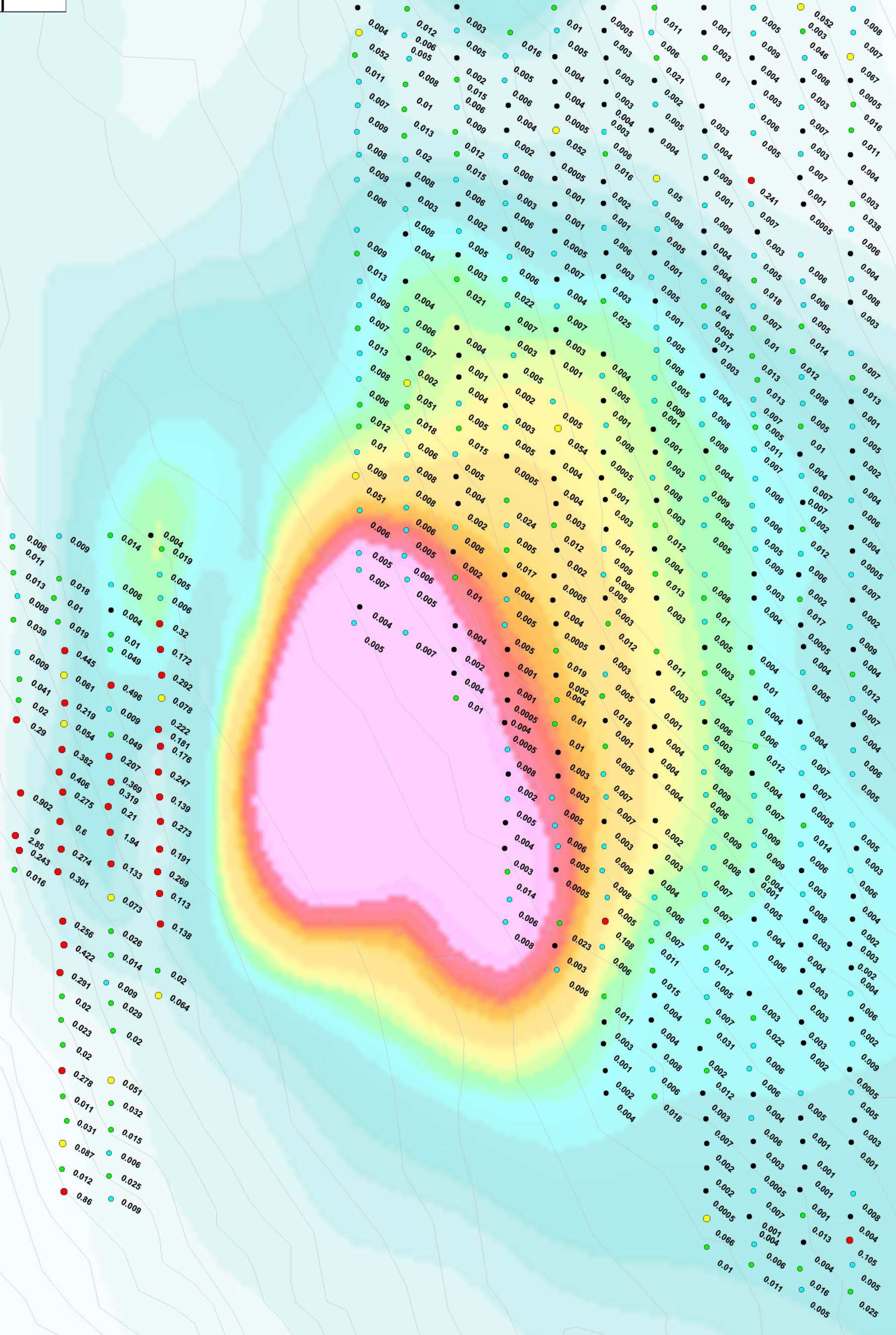
396,000 mE

Aben Resources	
Date: 03/02/2018	<p style="text-align: center;">Forrest Kerr Property Forrest Zone Gold Values in Soil</p>
Author: CDM	
Office:	
Drawing:	
Scale: 1:4000	Projection: UTM Zone 9 (NAD 83)



LEGEND

- soil sample (Au values in ppm)
- 100 ft contour
- Background shows conductive feature in pink (TAU)



394,500 mE

395,000 mE

395,500 mE

396,000 mE

6,298,000 mN

6,297,500 mN

6,297,000 mN



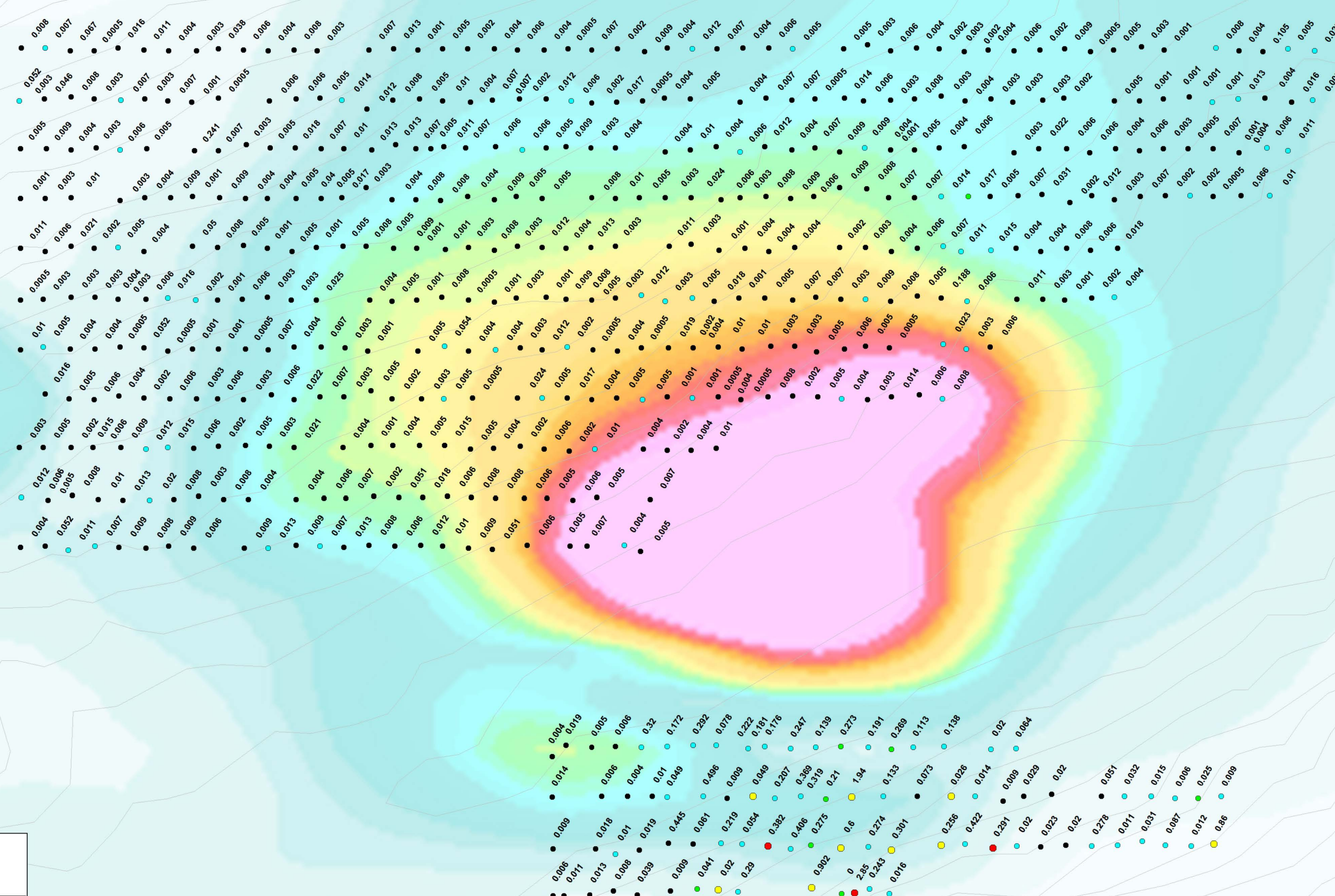
LEGEND

- soil sample (Cu values in ppm)
- 100 ft contour

Background shows conductive feature in pink (TAU)

Aben Resources

Date: 03/02/2018	Forrest Kerr Property Forrest Zone Copper Values in Soil
Author: CDM	
Office:	
Drawing:	
Scale: 1:4000	Projection: UTM Zone 9 (NAD 83)



394,500 mE

395,000 mE

395,500 mE

396,000 mE

6,298,000 mN

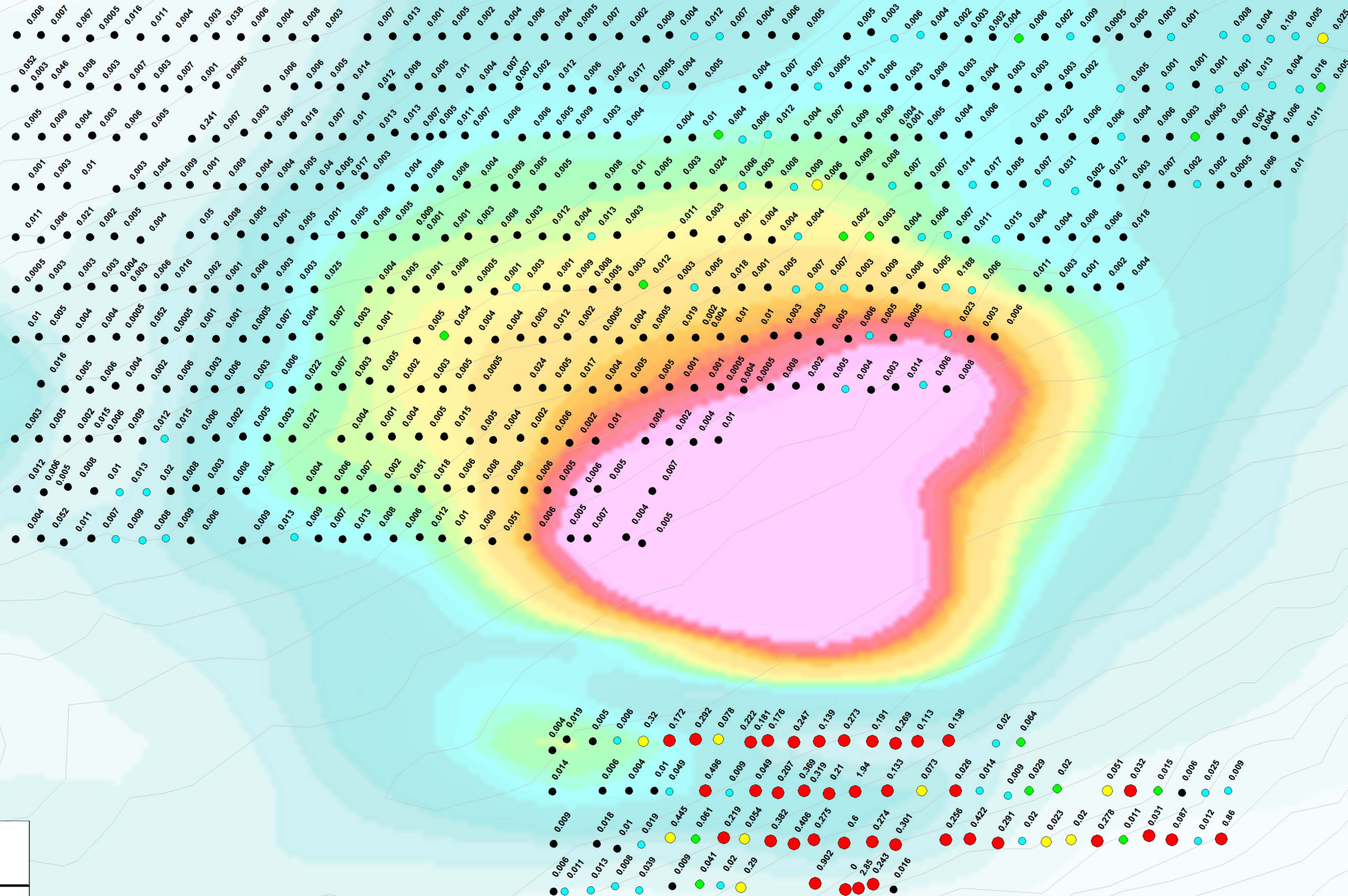
6,297,500 mN

6,297,000 mN



LEGEND

- soil sample (As values in ppm)
- 100 ft contour
- Background shows conductive feature in pink (TAU)

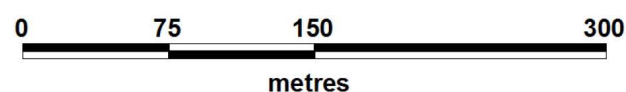


Aben Resources

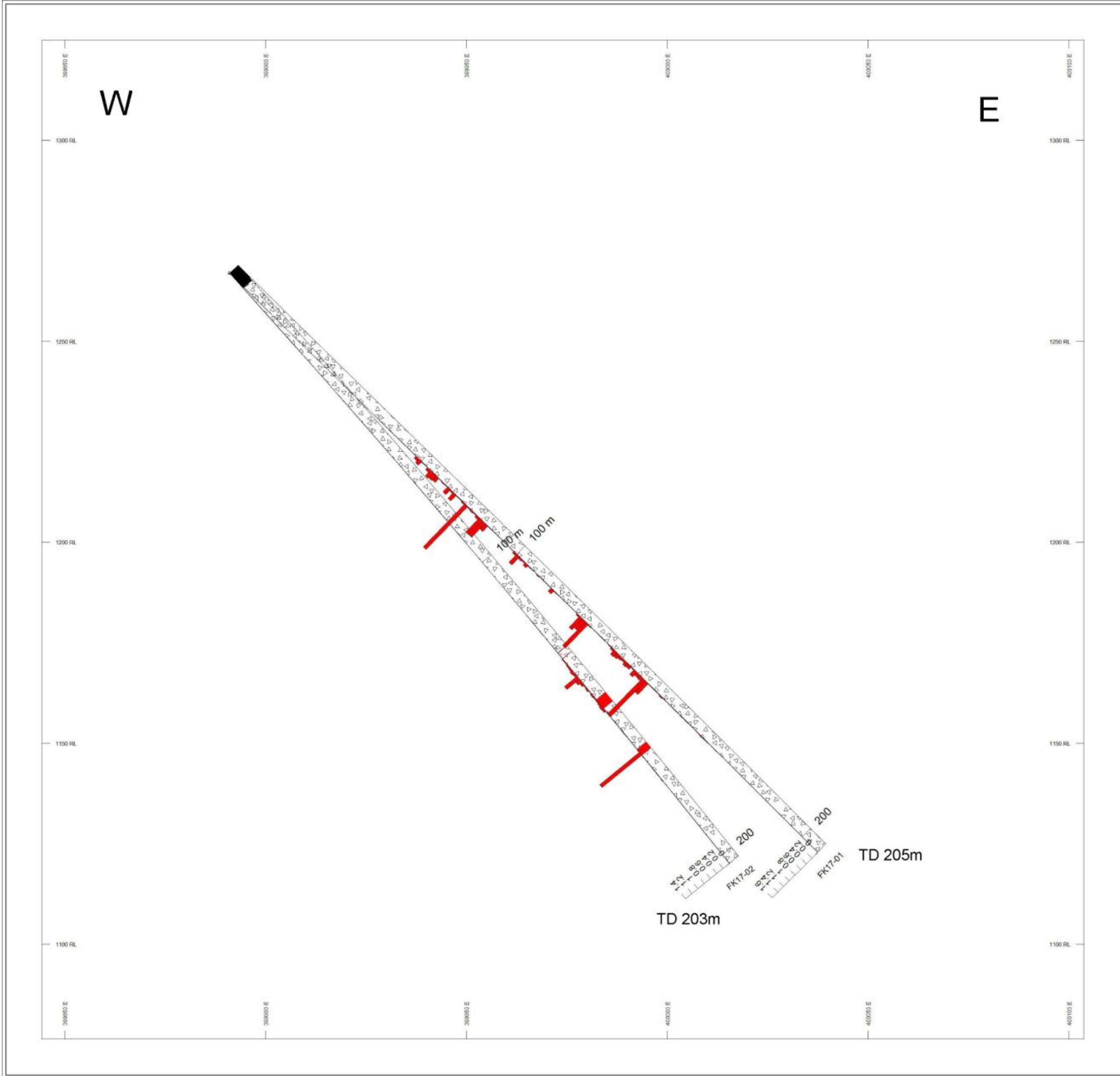
Date: 03/02/2018
 Author: CDM
 Office:
 Drawing:

Forrest Kerr Property
 Forrest Zone
 Arsenic Values in Soil

Scale: 1:4000 Projection: UTM Zone 9 (NAD 83)

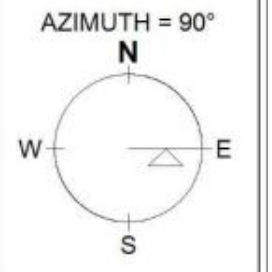
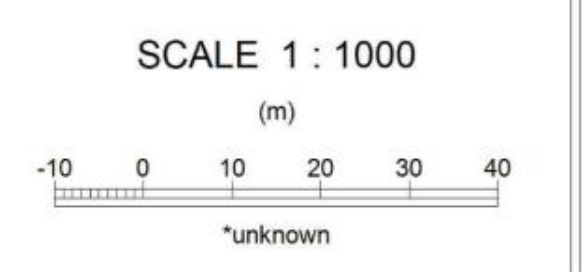


APPENDIX F: Drill Sections and Drill Core QA/QC summary

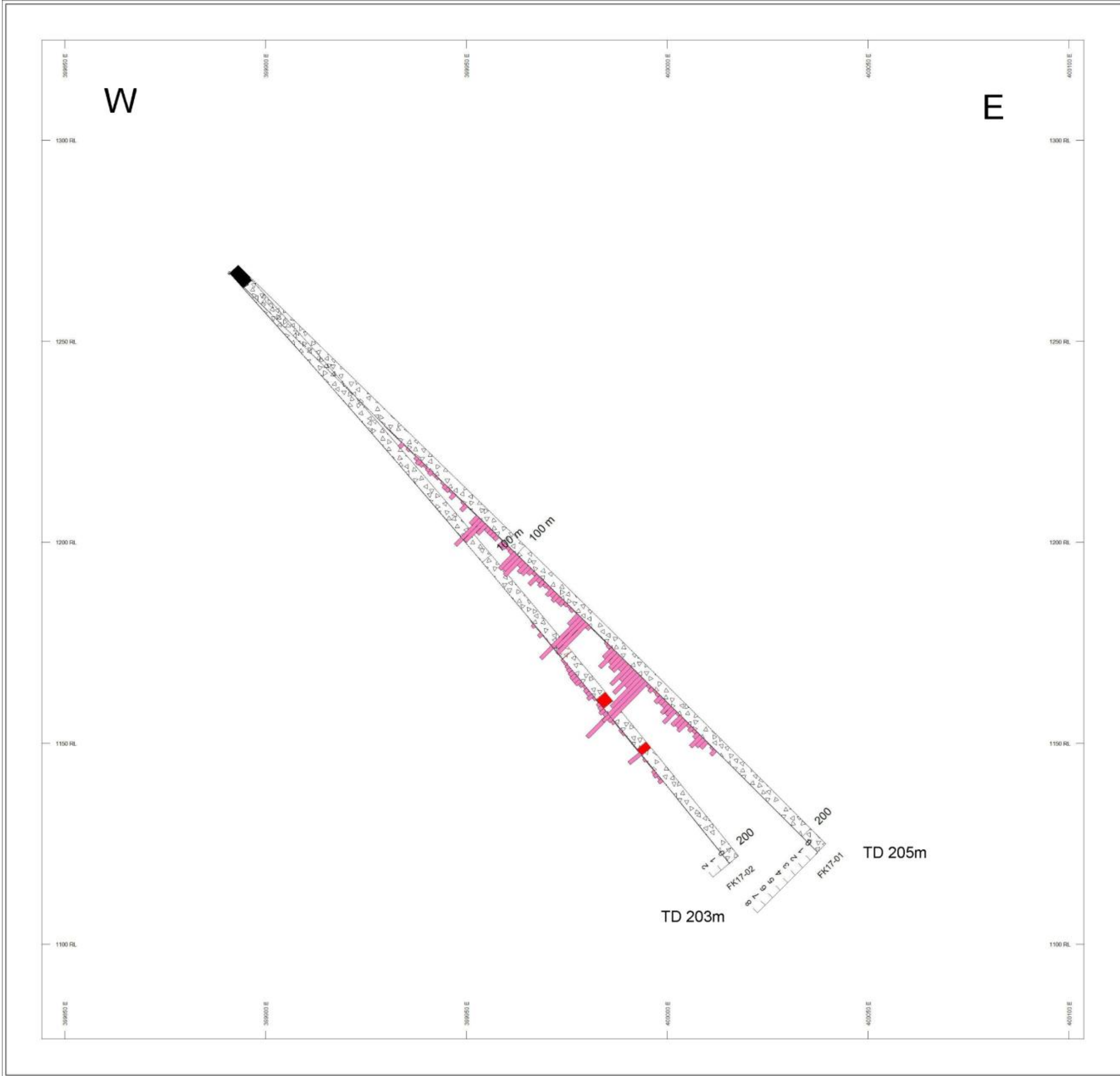


BAR GRAPHS	L/R	COL
Au_PPM	L	Red

ROCK CODES	PAT	LABEL	DESCRIPTION
Lithology	Red	FALT	
	Black	CASING	casing
	Patterned	DACT tf	dacite tuff
	Patterned	QZVN bx	qtz vein breccia

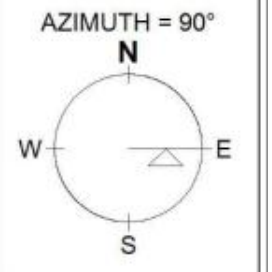
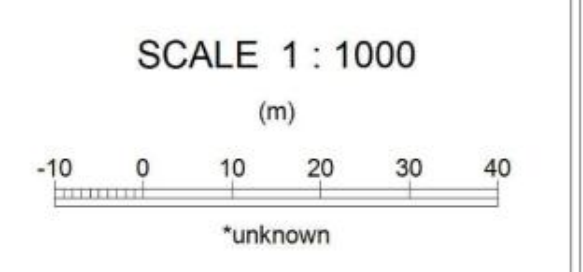


Aben Resources
Forrest Kerr Property
FK17-01 & 02
Au

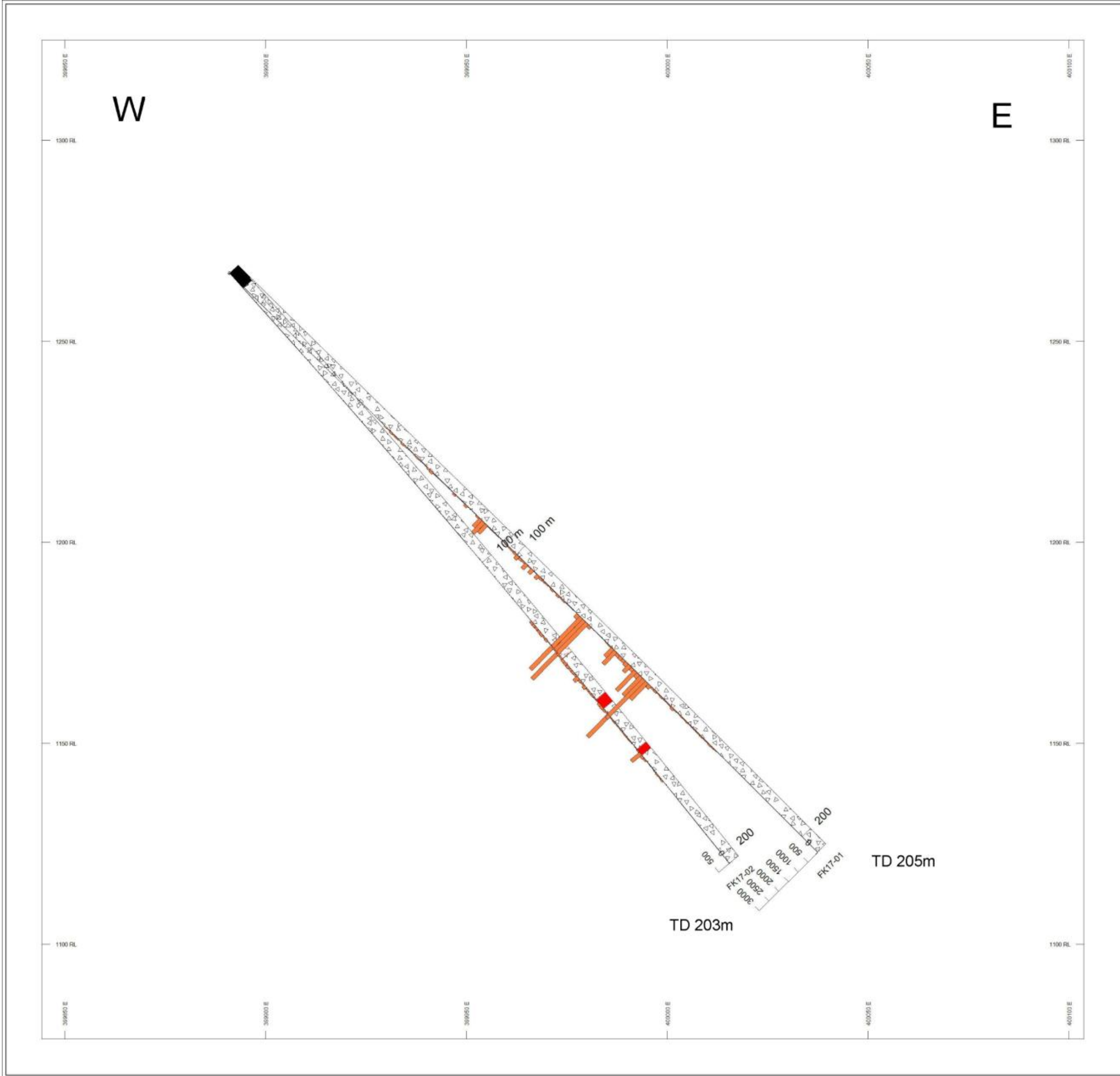


BAR GRAPHS	L/R	COL
AG_PPM	L	█

ROCK CODES	PAT	LABEL	DESCRIPTION
Lithology	█	FALT	
	█	CASING	casing
	█	DACT tf	dacite tuff
	█	QZVN bx	qtz vein breccia

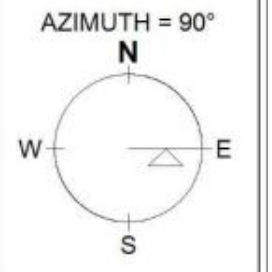
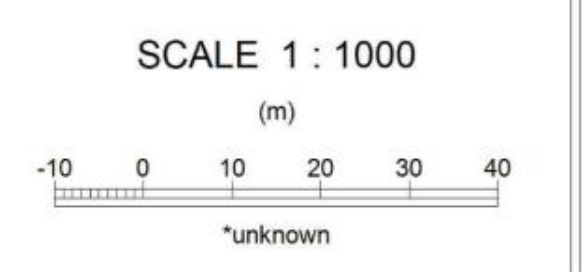


Aben Resources
Forrest Kerr Property
FK17-01 & 02
Ag

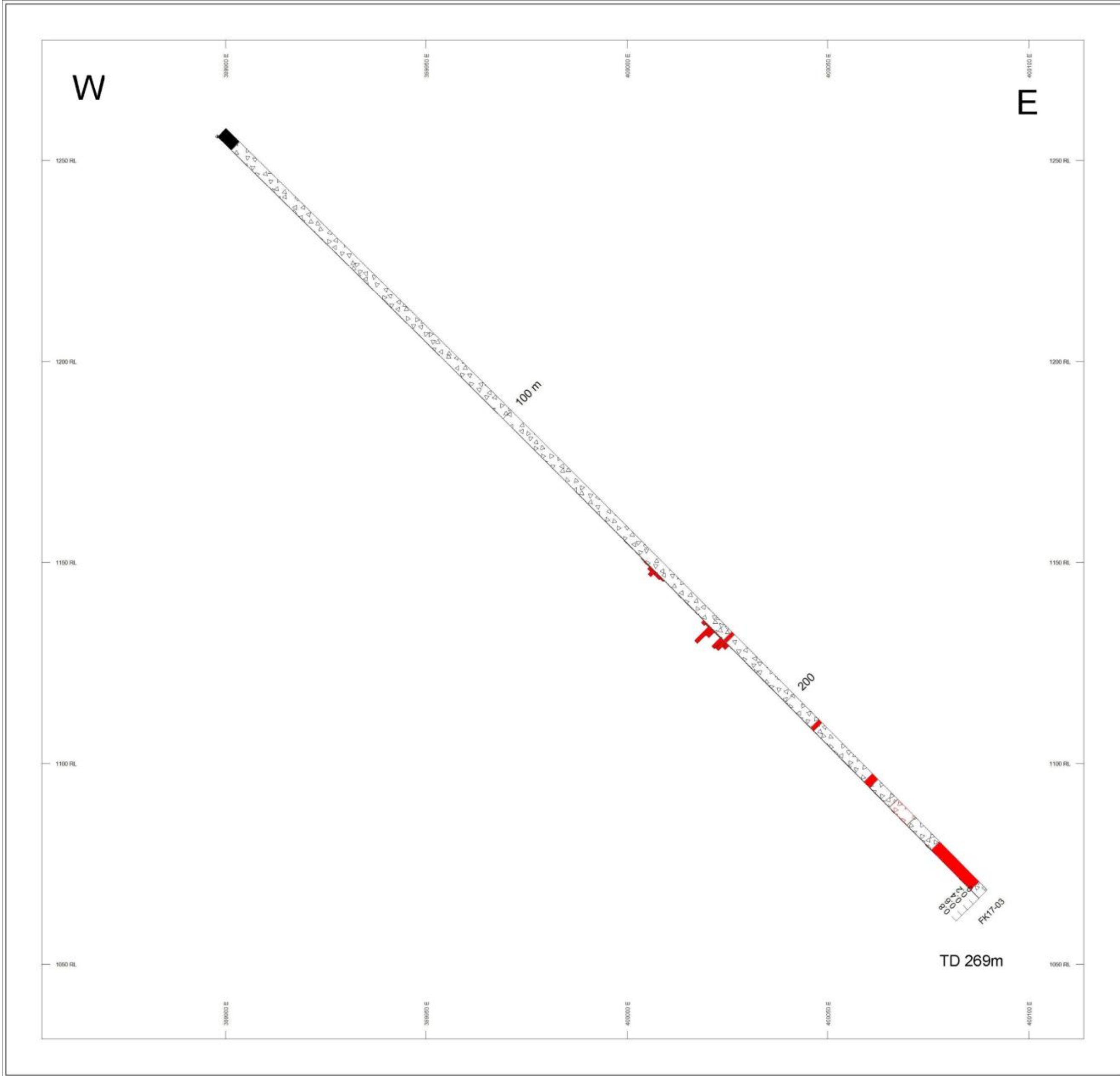


BAR GRAPHS	L/R	COL
CU_PPM	L	Orange

ROCK CODES	PAT	LABEL	DESCRIPTION
Lithology	Red	FALT	
	Black	CASING	casing
	White with red dots	DACT tf	dacite tuff
	White with red dots and lines	QZVN bx	qtz vein breccia

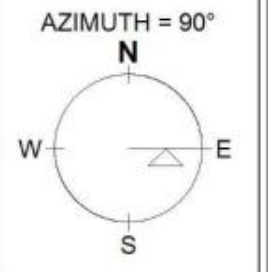
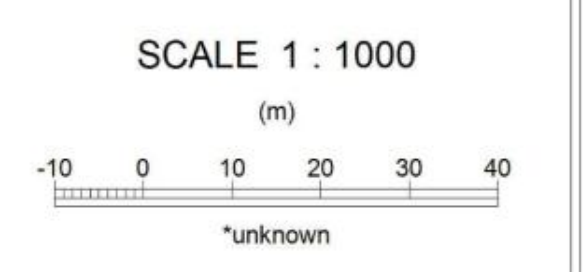


Aben Resources
Forrest Kerr Property
FK17-01 & 02
Cu

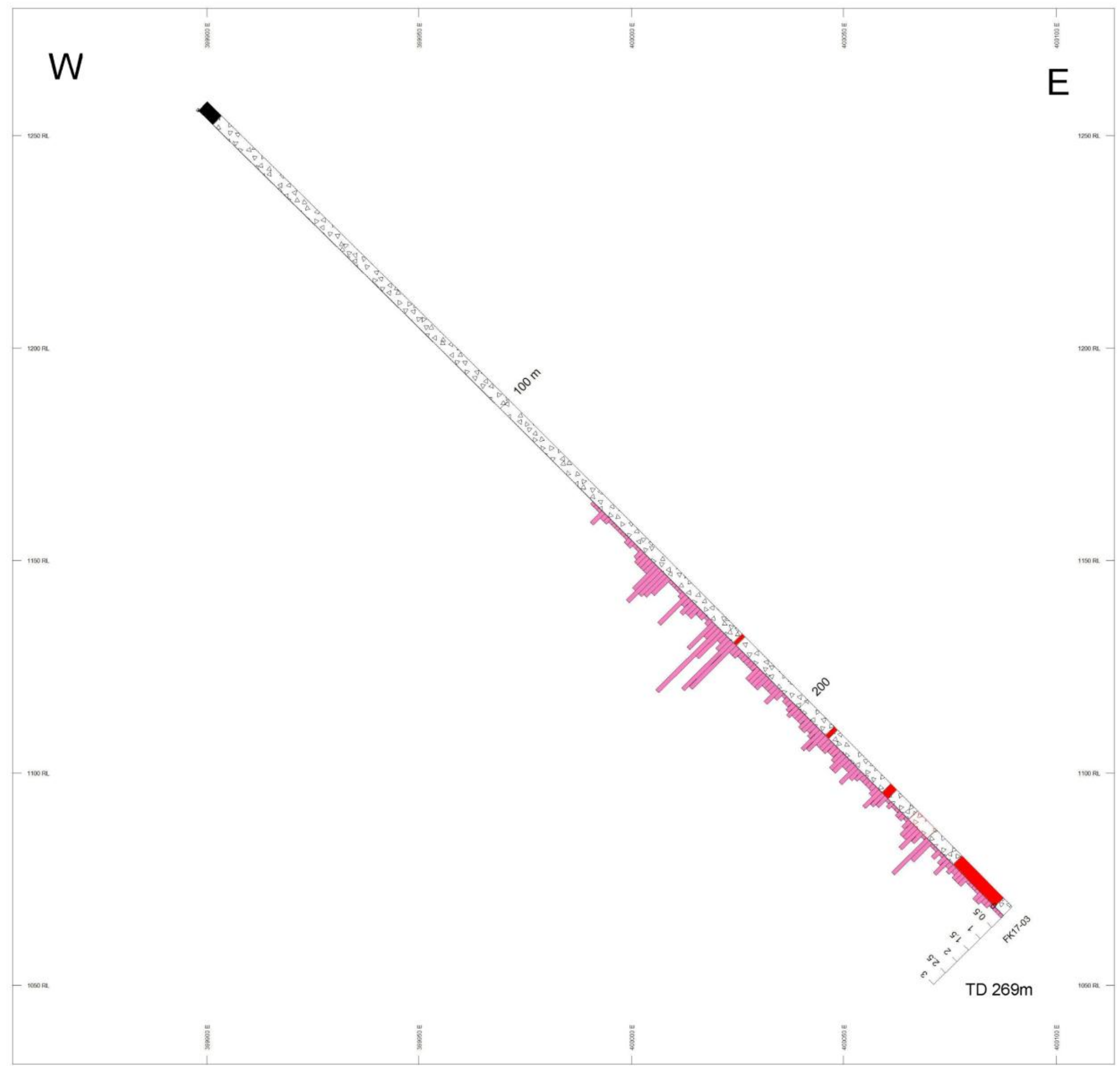


BAR GRAPHS	L/R	COL
Au_PPM	L	█

ROCK CODES	PAT	LABEL	DESCRIPTION
Lithology	█	FALT	
	█	CASING	casing
	█	DACT tf	dacite tuff
	█	QZVN bx	qtz vein breccia

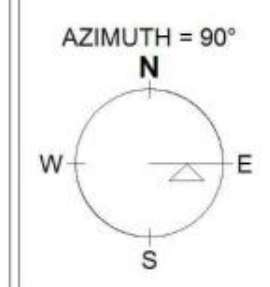
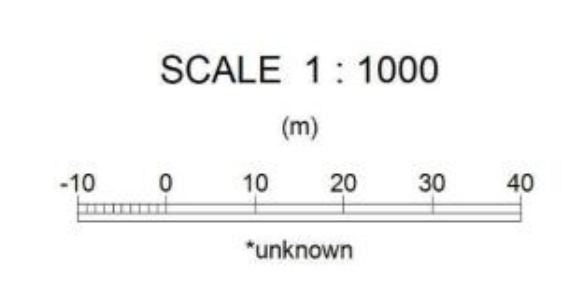


Aben Resources
Forrest Kerr Property
FK17-03
Au

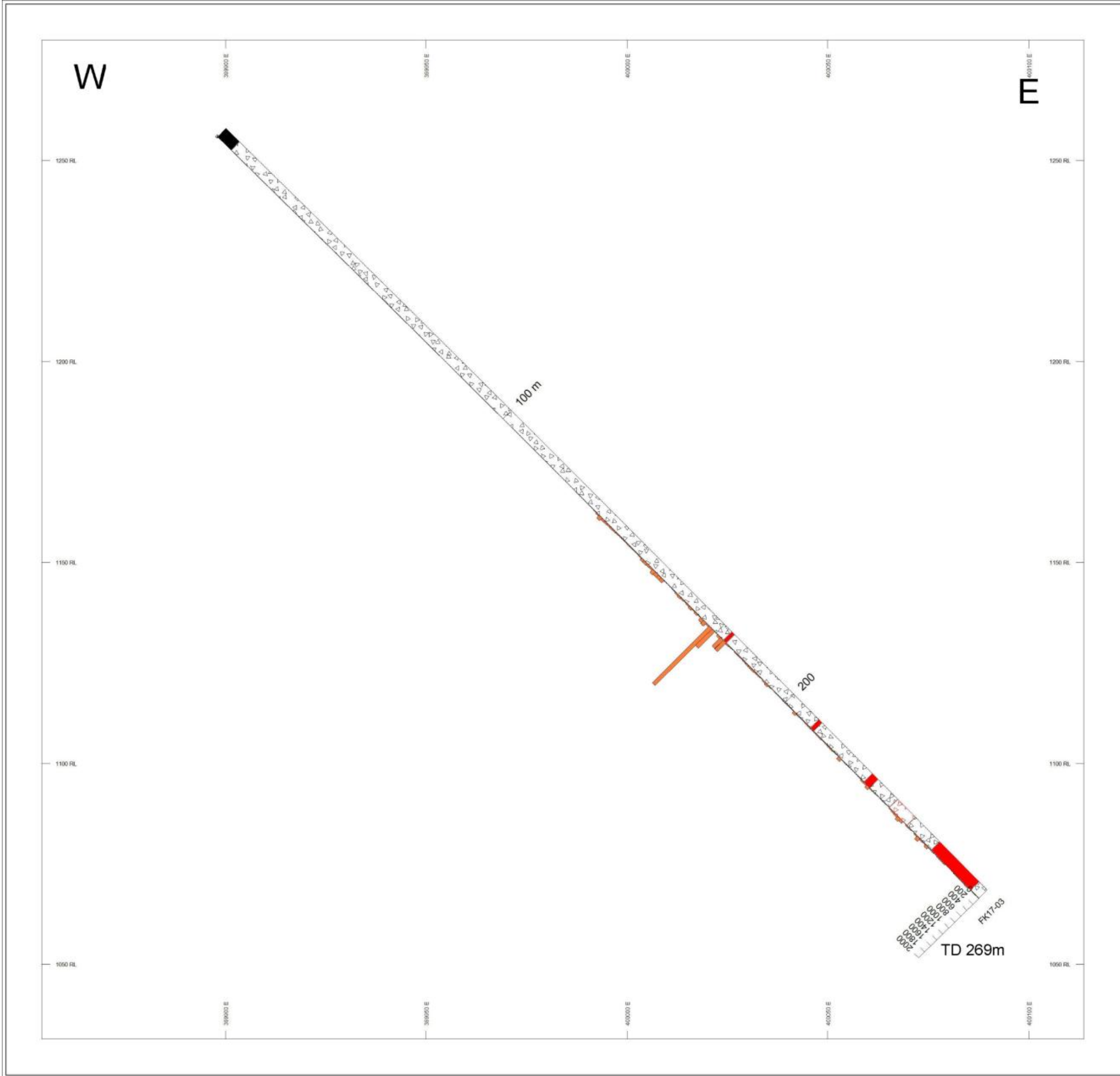


BAR GRAPHS	L/R	COL	
AG_PPM	L		

ROCK CODES	PAT	LABEL	DESCRIPTION
Lithology		FALT	
		CASING	casing
		DACT tf	dacite tuff
		QZVN bx	qtz vein breccia

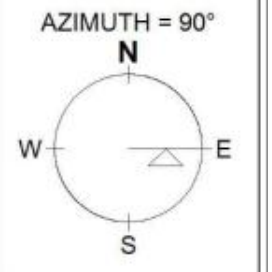
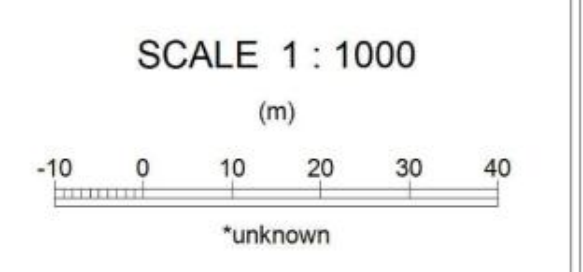


Aben Resources
Forrest Kerr Property
FK17-03
Ag



BAR GRAPHS	L/R	COL	
CU_PPM	L	Orange	

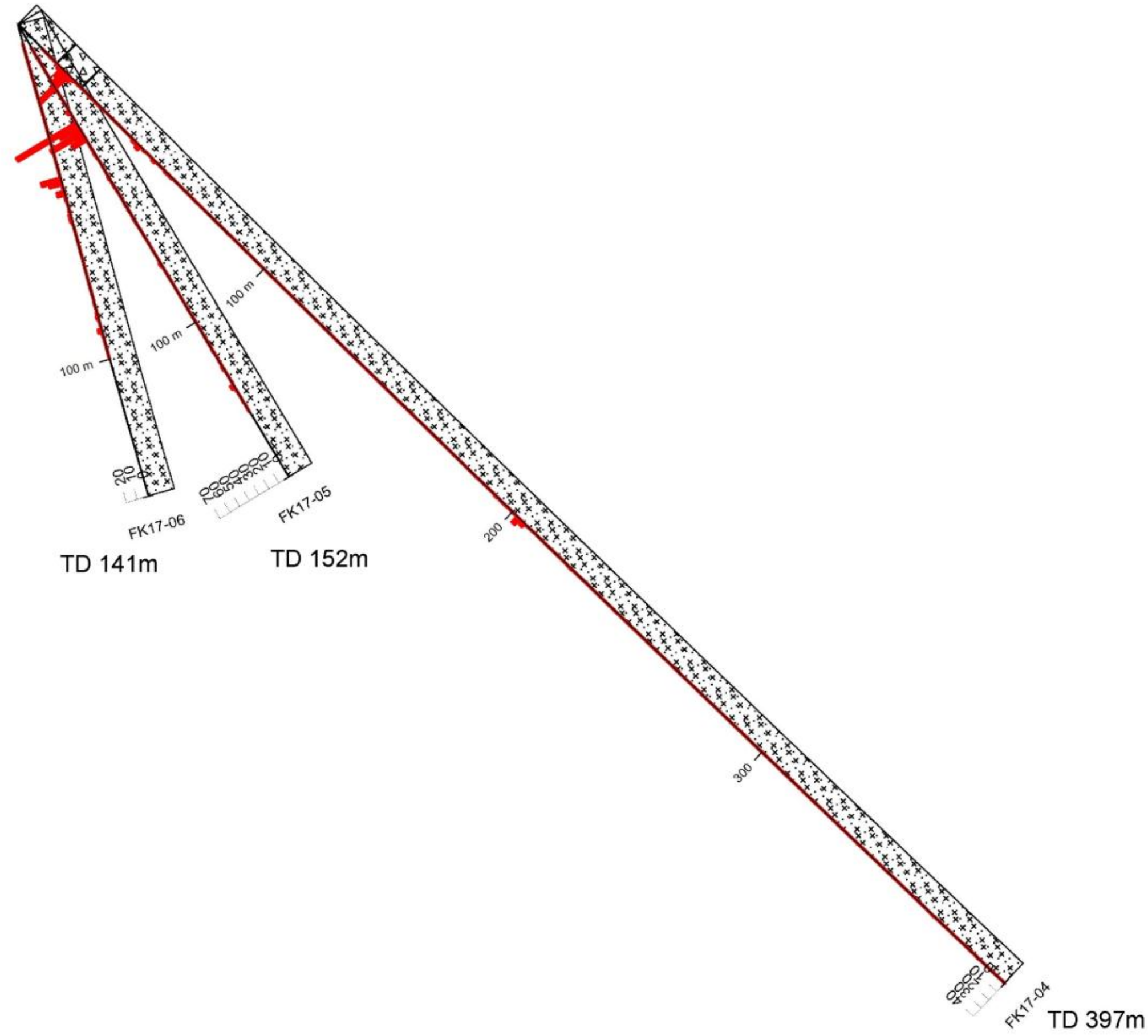
ROCK CODES	PAT	LABEL	DESCRIPTION
Lithology	Red	FALT	
	Black	CASING	casing
	Patterned	DACT tf	dacite tuff
	Patterned	QZVN bx	qtz vein breccia



Aben Resources
 Forrest Kerr Property
 FK17-03
 Cu

NW

SE

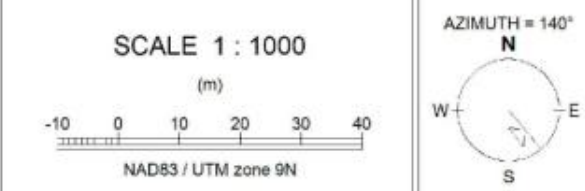


BAR GRAPHS	L/R	COL
Au_ppm_	L	█

ROCK CODES	PAT	LABEL	DESCRIPTION
Lithology		BRXX	Breccia
		PlatyFlow	plag-phyric coherent

SECTION SPECS:

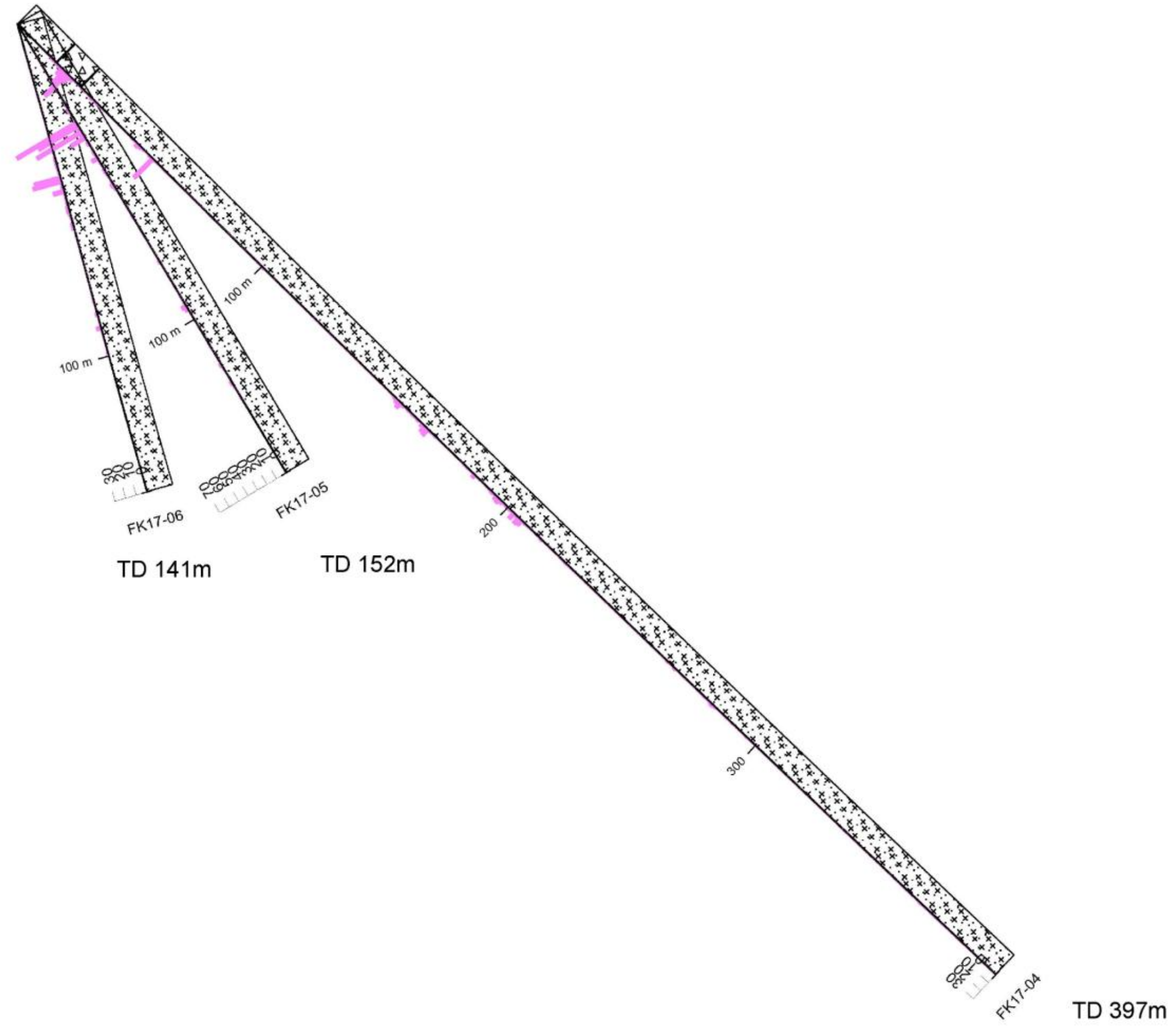
REF. PT. E, N	400040 m	6311100 m
EXTENTS	431.4 m	371.5 m
SECTION TOP, BOT	1300 m	928.5 m
TOLERANCE +/-	198 m	



Aben Resources
 Forrest Kerr Project
 Boundary North X-Section
 Au

NW

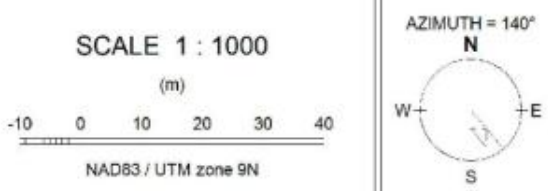
SE



BAR GRAPHS	LIR	COL
Ag_ppm	L	

ROCK CODES	PAT	LABEL	DESCRIPTION
Lithology	BRXX	BRXX	Breccia
	PiphyFlow	PiphyFlow	plag-phyric coherent

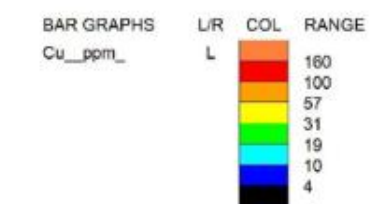
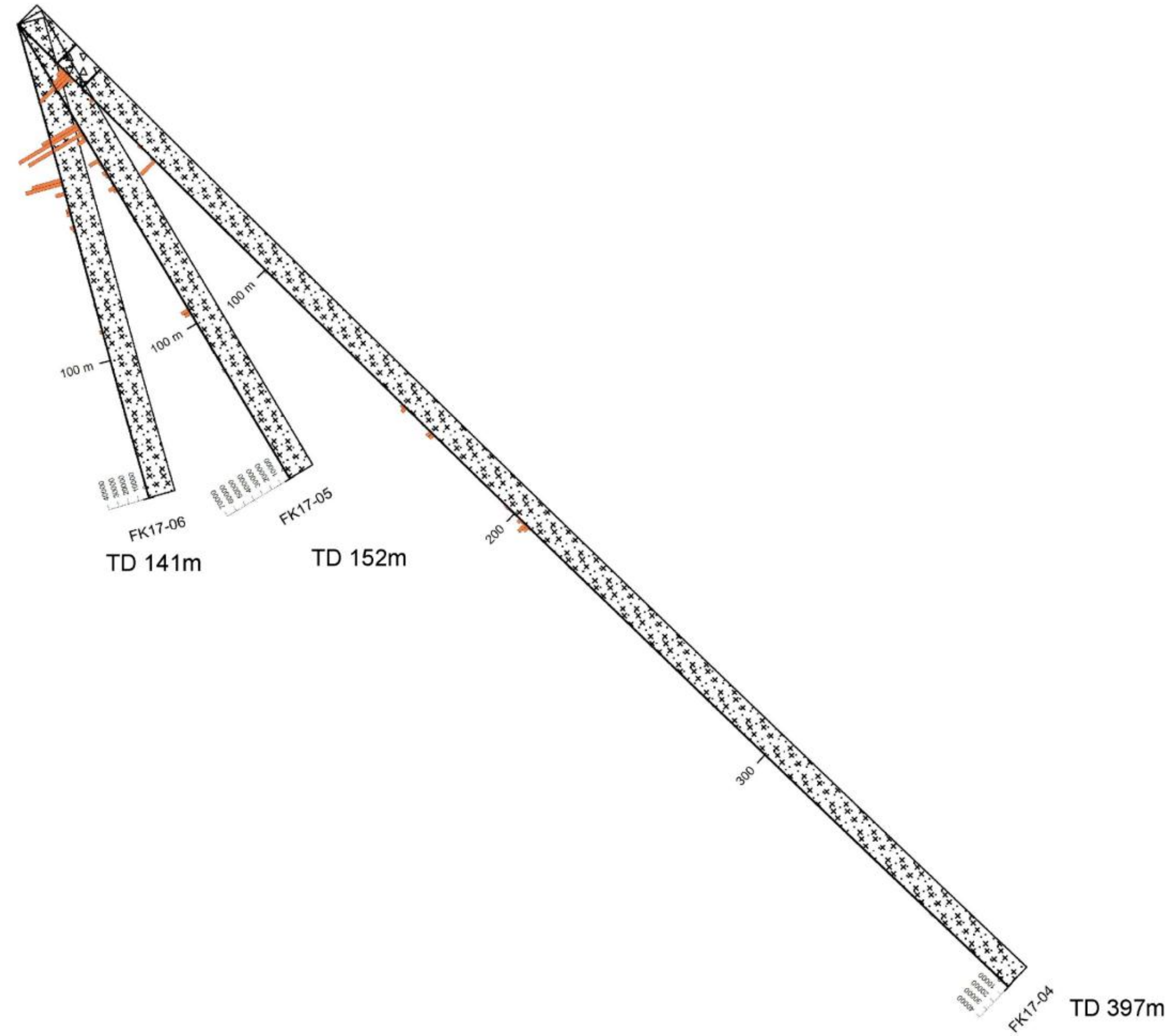
SECTION SPECS:
 REF. PT. E, N 400040 m 6311100 m
 EXTENTS 431.4 m 371.5 m
 SECTION TOP, BOT 1300 m 928.5 m
 TOLERANCE +/- 198 m



Aben Resources
 Forrest Kerr Project
 Boundary North X-Section
 Ag

NW

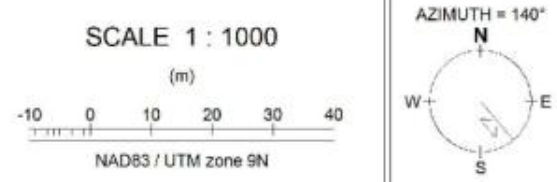
SE



ROCK CODES	PAT	LABEL	DESCRIPTION
Lithology	BRXX	BRXX	Breccia
	PipryFlow	PipryFlow	plag-phyric coherent

SECTION SPECS:

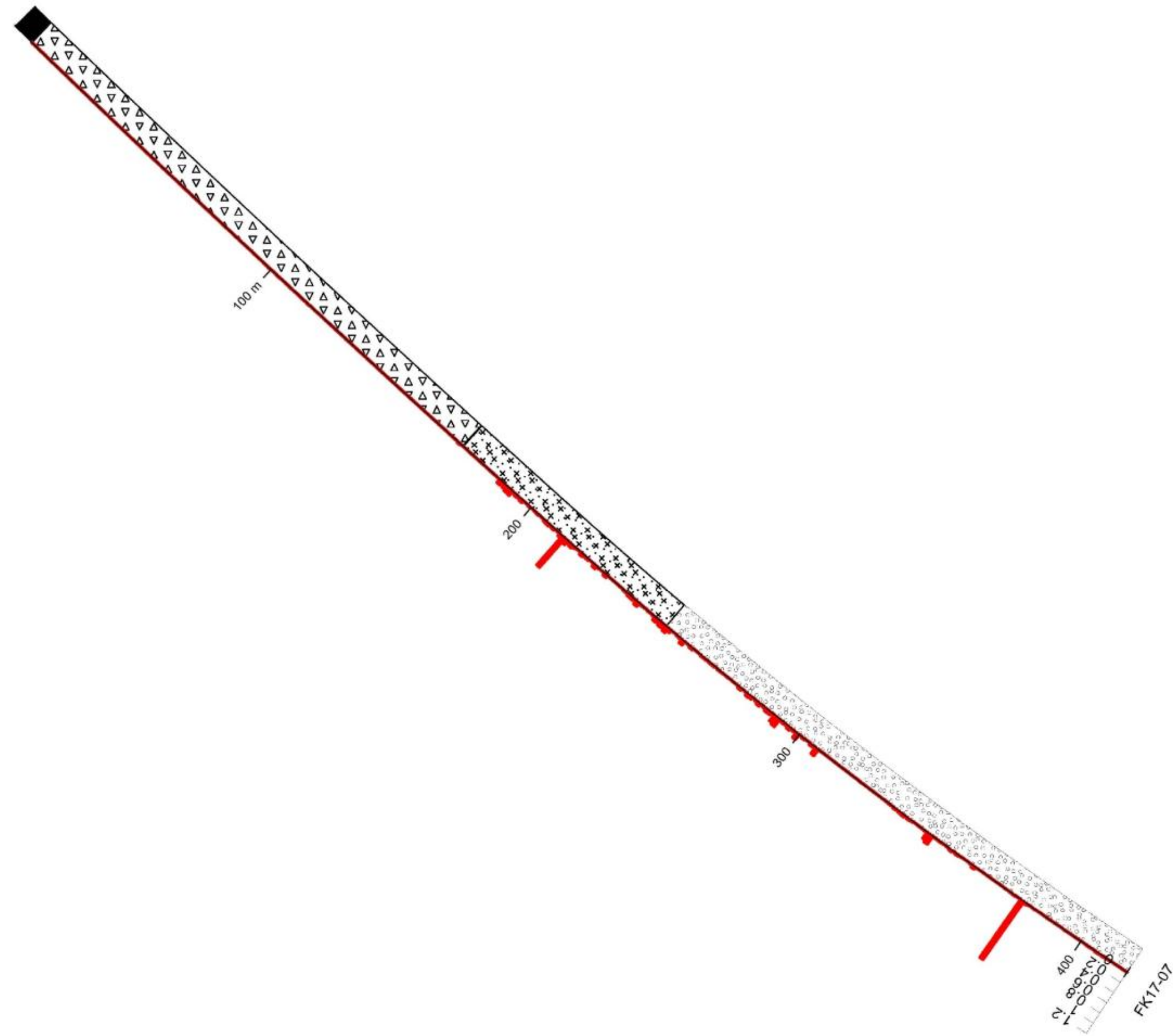
REF. PT. E, N	400040 m	6311100 m
EXTENTS	431.4 m	371.5 m
SECTION TOP, BOT	1300 m	928.5 m
TOLERANCE +/-	198 m	



Aben Resources
Forrest Kerr Project
Boundary North X-Section
Cu

NW

SE



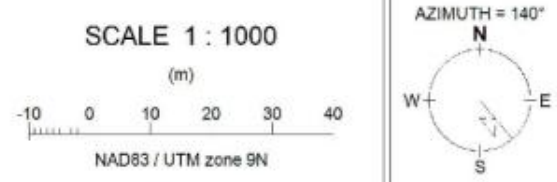
TD 416m

BAR GRAPHS	L/R	COL
Au_ppm_	L	Red

ROCK CODES	PAT	LABEL	DESCRIPTION
Lithology	BRXX	BRXX	Breccia
	CASN	CASN	Casing
	PfthyFlow	PfthyFlow	plag-phyric coherent
	CT1	CT1	crystal lithic tuff

SECTION SPECS:

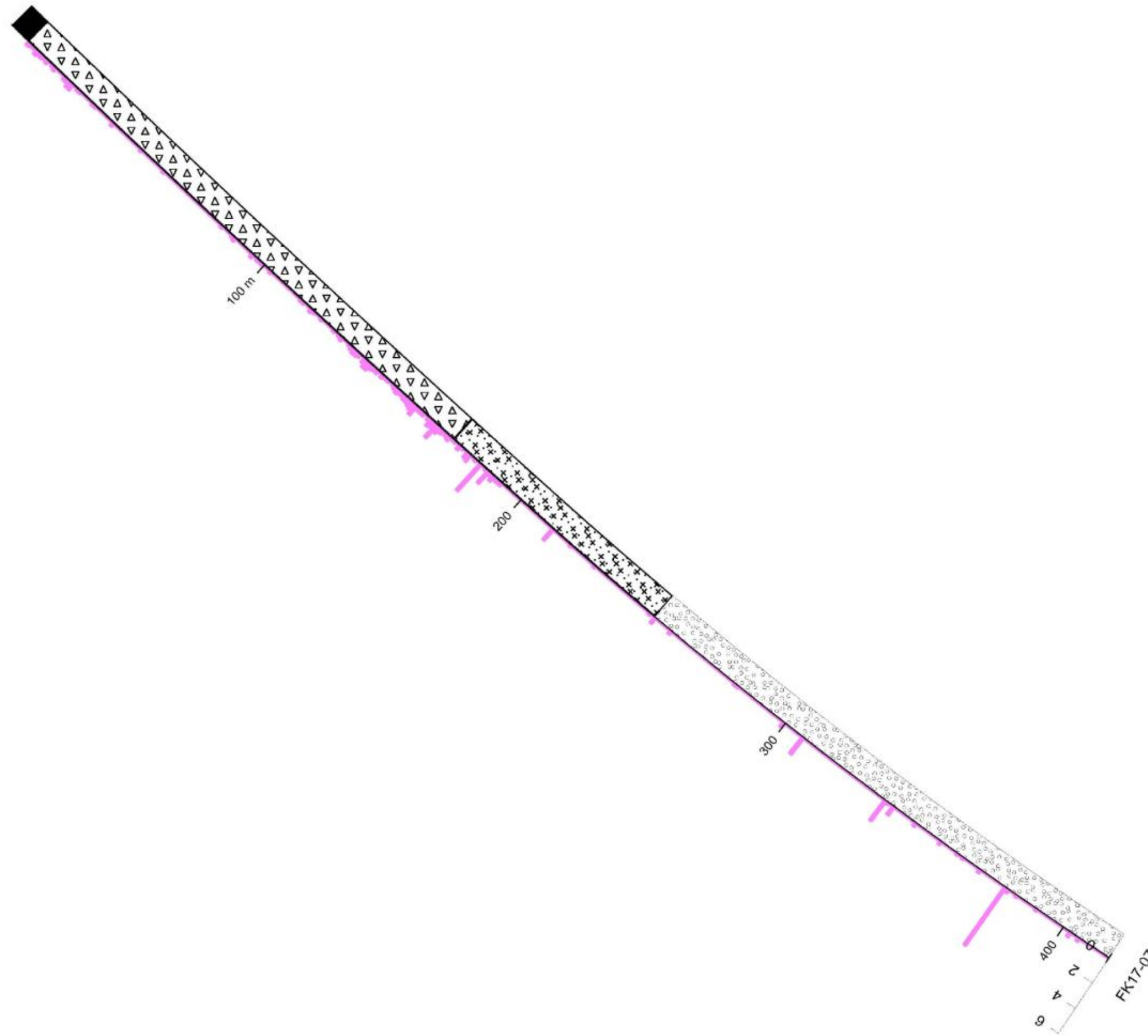
REF. PT. E, N	400050 m	6310680 m
EXTENTS	431.4 m	371.5 m
SECTION TOP, BOT	1350 m	978.5 m
TOLERANCE +/-	242 m	



Aben Resources
Forrest Kerr Project
FK17-07 X-Section
Au

NW

SE

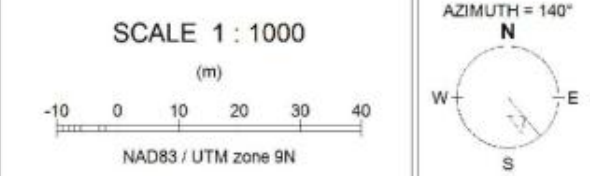


TD 416m

BAR GRAPHS	L/R	COL
Ag_ppm_	L	

ROCK CODES	PAT	LABEL	DESCRIPTION
Lithology	7 A	BRXX	Breccia
		CASN	Casing
		PiphyFlow	plag-phyric coherent
		CTI	crystal lithic tuff

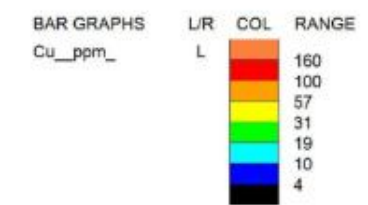
SECTION SPECS:
 REF. PT. E, N 400050 m 6310650 m
 EXTENTS 431.4 m 371.5 m
 SECTION TOP, BOT 1300 m 928.5 m
 TOLERANCE +/- 241.5 m



Aben Resources
 Forrest Kerr Project
 FK17-07 X-Section
 Ag

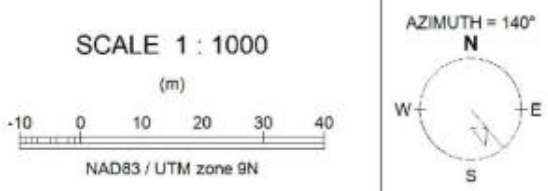
NW

SE



ROCK CODES	PAT	LABEL	DESCRIPTION
Lithology	BRX	BRX	Breccia
	CASN	CASN	Casing
	PfhyFlow	PfhyFlow	plagioclase coherent
	CT1	CT1	crystal lithic tuff

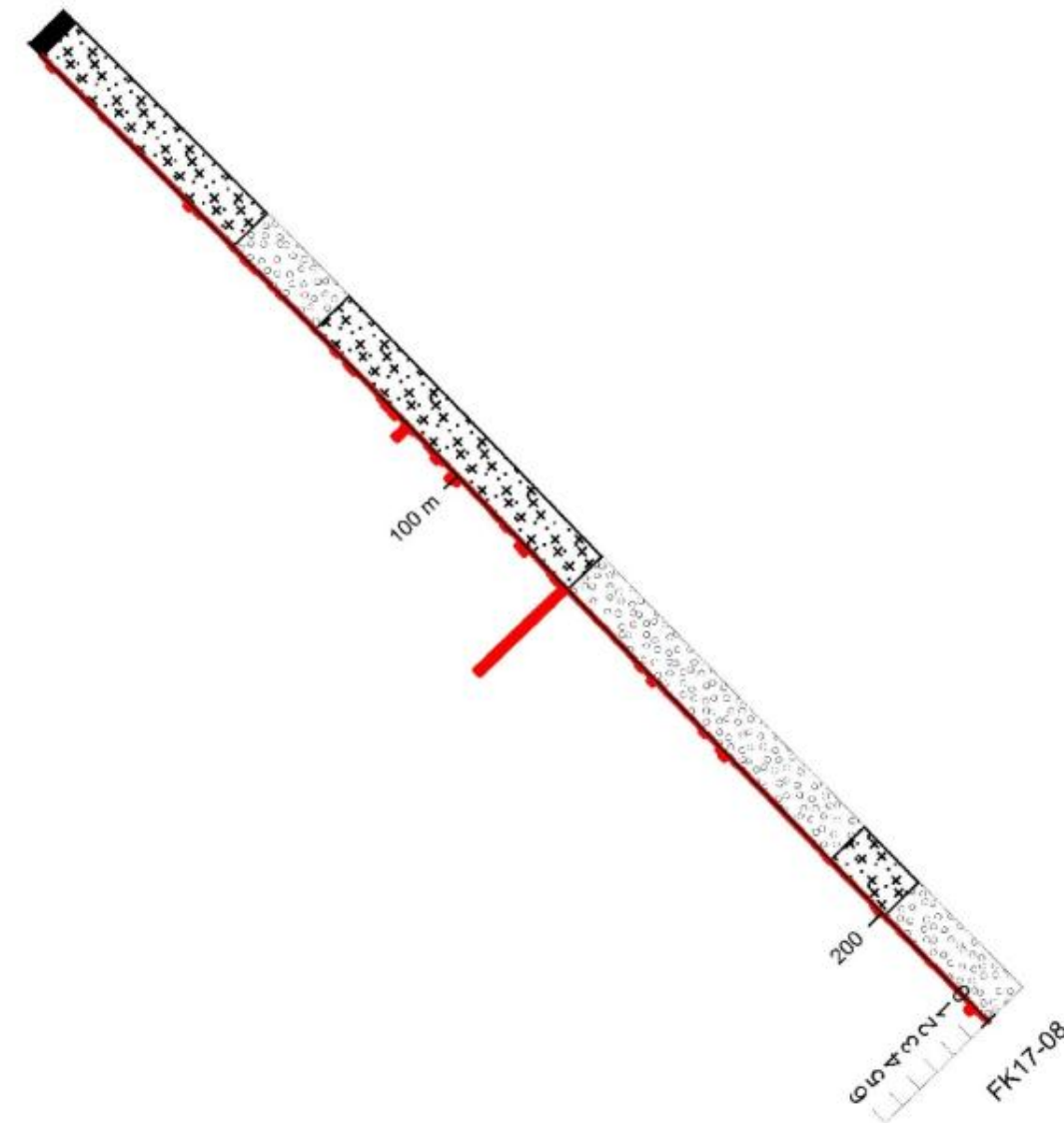
SECTION SPECS:
 REF. PT. E, N 400050 m 6310650 m
 EXTENTS 431.4 m 371.5 m
 SECTION TOP, BOT 1300 m 928.5 m
 TOLERANCE +/- 241.5 m



Aben Resources
 Forrest Kerr Project
 FK17-07 X-Section
 Cu

NW

SE



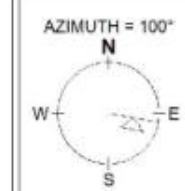
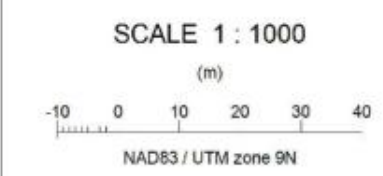
TD 225m

BAR GRAPHS	L/R	COL
Au_ppm_	L	█

ROCK CODES	PAT	LABEL	DESCRIPTION
Lithology	█	CASN	Casing
	█	PiphtyFlow	plag-phyric coherent
	█	CT1	crystal lithic tuff

SECTION SPECS:

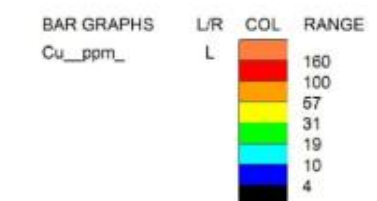
REF. PT. E, N	400197 m	6310530 m
EXTENTS	431.4 m	371.5 m
SECTION TOP, BOT	1400 m	1029 m
TOLERANCE +/-	123.5 m	



Aben Resources
Forrest Kerr Project
FK17-08 X-Section
Au

NW

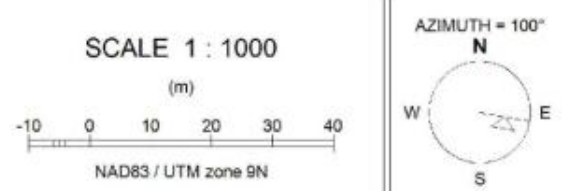
SE



ROCK CODES	PAT	LABEL	DESCRIPTION
Lithology	[Pattern]	CASN	Casing
	[Pattern]	PiggyFlow	plag-phyrlic coherent
	[Pattern]	CTI	crystal lithic tuff

SECTION SPECS:

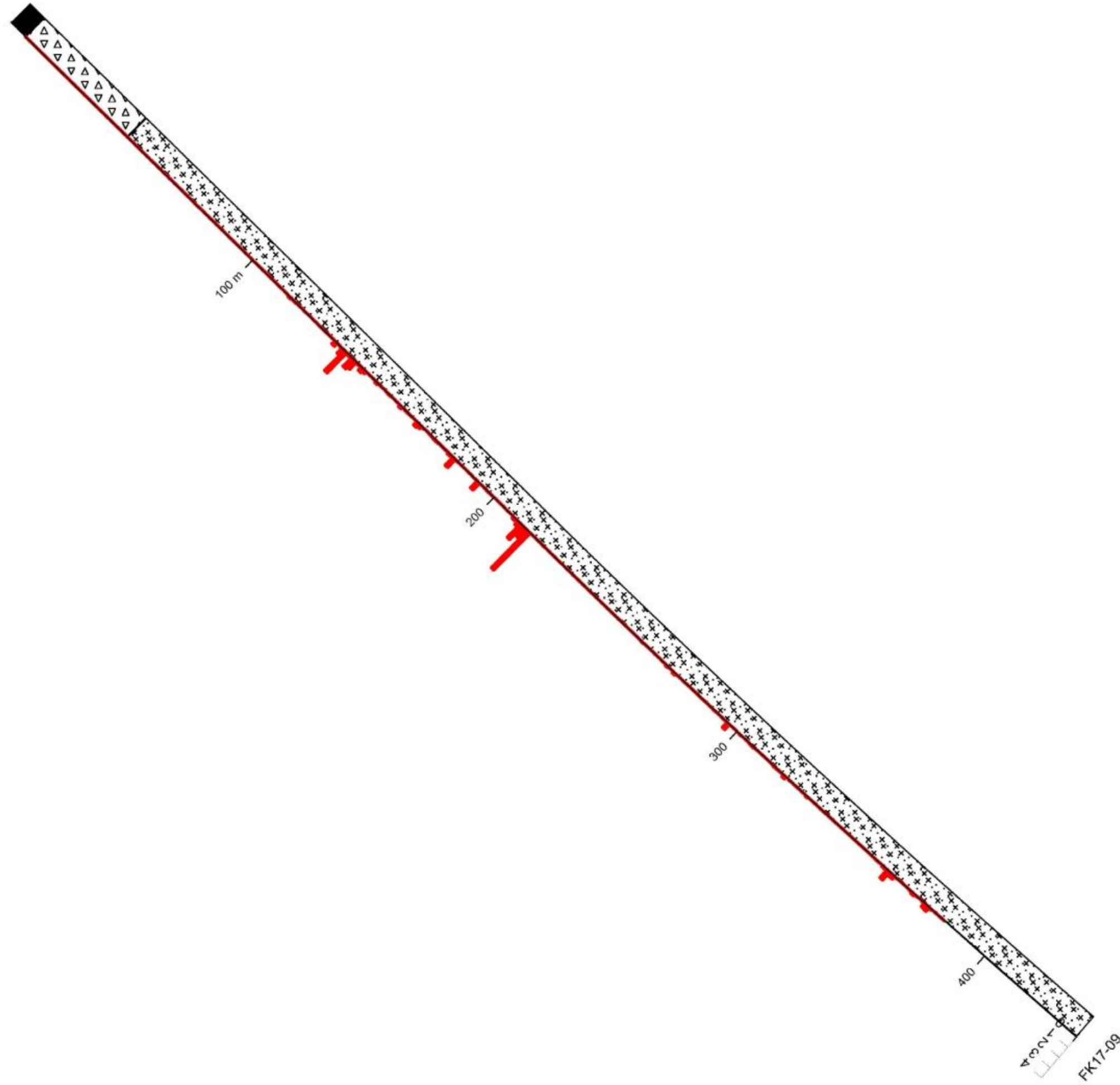
REF. PT. E. N	400197 m	6310530 m
EXTENTS	431.4 m	371.5 m
SECTION TOP, BOT	1400 m	1029 m
TOLERANCE +/-	123.5 m	



Aben Resources
Forrest Kerr Project
FK17-08 X-Section
Cu

NW

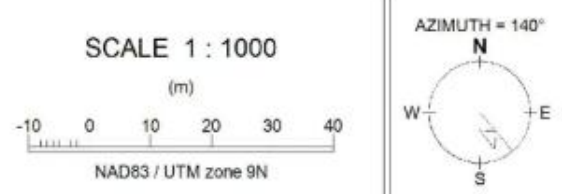
SE



BAR GRAPHS	L/R	COL
Au_ppm_	L	█

ROCK CODES	PAT	LABEL	DESCRIPTION
Lithology	▽	BRXX	Breccia
	▬	CASN	Casing
	⋆	PipyFlow	plag-pyric coherent

SECTION SPECS:
 REF. PT. E. N 400022 m 6310910 m
 EXTENTS 431.4 m 371.5 m
 SECTION TOP, BOT 1300 m 928.5 m
 TOLERANCE +/- 195 m

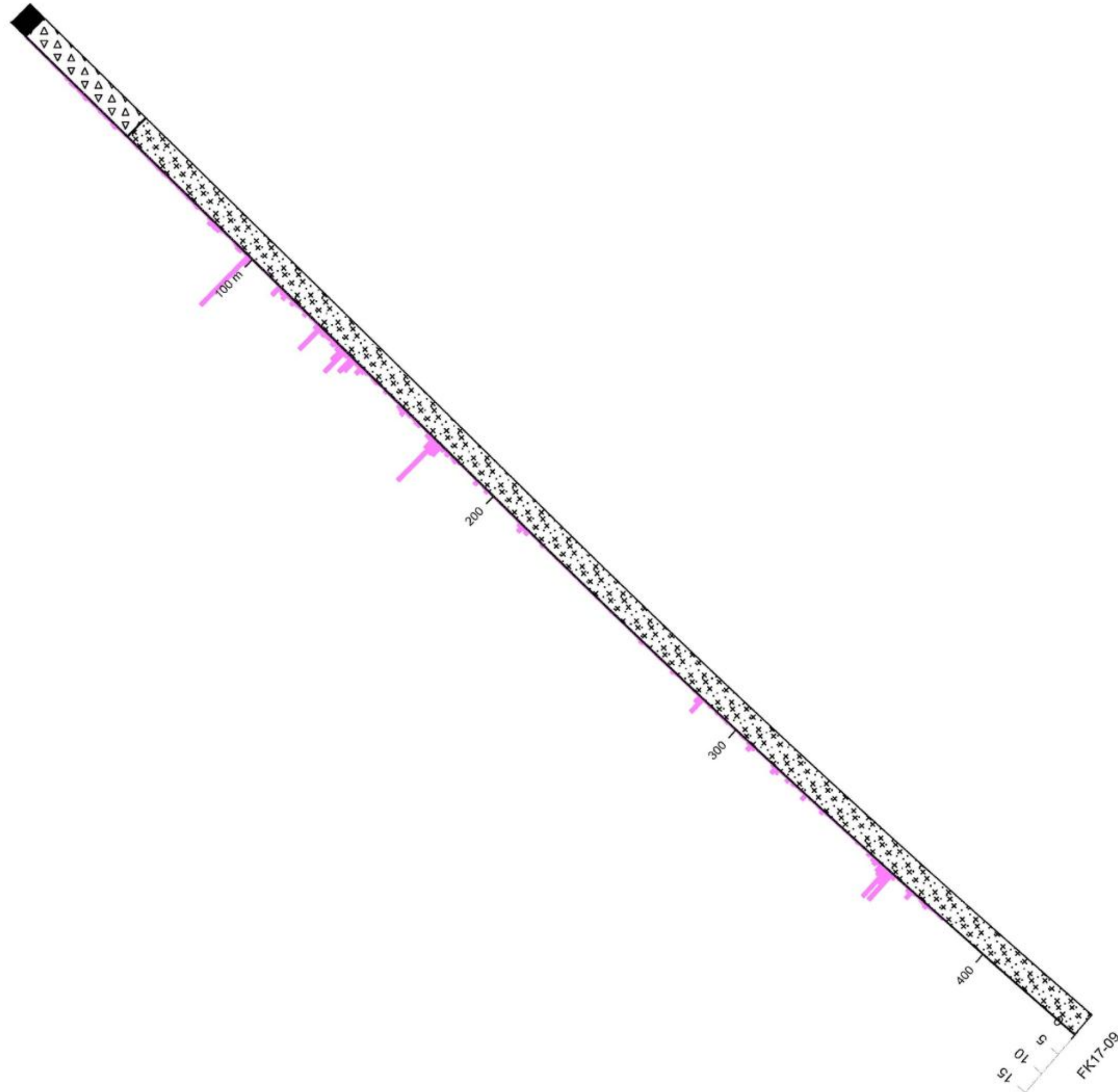


TD 437m

Aben Resources
 Forrest Kerr Project
 FK17-09 X-Section
 Au

NW

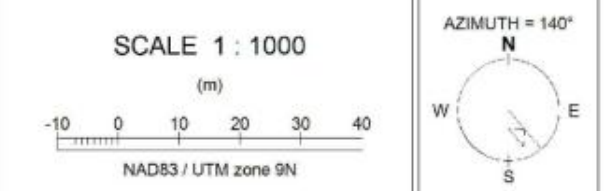
SE



BAR GRAPHS	L/R	COL
Ag_ppm_	L	

ROCK CODES	PAT	LABEL	DESCRIPTION
Lithology	BRXX	BRXX	Breccia
	CASN	CASN	Casing
	PiplyFlow	PiplyFlow	plag-ptyric coherent

SECTION SPECS:
 REF. PT. E, N 400022 m 6310910 m
 EXTENTS 431.4 m 371.5 m
 SECTION TOP, BOT 1300 m 928.5 m
 TOLERANCE +/- 196 m

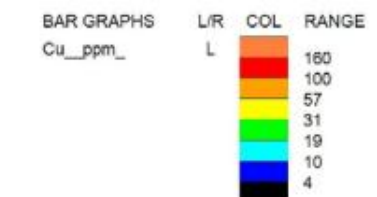
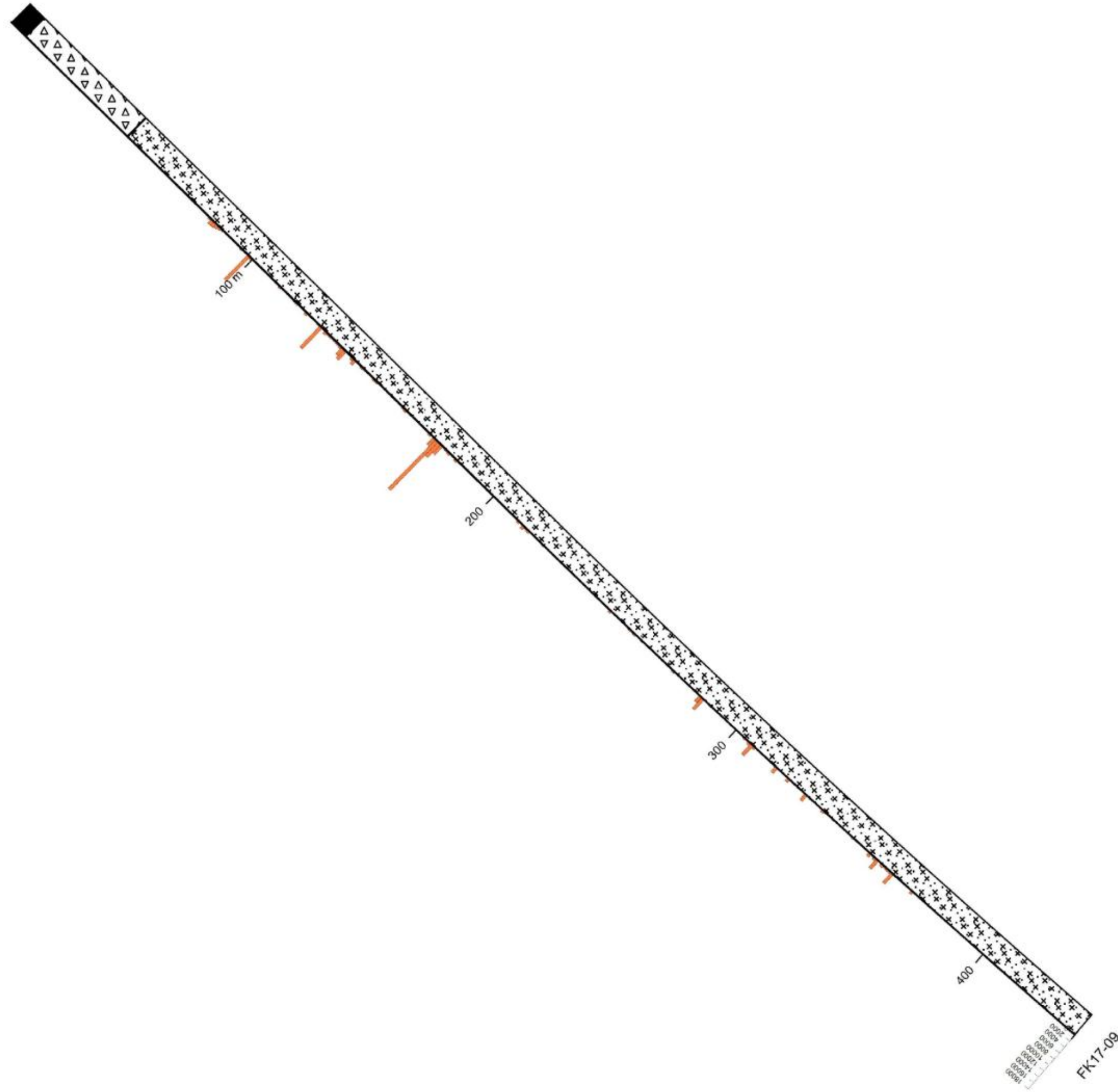


TD 437m

Aben Resources
 Forrest Kerr Project
 FK17-09 X-Section
 Ag

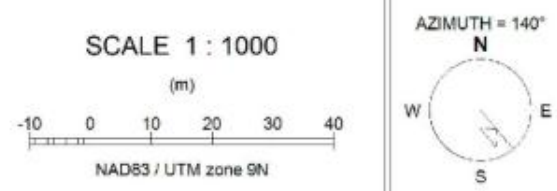
NW

SE



ROCK CODES	PAT	LABEL	DESCRIPTION
Lithology	[Pattern]	BRXX	Breccia
	[Pattern]	CASN	Casing
	[Pattern]	PhtyFlow	plag-phyric coherent

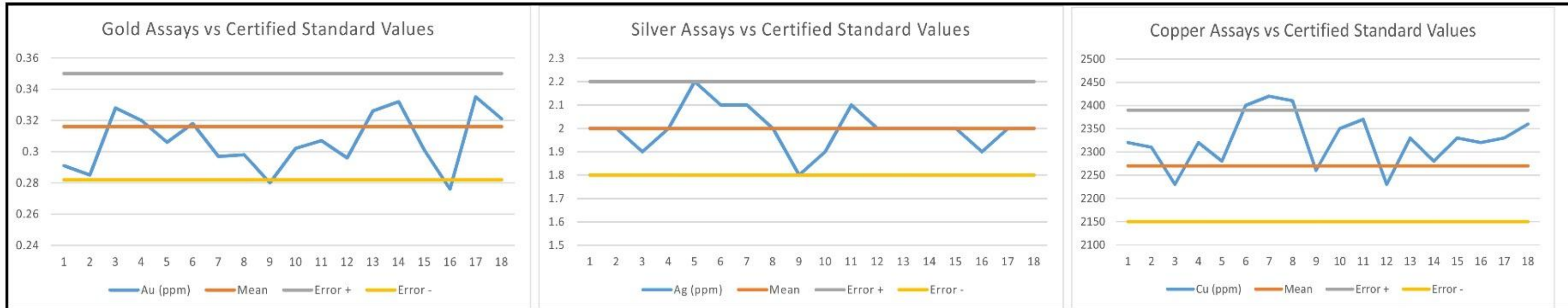
SECTION SPECS:
 REF. PT. E, N 400022 m 6310910 m
 EXTENTS 431.4 m 371.5 m
 SECTION TOP, BOT 1300 m 928.5 m
 TOLERANCE +/- 196 m



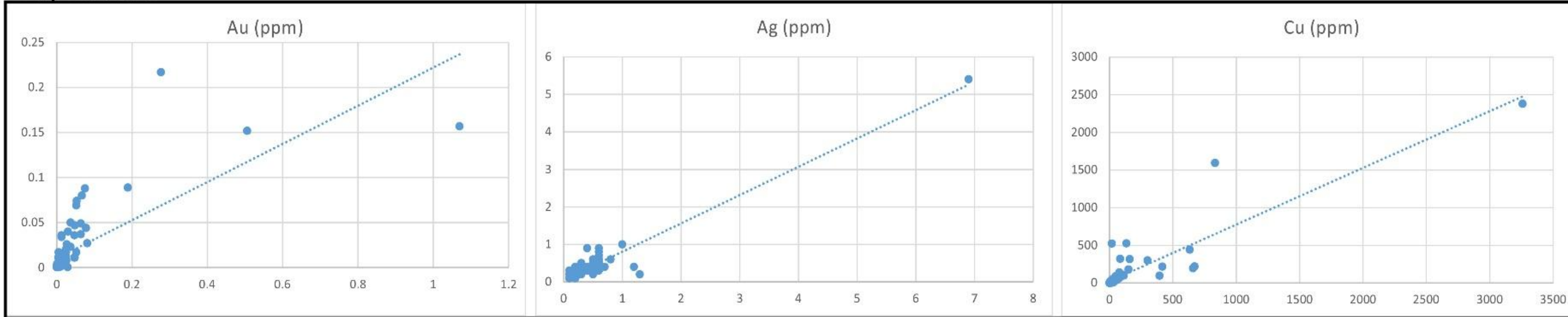
TD 437m

Aben Resources
 Forrest Kerr Project
 FK17-09 X-Section
 Cu

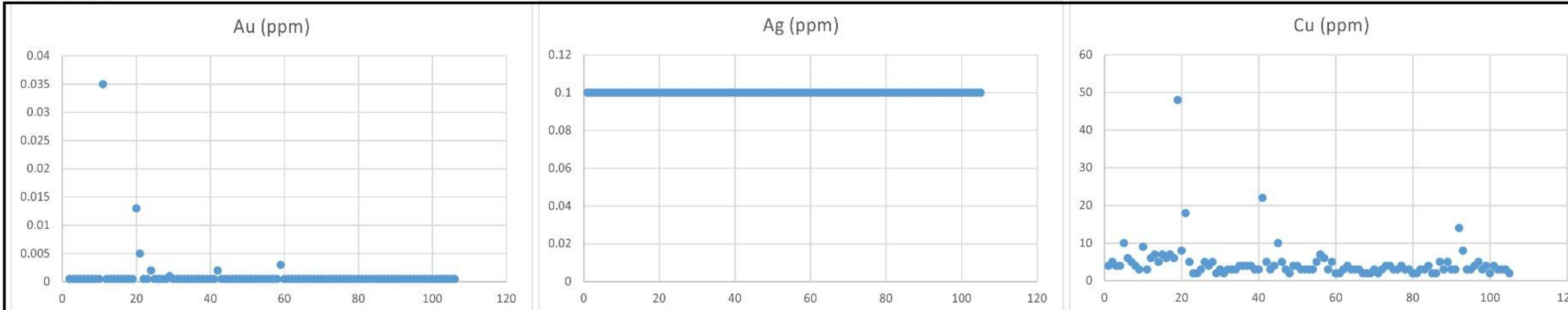
Standards



Duplicates



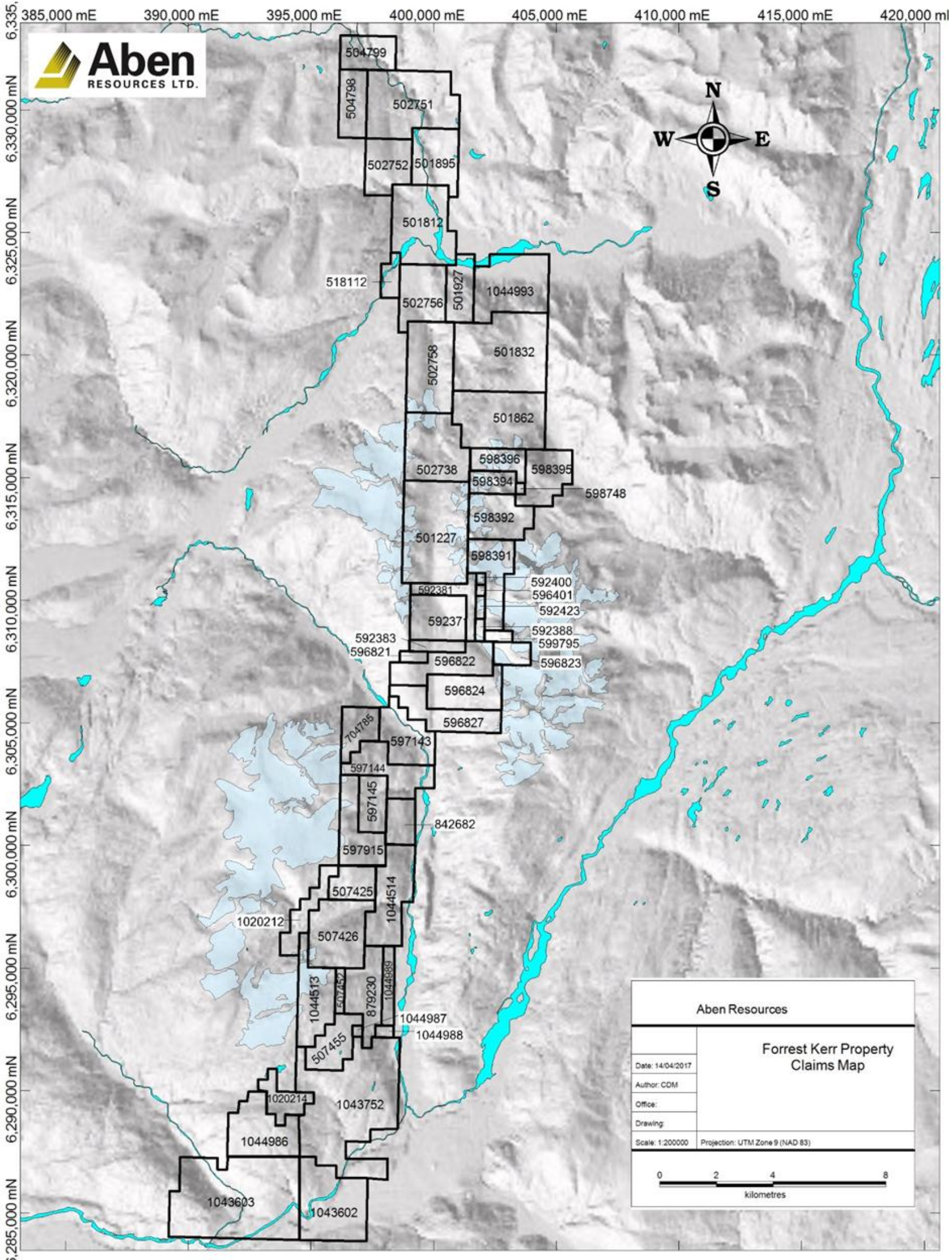
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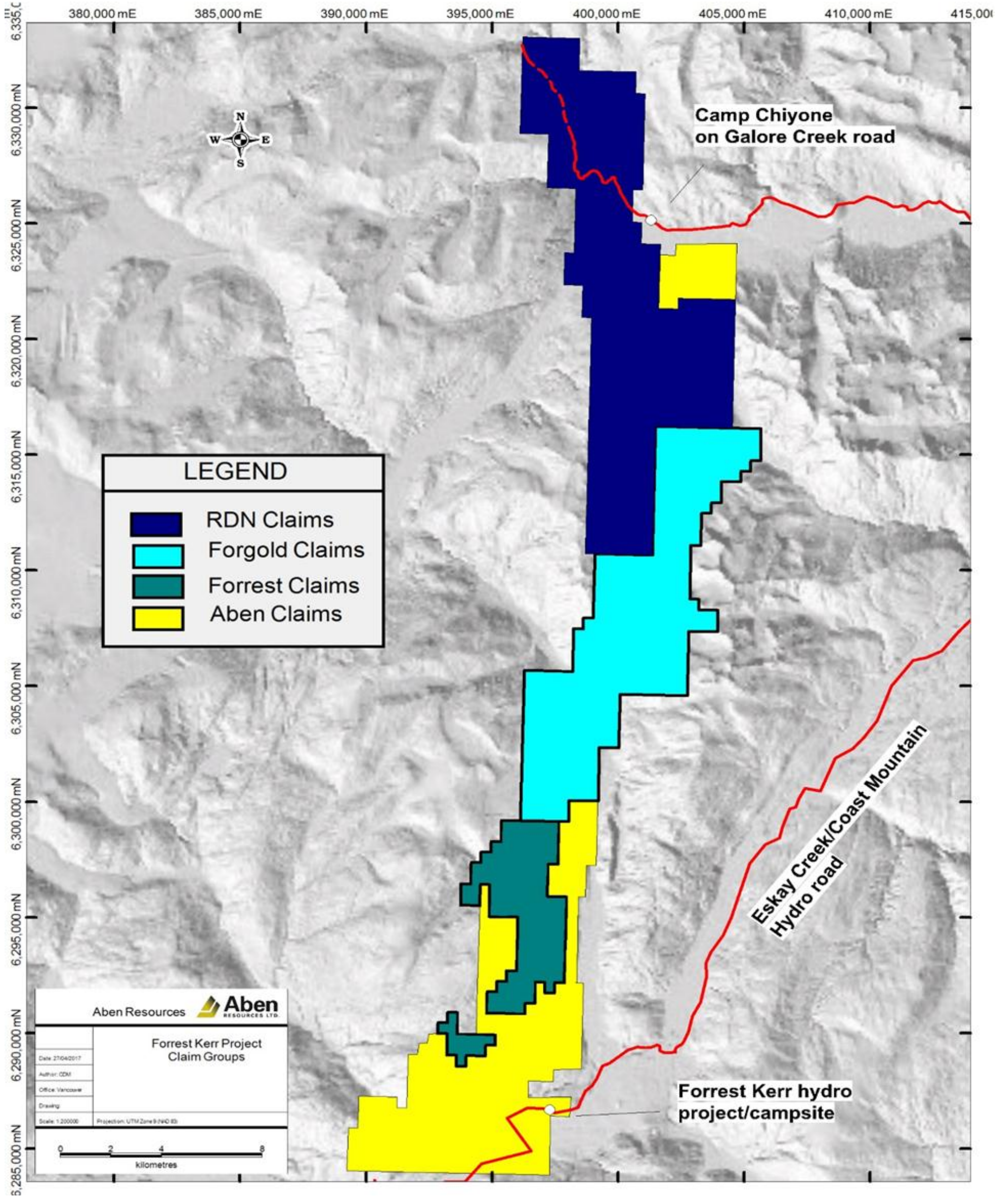
APPENDIX G: Report Figures

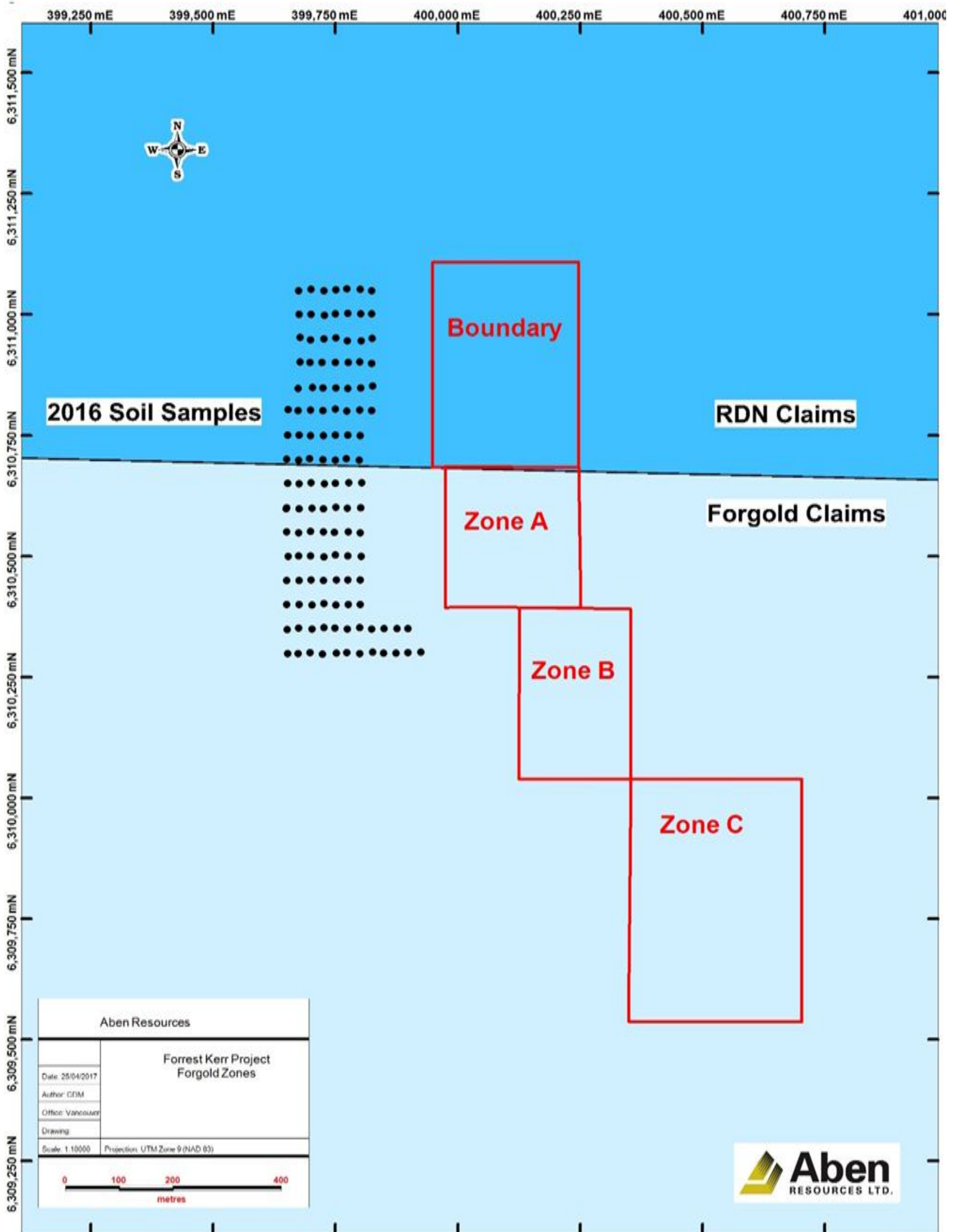
APPENDIX G: Report Figures

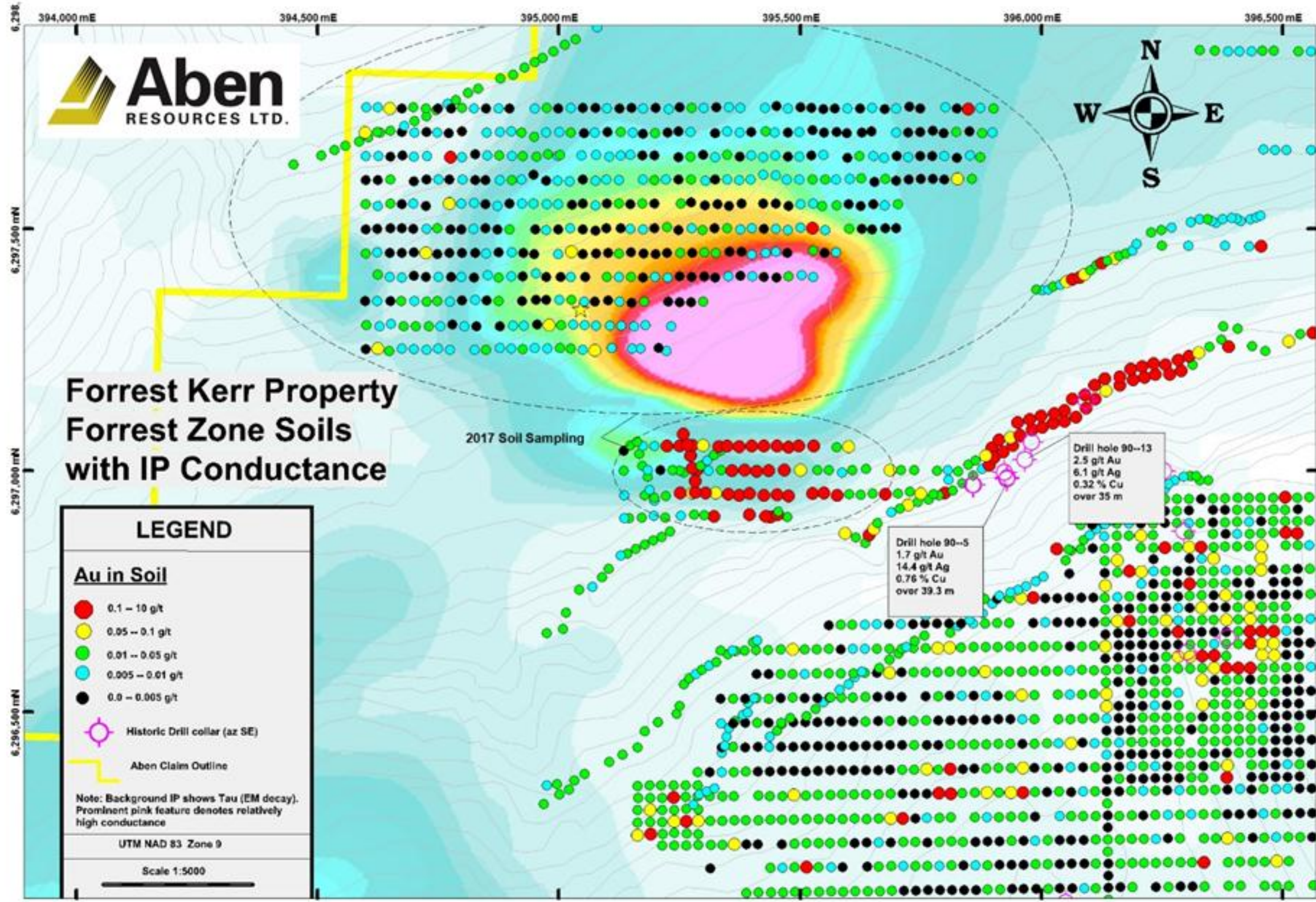




Aben Resources	
Forrest Kerr Property Claims Map	
Date: 14/04/2017	
Author: CDM	
Office:	
Drawing:	
Scale: 1:200000	Projection: UTM Zone 9 (NAD 83)







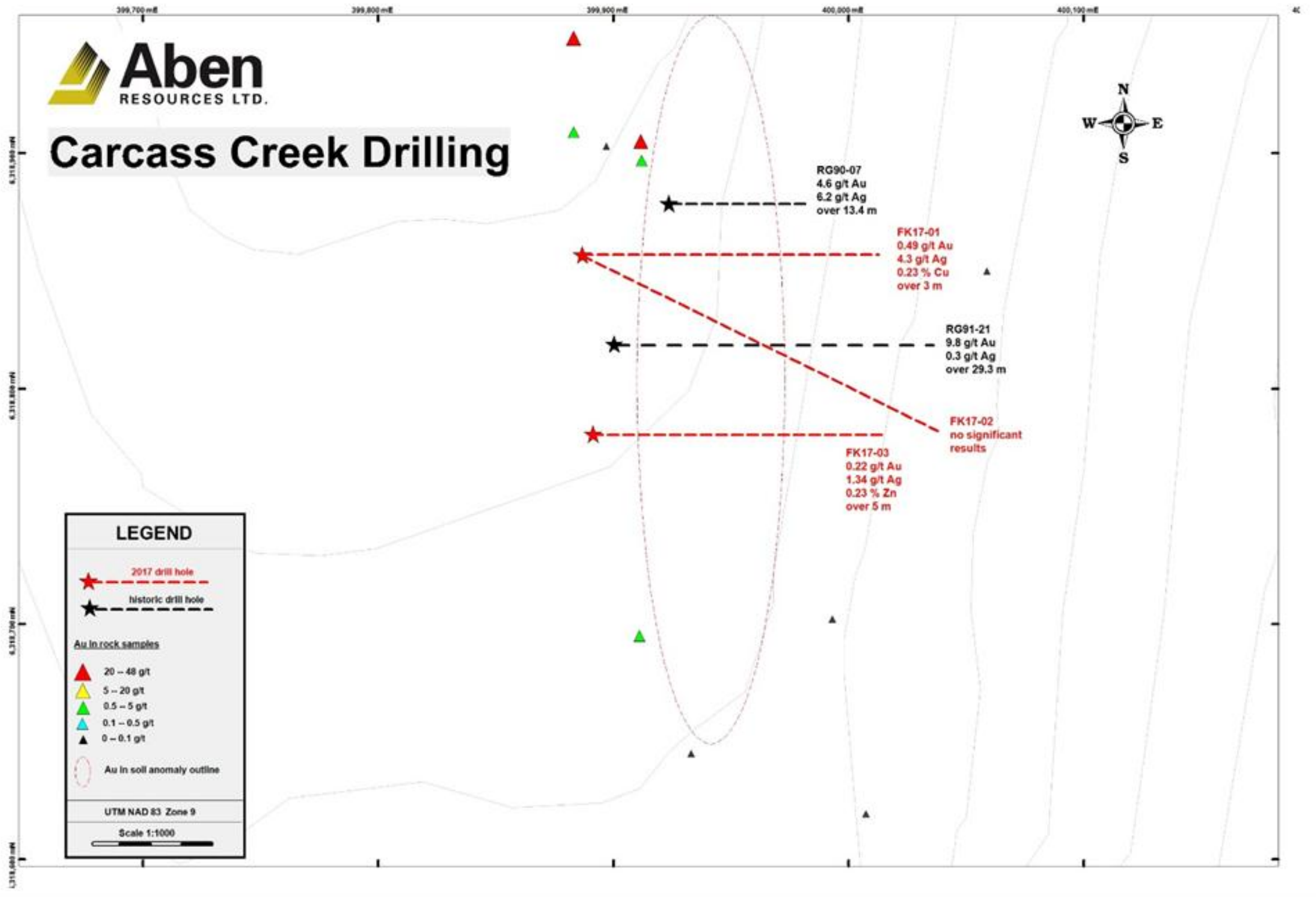
6,298,000 mN
6,297,500 mN
6,297,000 mN
6,296,500 mN

394,000 mE 394,500 mE 395,000 mE 395,500 mE 396,000 mE 396,500 mE





Carcass Creek Drilling





Forrest Kerr Property Boundary Zone Drilling

LEGEND

- 2017 drill hole (red dashed line with star)
- Historic drill hole (black dashed line with star)
- Gold in Rock Samples
 - 20 - 61 g/t (red triangle)
 - 5 - 20 g/t (yellow triangle)
 - 0.5 - 5 g/t (green triangle)
 - 0.1 - 0.5 g/t (cyan triangle)
 - 0 - 0.1 g/t (black triangle)
- Gold in Soil anomaly (red dashed outline)
- Copper in Soil anomaly (green dashed outline)
- mineralized outcrop (yellow star)

UTM NAD 83 Zone 9

Scale 1:2500

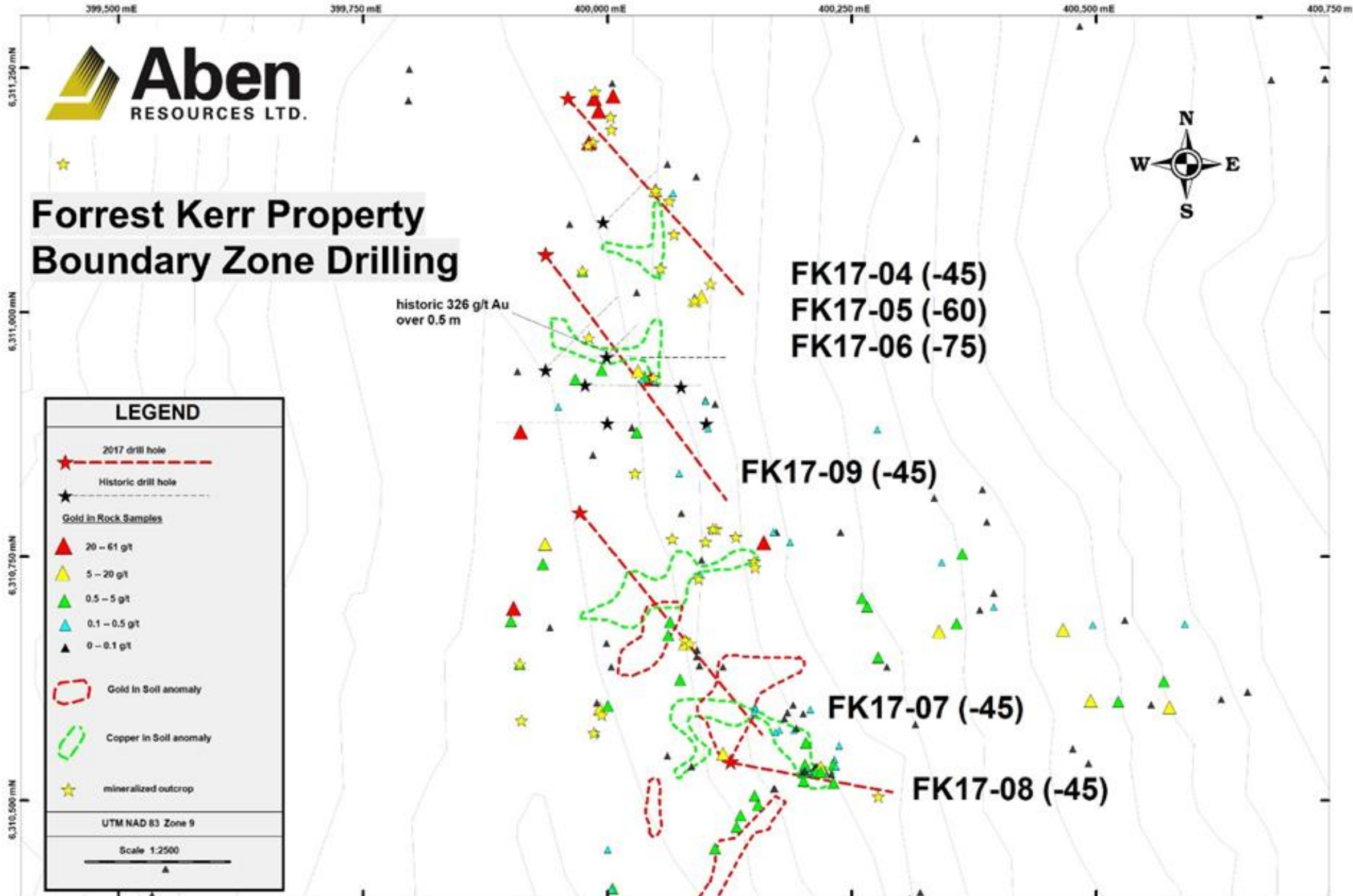
historic 326 g/t Au
over 0.5 m

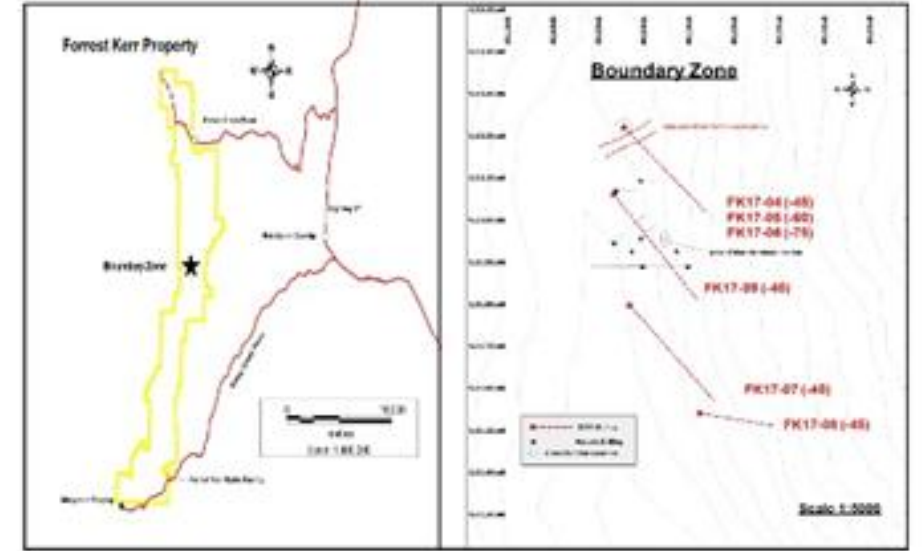
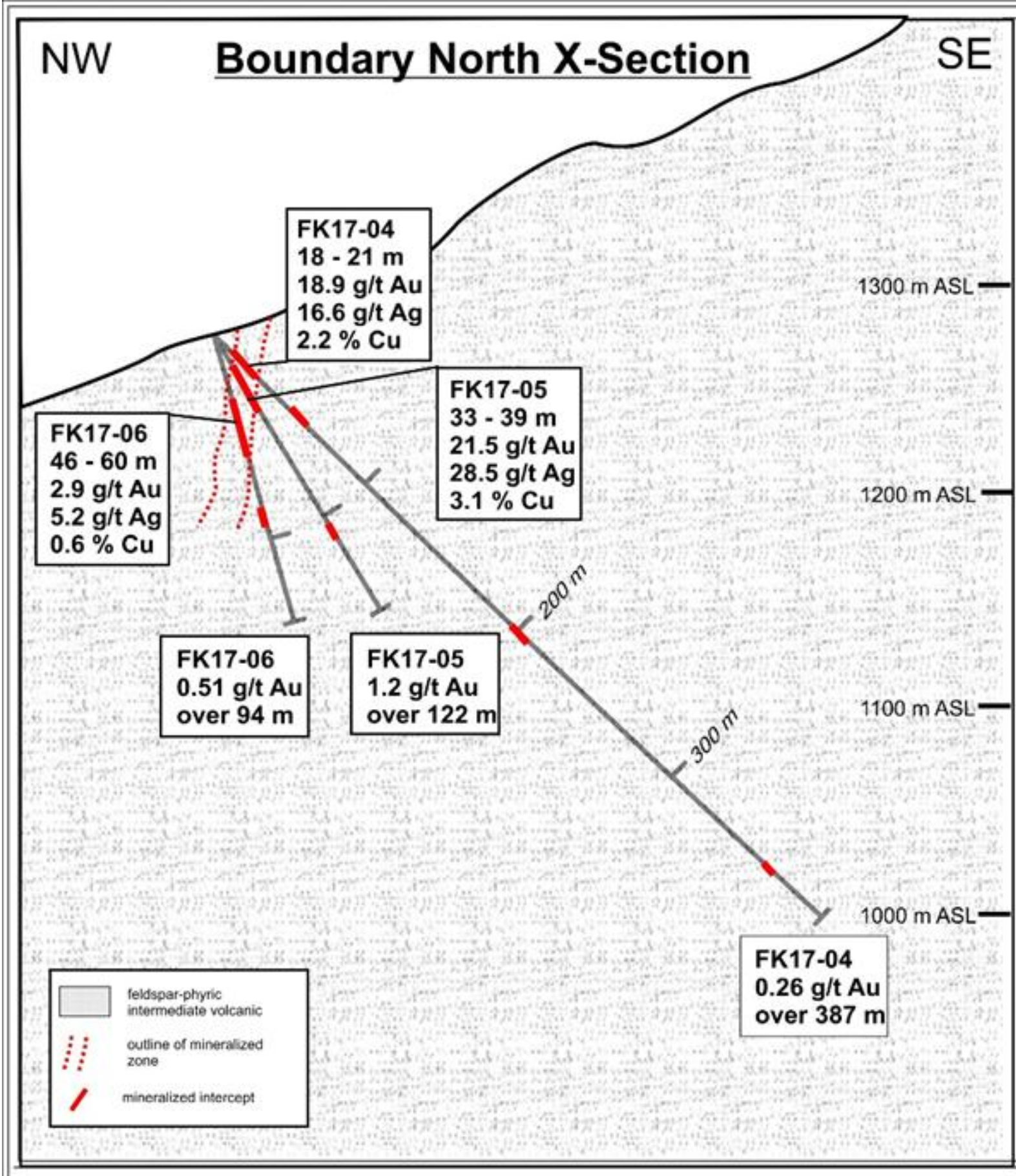
FK17-04 (-45)
FK17-05 (-60)
FK17-06 (-75)

FK17-09 (-45)

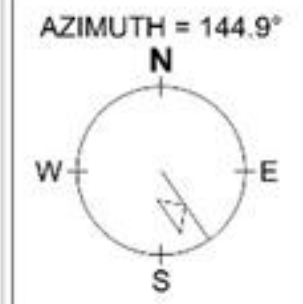
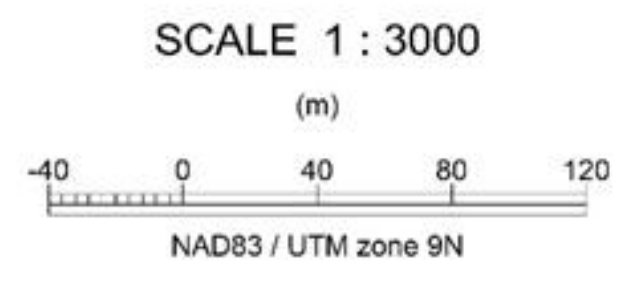
FK17-07 (-45)

FK17-08 (-45)

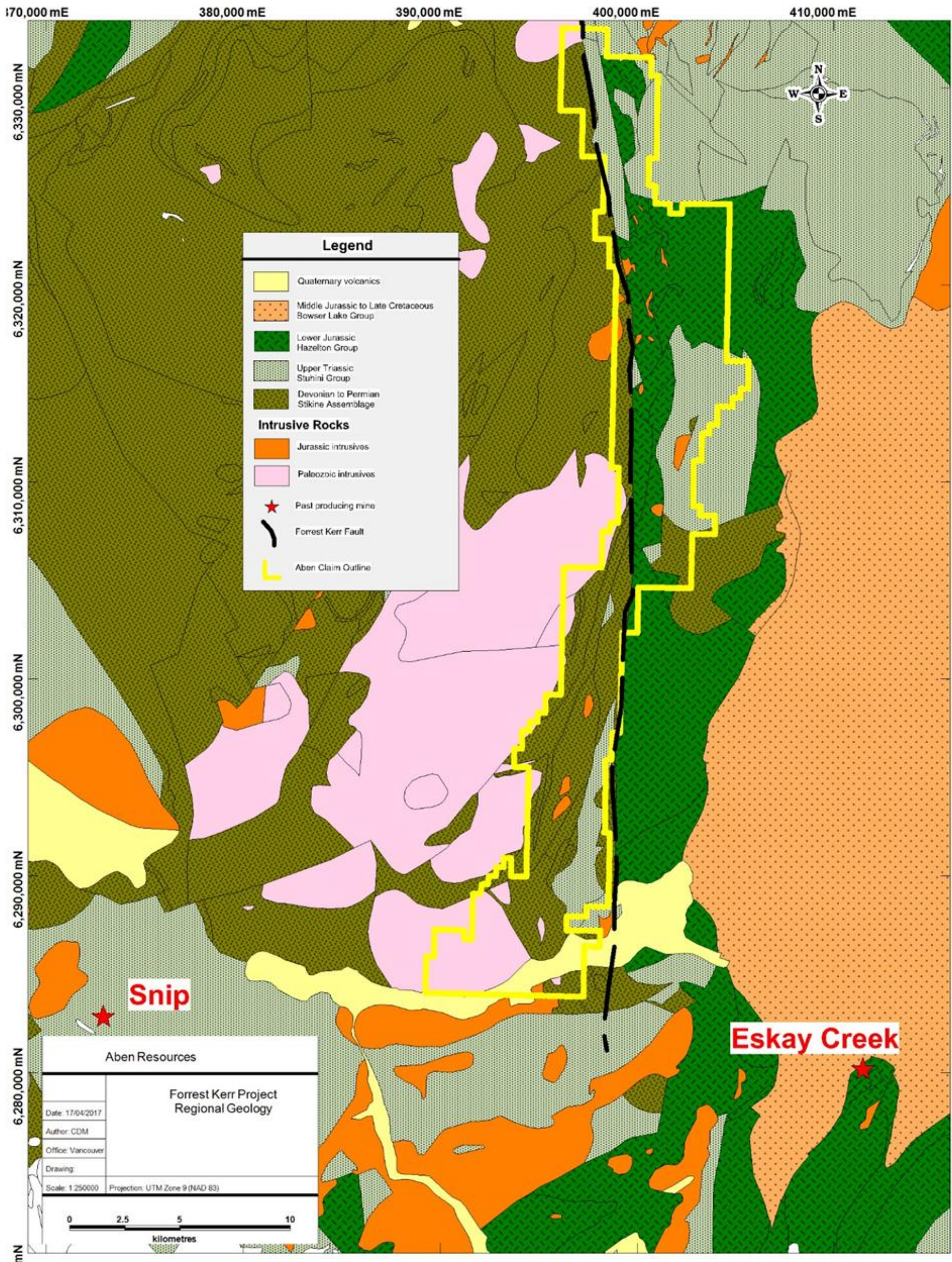


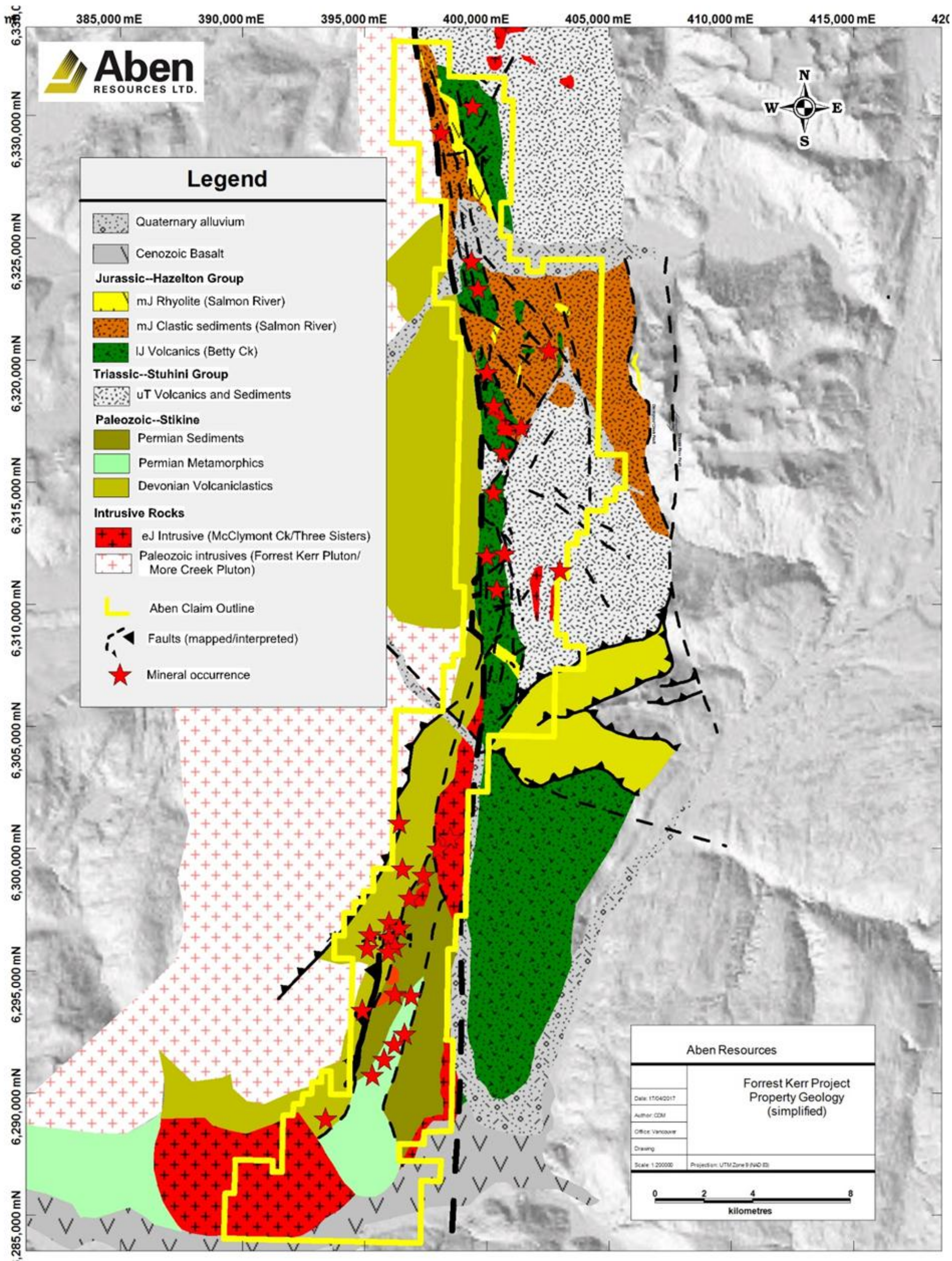


SECTION SPECS:
 REF. PT. E, N 400063 m 6311120 m
 EXTENTS 409.2 m 487.5 m
 SECTION TOP, BOT 1400 m 912.5 m
 TOLERANCE +/- 53.5 m



Aben Resources
Forrest Kerr Project
Boundary North Cross-Section





APPENDIX H: Drill Logs

Hole ID	Sample #	Rock Type	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
FK17-01	835502	Felsic crystal lithic lapilli tuff	54	55	1	0.002	<0.2	38	6	74
FK17-01	835503	Felsic crystal lithic lapilli tuff	55	56	1	<0.001	<0.2	19	6	76
FK17-01	835504	Felsic crystal lithic lapilli tuff	56	57	1	0.001	<0.2	59	8	68
FK17-01	835505	Felsic crystal lithic lapilli tuff	57	58	1	<0.001	<0.2	42	7	67
FK17-01	835506	Felsic crystal lithic lapilli tuff	58	59	1	<0.001	<0.2	46	10	59
FK17-01	835507	Felsic crystal lithic lapilli tuff	59	60	1	0.001	<0.2	19	6	47
FK17-01	835508	Crystal lithic lapilli tuff	60	61	1	0.002	0.5	62	25	73
FK17-01	835509	Crystal lithic lapilli tuff	61	62	1	<0.001	<0.2	37	4	97
FK17-01	835510	Crystal lithic lapilli tuff	62	63	1	<0.001	0.2	21	18	7
FK17-01	835511	Crystal lithic lapilli tuff	63	64	1	0.001	<0.2	14	12	22
FK17-01	835512	Crystal lithic lapilli tuff	64	65	1	0.003	<0.2	27	8	65
FK17-01	835513	Crystal lithic lapilli tuff	65	66	1	0.069	0.3	38	106	310
FK17-01	835514	Crystal lithic lapilli tuff	66	67	1	0.125	0.5	26	129	477
FK17-01	835515	Crystal lithic lapilli tuff	67	68	1	0.01	0.4	12	298	1115
FK17-01	835517	Crystal lithic lapilli tuff	68	69	1	0.004	0.2	21	157	227
FK17-01	835518	Crystal lithic lapilli tuff	69	70	1	0.074	0.3	51	1100	1910
FK17-01	835519	Crystal lithic lapilli tuff	70	71	1	0.189	0.4	75	399	979
FK17-01	835521	Crystal lithic lapilli tuff	71	72	1	0.163	0.2	22	185	580
FK17-01	835522	Crystal lithic lapilli tuff	72	73	1	0.137	0.2	20	304	739
FK17-01	835523	Crystal lithic lapilli tuff	73	74	1	0.007	<0.2	12	93	359
FK17-01	835524	Crystal lithic lapilli tuff	74	75	1	0.022	0.2	12	72	612
FK17-01	835525	Crystal lithic lapilli tuff	75	76	1	0.013	0.4	7	446	1290
FK17-01	835526	Crystal lithic lapilli tuff	76	77	1	0.167	0.4	10	586	1230
FK17-01	835527	Crystal lithic lapilli tuff	77	78	1	0.034	0.2	7	83	504
FK17-01	835528	Crystal lithic lapilli tuff	78	79	1	0.195	0.6	64	613	2810
FK17-01	835529	Crystal lithic lapilli tuff	79	80	1	0.014	<0.2	13	17	616
FK17-01	835531	Crystal lithic lapilli tuff	80	81	1	0.01	<0.2	10	113	586
FK17-01	835532	Crystal lithic lapilli tuff	81	82	1	0.034	0.2	10	210	921
FK17-01	835533	Crystal lithic lapilli tuff	82	83	1	1.49	0.7	82	168	7240
FK17-01	835534	Crystal lithic lapilli tuff	83	84	1	0.023	<0.2	9	30	379
FK17-01	835535	Crystal lithic lapilli tuff	84	85	1	0.036	<0.2	2	11	389
FK17-01	835536	Crystal lithic lapilli tuff	85	86	1	0.019	<0.2	6	22	325
FK17-01	835537	Crystal lithic lapilli tuff	86	87	1	0.062	1	54	429	2410
FK17-01	835538	Crystal lithic lapilli tuff	87	88	1	0.486	3.4	375	707	11700
FK17-01	835539	Crystal lithic lapilli tuff	88	89	1	0.474	2.5	563	539	10000
FK17-01	835541	Crystal lithic lapilli tuff	89	90	1	0.186	1.2	412	89	1875
FK17-01	835542	Crystal lithic lapilli tuff	90	91	1	0.007	0.5	18	131	413
FK17-01	835543	Crystal lithic lapilli tuff	91	92	1	0.004	0.5	23	182	688
FK17-01	835544	Crystal lithic lapilli tuff	92	93	1	0.003	0.5	18	181	884
FK17-01	835545	Crystal lithic lapilli tuff	93	94	1	0.005	0.5	19	129	423
FK17-01	835546	Crystal lithic lapilli tuff	94	95	1	<0.001	<0.2	6	63	324
FK17-01	835547	Crystal lithic lapilli tuff	95	96	1	0.008	0.6	17	219	516

Hole ID	Sample #	Rock Type	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
FK17-01	835548	Crystal lithic lapilli tuff	96	97	1	0.004	0.5	36	253	938
FK17-01	835549	Crystal lithic lapilli tuff	97	98	1	0.001	0.3	41	199	919
FK17-01	835551	Crystal lithic lapilli tuff	98	99	1	0.007	0.4	48	249	1050
FK17-01	835552	Crystal lithic lapilli tuff	99	100	1	0.049	2.1	65	374	2660
FK17-01	835553	Crystal lithic lapilli tuff	100	101	1	0.273	1.9	169	321	4520
FK17-01	835554	Crystal lithic lapilli tuff	101	102	1	0.046	2.2	83	308	1705
FK17-01	835555	Crystal lithic lapilli tuff	102	103	1	0.028	0.7	61	163	1195
FK17-01	835556	Crystal lithic lapilli tuff	103	104	1	0.079	1.1	231	189	2610
FK17-01	835557	Crystal lithic lapilli tuff	104	105	1	0.018	1	28	806	3090
FK17-01	835558	Crystal lithic lapilli tuff	105	106	1	0.009	0.6	186	304	927
FK17-01	835559	Crystal lithic lapilli tuff	106	107	1	0.003	0.3	11	253	1100
FK17-01	835561	Crystal lithic lapilli tuff	107	108	1	0.023	1.2	163	626	3730
FK17-01	835562	Crystal lithic lapilli tuff	108	109	1	0.005	0.5	76	452	2170
FK17-01	835563	Crystal lithic lapilli tuff	109	110	1	0.007	0.7	53	399	1690
FK17-01	835564	Crystal lithic lapilli tuff	110	111	1	0.003	0.4	42	356	1410
FK17-01	835565	Crystal lithic lapilli tuff	111	112	1	0.005	0.3	25	414	1870
FK17-01	835566	Crystal lithic lapilli tuff	112	113	1	0.107	0.8	63	222	1960
FK17-01	835567	Crystal lithic lapilli tuff	113	114	1	0.015	0.6	21	371	1690
FK17-01	835568	Crystal lithic lapilli tuff	114	115	1	0.008	0.8	74	600	3020
FK17-01	835569	Crystal lithic lapilli tuff	115	116	1	0.004	0.6	36	362	2110
FK17-01	835571	Crystal lithic lapilli tuff	116	117	1	0.003	0.6	50	226	826
FK17-01	835572	Crystal lithic lapilli tuff	117	118	1	0.002	0.3	18	179	805
FK17-01	835573	Crystal lithic lapilli tuff	118	119	1	<0.001	0.2	10	40	467
FK17-01	835574	Crystal lithic lapilli tuff	119	120	1	0.002	0.3	14	115	438
FK17-01	835575	Crystal lithic lapilli tuff	120	121	1	<0.001	<0.2	4	21	345
FK17-01	835576	Crystal lithic lapilli tuff	121	122	1	0.039	1.3	171	401	3090
FK17-01	835577	Felsic tuff	122	123	1	0.382	5.4	2630	177	5980
FK17-01	835578	Felsic tuff	123	124	1	0.297	3.6	1520	216	810
FK17-01	835579	Felsic tuff	124	125	1	0.819	4	2840	280	1450
FK17-01	835581	Felsic tuff	125	126	1	0.019	0.4	105	97	636
FK17-01	835582	Felsic tuff	126	127	1	0.003	<0.2	9	12	2100
FK17-01	835583	Felsic tuff	127	128	1	0.003	<0.2	5	34	1200
FK17-01	835584	Felsic tuff	128	129	1	<0.001	<0.2	1	21	478
FK17-01	835585	Felsic tuff	129	130	1	<0.001	<0.2	3	53	930
FK17-01	835586	Felsic tuff	130	131	1	<0.001	<0.2	10	34	1055
FK17-01	835587	Felsic tuff	131	132	1	<0.001	0.2	27	39	1075
FK17-01	835588	Felsic tuff	132	133	1	0.013	0.3	36	254	2000
FK17-01	835589	Felsic tuff	133	134	1	0.047	1.2	395	84	1155
FK17-01	835591	Felsic tuff	134	135	1	0.138	2.1	640	49	3020
FK17-01	835592	Felsic tuff	135	136	1	0.118	1.2	118	234	2160
FK17-01	835593	Felsic tuff	136	137	1	0.076	1.5	125	191	2980
FK17-01	835594	Felsic tuff	137	138	1	0.054	1.5	115	495	2470

Hole ID	Sample #	Rock Type	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
FK17-01	835595	Felsic tuff	138	139	1	0.104	1	154	166	3820
FK17-01	835596	Felsic tuff	139	140	1	0.083	2.5	323	421	2260
FK17-01	835597	Felsic tuff	140	141	1	0.018	1.6	126	162	1140
FK17-01	835598	Felsic tuff	141	142	1	0.158	2.9	979	321	1965
FK17-01	835599	Felsic tuff	142	143	1	0.087	1.7	188	710	5560
FK17-01	835601	Felsic tuff	143	144	1	0.094	4	938	805	3590
FK17-01	835602	Felsic tuff	144	145	1	1.245	7.6	2920	421	13300
FK17-01	835603	Felsic tuff	145	146	1	0.375	4.9	857	474	3250
FK17-01	835604	Crystal lithic lapilli tuff	146	147	1	0.011	0.3	150	32	141
FK17-01	835605	Crystal lithic lapilli tuff	147	148	1	0.009	0.5	53	179	151
FK17-01	835606	Crystal lithic lapilli tuff	148	149	1	0.01	0.2	64	56	299
FK17-01	835607	Crystal lithic lapilli tuff	149	150	1	0.007	0.3	29	23	197
FK17-01	835608	Crystal lithic lapilli tuff	150	151	1	0.029	0.8	53	106	399
FK17-01	835609	Crystal lithic lapilli tuff	151	152	1	0.007	0.6	32	83	477
FK17-01	835611	Crystal lithic lapilli tuff	152	153	1	0.004	0.6	27	154	388
FK17-01	835612	Crystal lithic lapilli tuff	153	154	1	0.006	1.1	39	136	290
FK17-01	835613	Crystal lithic lapilli tuff	154	155	1	0.007	0.9	83	66	321
FK17-01	835614	Crystal lithic lapilli tuff	155	156	1	0.009	1.6	35	295	1065
FK17-01	835615	Crystal lithic lapilli tuff	156	157	1	<0.001	0.2	15	52	377
FK17-01	835616	Crystal lithic lapilli tuff	157	158	1	0.01	1.2	32	240	781
FK17-01	835617	Crystal lithic lapilli tuff	158	159	1	0.005	1	22	111	134
FK17-01	835618	Crystal lithic lapilli tuff	159	160	1	0.008	1.2	39	187	359
FK17-01	835619	Crystal lithic lapilli tuff	160	161	1	0.004	0.3	16	95	400
FK17-01	835621	Crystal lithic lapilli tuff	161	162	1	0.002	0.5	26	168	545
FK17-01	835622	Crystal lithic lapilli tuff	162	163	1	<0.001	0.3	30	56	489
FK17-01	835623	Crystal lithic lapilli tuff	163	164	1	0.005	0.6	30	126	520
FK17-01	835624	Crystal lithic lapilli tuff	164	165	1	0.02	1.4	44	299	905
FK17-01	835625	Crystal lithic lapilli tuff	165	166	1	0.013	1	28	314	1250
FK17-01	835626	Crystal lithic lapilli tuff	166	167	1	0.009	0.8	27	268	749
FK17-01	835627	Crystal lithic lapilli tuff	167	168	1	<0.001	<0.2	51	81	394
FK17-01	835628	Crystal lithic lapilli tuff	168	169	1	<0.001	0.2	38	91	426
FK17-01	835629	Crystal lithic lapilli tuff	169	170	1	0.008	0.6	24	164	482
FK17-02	835632	Felsic crystal lithic lapilli tuff	120	121	1	<0.001	<0.2	74	<2	81
FK17-02	835633	Felsic crystal lithic lapilli tuff	121	122	1	<0.001	0.3	77	5	94
FK17-02	835634	Felsic crystal lithic lapilli tuff	122	123	1	<0.001	<0.2	65	5	71
FK17-02	835635	Felsic crystal lithic lapilli tuff	123	124	1	<0.001	<0.2	74	7	68
FK17-02	835636	Felsic crystal lithic lapilli tuff	124	125	1	0.002	0.4	88	20	86
FK17-02	835637	Felsic crystal lithic lapilli tuff	125	126	1	<0.001	<0.2	47	6	51
FK17-02	835638	Pl-phyric coherent	126	127	1	<0.001	<0.2	69	2	45
FK17-02	835639	Pl-phyric coherent	127	128	1	<0.001	<0.2	18	<2	68
FK17-02	835641	Pl-phyric coherent	128	129	1	<0.001	<0.2	2	<2	67
FK17-02	835642	Pl-phyric coherent	129	130	1	<0.001	<0.2	41	<2	72

Hole ID	Sample #	Rock Type	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
FK17-02	835643	Pl-phyric coherent	130	131	1	<0.001	<0.2	37	<2	65
FK17-02	835644	Breccia	131	132	1	<0.001	<0.2	58	5	48
FK17-02	835645	Breccia	132	133	1	0.001	<0.2	55	5	70
FK17-02	835646	Crystal lithic lapilli tuff	133	134	1	0.022	0.2	85	86	386
FK17-02	835647	Crystal lithic lapilli tuff	134	135	1	0.019	0.2	90	40	165
FK17-02	835648	Crystal lithic lapilli tuff	135	136	1	0.037	0.3	93	49	264
FK17-02	835649	Crystal lithic lapilli tuff	136	137	1	0.044	0.4	66	95	343
FK17-02	835651	Crystal lithic lapilli tuff	137	138	1	0.07	0.5	74	58	275
FK17-02	835652	Crystal lithic lapilli tuff	138	139	1	0.05	0.6	61	62	178
FK17-02	835653	Crystal lithic lapilli tuff	139	140	1	0.403	0.6	197	104	382
FK17-02	835654	Crystal lithic lapilli tuff	140	141	1	0.119	0.6	77	87	436
FK17-02	835655	Crystal lithic lapilli tuff	141	142	1	0.065	0.4	51	84	300
FK17-02	835656	Crystal lithic lapilli tuff	142	143	1	0.023	0.2	114	37	192
FK17-02	835657	Crystal lithic lapilli tuff	143	144	1	0.042	0.4	49	78	263
FK17-02	835658	Crystal lithic lapilli tuff	144	145	1	0.01	0.4	54	48	185
FK17-02	835659	Crystal lithic lapilli tuff	145	146	1	0.037	0.6	54	128	336
FK17-02	835661	Crystal lithic lapilli tuff	146	147	1	0.023	0.2	31	42	402
FK17-02	835662	Crystal lithic lapilli tuff	147	148	1	0.025	<0.2	28	25	144
FK17-02	835663	Crystal lithic lapilli tuff	148	149	1	0.042	0.3	80	70	308
FK17-02	835664	Crystal lithic lapilli tuff	149	150	1	0.062	0.4	87	44	336
FK17-02	835665	Crystal lithic lapilli tuff	150	151	1	0.055	0.6	74	53	254
FK17-02	835666	Crystal lithic lapilli tuff	151	152	1	0.009	0.4	40	219	921
FK17-02	835667	Crystal lithic lapilli tuff	152	153	1	0.007	0.8	146	755	3520
FK17-02	835668	Crystal lithic lapilli tuff	153	154	1	0.002	0.4	29	326	1075
FK17-02	835669	Crystal lithic lapilli tuff	154	155	1	0.003	0.3	43	294	915
FK17-02	835671	Crystal lithic lapilli tuff	155	156	1	0.002	<0.2	27	27	178
FK17-02	835672	Crystal lithic lapilli tuff	156	157	1	0.003	<0.2	22	46	169
FK17-02	835673	Crystal lithic lapilli tuff	157	158	1	0.004	0.2	32	58	257
FK17-02	835674	Crystal lithic lapilli tuff	158	159	1	0.007	0.2	34	156	315
FK17-02	835675	Crystal lithic lapilli tuff	159	160	1	0.004	<0.2	33	9	165
FK17-02	835676	Crystal lithic lapilli tuff	160	161	1	<0.001	<0.2	36	8	157
FK17-02	835677	Crystal lithic lapilli tuff	161	162	1	<0.001	<0.2	24	13	234
FK17-02	835678	Crystal lithic lapilli tuff	162	163	1	<0.001	<0.2	1	2	235
FK17-02	835679	Crystal lithic lapilli tuff	163	164	1	<0.001	<0.2	12	2	176
FK17-02	835681	Crystal lithic lapilli tuff	164	165	1	0.009	<0.2	36	6	137
FK17-02	835682	Crystal lithic lapilli tuff	165	166	1	1.275	1.4	427	103	881
FK17-02	835683	Felsic tuff	166	167	1	0.007	<0.2	90	6	248
FK17-02	835684	Felsic tuff	167	168	1	0.001	0.2	56	57	723
FK17-02	835685	Felsic tuff	168	169	1	<0.001	<0.2	5	18	187
FK17-02	835686	Felsic tuff	169	170	1	<0.001	<0.2	13	102	442
FK17-02	835687	Felsic tuff	170	171	1	0.004	<0.2	8	38	364
FK17-02	835688	Crystal lithic lapilli tuff	171	172	1	0.003	0.3	27	150	502

Hole ID	Sample #	Rock Type	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
FK17-02	835689	Crystal lithic lapilli tuff	172	173	1	0.008	0.4	45	47	265
FK17-02	835691	Crystal lithic lapilli tuff	173	174	1	0.002	0.2	30	27	280
FK17-02	835692	Crystal lithic lapilli tuff	174	175	1	0.011	0.4	47	145	668
FK17-03	835694	Lithic lapilli tuff	131	132	1	0.002	<0.2	4	8	44
FK17-03	835695	Lithic lapilli tuff	132	133	1	0.001	<0.2	8	4	47
FK17-03	835696	Lithic lapilli tuff	133	134	1	<0.001	<0.2	28	6	58
FK17-03	835697	Lithic lapilli tuff	134	135	1	0.002	0.5	87	32	127
FK17-03	835698	Lithic lapilli tuff	135	136	1	0.001	0.2	44	12	87
FK17-03	835699	Lithic lapilli tuff	136	137	1	<0.001	0.2	40	6	64
FK17-03	835701	Lithic lapilli tuff	137	138	1	0.001	<0.2	31	5	70
FK17-03	835702	Lithic lapilli tuff	138	139	1	0.001	<0.2	35	5	68
FK17-03	835703	Lithic lapilli tuff	139	140	1	0.001	<0.2	28	7	51
FK17-03	835704	Lithic lapilli tuff	140	141	1	0.002	<0.2	22	10	38
FK17-03	835705	Crystal lithic lapilli tuff	141	142	1	0.003	<0.2	13	8	65
FK17-03	835706	Crystal lithic lapilli tuff	142	143	1	0.001	<0.2	14	10	32
FK17-03	835707	Crystal lithic lapilli tuff	143	144	1	0.01	0.2	14	14	54
FK17-03	835708	Crystal lithic lapilli tuff	144	145	1	0.007	0.2	20	18	135
FK17-03	835709	Crystal lithic lapilli tuff	145	146	1	0.005	<0.2	17	14	95
FK17-03	835711	Crystal lithic lapilli tuff	146	147	1	0.001	<0.2	11	7	54
FK17-03	835712	Crystal lithic lapilli tuff	147	148	1	0.005	0.3	11	12	50
FK17-03	835713	Crystal lithic lapilli tuff	148	149	1	0.006	0.4	19	14	81
FK17-03	835714	Crystal lithic lapilli tuff	149	150	1	0.021	0.4	57	46	190
FK17-03	835715	Crystal lithic lapilli tuff	150	151	1	0.031	0.4	57	56	313
FK17-03	835716	Crystal lithic lapilli tuff	151	152	1	0.023	0.4	44	42	195
FK17-03	835717	Crystal lithic lapilli tuff	152	153	1	0.086	1	38	195	434
FK17-03	835718	Crystal lithic lapilli tuff	153	154	1	0.172	1.4	104	464	1285
FK17-03	835719	Crystal lithic lapilli tuff	154	155	1	0.075	1	83	173	335
FK17-03	835721	Crystal lithic lapilli tuff	155	156	1	0.075	0.9	81	90	406
FK17-03	835722	Crystal lithic lapilli tuff	156	157	1	0.042	0.7	81	73	256
FK17-03	835723	Lithic lapilli tuff	157	158	1	<0.001	<0.2	6	8	55
FK17-03	835724	Lithic lapilli tuff	158	159	1	<0.001	<0.2	5	5	45
FK17-03	835725	Lithic lapilli tuff	159	160	1	<0.001	<0.2	5	6	43
FK17-03	835726	Lithic lapilli tuff	160	161	1	<0.001	<0.2	12	9	118
FK17-03	835727	Lithic lapilli tuff	161	162	1	0.001	0.2	32	36	148
FK17-03	835728	Lithic lapilli tuff	162	163	1	0.01	1.2	44	80	109
FK17-03	835729	Lithic lapilli tuff	163	164	1	0.002	0.3	28	72	152
FK17-03	835731	Lithic lapilli tuff	164	165	1	0.007	0.5	16	209	1155
FK17-03	835732	Lithic lapilli tuff	165	166	1	0.008	0.4	27	328	1125
FK17-03	835733	Lithic lapilli tuff	166	167	1	0.006	0.4	50	365	1545
FK17-03	835734	Lithic lapilli tuff	167	168	1	0.004	0.2	19	198	475
FK17-03	835735	Lithic lapilli tuff	168	169	1	0.007	0.2	41	27	119
FK17-03	835736	Lithic lapilli tuff	169	170	1	<0.001	<0.2	13	7	151

Hole ID	Sample #	Rock Type	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
FK17-03	835737	Lithic lapilli tuff	170	171	1	0.006	0.2	87	280	1075
FK17-03	835738	Felsic tuff	171	172	1	0.083	1.1	106	145	1470
FK17-03	835739	Felsic tuff	172	173	1	0.041	0.5	33	132	945
FK17-03	835741	Felsic tuff	173	174	1	0.517	2.7	1900	1185	3040
FK17-03	835742	Felsic tuff	174	175	1	0.216	1.1	556	233	1380
FK17-03	835743	Felsic tuff	175	176	1	0.024	0.3	8	120	284
FK17-03	835744	Felsic tuff	176	177	1	0.022	0.5	51	193	1545
FK17-03	835745	Felsic tuff	177	178	1	0.313	2.1	286	448	5180
FK17-03	835746	Felsic tuff	178	179	1	0.273	1.9	294	440	2220
FK17-03	835747	Felsic crystal lithic lapilli tuff	179	180	1	0.136	0.3	32	157	935
FK17-03	835748	Felsic crystal lithic lapilli tuff	180	181	1	0.006	0.3	16	140	1050
FK17-03	835749	Felsic crystal lithic lapilli tuff	181	182	1	0.002	0.2	7	145	953
FK17-03	835751	Felsic crystal lithic lapilli tuff	182	183	1	0.002	0.2	20	116	998
FK17-03	835752	Felsic crystal lithic lapilli tuff	183	184	1	0.002	0.2	19	165	915
FK17-03	835753	Felsic crystal lithic lapilli tuff	184	185	1	0.003	0.2	13	187	1185
FK17-03	835754	Felsic crystal lithic lapilli tuff	185	186	1	0.003	0.2	22	124	1095
FK17-03	835755	Felsic crystal lithic lapilli tuff	186	187	1	0.004	0.5	28	477	2440
FK17-03	835756	Felsic crystal lithic lapilli tuff	187	188	1	0.005	0.5	32	458	2050
FK17-03	835757	Felsic crystal lithic lapilli tuff	188	189	1	0.002	0.5	34	349	1565
FK17-03	835758	Felsic crystal lithic lapilli tuff	189	190	1	0.002	0.5	23	394	1730
FK17-03	835759	Felsic crystal lithic lapilli tuff	190	191	1	0.003	0.3	20	386	1645
FK17-03	835761	Felsic crystal lithic lapilli tuff	191	192	1	0.002	0.3	7	362	2220
FK17-03	835762	Felsic crystal lithic lapilli tuff	192	193	1	0.002	0.3	28	222	1115
FK17-03	835763	Felsic crystal lithic lapilli tuff	193	194	1	0.003	0.6	47	356	1835
FK17-03	835764	Felsic crystal lithic lapilli tuff	194	195	1	0.001	0.3	19	310	1275
FK17-03	835765	Felsic crystal lithic lapilli tuff	195	196	1	<0.001	<0.2	6	125	642
FK17-03	835766	Felsic crystal lithic lapilli tuff	196	197	1	0.003	0.2	9	213	1260
FK17-03	835767	Felsic crystal lithic lapilli tuff	197	198	1	0.004	0.2	8	194	1275
FK17-03	835768	Felsic crystal lithic lapilli tuff	198	199	1	0.004	0.3	7	399	2000
FK17-03	835769	Felsic crystal lithic lapilli tuff	199	200	1	0.003	0.4	17	281	1475
FK17-03	835771	Felsic crystal lithic lapilli tuff	200	201	1	0.001	0.3	14	210	993
FK17-03	835772	Felsic crystal lithic lapilli tuff	201	202	1	0.003	0.3	10	257	1110
FK17-03	835773	Felsic crystal lithic lapilli tuff	202	203	1	0.002	0.3	9	245	1555
FK17-03	835774	Felsic crystal lithic lapilli tuff	203	204	1	0.003	0.4	56	262	1130
FK17-03	835775	Felsic crystal lithic lapilli tuff	204	205	1	0.001	0.4	20	192	796
FK17-03	835776	Felsic crystal lithic lapilli tuff	205	206	1	<0.001	0.3	10	65	325
FK17-03	835777	Felsic crystal lithic lapilli tuff	206	207	1	0.003	0.4	11	137	542
FK17-03	835778	Felsic crystal lithic lapilli tuff	207	208	1	0.004	0.8	18	167	818
FK17-03	835779	Felsic crystal lithic lapilli tuff	208	209	1	0.004	0.7	22	131	394
FK17-03	835781	Felsic crystal lithic lapilli tuff	209	210	1	0.003	0.4	18	189	867
FK17-03	835782	Felsic crystal lithic lapilli tuff	210	211	1	0.002	0.4	18	127	599
FK17-03	835783	Felsic crystal lithic lapilli tuff	211	212	1	0.001	0.4	22	122	502

Hole ID	Sample #	Rock Type	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
FK17-03	835784	Felsic crystal lithic lapilli tuff	212	213	1	0.003	0.3	25	209	992
FK17-03	835785	Felsic crystal lithic lapilli tuff	213	214	1	0.004	0.3	10	199	772
FK17-03	835786	Felsic crystal lithic lapilli tuff	214	215	1	0.003	0.4	18	245	1025
FK17-03	835787	Felsic crystal lithic lapilli tuff	215	216	1	0.003	0.6	25	401	1475
FK17-03	835788	Felsic crystal lithic lapilli tuff	216	217	1	0.003	0.6	27	432	1490
FK17-03	835789	Felsic crystal lithic lapilli tuff	217	218	1	0.002	0.3	14	343	1430
FK17-03	835791	Felsic crystal lithic lapilli tuff	218	219	1	0.001	0.3	7	255	1040
FK17-03	835792	Felsic crystal lithic lapilli tuff	219	220	1	0.007	0.7	74	345	1090
FK17-03	835793	Felsic crystal lithic lapilli tuff	220	221	1	0.001	0.4	11	354	1585
FK17-03	835794	Felsic crystal lithic lapilli tuff	221	222	1	0.001	0.3	17	249	1040
FK17-03	835795	Felsic crystal lithic lapilli tuff	222	223	1	<0.001	0.2	9	152	1080
FK17-03	835796	Felsic crystal lithic lapilli tuff	223	224	1	<0.001	0.2	7	122	606
FK17-03	835797	Felsic crystal lithic lapilli tuff	224	225	1	<0.001	0.2	6	73	388
FK17-03	835798	Felsic crystal lithic lapilli tuff	225	226	1	0.001	0.2	6	172	764
FK17-03	835799	Felsic crystal lithic lapilli tuff	226	227	1	0.001	0.3	10	239	902
FK17-03	835801	Felsic crystal lithic lapilli tuff	227	228	1	0.001	0.7	37	199	1015
FK17-03	835802	Felsic crystal lithic lapilli tuff	228	229	1	0.005	0.5	30	168	992
FK17-03	835803	Felsic crystal lithic lapilli tuff	229	230	1	0.002	0.4	71	281	1280
FK17-03	835804	Felsic crystal lithic lapilli tuff	230	231	1	<0.001	<0.2	20	146	824
FK17-03	835805	Felsic crystal lithic lapilli tuff	231	232	1	0.002	0.2	16	188	841
FK17-03	835806	Felsic crystal lithic lapilli tuff	232	233	1	<0.001	<0.2	11	162	854
FK17-03	835807	Felsic crystal lithic lapilli tuff	233	234	1	<0.001	<0.2	6	210	918
FK17-03	835808	Felsic crystal lithic lapilli tuff	234	235	1	0.001	0.2	11	208	1010
FK17-03	835809	Felsic crystal lithic lapilli tuff	235	236	1	0.001	0.2	10	129	885
FK17-03	835811	Felsic crystal lithic lapilli tuff	236	237	1	<0.001	<0.2	3	31	570
FK17-03	835812	Felsic crystal lithic lapilli tuff	237	238	1	0.002	0.3	19	521	1685
FK17-03	835813	Felsic crystal lithic lapilli tuff	238	239	1	0.012	0.5	34	590	1975
FK17-03	835814	Breccia	239	240	1	0.002	0.5	40	539	1810
FK17-03	835815	Breccia	240	241	1	0.001	0.8	92	416	1680
FK17-03	835816	Breccia	241	242	1	<0.001	0.4	61	11	237
FK17-03	835817	Crystal lithic lapilli tuff	242	243	1	<0.001	<0.2	5	5	211
FK17-03	835818	Crystal lithic lapilli tuff	243	244	1	0.004	1.5	25	58	243
FK17-03	835819	Crystal lithic lapilli tuff	244	245	1	0.006	0.8	21	98	143
FK17-03	835821	Felsic crystal lithic lapilli tuff	245	246	1	<0.001	<0.2	4	5	287
FK17-03	835822	Felsic crystal lithic lapilli tuff	246	247	1	<0.001	<0.2	28	6	128
FK17-03	835823	Felsic crystal lithic lapilli tuff	247	248	1	0.001	0.3	93	8	142
FK17-03	835824	Felsic crystal lithic lapilli tuff	248	249	1	<0.001	<0.2	30	3	77
FK17-03	835825	Felsic crystal lithic lapilli tuff	249	250	1	0.001	0.3	17	24	81
FK17-03	835826	Felsic crystal lithic lapilli tuff	250	251	1	0.015	0.6	60	38	195
FK17-03	835827	Felsic crystal lithic lapilli tuff	251	252	1	<0.001	0.2	11	17	224
FK17-03	835828	Felsic crystal lithic lapilli tuff	252	253	1	0.001	0.3	20	89	355
FK17-03	835829	Felsic crystal lithic lapilli tuff	253	254	1	0.002	0.2	8	214	614

Hole ID	Sample #	Rock Type	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
FK17-03	835831	Felsic crystal lithic lapilli tuff	254	255	1	0.005	0.3	21	160	450
FK17-03	835832	Felsic crystal lithic lapilli tuff	255	256	1	0.002	0.3	22	16	108
FK17-03	835833	Felsic crystal lithic lapilli tuff	256	257	1	<0.001	0.3	25	8	97
FK17-03	835834	Felsic crystal lithic lapilli tuff	257	258	1	<0.001	<0.2	2	5	120
FK17-03	835835	Felsic crystal lithic lapilli tuff	258	259	1	<0.001	<0.2	2	5	119
FK17-03	835836	Felsic crystal lithic lapilli tuff	259	260	1	<0.001	<0.2	5	5	116
FK17-03	835837	Felsic crystal lithic lapilli tuff	260	261	1	<0.001	<0.2	15	5	90
FK17-03	835838	Felsic crystal lithic lapilli tuff	261	262	1	<0.001	0.3	15	8	105
FK17-03	835839	Felsic crystal lithic lapilli tuff	262	263	1	<0.001	0.3	17	7	107
FK17-03	835841	Felsic crystal lithic lapilli tuff	263	264	1	0.001	0.2	14	7	122
FK17-03	835842	Felsic crystal lithic lapilli tuff	264	265	1	<0.001	0.2	25	9	138
FK17-03	835843	Felsic crystal lithic lapilli tuff	265	266	1	<0.001	<0.2	3	6	138
FK17-03	835844	Felsic crystal lithic lapilli tuff	266	267	1	<0.001	<0.2	5	5	123
FK17-03	835845	Felsic crystal lithic lapilli tuff	267	268	1	<0.001	<0.2	11	3	120
FK17-03	835846	Felsic crystal lithic lapilli tuff	268	269	1	<0.001	<0.2	4	4	143
FK17-04	835848	Pl-phyric coherent	10	11	1	0.004	<0.2	88	6	100
FK17-04	835849	Pl-phyric coherent	11	12	1	0.002	<0.2	17	7	105
FK17-04	835851	Pl-phyric coherent	12	13	1	0.002	<0.2	32	6	89
FK17-04	835852	Pl-phyric coherent	13	14	1	0.004	<0.2	15	10	118
FK17-04	835853	Pl-phyric coherent	14	15	1	0.094	1	1030	16	95
FK17-04	835854	Pl-phyric coherent	15	16	1	0.026	<0.2	129	6	124
FK17-04	835855	Pl-phyric coherent	16	17	1	0.759	1.3	1140	14	127
FK17-04	835856	Pl-phyric coherent	17	18	1	2.62	1.8	1300	20	145
FK17-04	835857	Mineralized bx	18	19	1	9.03	7	8140	38	151
FK17-04	835858	Mineralized bx	19	20	1	14.05	14.7	18350	45	212
FK17-04	835859	Mineralized bx	20	21	1	33.8	28.2	39500	67	331
FK17-04	835861	Mineralized bx	21	22	1	4.64	7.3	17950	43	198
FK17-04	835862	Mineralized bx	22	23	1	1.525	2.4	3670	21	147
FK17-04	835863	Pl-phyric coherent	23	24	1	0.32	0.5	83	34	620
FK17-04	835864	Pl-phyric coherent	24	25	1	0.095	0.2	35	14	213
FK17-04	835865	Pl-phyric coherent	25	26	1	0.222	0.2	66	14	167
FK17-04	835866	Pl-phyric coherent	26	27	1	0.037	0.3	4	9	148
FK17-04	835867	Pl-phyric coherent	27	28	1	0.026	0.3	6	10	191
FK17-04	835868	Pl-phyric coherent	28	29	1	0.035	<0.2	6	6	111
FK17-04	835869	Pl-phyric coherent	29	30	1	0.607	0.5	344	9	138
FK17-04	835871	Pl-phyric coherent	30	31	1	0.444	1.7	3620	11	168
FK17-04	835872	Pl-phyric coherent	31	32	1	0.134	0.3	298	13	165
FK17-04	835873	Pl-phyric coherent	32	33	1	0.538	1.2	759	15	227
FK17-04	835874	Pl-phyric coherent	33	34	1	0.182	0.4	35	12	165
FK17-04	835875	Pl-phyric coherent	34	35	1	0.019	0.5	20	8	187
FK17-04	835876	Pl-phyric coherent	35	36	1	0.088	0.3	9	7	136
FK17-04	835877	Pl-phyric coherent	36	37	1	0.013	<0.2	3	4	142

Hole ID	Sample #	Rock Type	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
FK17-04	835878	Pl-phyric coherent	37	38	1	0.009	<0.2	15	4	126
FK17-04	835879	Pl-phyric coherent	38	39	1	0.048	<0.2	5	6	126
FK17-04	835881	Pl-phyric coherent	39	40	1	0.002	<0.2	2	4	121
FK17-04	835882	Pl-phyric coherent	40	41	1	0.013	<0.2	1	4	130
FK17-04	835883	Pl-phyric coherent	41	42	1	0.025	0.2	323	12	137
FK17-04	835884	Pl-phyric coherent	42	43	1	0.006	<0.2	240	6	157
FK17-04	835885	Pl-phyric coherent	43	44	1	0.011	<0.2	78	3	137
FK17-04	835886	Pl-phyric coherent	44	45	1	0.002	<0.2	90	5	102
FK17-04	835887	Pl-phyric coherent	45	46	1	0.002	<0.2	6	5	123
FK17-04	835888	Pl-phyric coherent	46	47	1	0.005	<0.2	10	5	166
FK17-04	835889	Pl-phyric coherent	47	48	1	1.735	0.7	60	5	149
FK17-04	835891	Pl-phyric coherent	48	49	1	0.097	0.3	17	4	179
FK17-04	835892	Pl-phyric coherent	49	50	1	3.53	3.2	1805	21	202
FK17-04	835893	Pl-phyric coherent	50	51	1	0.16	1.9	1190	31	2300
FK17-04	835894	Pl-phyric coherent	51	52	1	0.549	0.8	340	27	688
FK17-04	835895	Pl-phyric coherent	52	53	1	0.005	<0.2	8	4	133
FK17-04	835896	Pl-phyric coherent	53	54	1	0.002	<0.2	2	3	135
FK17-04	835897	Pl-phyric coherent	54	55	1	0.022	1.2	1350	6	158
FK17-04	835898	Pl-phyric coherent	55	56	1	1.5	23.6	18400	23	111
FK17-04	835899	Pl-phyric coherent	56	57	1	0.121	0.7	339	12	158
FK17-04	835901	Pl-phyric coherent	57	58	1	0.042	0.4	92	15	148
FK17-04	835902	Pl-phyric coherent	58	59	1	0.094	0.2	208	6	148
FK17-04	835903	Pl-phyric coherent	59	60	1	0.004	0.2	183	5	126
FK17-04	835904	Pl-phyric coherent	60	61	1	0.774	0.6	90	4	141
FK17-04	835905	Pl-phyric coherent	61	62	1	0.057	0.2	99	5	129
FK17-04	835906	Pl-phyric coherent	62	63	1	0.862	0.4	249	9	155
FK17-04	835907	Pl-phyric coherent	63	64	1	0.024	<0.2	216	3	146
FK17-04	835908	Pl-phyric coherent	64	65	1	0.005	<0.2	152	3	118
FK17-04	835909	Pl-phyric coherent	65	66	1	0.01	<0.2	19	5	120
FK17-04	835911	Pl-phyric coherent	66	67	1	0.003	<0.2	2	<2	95
FK17-04	835912	Pl-phyric coherent	67	68	1	0.05	<0.2	1	2	86
FK17-04	835913	Pl-phyric coherent	68	69	1	0.05	<0.2	6	3	82
FK17-04	835914	Pl-phyric coherent	69	70	1	0.017	<0.2	1	3	79
FK17-04	835915	Pl-phyric coherent	70	71	1	0.006	<0.2	1	2	92
FK17-04	835916	Pl-phyric coherent	71	72	1	0.009	<0.2	1	2	101
FK17-04	835917	Pl-phyric coherent	72	73	1	0.221	<0.2	4	5	75
FK17-04	835918	Pl-phyric coherent	73	74	1	0.007	<0.2	3	4	109
FK17-04	835919	Pl-phyric coherent	74	75	1	0.001	<0.2	2	2	94
FK17-04	835921	Pl-phyric coherent	75	76	1	0.001	<0.2	6	4	97
FK17-04	835922	Pl-phyric coherent	76	77	1	0.011	0.2	48	13	96
FK17-04	835923	Pl-phyric coherent	77	78	1	0.005	<0.2	76	6	116
FK17-04	835924	Pl-phyric coherent	78	79	1	0.006	0.2	720	6	166

Hole ID	Sample #	Rock Type	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
FK17-04	835925	Pl-phyric coherent	79	80	1	0.051	0.4	68	13	208
FK17-04	835926	Pl-phyric coherent	80	81	1	0.118	0.3	64	8	162
FK17-04	835927	Pl-phyric coherent	81	82	1	0.004	<0.2	25	3	169
FK17-04	835928	Pl-phyric coherent	82	83	1	0.002	<0.2	1	4	150
FK17-04	835929	Pl-phyric coherent	83	84	1	0.053	<0.2	10	3	149
FK17-04	835931	Pl-phyric coherent	84	85	1	0.13	<0.2	113	3	163
FK17-04	835932	Pl-phyric coherent	85	86	1	0.362	0.2	167	3	154
FK17-04	835933	Pl-phyric coherent	86	87	1	0.015	<0.2	29	4	140
FK17-04	835934	Pl-phyric coherent	87	88	1	0.001	<0.2	14	3	132
FK17-04	835935	Pl-phyric coherent	88	89	1	0.048	<0.2	17	3	157
FK17-04	835936	Pl-phyric coherent	89	90	1	0.019	<0.2	262	5	153
FK17-04	835937	Pl-phyric coherent	90	91	1	0.006	<0.2	88	6	146
FK17-04	835938	Pl-phyric coherent	91	92	1	0.025	<0.2	31	6	176
FK17-04	835939	Pl-phyric coherent	92	93	1	0.038	0.3	211	12	155
FK17-04	835941	Pl-phyric coherent	93	94	1	0.013	<0.2	20	6	149
FK17-04	835942	Pl-phyric coherent	94	95	1	0.011	<0.2	11	5	121
FK17-04	835943	Pl-phyric coherent	95	96	1	0.005	<0.2	2	3	106
FK17-04	835944	Pl-phyric coherent	96	97	1	0.033	0.2	142	8	143
FK17-04	835945	Pl-phyric coherent	97	98	1	0.031	<0.2	11	9	128
FK17-04	835946	Pl-phyric coherent	98	99	1	0.036	0.4	344	8	150
FK17-04	835947	Pl-phyric coherent	99	100	1	0.014	<0.2	130	6	198
FK17-04	835948	Pl-phyric coherent	100	101	1	0.013	1.1	1715	7	93
FK17-04	835949	Pl-phyric coherent	101	102	1	0.018	<0.2	20	6	161
FK17-04	835951	Pl-phyric coherent	102	103	1	0.102	<0.2	65	5	98
FK17-04	835952	Pl-phyric coherent	103	104	1	<0.001	<0.2	7	6	87
FK17-04	835953	Pl-phyric coherent	104	105	1	<0.001	0.2	107	6	113
FK17-04	835954	Pl-phyric coherent	105	106	1	0.005	<0.2	1	3	73
FK17-04	835955	Pl-phyric coherent	106	107	1	0.009	<0.2	1	4	64
FK17-04	835956	Pl-phyric coherent	107	108	1	0.002	<0.2	1	2	65
FK17-04	835957	Pl-phyric coherent	108	109	1	0.002	<0.2	1	5	55
FK17-04	835958	Pl-phyric coherent	109	110	1	0.003	<0.2	<1	3	67
FK17-04	835959	Pl-phyric coherent	110	111	1	0.007	<0.2	1	4	73
FK17-04	835961	Pl-phyric coherent	111	112	1	0.001	<0.2	2	7	373
FK17-04	835962	Pl-phyric coherent	112	113	1	<0.001	<0.2	3	6	77
FK17-04	835963	Pl-phyric coherent	113	114	1	0.003	<0.2	1	4	78
FK17-04	835964	Pl-phyric coherent	114	115	1	0.001	<0.2	1	5	76
FK17-04	835965	Pl-phyric coherent	115	116	1	<0.001	<0.2	1	7	83
FK17-04	835966	Pl-phyric coherent	116	117	1	<0.001	0.2	3	320	1625
FK17-04	835967	Pl-phyric coherent	117	118	1	0.001	<0.2	2	27	170
FK17-04	835968	Pl-phyric coherent	118	119	1	0.029	<0.2	2	54	369
FK17-04	835969	Pl-phyric coherent	119	120	1	0.002	<0.2	1	36	180
FK17-04	835971	Pl-phyric coherent	120	121	1	0.023	<0.2	7	75	252

Hole ID	Sample #	Rock Type	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
FK17-04	835972	Pl-phyric coherent	121	122	1	0.006	<0.2	17	30	145
FK17-04	835973	Pl-phyric coherent	122	123	1	0.009	<0.2	2	11	105
FK17-04	835974	Pl-phyric coherent	123	124	1	<0.001	<0.2	2	9	107
FK17-04	835975	Pl-phyric coherent	124	125	1	0.021	<0.2	2	17	136
FK17-04	835976	Pl-phyric coherent	125	126	1	0.006	<0.2	2	24	110
FK17-04	835977	Pl-phyric coherent	126	127	1	0.007	<0.2	2	9	105
FK17-04	835978	Pl-phyric coherent	127	128	1	0.004	0.2	3	131	313
FK17-04	835979	Pl-phyric coherent	128	129	1	0.012	0.3	3	124	321
FK17-04	835981	Pl-phyric coherent	129	130	1	0.002	<0.2	4	70	111
FK17-04	835982	Pl-phyric coherent	130	131	1	0.001	<0.2	3	7	84
FK17-04	835983	Pl-phyric coherent	131	132	1	0.001	<0.2	2	54	128
FK17-04	835984	Pl-phyric coherent	132	133	1	0.002	<0.2	3	14	63
FK17-04	835985	Pl-phyric coherent	133	134	1	<0.001	<0.2	2	7	61
FK17-04	835986	Pl-phyric coherent	134	135	1	0.006	<0.2	1	12	72
FK17-04	835987	Pl-phyric coherent	135	136	1	0.001	<0.2	1	5	57
FK17-04	835988	Pl-phyric coherent	136	137	1	0.001	<0.2	1	5	56
FK17-04	835989	Pl-phyric coherent	137	138	1	<0.001	<0.2	1	10	79
FK17-04	835991	Pl-phyric coherent	138	139	1	0.001	<0.2	16	95	338
FK17-04	835992	Pl-phyric coherent	139	140	1	<0.001	<0.2	2	5	65
FK17-04	835993	Pl-phyric coherent	140	141	1	0.001	<0.2	2	5	41
FK17-04	835994	Pl-phyric coherent	141	142	1	0.018	<0.2	3	4	37
FK17-04	835995	Pl-phyric coherent	142	143	1	0.001	<0.2	1	4	68
FK17-04	835996	Pl-phyric coherent	143	144	1	0.006	<0.2	1	6	61
FK17-04	835997	Pl-phyric coherent	144	145	1	<0.001	<0.2	1	6	58
FK17-04	835998	Pl-phyric coherent	145	146	1	<0.001	<0.2	2	3	35
FK17-04	835999	Pl-phyric coherent	146	147	1	<0.001	<0.2	1	4	65
FK17-04	836001	Pl-phyric coherent	147	148	1	<0.001	<0.2	1	4	61
FK17-04	836002	Pl-phyric coherent	148	149	1	<0.001	<0.2	1	5	44
FK17-04	836003	Pl-phyric coherent	149	150	1	<0.001	<0.2	1	3	44
FK17-04	836004	Pl-phyric coherent	150	151	1	<0.001	<0.2	1	3	31
FK17-04	836005	Pl-phyric coherent	151	152	1	0.001	<0.2	1	3	70
FK17-04	836006	Pl-phyric coherent	152	153	1	0.006	<0.2	34	85	499
FK17-04	836007	Pl-phyric coherent	153	154	1	0.016	0.8	81	766	4190
FK17-04	836008	Pl-phyric coherent	154	155	1	0.104	1.7	431	171	845
FK17-04	836009	Pl-phyric coherent	155	156	1	0.029	3.3	2350	90	244
FK17-04	836011	Pl-phyric coherent	156	157	1	0.062	5.6	5060	126	2760
FK17-04	836012	Pl-phyric coherent	157	158	1	0.057	1.7	602	180	4090
FK17-04	836013	Pl-phyric coherent	158	159	1	0.012	<0.2	8	51	874
FK17-04	836014	Pl-phyric coherent	159	160	1	0.021	0.9	30	195	4420
FK17-04	836015	Pl-phyric coherent	160	161	1	0.029	0.7	92	75	3620
FK17-04	836016	Pl-phyric coherent	161	162	1	0.146	1.2	347	64	2920
FK17-04	836017	Pl-phyric coherent	162	163	1	0.101	0.6	59	27	4550

Hole ID	Sample #	Rock Type	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
FK17-04	836018	Pl-phyric coherent	163	164	1	0.08	1.3	660	68	3440
FK17-04	836019	Pl-phyric coherent	164	165	1	0.03	0.2	12	56	1030
FK17-04	836021	Pl-phyric coherent	165	166	1	0.147	2.7	419	191	9740
FK17-04	836022	Pl-phyric coherent	166	167	1	0.123	5.9	4890	193	2420
FK17-04	836023	Pl-phyric coherent	167	168	1	0.042	6.8	4530	267	2470
FK17-04	836024	Pl-phyric coherent	168	169	1	0.03	0.8	25	125	5520
FK17-04	836025	Pl-phyric coherent	169	170	1	0.118	0.5	11	398	2340
FK17-04	836026	Pl-phyric coherent	170	171	1	0.115	0.7	6	238	833
FK17-04	836027	Pl-phyric coherent	171	172	1	0.053	<0.2	4	10	1090
FK17-04	836028	Pl-phyric coherent	172	173	1	0.004	<0.2	35	4	321
FK17-04	836029	Pl-phyric coherent	173	174	1	0.023	<0.2	7	5	269
FK17-04	836031	Pl-phyric coherent	174	175	1	0.019	<0.2	3	3	247
FK17-04	836032	Pl-phyric coherent	175	176	1	0.015	<0.2	4	5	119
FK17-04	836033	Pl-phyric coherent	176	177	1	0.192	<0.2	12	6	109
FK17-04	836034	Pl-phyric coherent	177	178	1	0.085	<0.2	4	5	106
FK17-04	836035	Pl-phyric coherent	178	179	1	0.083	<0.2	7	5	109
FK17-04	836036	Pl-phyric coherent	179	180	1	0.012	<0.2	6	4	107
FK17-04	836037	Pl-phyric coherent	180	181	1	0.003	<0.2	2	5	107
FK17-04	836038	Pl-phyric coherent	181	182	1	<0.001	<0.2	3	16	151
FK17-04	836039	Pl-phyric coherent	182	183	1	0.088	0.5	65	52	5210
FK17-04	836041	Pl-phyric coherent	183	184	1	0.145	0.7	264	82	2430
FK17-04	836042	Pl-phyric coherent	184	185	1	0.053	0.3	43	166	1675
FK17-04	836043	Pl-phyric coherent	185	186	1	0.264	0.5	73	267	4410
FK17-04	836044	Pl-phyric coherent	186	187	1	0.029	3	617	131	4830
FK17-04	836045	Pl-phyric coherent	187	188	1	0.009	0.4	22	57	1710
FK17-04	836046	Pl-phyric coherent	188	189	1	0.04	0.4	32	64	1455
FK17-04	836047	Pl-phyric coherent	189	190	1	0.002	<0.2	12	45	410
FK17-04	836048	Pl-phyric coherent	190	191	1	0.003	0.2	48	29	812
FK17-04	836049	Pl-phyric coherent	191	192	1	0.012	0.3	113	19	586
FK17-04	836051	Pl-phyric coherent	192	193	1	0.032	0.5	74	32	508
FK17-04	836052	Pl-phyric coherent	193	194	1	0.764	1.6	192	72	3680
FK17-04	836053	Pl-phyric coherent	194	195	1	0.016	0.8	489	18	204
FK17-04	836054	Pl-phyric coherent	195	196	1	0.386	3.5	547	51	286
FK17-04	836055	Pl-phyric coherent	196	197	1	0.405	4.5	1245	59	232
FK17-04	836056	Pl-phyric coherent	197	198	1	0.415	2.6	1655	57	1255
FK17-04	836057	Pl-phyric coherent	198	199	1	0.106	1	1015	32	2050
FK17-04	836058	Pl-phyric coherent	199	200	1	0.198	1.3	884	46	657
FK17-04	836059	Pl-phyric coherent	200	201	1	0.318	1.5	856	136	254
FK17-04	836061	Pl-phyric coherent	201	202	1	0.255	1	144	168	550
FK17-04	836062	Pl-phyric coherent	202	203	1	6.62	6.3	3650	92	373
FK17-04	836063	Pl-phyric coherent	203	204	1	1.12	1.6	1640	67	354
FK17-04	836064	Pl-phyric coherent	204	205	1	3.54	6.5	9300	267	2790

Hole ID	Sample #	Rock Type	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
FK17-04	836065	Pl-phyrlic coherent	205	206	1	0.452	5.4	5430	90	490
FK17-04	836066	Pl-phyrlic coherent	206	207	1	0.186	1	888	40	436
FK17-04	836067	Pl-phyrlic coherent	207	208	1	0.026	0.5	254	31	390
FK17-04	836068	Pl-phyrlic coherent	208	209	1	<0.001	0.3	30	14	216
FK17-04	836069	Pl-phyrlic coherent	209	210	1	<0.001	<0.2	72	5	191
FK17-04	836071	Pl-phyrlic coherent	210	211	1	0.002	<0.2	100	4	174
FK17-04	836072	Pl-phyrlic coherent	211	212	1	<0.001	<0.2	11	3	193
FK17-04	836073	Pl-phyrlic coherent	212	213	1	0.016	<0.2	19	10	235
FK17-04	836074	Pl-phyrlic coherent	213	214	1	0.007	1.1	10	7	176
FK17-04	836075	Pl-phyrlic coherent	214	215	1	0.001	<0.2	22	5	197
FK17-04	836076	Pl-phyrlic coherent	215	216	1	0.008	<0.2	22	10	147
FK17-04	836077	Pl-phyrlic coherent	216	217	1	0.018	<0.2	3	6	195
FK17-04	836078	Pl-phyrlic coherent	217	218	1	0.042	0.2	27	13	160
FK17-04	836079	Pl-phyrlic coherent	218	219	1	0.007	<0.2	6	12	142
FK17-04	836081	Pl-phyrlic coherent	219	220	1	0.002	<0.2	6	7	165
FK17-04	836082	Pl-phyrlic coherent	220	221	1	0.006	<0.2	8	12	556
FK17-04	836083	Pl-phyrlic coherent	221	222	1	0.008	0.4	442	33	2770
FK17-04	836084	Pl-phyrlic coherent	222	223	1	0.224	0.6	835	75	4990
FK17-04	836085	Pl-phyrlic coherent	223	224	1	0.604	0.9	17	59	7540
FK17-04	836086	Pl-phyrlic coherent	224	225	1	0.055	0.4	58	38	3010
FK17-04	836087	Pl-phyrlic coherent	225	226	1	0.014	0.4	8	29	682
FK17-04	836088	Pl-phyrlic coherent	226	227	1	0.021	0.3	25	24	2450
FK17-04	836089	Pl-phyrlic coherent	227	228	1	0.011	0.3	81	18	1900
FK17-04	836091	Pl-phyrlic coherent	228	229	1	0.02	<0.2	13	7	189
FK17-04	836092	Pl-phyrlic coherent	229	230	1	0.037	<0.2	40	12	177
FK17-04	836093	Pl-phyrlic coherent	230	231	1	0.005	<0.2	8	10	192
FK17-04	836094	Pl-phyrlic coherent	231	232	1	0.036	<0.2	2	5	165
FK17-04	836095	Pl-phyrlic coherent	232	233	1	0.001	0.2	143	9	124
FK17-04	836096	Pl-phyrlic coherent	233	234	1	0.004	<0.2	2	3	85
FK17-04	836097	Pl-phyrlic coherent	234	235	1	0.001	<0.2	3	3	60
FK17-04	836098	Pl-phyrlic coherent	235	236	1	0.003	<0.2	3	4	64
FK17-04	836099	Pl-phyrlic coherent	236	237	1	<0.001	<0.2	2	6	81
FK17-04	836101	Pl-phyrlic coherent	237	238	1	<0.001	<0.2	1	5	75
FK17-04	836102	Pl-phyrlic coherent	238	239	1	<0.001	<0.2	<1	10	68
FK17-04	836103	Pl-phyrlic coherent	239	240	1	<0.001	0.4	176	13	81
FK17-04	836104	Pl-phyrlic coherent	240	241	1	<0.001	<0.2	314	11	74
FK17-04	836105	Pl-phyrlic coherent	241	242	1	0.303	0.3	156	9	100
FK17-04	836106	Pl-phyrlic coherent	242	243	1	0.042	<0.2	132	6	112
FK17-04	836107	Pl-phyrlic coherent	243	244	1	0.041	0.3	244	7	127
FK17-04	836108	Pl-phyrlic coherent	244	245	1	0.002	<0.2	1	3	150
FK17-04	836109	Pl-phyrlic coherent	245	246	1	0.009	0.2	18	11	207
FK17-04	836111	Pl-phyrlic coherent	246	247	1	0.002	<0.2	8	4	152

Hole ID	Sample #	Rock Type	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
FK17-04	836112	Pl-phyric coherent	247	248	1	0.014	<0.2	16	6	165
FK17-04	836113	Pl-phyric coherent	248	249	1	0.005	<0.2	6	6	128
FK17-04	836114	Pl-phyric coherent	249	250	1	0.005	<0.2	48	7	179
FK17-04	836115	Pl-phyric coherent	250	251	1	<0.001	<0.2	41	6	189
FK17-04	836116	Pl-phyric coherent	251	252	1	0.002	<0.2	38	9	230
FK17-04	836117	Pl-phyric coherent	252	253	1	0.01	0.3	16	12	3830
FK17-04	836118	Pl-phyric coherent	253	254	1	0.003	<0.2	17	23	1600
FK17-04	836119	Pl-phyric coherent	254	255	1	0.003	<0.2	15	55	706
FK17-04	836121	Pl-phyric coherent	255	256	1	0.009	<0.2	285	6	133
FK17-04	836122	Pl-phyric coherent	256	257	1	0.001	<0.2	20	7	87
FK17-04	836123	Pl-phyric coherent	257	258	1	<0.001	<0.2	1	7	80
FK17-04	836124	Pl-phyric coherent	258	259	1	<0.001	<0.2	<1	8	77
FK17-04	836125	Pl-phyric coherent	259	260	1	0.004	0.2	6	7	88
FK17-04	836126	Pl-phyric coherent	260	261	1	0.004	<0.2	14	7	104
FK17-04	836127	Pl-phyric coherent	261	262	1	<0.001	<0.2	<1	7	85
FK17-04	836128	Pl-phyric coherent	262	263	1	<0.001	<0.2	7	5	84
FK17-04	836129	Pl-phyric coherent	263	264	1	0.012	<0.2	28	5	109
FK17-04	836131	Pl-phyric coherent	264	265	1	0.061	1	101	7	131
FK17-04	836132	Pl-phyric coherent	265	266	1	0.012	0.4	56	4	156
FK17-04	836133	Pl-phyric coherent	266	267	1	<0.001	<0.2	196	3	170
FK17-04	836134	Pl-phyric coherent	267	268	1	0.067	1.4	277	12	114
FK17-04	836135	Pl-phyric coherent	268	269	1	0.014	<0.2	60	4	161
FK17-04	836136	Pl-phyric coherent	269	270	1	0.004	<0.2	57	9	157
FK17-04	836137	Pl-phyric coherent	270	271	1	0.005	0.4	297	9	124
FK17-04	836138	Pl-phyric coherent	271	272	1	0.008	0.5	414	9	128
FK17-04	836139	Pl-phyric coherent	272	273	1	0.004	0.2	49	6	138
FK17-04	836141	Pl-phyric coherent	273	274	1	0.003	0.2	1	2	78
FK17-04	836142	Pl-phyric coherent	274	275	1	0.005	<0.2	1	5	67
FK17-04	836143	Pl-phyric coherent	275	276	1	0.001	<0.2	4	4	101
FK17-04	836144	Pl-phyric coherent	276	277	1	<0.001	0.2	102	8	109
FK17-04	836145	Pl-phyric coherent	277	278	1	0.001	0.5	682	3	95
FK17-04	836146	Pl-phyric coherent	278	279	1	0.001	0.3	212	4	71
FK17-04	836147	Pl-phyric coherent	279	280	1	0.007	0.7	773	13	162
FK17-04	836148	Pl-phyric coherent	280	281	1	<0.001	<0.2	72	3	110
FK17-04	836149	Pl-phyric coherent	281	282	1	0.024	0.6	49	15	115
FK17-04	836151	Pl-phyric coherent	282	283	1	0.053	2.1	22	32	88
FK17-04	836152	Pl-phyric coherent	283	284	1	0.038	1.2	18	21	74
FK17-04	836153	Pl-phyric coherent	284	285	1	0.001	<0.2	7	3	51
FK17-04	836154	Pl-phyric coherent	285	286	1	0.009	0.2	21	7	78
FK17-04	836155	Pl-phyric coherent	286	287	1	0.002	0.3	23	9	113
FK17-04	836156	Pl-phyric coherent	287	288	1	0.001	0.2	19	20	207
FK17-04	836157	Pl-phyric coherent	288	289	1	<0.001	0.3	23	6	148

Hole ID	Sample #	Rock Type	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
FK17-04	836158	Pl-phyric coherent	289	290	1	0.002	0.3	84	7	418
FK17-04	836159	Pl-phyric coherent	290	291	1	0.071	0.6	115	17	70
FK17-04	836161	Pl-phyric coherent	291	292	1	0.006	<0.2	85	5	133
FK17-04	836162	Pl-phyric coherent	292	293	1	0.009	0.2	45	7	293
FK17-04	836163	Pl-phyric coherent	293	294	1	0.034	0.4	516	10	167
FK17-04	836164	Pl-phyric coherent	294	295	1	0.006	0.2	208	7	214
FK17-04	836165	Pl-phyric coherent	295	296	1	0.008	0.2	122	8	217
FK17-04	836166	Pl-phyric coherent	296	297	1	0.147	0.7	231	16	342
FK17-04	836167	Pl-phyric coherent	297	298	1	0.039	0.4	94	8	112
FK17-04	836168	Pl-phyric coherent	298	299	1	0.001	<0.2	19	5	69
FK17-04	836169	Pl-phyric coherent	299	300	1	0.002	<0.2	33	4	57
FK17-04	836171	Pl-phyric coherent	300	301	1	<0.001	<0.2	3	3	43
FK17-04	836172	Pl-phyric coherent	301	302	1	<0.001	<0.2	2	5	33
FK17-04	836173	Pl-phyric coherent	302	303	1	<0.001	<0.2	2	4	50
FK17-04	836174	Pl-phyric coherent	303	304	1	0.006	<0.2	2	2	94
FK17-04	836175	Pl-phyric coherent	304	305	1	0.002	<0.2	10	3	120
FK17-04	836176	Pl-phyric coherent	305	306	1	0.01	0.2	139	7	152
FK17-04	836177	Pl-phyric coherent	306	307	1	0.004	0.2	280	7	200
FK17-04	836178	Pl-phyric coherent	307	308	1	0.01	0.3	382	7	168
FK17-04	836179	Pl-phyric coherent	308	309	1	0.004	<0.2	83	4	72
FK17-04	836181	Pl-phyric coherent	309	310	1	<0.001	<0.2	7	4	59
FK17-04	836182	Pl-phyric coherent	310	311	1	<0.001	<0.2	1	4	51
FK17-04	836183	Pl-phyric coherent	311	312	1	0.001	<0.2	2	5	46
FK17-04	836184	Pl-phyric coherent	312	313	1	0.003	<0.2	2	4	61
FK17-04	836185	Pl-phyric coherent	313	314	1	0.005	0.2	47	5	93
FK17-04	836186	Pl-phyric coherent	314	315	1	0.004	0.2	29	6	166
FK17-04	836187	Pl-phyric coherent	315	316	1	0.002	<0.2	3	4	111
FK17-04	836188	Pl-phyric coherent	316	317	1	<0.001	<0.2	1	3	57
FK17-04	836189	Pl-phyric coherent	317	318	1	<0.001	<0.2	1	4	53
FK17-04	836191	Pl-phyric coherent	318	319	1	<0.001	<0.2	1	4	37
FK17-04	836192	Pl-phyric coherent	319	320	1	<0.001	<0.2	1	4	70
FK17-04	836193	Pl-phyric coherent	320	321	1	0.007	<0.2	7	5	103
FK17-04	836194	Pl-phyric coherent	321	322	1	<0.001	<0.2	2	5	59
FK17-04	836195	Pl-phyric coherent	322	323	1	<0.001	<0.2	1	6	51
FK17-04	836196	Pl-phyric coherent	323	324	1	<0.001	<0.2	7	10	51
FK17-04	836197	Pl-phyric coherent	324	325	1	<0.001	0.2	4	8	46
FK17-04	836198	Pl-phyric coherent	325	326	1	<0.001	<0.2	3	7	45
FK17-04	836199	Pl-phyric coherent	326	327	1	<0.001	<0.2	2	5	60
FK17-04	836201	Pl-phyric coherent	327	328	1	<0.001	<0.2	3	6	50
FK17-04	836202	Pl-phyric coherent	328	329	1	<0.001	<0.2	2	5	42
FK17-04	836203	Pl-phyric coherent	329	330	1	<0.001	<0.2	3	6	46
FK17-04	836204	Pl-phyric coherent	330	331	1	<0.001	0.2	3	6	42

Hole ID	Sample #	Rock Type	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
FK17-04	836205	Pl-phyric coherent	331	332	1	<0.001	<0.2	2	5	40
FK17-04	836206	Pl-phyric coherent	332	333	1	0.002	<0.2	24	5	96
FK17-04	836207	Pl-phyric coherent	333	334	1	0.009	0.2	117	5	210
FK17-04	836208	Pl-phyric coherent	334	335	1	0.021	0.3	95	7	236
FK17-04	836209	Pl-phyric coherent	335	336	1	0.052	0.4	660	3	1225
FK17-04	836211	Pl-phyric coherent	336	337	1	0.022	0.4	130	9	906
FK17-04	836212	Pl-phyric coherent	337	338	1	<0.001	0.2	32	6	388
FK17-04	836213	Pl-phyric coherent	338	339	1	0.202	0.3	119	5	2280
FK17-04	836214	Pl-phyric coherent	339	340	1	0.023	0.2	95	7	354
FK17-04	836215	Pl-phyric coherent	340	341	1	<0.001	0.2	44	5	142
FK17-04	836216	Pl-phyric coherent	341	342	1	<0.001	0.2	40	3	173
FK17-04	836217	Pl-phyric coherent	342	343	1	<0.001	0.2	38	5	137
FK17-04	836218	Pl-phyric coherent	343	344	1	<0.001	<0.2	27	4	137
FK17-04	836219	Pl-phyric coherent	344	345	1	<0.001	0.2	8	5	104
FK17-04	836221	Pl-phyric coherent	345	346	1	<0.001	0.2	6	4	118
FK17-04	836222	Pl-phyric coherent	346	347	1	<0.001	0.3	31	4	106
FK17-04	836223	Pl-phyric coherent	347	348	1	0.002	<0.2	52	5	130
FK17-04	836224	Pl-phyric coherent	348	349	1	0.002	0.2	24	5	96
FK17-04	836225	Pl-phyric coherent	349	350	1	0.003	0.3	7	9	84
FK17-04	836226	Pl-phyric coherent	350	351	1	<0.001	<0.2	27	7	118
FK17-04	836227	Pl-phyric coherent	351	352	1	0.019	0.3	34	8	1690
FK17-04	836228	Pl-phyric coherent	352	353	1	0.005	0.2	9	5	630
FK17-04	836229	Pl-phyric coherent	353	354	1	0.001	<0.2	21	6	313
FK17-04	836231	Pl-phyric coherent	354	355	1	<0.001	<0.2	28	5	130
FK17-04	836232	Pl-phyric coherent	355	356	1	0.001	0.3	81	8	429
FK17-04	836233	Pl-phyric coherent	356	357	1	0.008	0.3	22	7	373
FK17-04	836234	Pl-phyric coherent	357	358	1	0.007	0.2	31	38	276
FK17-04	836235	Pl-phyric coherent	358	359	1	0.005	0.3	30	44	175
FK17-04	836236	Pl-phyric coherent	359	360	1	0.004	0.3	42	62	272
FK17-04	836237	Pl-phyric coherent	360	361	1	0.005	0.3	25	23	644
FK17-04	836238	Pl-phyric coherent	361	362	1	0.004	0.3	25	13	480
FK17-04	836239	Pl-phyric coherent	362	363	1	0.012	0.4	32	13	687
FK17-04	836241	Pl-phyric coherent	363	364	1	0.046	0.5	404	16	469
FK17-04	836242	Pl-phyric coherent	364	365	1	0.014	0.2	162	10	458
FK17-04	836243	Pl-phyric coherent	365	366	1	0.004	0.2	38	5	245
FK17-04	836244	Pl-phyric coherent	366	367	1	0.133	1.1	1265	9	157
FK17-04	836245	Pl-phyric coherent	367	368	1	0.152	0.5	123	11	203
FK17-04	836246	Pl-phyric coherent	368	369	1	0.523	0.6	268	14	687
FK17-04	836247	Pl-phyric coherent	369	370	1	0.027	0.2	149	11	166
FK17-04	836248	Pl-phyric coherent	370	371	1	0.009	0.4	60	10	234
FK17-04	836249	Pl-phyric coherent	371	372	1	0.07	0.5	280	18	271
FK17-04	836251	Pl-phyric coherent	372	373	1	0.131	0.4	87	22	181

Hole ID	Sample #	Rock Type	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
FK17-04	836252	Pl-phyric coherent	373	374	1	0.029	0.5	106	14	143
FK17-04	836253	Pl-phyric coherent	374	375	1	0.019	0.4	48	11	620
FK17-04	836254	Pl-phyric coherent	375	376	1	0.008	0.3	59	4	153
FK17-04	836255	Pl-phyric coherent	376	377	1	0.09	0.3	122	5	124
FK17-04	836256	Pl-phyric coherent	377	378	1	0.005	<0.2	34	4	129
FK17-04	836257	Pl-phyric coherent	378	379	1	0.006	0.2	27	5	210
FK17-04	836258	Pl-phyric coherent	379	380	1	0.011	0.2	6	3	194
FK17-04	836259	Pl-phyric coherent	380	381	1	0.017	0.3	72	6	239
FK17-04	836261	Pl-phyric coherent	381	382	1	0.008	0.2	4	4	111
FK17-04	836262	Pl-phyric coherent	382	383	1	0.021	0.2	45	5	111
FK17-04	836263	Pl-phyric coherent	383	384	1	0.017	0.2	84	9	112
FK17-04	836264	Pl-phyric coherent	384	385	1	0.017	<0.2	30	8	142
FK17-04	836265	Pl-phyric coherent	385	386	1	0.01	<0.2	1	5	119
FK17-04	836266	Pl-phyric coherent	386	387	1	0.315	<0.2	16	6	155
FK17-04	836267	Pl-phyric coherent	387	388	1	0.024	<0.2	31	5	131
FK17-04	836268	Pl-phyric coherent	388	389	1	0.004	<0.2	3	3	140
FK17-04	836269	Pl-phyric coherent	389	390	1	0.013	<0.2	13	4	126
FK17-04	836271	Pl-phyric coherent	390	391	1	0.002	<0.2	<1	5	94
FK17-04	836272	Pl-phyric coherent	391	392	1	0.009	<0.2	<1	7	98
FK17-04	836273	Pl-phyric coherent	392	393	1	<0.001	<0.2	<1	7	99
FK17-04	836274	Pl-phyric coherent	393	394	1	0.005	<0.2	<1	4	84
FK17-04	836275	Pl-phyric coherent	394	395	1	<0.001	<0.2	1	6	67
FK17-04	836276	Pl-phyric coherent	395	396	1	<0.001	<0.2	1	3	79
FK17-04	836277	Pl-phyric coherent	396	397	1	<0.001	<0.2	<1	7	101
FK17-05	836279	Pl-phyric coherent	8	9	1	0.002	<0.2	37	5	86
FK17-05	836281	Pl-phyric coherent	9	10	1	0.003	<0.2	10	6	54
FK17-05	836282	Pl-phyric coherent	10	11	1	0.002	<0.2	4	4	72
FK17-05	836283	Pl-phyric coherent	11	12	1	0.006	<0.2	5	4	72
FK17-05	836284	Pl-phyric coherent	12	13	1	0.005	<0.2	2	7	58
FK17-05	836285	Pl-phyric coherent	13	14	1	<0.001	<0.2	16	5	78
FK17-05	836286	Pl-phyric coherent	14	15	1	<0.001	<0.2	1	6	63
FK17-05	836287	Pl-phyric coherent	15	16	1	<0.001	<0.2	2	7	77
FK17-05	836288	Pl-phyric coherent	16	17	1	<0.001	<0.2	36	6	79
FK17-05	836289	Pl-phyric coherent	17	18	1	<0.001	<0.2	12	8	110
FK17-05	836291	Pl-phyric coherent	18	19	1	<0.001	<0.2	10	8	325
FK17-05	836292	Pl-phyric coherent	19	20	1	<0.001	<0.2	5	9	232
FK17-05	836293	Pl-phyric coherent	20	21	1	<0.001	<0.2	5	10	143
FK17-05	836294	Pl-phyric coherent	21	22	1	0.002	<0.2	15	12	272
FK17-05	836295	Pl-phyric coherent	22	23	1	0.023	0.4	562	17	168
FK17-05	836296	Pl-phyric coherent	23	24	1	0.005	<0.2	221	10	224
FK17-05	836297	Pl-phyric coherent	24	25	1	0.003	<0.2	158	25	432
FK17-05	836298	Pl-phyric coherent	25	26	1	0.003	<0.2	52	30	972

Hole ID	Sample #	Rock Type	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
FK17-05	836299	Pl-phyric coherent	26	27	1	0.004	<0.2	13	36	841
FK17-05	836301	Pl-phyric coherent	27	28	1	0.005	0.5	288	104	2550
FK17-05	836302	Pl-phyric coherent	28	29	1	0.038	0.3	129	16	685
FK17-05	836303	Pl-phyric coherent	29	30	1	2.48	1.7	1285	15	128
FK17-05	836304	Pl-phyric coherent	30	31	1	0.255	0.3	179	8	53
FK17-05	836305	Pl-phyric coherent	31	32	1	0.273	0.2	121	5	97
FK17-05	836306	Pl-phyric coherent	32	33	1	0.023	<0.2	223	5	113
FK17-05	836307	Pl-phyric coherent	33	34	1	60.9	62.6	39300	72	116
FK17-05	836308	Pl-phyric coherent	34	35	1	18.75	41.5	67500	34	219
FK17-05	836309	Pl-phyric coherent	35	36	1	2.15	2.4	2760	13	186
FK17-05	836311	Pl-phyric coherent	36	37	1	31.6	46.7	60800	20	219
FK17-05	836312	Pl-phyric coherent	37	38	1	2.38	3.2	3310	14	210
FK17-05	836313	Pl-phyric coherent	38	39	1	13.3	14.6	9550	18	219
FK17-05	836314	Pl-phyric coherent	39	40	1	0.353	0.6	344	17	196
FK17-05	836315	Pl-phyric coherent	40	41	1	0.111	1.7	365	30	187
FK17-05	836316	Pl-phyric coherent	41	42	1	0.366	<0.2	18	12	162
FK17-05	836317	Pl-phyric coherent	42	43	1	0.08	<0.2	19	15	204
FK17-05	836318	Pl-phyric coherent	43	44	1	0.786	1.3	819	13	252
FK17-05	836319	Pl-phyric coherent	44	45	1	0.316	0.6	378	7	133
FK17-05	836321	Pl-phyric coherent	45	46	1	0.015	5.5	10500	27	248
FK17-05	836322	Pl-phyric coherent	46	47	1	0.034	1	2000	4	200
FK17-05	836323	Pl-phyric coherent	47	48	1	0.033	0.5	1355	6	188
FK17-05	836324	Pl-phyric coherent	48	49	1	0.107	<0.2	362	7	162
FK17-05	836325	Pl-phyric coherent	49	50	1	0.129	1.5	3610	11	198
FK17-05	836326	Pl-phyric coherent	50	51	1	0.123	1	2500	10	158
FK17-05	836327	Pl-phyric coherent	51	52	1	0.938	0.6	903	10	125
FK17-05	836328	Pl-phyric coherent	52	53	1	0.287	<0.2	87	4	154
FK17-05	836329	Pl-phyric coherent	53	54	1	0.187	0.7	1160	8	140
FK17-05	836331	Pl-phyric coherent	54	55	1	0.544	2.5	6520	11	151
FK17-05	836332	Pl-phyric coherent	55	56	1	0.03	1.2	3200	10	153
FK17-05	836333	Pl-phyric coherent	56	57	1	0.005	<0.2	16	6	159
FK17-05	836334	Pl-phyric coherent	57	58	1	0.041	0.3	276	8	176
FK17-05	836335	Pl-phyric coherent	58	59	1	0.042	<0.2	168	7	148
FK17-05	836336	Pl-phyric coherent	59	60	1	0.077	<0.2	432	4	142
FK17-05	836337	Pl-phyric coherent	60	61	1	0.38	0.3	11	9	142
FK17-05	836338	Pl-phyric coherent	61	62	1	0.038	<0.2	6	8	164
FK17-05	836339	Pl-phyric coherent	62	63	1	0.506	0.4	833	7	105
FK17-05	836341	Pl-phyric coherent	63	64	1	0.039	<0.2	34	9	106
FK17-05	836342	Pl-phyric coherent	64	65	1	0.092	<0.2	11	9	97
FK17-05	836343	Pl-phyric coherent	65	66	1	0.459	0.7	1300	11	97
FK17-05	836344	Pl-phyric coherent	66	67	1	0.386	<0.2	5	7	98
FK17-05	836345	Pl-phyric coherent	67	68	1	0.073	<0.2	24	6	149

Hole ID	Sample #	Rock Type	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
FK17-05	836346	Pl-phyric coherent	68	69	1	0.131	<0.2	6	8	139
FK17-05	836347	Pl-phyric coherent	69	70	1	0.046	0.2	257	9	114
FK17-05	836348	Pl-phyric coherent	70	71	1	0.042	0.2	303	7	141
FK17-05	836349	Pl-phyric coherent	71	72	1	0.085	0.2	483	8	142
FK17-05	836351	Pl-phyric coherent	72	73	1	0.008	<0.2	47	5	93
FK17-05	836352	Pl-phyric coherent	73	74	1	0.009	<0.2	21	5	119
FK17-05	836353	Pl-phyric coherent	74	75	1	0.002	<0.2	134	3	107
FK17-05	836354	Pl-phyric coherent	75	76	1	0.002	<0.2	5	4	152
FK17-05	836355	Pl-phyric coherent	76	77	1	0.007	<0.2	34	6	147
FK17-05	836356	Pl-phyric coherent	77	78	1	0.012	<0.2	345	5	161
FK17-05	836357	Pl-phyric coherent	78	79	1	0.036	<0.2	41	7	125
FK17-05	836358	Pl-phyric coherent	79	80	1	0.019	0.3	69	5	223
FK17-05	836359	Pl-phyric coherent	80	81	1	1.07	1.3	40	4	234
FK17-05	836361	Pl-phyric coherent	81	82	1	0.019	<0.2	4	6	164
FK17-05	836362	Pl-phyric coherent	82	83	1	0.011	<0.2	204	6	207
FK17-05	836363	Pl-phyric coherent	83	84	1	0.009	<0.2	82	6	163
FK17-05	836364	Pl-phyric coherent	84	85	1	0.005	<0.2	102	15	258
FK17-05	836365	Pl-phyric coherent	85	86	1	0.023	0.2	110	13	483
FK17-05	836366	Pl-phyric coherent	86	87	1	0.023	0.2	209	10	262
FK17-05	836367	Pl-phyric coherent	87	88	1	0.018	<0.2	84	3	236
FK17-05	836368	Pl-phyric coherent	88	89	1	0.001	0.2	538	7	269
FK17-05	836369	Pl-phyric coherent	89	90	1	0.011	0.4	736	11	213
FK17-05	836371	Pl-phyric coherent	90	91	1	0.009	<0.2	148	4	223
FK17-05	836372	Pl-phyric coherent	91	92	1	0.013	0.2	29	8	168
FK17-05	836373	Pl-phyric coherent	92	93	1	0.008	0.5	21	16	206
FK17-05	836374	Pl-phyric coherent	93	94	1	0.008	0.4	75	13	232
FK17-05	836375	Pl-phyric coherent	94	95	1	0.012	0.7	487	15	291
FK17-05	836376	Pl-phyric coherent	95	96	1	0.058	4.2	7640	20	249
FK17-05	836377	Pl-phyric coherent	96	97	1	0.043	2.6	5860	20	312
FK17-05	836378	Pl-phyric coherent	97	98	1	0.023	<0.2	71	7	94
FK17-05	836379	Pl-phyric coherent	98	99	1	0.005	0.2	301	7	141
FK17-05	836381	Pl-phyric coherent	99	100	1	0.007	0.3	48	5	120
FK17-05	836382	Pl-phyric coherent	100	101	1	0.009	0.3	325	9	114
FK17-05	836383	Pl-phyric coherent	101	102	1	0.007	<0.2	268	11	116
FK17-05	836384	Pl-phyric coherent	102	103	1	<0.001	<0.2	43	5	127
FK17-05	836385	Pl-phyric coherent	103	104	1	0.025	<0.2	50	10	118
FK17-05	836386	Pl-phyric coherent	104	105	1	0.029	<0.2	22	6	118
FK17-05	836387	Pl-phyric coherent	105	106	1	0.027	<0.2	77	6	123
FK17-05	836388	Pl-phyric coherent	106	107	1	0.005	<0.2	37	4	153
FK17-05	836389	Pl-phyric coherent	107	108	1	0.021	0.2	396	5	159
FK17-05	836391	Pl-phyric coherent	108	109	1	0.043	0.4	830	5	157
FK17-05	836392	Pl-phyric coherent	109	110	1	0.494	0.6	860	16	94

Hole ID	Sample #	Rock Type	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
FK17-05	836393	Pl-phyric coherent	110	111	1	0.003	<0.2	4	8	75
FK17-05	836394	Pl-phyric coherent	111	112	1	0.009	<0.2	4	7	87
FK17-05	836395	Pl-phyric coherent	112	113	1	0.024	<0.2	1	8	89
FK17-05	836396	Pl-phyric coherent	113	114	1	0.009	<0.2	43	6	128
FK17-05	836397	Pl-phyric coherent	114	115	1	0.01	0.2	294	3	162
FK17-05	836398	Pl-phyric coherent	115	116	1	0.939	1.5	1670	56	178
FK17-05	836399	Pl-phyric coherent	116	117	1	0.064	0.5	672	18	124
FK17-05	836401	Pl-phyric coherent	117	118	1	0.015	0.4	291	9	151
FK17-05	836402	Pl-phyric coherent	118	119	1	0.029	<0.2	457	4	140
FK17-05	836403	Pl-phyric coherent	119	120	1	0.009	<0.2	82	3	80
FK17-05	836404	Pl-phyric coherent	120	121	1	0.011	<0.2	46	2	126
FK17-05	836405	Pl-phyric coherent	121	122	1	2.71	1.6	1210	23	149
FK17-05	836406	Pl-phyric coherent	122	123	1	0.409	0.5	290	16	139
FK17-05	836407	Pl-phyric coherent	123	124	1	0.114	0.2	59	6	111
FK17-05	836408	Pl-phyric coherent	124	125	1	0.002	<0.2	5	3	75
FK17-05	836409	Pl-phyric coherent	125	126	1	0.015	<0.2	12	5	98
FK17-05	836411	Pl-phyric coherent	126	127	1	0.207	0.6	573	9	130
FK17-05	836412	Pl-phyric coherent	127	128	1	0.002	<0.2	69	2	116
FK17-05	836413	Pl-phyric coherent	128	129	1	0.016	<0.2	20	3	101
FK17-05	836414	Pl-phyric coherent	129	130	1	0.05	<0.2	58	5	103
FK17-06	836416	Pl-phyric coherent	6	7	1	0.001	0.2	68	18	311
FK17-06	836417	Pl-phyric coherent	7	8	1	0.001	<0.2	24	6	78
FK17-06	836418	Pl-phyric coherent	8	9	1	0.008	<0.2	7	8	74
FK17-06	836419	Pl-phyric coherent	9	10	1	0.005	<0.2	12	5	72
FK17-06	836421	Pl-phyric coherent	10	11	1	0.007	<0.2	3	8	76
FK17-06	836422	Pl-phyric coherent	11	11.8	0.8	0.025	<0.2	1	8	66
FK17-06	836423	Pl-phyric coherent	11.8	13	1.2	0.003	<0.2	1	8	71
FK17-06	836424	Pl-phyric coherent	13	14	1	0.004	<0.2	<1	7	57
FK17-06	836425	Pl-phyric coherent	14	15	1	0.001	<0.2	1	7	42
FK17-06	836426	Pl-phyric coherent	15	16	1	<0.001	<0.2	1	5	55
FK17-06	836427	Pl-phyric coherent	16	17	1	0.001	<0.2	<1	4	77
FK17-06	836428	Pl-phyric coherent	17	18	1	0.002	<0.2	<1	4	70
FK17-06	836429	Pl-phyric coherent	18	19	1	0.025	<0.2	1	6	47
FK17-06	836431	Pl-phyric coherent	19	20	1	<0.001	<0.2	2	7	56
FK17-06	836432	Pl-phyric coherent	20	21	1	0.001	<0.2	7	2	76
FK17-06	836433	Pl-phyric coherent	21	22	1	<0.001	<0.2	2	7	72
FK17-06	836434	Pl-phyric coherent	22	23	1	0.003	<0.2	1	9	86
FK17-06	836435	Pl-phyric coherent	23	24	1	0.003	<0.2	12	11	77
FK17-06	836436	Pl-phyric coherent	24	25	1	0.005	<0.2	88	12	84
FK17-06	836437	Pl-phyric coherent	25	26	1	<0.001	<0.2	146	7	109
FK17-06	836438	Pl-phyric coherent	26	27	1	<0.001	<0.2	17	4	117
FK17-06	836439	Pl-phyric coherent	27	28	1	0.003	<0.2	15	7	127

Hole ID	Sample #	Rock Type	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
FK17-06	836441	Pl-phyric coherent	28	29	1	<0.001	<0.2	20	8	143
FK17-06	836442	Pl-phyric coherent	29	30	1	0.001	<0.2	26	8	128
FK17-06	836443	Pl-phyric coherent	30	31	1	<0.001	<0.2	29	7	126
FK17-06	836444	Pl-phyric coherent	31	32	1	0.002	<0.2	25	7	136
FK17-06	836445	Pl-phyric coherent	32	33	1	0.004	<0.2	8	12	169
FK17-06	836446	Pl-phyric coherent	33	34	1	0.001	0.2	15	8	149
FK17-06	836447	Pl-phyric coherent	34	35	1	0.002	<0.2	12	6	93
FK17-06	836448	Pl-phyric coherent	35	36	1	<0.001	<0.2	18	4	85
FK17-06	836449	Pl-phyric coherent	36	37	1	0.001	<0.2	11	9	108
FK17-06	836451	Pl-phyric coherent	37	38	1	0.002	<0.2	10	6	82
FK17-06	836452	Pl-phyric coherent	38	39	1	0.002	<0.2	15	10	93
FK17-06	836453	Pl-phyric coherent	39	40	1	0.01	<0.2	22	7	85
FK17-06	836454	Pl-phyric coherent	40	41	1	0.025	0.7	135	14	143
FK17-06	836455	Pl-phyric coherent	41	42	1	0.137	1.2	93	18	172
FK17-06	836456	Pl-phyric coherent	42	43	1	0.101	1.3	171	19	260
FK17-06	836457	Pl-phyric coherent	43	44	1	0.028	0.8	23	28	79
FK17-06	836458	Pl-phyric coherent	44	45	1	0.099	0.9	41	27	87
FK17-06	836459	Pl-phyric coherent	45	46	1	0.081	0.5	26	15	102
FK17-06	836461	Mineralized bx	46	47	1	17.25	24.1	29100	92	138
FK17-06	836462	Mineralized bx	47	48	1	11.15	26.2	36200	26	149
FK17-06	836463	Breccia	48	49	1	0.213	1.1	808	16	59
FK17-06	836464	Breccia	49	50	1	0.622	1.6	699	18	40
FK17-06	836465	Breccia	50	51	1	6.28	9.6	9140	12	80
FK17-06	836466	Pl-phyric coherent	51	52	1	0.56	0.6	113	10	172
FK17-06	836467	Pl-phyric coherent	52	53	1	0.598	0.7	151	8	166
FK17-06	836468	Pl-phyric coherent	53	54	1	0.05	1	100	17	111
FK17-06	836469	Pl-phyric coherent	54	55	1	0.029	1	145	17	172
FK17-06	836471	Pl-phyric coherent	55	56	1	0.041	2.1	3020	17	103
FK17-06	836472	Pl-phyric coherent	56	57	1	0.535	2.3	3310	12	131
FK17-06	836473	Pl-phyric coherent	57	58	1	1.38	1.3	578	6	108
FK17-06	836474	Pl-phyric coherent	58	59	1	1.605	0.8	690	5	131
FK17-06	836475	Pl-phyric coherent	59	60	1	0.409	0.4	113	14	114
FK17-06	836476	Pl-phyric coherent	60	61	1	0.022	1.7	3510	35	129
FK17-06	836477	Pl-phyric coherent	61	62	1	0.022	1.8	1835	17	84
FK17-06	836478	Pl-phyric coherent	62	63	1	0.004	<0.2	74	8	68
FK17-06	836479	Pl-phyric coherent	63	64	1	0.011	0.5	160	42	128
FK17-06	836481	Pl-phyric coherent	64	65	1	<0.001	<0.2	11	6	83
FK17-06	836482	Pl-phyric coherent	65	66	1	<0.001	<0.2	7	4	87
FK17-06	836483	Lithic lapilli tuff	66	67	1	<0.001	<0.2	82	4	83
FK17-06	836484	Lithic lapilli tuff	67	68	1	<0.001	<0.2	98	3	80
FK17-06	836485	Lithic lapilli tuff	68	69	1	0.135	0.3	90	5	113
FK17-06	836486	Pl-phyric coherent	69	70	1	<0.001	<0.2	80	3	141

Hole ID	Sample #	Rock Type	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
FK17-06	836487	Pl-phyrlic coherent	70	71	1	0.005	0.3	128	8	132
FK17-06	836488	Pl-phyrlic coherent	71	72	1	0.002	<0.2	2	5	151
FK17-06	836489	Pl-phyrlic coherent	72	73	1	0.006	<0.2	1	4	135
FK17-06	836491	Pl-phyrlic coherent	73	74	1	0.006	<0.2	1	5	124
FK17-06	836492	Pl-phyrlic coherent	74	75	1	0.037	<0.2	26	7	110
FK17-06	836493	Pl-phyrlic coherent	75	76	1	0.006	<0.2	1	6	101
FK17-06	836494	Pl-phyrlic coherent	76	77	1	0.007	<0.2	<1	7	102
FK17-06	836495	Pl-phyrlic coherent	77	78	1	0.002	<0.2	<1	8	119
FK17-06	836496	Pl-phyrlic coherent	78	79	1	0.007	<0.2	1	4	142
FK17-06	836497	Pl-phyrlic coherent	79	80	1	0.013	<0.2	60	16	170
FK17-06	836498	Pl-phyrlic coherent	80	81	1	0.017	<0.2	2	5	181
FK17-06	836499	Pl-phyrlic coherent	81	82	1	0.026	<0.2	<1	3	155
FK17-06	836501	Pl-phyrlic coherent	82	83	1	0.001	<0.2	<1	2	227
FK17-06	836502	Pl-phyrlic coherent	83	84	1	0.363	0.6	966	64	1780
FK17-06	836503	Pl-phyrlic coherent	84	85	1	0.055	<0.2	16	7	288
FK17-06	836504	Pl-phyrlic coherent	85	86	1	0.01	<0.2	3	3	269
FK17-06	836505	Pl-phyrlic coherent	86	87	1	0.663	0.3	15	13	2680
FK17-06	836506	Pl-phyrlic coherent	87	88	1	1.35	1.4	38	56	14500
FK17-06	836507	Pl-phyrlic coherent	88	89	1	0.306	<0.2	141	7	875
FK17-06	836508	Pl-phyrlic coherent	89	90	1	0.093	0.3	18	6	2280
FK17-06	836509	Pl-phyrlic coherent	90	91	1	0.076	<0.2	13	6	1380
FK17-06	836511	Pl-phyrlic coherent	91	92	1	2.96	3.7	2160	133	13550
FK17-06	836512	Pl-phyrlic coherent	92	93	1	0.507	0.2	50	11	434
FK17-06	836513	Pl-phyrlic coherent	93	94	1	0.015	0.2	88	9	221
FK17-06	836514	Pl-phyrlic coherent	94	95	1	0.012	0.4	72	15	140
FK17-06	836515	Pl-phyrlic coherent	95	96	1	0.006	<0.2	8	7	98
FK17-06	836516	Pl-phyrlic coherent	96	97	1	0.004	<0.2	2	8	83
FK17-06	836517	Pl-phyrlic coherent	97	98	1	0.007	<0.2	4	8	90
FK17-06	836518	Pl-phyrlic coherent	98	99	1	0.002	<0.2	8	4	108
FK17-06	836519	Pl-phyrlic coherent	99	100	1	0.039	1	11	11	106
FK17-07	836521	Breccia	6.6	8	1.4	0.001	0.3	47	13	108
FK17-07	836522	Breccia	8	9	1	<0.001	0.2	145	7	84
FK17-07	836523	Breccia	9	10	1	<0.001	0.2	96	13	103
FK17-07	836524	Breccia	10	11	1	0.001	0.4	82	12	83
FK17-07	836525	Breccia	11	12	1	0.001	0.3	81	8	73
FK17-07	836526	Breccia	12	13	1	0.001	0.3	56	10	75
FK17-07	836527	Breccia	13	14	1	<0.001	0.2	34	3	67
FK17-07	836528	Breccia	14	15	1	0.002	0.3	68	6	52
FK17-07	836529	Breccia	15	16	1	<0.001	<0.2	141	2	71
FK17-07	836531	Breccia	16	17	1	<0.001	0.2	105	6	69
FK17-07	836532	Breccia	17	18	1	0.001	0.3	111	8	80
FK17-07	836533	Breccia	18	19	1	0.001	<0.2	160	2	87

Hole ID	Sample #	Rock Type	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
FK17-07	836534	Breccia	19	20	1	0.002	<0.2	155	2	77
FK17-07	836535	Breccia	20	21	1	<0.001	<0.2	156	2	73
FK17-07	836536	Breccia	21	22	1	<0.001	0.3	156	9	76
FK17-07	836537	Breccia	22	23	1	<0.001	0.3	80	11	92
FK17-07	836538	Breccia	23	24	1	0.001	0.5	61	13	75
FK17-07	836539	Breccia	24	25	1	0.003	0.5	66	11	92
FK17-07	836541	Breccia	25	26	1	<0.001	<0.2	44	8	106
FK17-07	836542	Breccia	26	27	1	<0.001	0.2	18	15	71
FK17-07	836543	Breccia	27	28	1	<0.001	0.2	20	9	47
FK17-07	836544	Breccia	28	29	1	<0.001	<0.2	16	6	63
FK17-07	836545	Breccia	29	30	1	<0.001	<0.2	20	12	66
FK17-07	836546	Breccia	30	31	1	<0.001	<0.2	18	6	77
FK17-07	836547	Breccia	31	32	1	<0.001	<0.2	14	5	62
FK17-07	836548	Breccia	32	33	1	0.001	0.2	22	9	75
FK17-07	836549	Breccia	33	34	1	0.001	0.2	13	8	59
FK17-07	836551	Breccia	34	35	1	0.001	<0.2	22	13	70
FK17-07	836552	Breccia	35	36	1	0.003	<0.2	21	13	53
FK17-07	836553	Breccia	36	37	1	0.001	<0.2	20	11	60
FK17-07	836554	Breccia	37	38	1	0.001	<0.2	17	7	62
FK17-07	836555	Breccia	38	39	1	0.001	<0.2	23	5	52
FK17-07	836556	Breccia	39	40	1	<0.001	<0.2	20	<2	55
FK17-07	836557	Breccia	40	41	1	0.001	0.3	24	9	68
FK17-07	836558	Breccia	41	42	1	<0.001	<0.2	23	2	38
FK17-07	836559	Breccia	42	43	1	0.001	<0.2	21	13	61
FK17-07	836561	Breccia	43	44	1	<0.001	<0.2	22	7	64
FK17-07	836562	Breccia	44	45	1	0.001	<0.2	23	9	67
FK17-07	836563	Breccia	45	46	1	0.001	<0.2	22	10	52
FK17-07	836564	Breccia	46	47	1	<0.001	<0.2	20	14	82
FK17-07	836565	Breccia	47	48	1	<0.001	<0.2	18	14	81
FK17-07	836566	Breccia	48	49	1	0.001	<0.2	19	19	99
FK17-07	836567	Breccia	49	50	1	0.001	<0.2	21	22	99
FK17-07	836568	Breccia	50	51	1	<0.001	<0.2	19	13	89
FK17-07	836569	Breccia	51	52	1	0.001	0.2	26	7	62
FK17-07	836571	Breccia	52	53	1	<0.001	<0.2	16	5	61
FK17-07	836572	Breccia	53	54	1	0.001	<0.2	18	10	82
FK17-07	836573	Breccia	54	55	1	0.002	<0.2	25	8	77
FK17-07	836574	Breccia	55	56	1	<0.001	<0.2	17	9	79
FK17-07	836575	Breccia	56	57	1	<0.001	<0.2	20	8	77
FK17-07	836576	Breccia	57	58	1	<0.001	<0.2	17	11	88
FK17-07	836577	Breccia	58	59	1	<0.001	<0.2	17	17	78
FK17-07	836578	Breccia	59	60	1	<0.001	<0.2	19	8	67
FK17-07	836579	Breccia	60	61	1	0.001	0.2	22	14	69

Hole ID	Sample #	Rock Type	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
FK17-07	836581	Breccia	61	62	1	<0.001	<0.2	19	11	89
FK17-07	836582	Breccia	62	63	1	<0.001	<0.2	22	15	81
FK17-07	836583	Breccia	63	64	1	<0.001	<0.2	20	15	74
FK17-07	836584	Breccia	64	65	1	<0.001	<0.2	24	3	86
FK17-07	836585	Breccia	65	66	1	<0.001	<0.2	22	6	79
FK17-07	836586	Breccia	66	67	1	0.002	<0.2	19	9	62
FK17-07	836587	Breccia	67	68	1	0.001	<0.2	18	8	69
FK17-07	836588	Breccia	68	69	1	<0.001	<0.2	24	10	74
FK17-07	836589	Breccia	69	70	1	0.002	<0.2	63	7	82
FK17-07	836591	Breccia	70	71	1	<0.001	<0.2	21	14	82
FK17-07	836592	Breccia	71	72	1	<0.001	<0.2	18	11	75
FK17-07	836593	Breccia	72	73	1	0.001	<0.2	31	10	78
FK17-07	836594	Breccia	73	74	1	0.001	<0.2	27	7	78
FK17-07	836595	Breccia	74	75	1	0.002	<0.2	24	13	102
FK17-07	836596	Breccia	75	76	1	0.001	<0.2	18	8	87
FK17-07	836597	Breccia	76	77	1	<0.001	<0.2	20	16	97
FK17-07	836598	Breccia	77	78	1	<0.001	<0.2	25	14	95
FK17-07	836599	Breccia	78	79	1	<0.001	<0.2	40	7	78
FK17-07	836601	Breccia	79	80	1	<0.001	<0.2	26	10	82
FK17-07	836602	Breccia	80	81	1	0.001	<0.2	27	9	85
FK17-07	836603	Breccia	81	82	1	<0.001	<0.2	21	5	81
FK17-07	836604	Breccia	82	83	1	0.002	<0.2	21	7	84
FK17-07	836605	Breccia	83	84	1	<0.001	0.2	16	12	72
FK17-07	836606	Breccia	84	85	1	<0.001	<0.2	19	10	82
FK17-07	836607	Breccia	85	86	1	<0.001	<0.2	21	10	85
FK17-07	836608	Breccia	86	87	1	0.001	<0.2	20	10	77
FK17-07	836609	Breccia	87	88	1	0.001	0.2	22	20	120
FK17-07	836611	Breccia	88	89	1	0.003	0.3	71	12	110
FK17-07	836612	Breccia	89	90	1	<0.001	<0.2	20	11	100
FK17-07	836613	Breccia	90	91	1	<0.001	<0.2	29	14	103
FK17-07	836614	Breccia	91	92	1	<0.001	<0.2	19	15	101
FK17-07	836615	Breccia	92	93	1	<0.001	<0.2	24	18	106
FK17-07	836616	Breccia	93	94	1	<0.001	<0.2	22	18	103
FK17-07	836617	Breccia	94	95	1	0.001	<0.2	21	15	86
FK17-07	836618	Breccia	95	96	1	0.002	0.3	21	23	89
FK17-07	836619	Breccia	96	97	1	0.001	<0.2	18	18	92
FK17-07	836621	Breccia	97	98	1	0.003	0.2	35	11	99
FK17-07	836622	Breccia	98	99	1	0.003	0.2	22	6	78
FK17-07	836623	Breccia	99	100	1	0.009	0.2	29	10	26
FK17-07	836624	Breccia	100	101	1	0.001	<0.2	41	5	47
FK17-07	836625	Breccia	101	102	1	0.001	<0.2	20	5	62
FK17-07	836626	Breccia	102	103	1	0.006	0.2	47	10	83

Hole ID	Sample #	Rock Type	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
FK17-07	836627	Breccia	103	104	1	0.002	<0.2	17	4	54
FK17-07	836628	Breccia	104	105	1	<0.001	<0.2	24	5	70
FK17-07	836629	Breccia	105	106	1	0.001	<0.2	10	5	62
FK17-07	836631	Breccia	106	107	1	<0.001	<0.2	26	7	67
FK17-07	836632	Crystal lithic lapilli tuff	107	108	1	0.005	<0.2	54	16	87
FK17-07	836633	Crystal lithic lapilli tuff	108	109	1	0.003	<0.2	101	3	92
FK17-07	836634	Crystal lithic lapilli tuff	109	110	1	0.001	<0.2	89	5	79
FK17-07	836635	Crystal lithic lapilli tuff	110	111	1	<0.001	<0.2	109	5	97
FK17-07	836636	Crystal lithic lapilli tuff	111	112	1	0.003	<0.2	67	9	80
FK17-07	836637	Breccia	112	113	1	0.003	<0.2	44	11	95
FK17-07	836638	Breccia	113	114	1	0.001	<0.2	76	11	83
FK17-07	836639	Breccia	114	115	1	0.006	0.2	71	15	61
FK17-07	836641	Breccia	115	116	1	<0.001	0.2	57	11	77
FK17-07	836642	Breccia	116	117	1	<0.001	<0.2	49	10	100
FK17-07	836643	Breccia	117	118	1	<0.001	<0.2	52	7	106
FK17-07	836644	Breccia	118	119	1	<0.001	0.3	65	16	127
FK17-07	836645	Breccia	119	120	1	<0.001	0.2	82	10	59
FK17-07	836646	Breccia	120	121	1	<0.001	<0.2	47	8	40
FK17-07	836647	Breccia	121	122	1	<0.001	<0.2	56	8	170
FK17-07	836648	Breccia	122	123	1	<0.001	0.2	72	12	58
FK17-07	836649	Breccia	123	124	1	<0.001	<0.2	67	10	59
FK17-07	836651	Breccia	124	125	1	0.002	<0.2	56	12	72
FK17-07	836652	Breccia	125	126	1	<0.001	<0.2	80	7	77
FK17-07	836653	Breccia	126	127	1	<0.001	<0.2	70	10	71
FK17-07	836654	Breccia	127	128	1	<0.001	0.2	57	11	78
FK17-07	836655	Breccia	128	129	1	<0.001	<0.2	35	10	122
FK17-07	836656	Breccia	129	130	1	<0.001	0.2	63	16	186
FK17-07	836657	Breccia	130	131	1	<0.001	0.3	48	27	104
FK17-07	836658	Breccia	131	132	1	<0.001	<0.2	38	38	102
FK17-07	836659	Breccia	132	133	1	<0.001	<0.2	38	33	233
FK17-07	836661	Breccia	133	134	1	<0.001	0.2	69	17	86
FK17-07	836662	Breccia	134	135	1	0.002	0.3	76	16	87
FK17-07	836663	Breccia	135	136	1	<0.001	0.4	67	13	83
FK17-07	836664	Breccia	136	137	1	<0.001	0.4	263	10	152
FK17-07	836665	Breccia	137	138	1	<0.001	0.3	220	8	185
FK17-07	836666	Breccia	138	139	1	<0.001	<0.2	140	7	124
FK17-07	836667	Breccia	139	140	1	<0.001	0.4	66	13	92
FK17-07	836668	Breccia	140	141	1	<0.001	0.6	91	15	80
FK17-07	836669	Breccia	141	142	1	<0.001	0.6	66	13	85
FK17-07	836671	Breccia	142	143	1	<0.001	0.4	58	23	90
FK17-07	836672	Breccia	143	144	1	<0.001	0.3	29	35	106
FK17-07	836673	Breccia	144	145	1	<0.001	0.3	27	59	149

Hole ID	Sample #	Rock Type	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
FK17-07	836674	Breccia	145	146	1	<0.001	<0.2	29	51	193
FK17-07	836675	Breccia	146	147	1	<0.001	0.3	38	64	172
FK17-07	836676	Breccia	147	148	1	<0.001	0.2	28	40	130
FK17-07	836677	Breccia	148	149	1	<0.001	0.2	33	24	105
FK17-07	836678	Breccia	149	150	1	0.002	<0.2	26	10	46
FK17-07	836679	Breccia	150	151	1	<0.001	0.2	25	19	68
FK17-07	836681	Breccia	151	152	1	0.001	0.3	41	24	86
FK17-07	836682	Breccia	152	153	1	<0.001	0.4	56	15	79
FK17-07	836683	Breccia	153	154	1	0.003	0.3	49	18	90
FK17-07	836684	Breccia	154	155	1	<0.001	0.3	56	15	76
FK17-07	836685	Breccia	155	156	1	<0.001	0.4	25	20	58
FK17-07	836686	Breccia	156	157	1	<0.001	0.4	49	19	112
FK17-07	836687	Breccia	157	158	1	<0.001	0.5	68	11	78
FK17-07	836688	Breccia	158	159	1	<0.001	0.6	110	26	156
FK17-07	836689	Breccia	159	160	1	0.001	0.8	76	49	187
FK17-07	836691	Breccia	160	161	1	<0.001	0.3	51	21	129
FK17-07	836692	Breccia	161	162	1	<0.001	0.3	89	13	77
FK17-07	836693	Breccia	162	163	1	<0.001	0.3	74	10	85
FK17-07	836694	Breccia	163	164	1	<0.001	<0.2	24	12	48
FK17-07	836695	Breccia	164	165	1	<0.001	0.3	29	27	64
FK17-07	836696	Breccia	165	166	1	<0.001	0.6	46	40	144
FK17-07	836697	Breccia	166	167	1	<0.001	0.5	45	38	85
FK17-07	836698	Breccia	167	168	1	<0.001	1.2	51	23	92
FK17-07	836699	Breccia	168	169	1	0.002	0.6	47	34	207
FK17-07	836701	Breccia	169	170	1	0.003	0.4	35	17	93
FK17-07	836702	Breccia	170	171	1	0.004	0.3	41	17	65
FK17-07	836703	Breccia	171	172	1	0.001	0.3	20	18	42
FK17-07	836704	Breccia	172	173	1	0.018	0.4	64	26	85
FK17-07	836705	Breccia	173	174	1	0.002	0.2	50	22	99
FK17-07	836706	Pl-phyric coherent	174	175	1	<0.001	0.2	25	15	54
FK17-07	836707	Pl-phyric coherent	175	176	1	<0.001	<0.2	42	21	87
FK17-07	836708	Pl-phyric coherent	176	177	1	0.001	0.4	14	23	58
FK17-07	836709	Pl-phyric coherent	177	178	1	<0.001	0.2	7	19	70
FK17-07	836711	Pl-phyric coherent	178	179	1	<0.001	<0.2	4	52	83
FK17-07	836712	Pl-phyric coherent	179	180	1	<0.001	0.5	8	58	126
FK17-07	836713	Pl-phyric coherent	180	181	1	<0.001	0.6	8	56	232
FK17-07	836714	Pl-phyric coherent	181	182	1	<0.001	<0.2	6	10	97
FK17-07	836715	Pl-phyric coherent	182	183	1	<0.001	0.2	7	16	79
FK17-07	836716	Pl-phyric coherent	183	184	1	<0.001	<0.2	7	13	86
FK17-07	836717	Pl-phyric coherent	184	185	1	<0.001	2.4	54	41	124
FK17-07	836718	Pl-phyric coherent	185	186	1	<0.001	<0.2	9	12	81
FK17-07	836719	Pl-phyric coherent	186	187	1	<0.001	0.2	24	26	105

Hole ID	Sample #	Rock Type	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
FK17-07	836721	Pl-phyric coherent	187	188	1	0.003	1.1	7	23	71
FK17-07	836722	Pl-phyric coherent	188	189	1	0.065	0.3	9	10	105
FK17-07	836723	Pl-phyric coherent	189	190	1	0.011	0.5	25	67	73
FK17-07	836724	Pl-phyric coherent	190	191	1	0.064	0.3	146	13	141
FK17-07	836725	Pl-phyric coherent	191	192	1	0.086	0.3	120	13	108
FK17-07	836726	Pl-phyric coherent	192	193	1	0.087	0.3	451	8	112
FK17-07	836727	Pl-phyric coherent	193	194	1	0.009	<0.2	10	6	91
FK17-07	836728	Pl-phyric coherent	194	195	1	0.032	<0.2	16	7	113
FK17-07	836729	Pl-phyric coherent	195	196	1	0.009	<0.2	11	7	125
FK17-07	836731	Pl-phyric coherent	196	197	1	0.037	<0.2	20	7	73
FK17-07	836732	Pl-phyric coherent	197	198	1	0.001	<0.2	69	4	84
FK17-07	836733	Pl-phyric coherent	198	199	1	0.002	<0.2	42	7	68
FK17-07	836734	Pl-phyric coherent	199	200	1	0.013	<0.2	1	5	102
FK17-07	836735	Pl-phyric coherent	200	201	1	0.001	<0.2	2	6	82
FK17-07	836736	Pl-phyric coherent	201	202	1	0.007	<0.2	8	8	87
FK17-07	836737	Pl-phyric coherent	202	203	1	0.014	<0.2	37	9	120
FK17-07	836738	Pl-phyric coherent	203	204	1	0.001	<0.2	3	9	129
FK17-07	836739	Pl-phyric coherent	204	205	1	<0.001	<0.2	2	6	107
FK17-07	836741	Pl-phyric coherent	205	206	1	0.022	<0.2	5	8	92
FK17-07	836742	Pl-phyric coherent	206	207	1	0.032	<0.2	5	5	92
FK17-07	836743	Pl-phyric coherent	207	208	1	0.014	<0.2	7	3	126
FK17-07	836744	Pl-phyric coherent	208	209	1	0.024	<0.2	19	5	87
FK17-07	836745	Pl-phyric coherent	209	210	1	0.002	<0.2	2	5	72
FK17-07	836746	Pl-phyric coherent	210	211	1	0.005	<0.2	3	5	62
FK17-07	836747	Pl-phyric coherent	211	212	1	0.049	<0.2	157	6	61
FK17-07	836748	Pl-phyric coherent	212	213	1	0.629	1	290	12	43
FK17-07	836749	Pl-phyric coherent	213	214	1	0.083	<0.2	5	7	68
FK17-07	836751	Pl-phyric coherent	214	215	1	0.003	<0.2	1	4	86
FK17-07	836752	Pl-phyric coherent	215	216	1	0.051	<0.2	71	6	98
FK17-07	836753	Pl-phyric coherent	216	217	1	0.023	<0.2	45	4	110
FK17-07	836754	Pl-phyric coherent	217	218	1	0.006	<0.2	46	2	124
FK17-07	836755	Pl-phyric coherent	218	219	1	0.004	<0.2	25	3	82
FK17-07	836756	Pl-phyric coherent	219	220	1	0.038	0.2	117	5	105
FK17-07	836757	Pl-phyric coherent	220	221	1	0.015	<0.2	99	3	129
FK17-07	836758	Pl-phyric coherent	221	222	1	0.022	<0.2	198	3	131
FK17-07	836759	Pl-phyric coherent	222	223	1	0.004	<0.2	13	5	147
FK17-07	836761	Pl-phyric coherent	223	224	1	0.002	<0.2	12	2	95
FK17-07	836762	Pl-phyric coherent	224	225	1	0.048	<0.2	4	3	124
FK17-07	836763	Pl-phyric coherent	225	226	1	0.011	<0.2	32	2	162
FK17-07	836764	Pl-phyric coherent	226	227	1	0.005	<0.2	8	6	136
FK17-07	836765	Pl-phyric coherent	227	228	1	0.005	<0.2	42	5	127
FK17-07	836766	Pl-phyric coherent	228	229	1	0.04	0.2	40	6	134

Hole ID	Sample #	Rock Type	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
FK17-07	836767	Pl-phyric coherent	229	230	1	<0.001	<0.2	2	3	114
FK17-07	836768	Pl-phyric coherent	230	231	1	<0.001	<0.2	1	5	100
FK17-07	836769	Pl-phyric coherent	231	232	1	<0.001	<0.2	1	3	90
FK17-07	836771	Pl-phyric coherent	232	233	1	0.001	<0.2	4	4	80
FK17-07	836772	Pl-phyric coherent	233	234	1	0.003	<0.2	14	3	100
FK17-07	836773	Pl-phyric coherent	234	235	1	<0.001	<0.2	2	3	82
FK17-07	836774	Pl-phyric coherent	235	236	1	0.014	<0.2	6	6	85
FK17-07	836775	Pl-phyric coherent	236	237	1	0.013	<0.2	6	6	95
FK17-07	836776	Pl-phyric coherent	237	238	1	0.034	<0.2	3	6	100
FK17-07	836777	Pl-phyric coherent	238	239	1	0.037	<0.2	9	8	112
FK17-07	836778	Pl-phyric coherent	239	240	1	0.001	<0.2	6	2	93
FK17-07	836779	Pl-phyric coherent	240	241	1	0.068	<0.2	3	5	96
FK17-07	836781	Pl-phyric coherent	241	242	1	0.015	<0.2	4	2	70
FK17-07	836782	Pl-phyric coherent	242	243	1	0.007	<0.2	1	2	97
FK17-07	836783	Pl-phyric coherent	243	244	1	0.001	<0.2	2	2	150
FK17-07	836784	Pl-phyric coherent	244	245	1	0.012	<0.2	<1	2	146
FK17-07	836785	Pl-phyric coherent	245	246	1	0.009	<0.2	1	3	78
FK17-07	836786	Pl-phyric coherent	246	247	1	0.017	<0.2	17	3	99
FK17-07	836787	Pl-phyric coherent	247	248	1	0.065	<0.2	18	4	95
FK17-07	836788	Pl-phyric coherent	248	249	1	0.033	<0.2	5	4	139
FK17-07	836789	Pl-phyric coherent	249	250	1	0.078	0.2	16	8	107
FK17-07	836791	Pl-phyric coherent	250	251	1	0.058	<0.2	1	4	130
FK17-07	836792	Pl-phyric coherent	251	252	1	0.096	0.5	927	3	121
FK17-07	836793	Crystal lithic lapilli tuff	252	253	1	0.051	<0.2	14	5	134
FK17-07	836794	Crystal lithic lapilli tuff	253	254	1	0.004	<0.2	54	3	67
FK17-07	836795	Crystal lithic lapilli tuff	254	255	1	0.002	<0.2	10	3	117
FK17-07	836796	Crystal lithic lapilli tuff	255	256	1	0.012	<0.2	61	2	98
FK17-07	836797	Crystal lithic lapilli tuff	256	257	1	0.02	<0.2	135	3	129
FK17-07	836798	Crystal lithic lapilli tuff	257	258	1	0.072	0.3	189	3	139
FK17-07	836799	Crystal lithic lapilli tuff	258	259	1	0.003	<0.2	61	2	114
FK17-07	836801	Crystal lithic lapilli tuff	259	260	1	0.008	<0.2	47	3	143
FK17-07	836802	Crystal lithic lapilli tuff	260	261	1	0.026	<0.2	7	2	104
FK17-07	836803	Crystal lithic lapilli tuff	261	262	1	<0.001	<0.2	1	2	97
FK17-07	836804	Crystal lithic lapilli tuff	262	263	1	0.001	<0.2	<1	4	102
FK17-07	836805	Crystal lithic lapilli tuff	263	264	1	0.004	<0.2	<1	5	92
FK17-07	836806	Crystal lithic lapilli tuff	264	265	1	0.015	<0.2	<1	6	94
FK17-07	836807	Crystal lithic lapilli tuff	265	266	1	0.013	<0.2	<1	5	71
FK17-07	836808	Crystal lithic lapilli tuff	266	267	1	0.001	<0.2	<1	5	91
FK17-07	836809	Crystal lithic lapilli tuff	267	268	1	0.013	<0.2	<1	6	85
FK17-07	836811	Crystal lithic lapilli tuff	268	269	1	0.015	<0.2	<1	13	104
FK17-07	836812	Crystal lithic lapilli tuff	269	270	1	<0.001	<0.2	1	5	86
FK17-07	836813	Crystal lithic lapilli tuff	270	271	1	0.011	<0.2	78	7	61

Hole ID	Sample #	Rock Type	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
FK17-07	836814	Crystal lithic lapilli tuff	271	272	1	0.012	<0.2	186	3	131
FK17-07	836815	Crystal lithic lapilli tuff	272	273	1	0.004	<0.2	51	5	127
FK17-07	836816	Crystal lithic lapilli tuff	273	274	1	0.006	<0.2	3	2	102
FK17-07	836817	Crystal lithic lapilli tuff	274	275	1	0.004	<0.2	10	7	154
FK17-07	836818	Crystal lithic lapilli tuff	275	276	1	0.004	<0.2	1	4	131
FK17-07	836819	Crystal lithic lapilli tuff	276	277	1	0.005	<0.2	2	5	121
FK17-07	836821	Crystal lithic lapilli tuff	277	278	1	0.005	<0.2	<1	4	90
FK17-07	836822	Crystal lithic lapilli tuff	278	279	1	0.032	<0.2	<1	7	90
FK17-07	836823	Crystal lithic lapilli tuff	279	280	1	0.002	<0.2	<1	6	102
FK17-07	836824	Crystal lithic lapilli tuff	280	281	1	0.008	<0.2	6	3	121
FK17-07	836825	Crystal lithic lapilli tuff	281	282	1	0.048	0.2	60	4	111
FK17-07	836826	Crystal lithic lapilli tuff	282	283	1	0.038	0.2	76	4	114
FK17-07	836827	Crystal lithic lapilli tuff	283	284	1	0.002	<0.2	41	3	112
FK17-07	836828	Crystal lithic lapilli tuff	284	285	1	0.02	<0.2	185	3	115
FK17-07	836829	Crystal lithic lapilli tuff	285	286	1	0.047	<0.2	417	5	77
FK17-07	836831	Crystal lithic lapilli tuff	286	287	1	<0.001	<0.2	16	3	46
FK17-07	836832	Crystal lithic lapilli tuff	287	288	1	0.022	<0.2	99	2	99
FK17-07	836833	Crystal lithic lapilli tuff	288	289	1	0.048	<0.2	59	2	109
FK17-07	836834	Crystal lithic lapilli tuff	289	290	1	0.045	<0.2	226	<2	98
FK17-07	836835	Crystal lithic lapilli tuff	290	291	1	0.002	<0.2	102	<2	68
FK17-07	836836	Crystal lithic lapilli tuff	291	292	1	0.123	<0.2	94	2	60
FK17-07	836837	Crystal lithic lapilli tuff	292	293	1	0.151	<0.2	200	<2	91
FK17-07	836838	Crystal lithic lapilli tuff	293	294	1	0.019	<0.2	198	3	210
FK17-07	836839	Crystal lithic lapilli tuff	294	295	1	0.025	<0.2	242	2	77
FK17-07	836841	Crystal lithic lapilli tuff	295	296	1	0.006	<0.2	80	2	74
FK17-07	836842	Crystal lithic lapilli tuff	296	297	1	0.045	<0.2	29	2	106
FK17-07	836843	Crystal lithic lapilli tuff	297	298	1	0.022	<0.2	43	2	93
FK17-07	836844	Crystal lithic lapilli tuff	298	299	1	0.019	<0.2	34	<2	100
FK17-07	836845	Crystal lithic lapilli tuff	299	300	1	0.102	0.4	696	<2	113
FK17-07	836846	Crystal lithic lapilli tuff	300	301	1	0.001	<0.2	8	2	125
FK17-07	836847	Crystal lithic lapilli tuff	301	302	1	0.018	<0.2	39	2	255
FK17-07	836848	Crystal lithic lapilli tuff	302	303	1	0.002	<0.2	5	<2	221
FK17-07	836849	Crystal lithic lapilli tuff	303	304	1	<0.001	<0.2	2	2	214
FK17-07	836851	Crystal lithic lapilli tuff	304	305	1	0.03	<0.2	45	3	221
FK17-07	836852	Crystal lithic lapilli tuff	305	306	1	<0.001	<0.2	119	2	201
FK17-07	836853	Crystal lithic lapilli tuff	306	307	1	0.124	1.4	1520	4	176
FK17-07	836854	Crystal lithic lapilli tuff	307	308	1	0.004	<0.2	5	3	51
FK17-07	836855	Crystal lithic lapilli tuff	308	309	1	<0.001	<0.2	1	3	30
FK17-07	836856	Crystal lithic lapilli tuff	309	310	1	<0.001	<0.2	<1	2	21
FK17-07	836857	Crystal lithic lapilli tuff	310	311	1	<0.001	<0.2	3	4	32
FK17-07	836858	Crystal lithic lapilli tuff	311	312	1	<0.001	<0.2	1	4	27
FK17-07	836859	Crystal lithic lapilli tuff	312	313	1	<0.001	<0.2	1	3	63

Hole ID	Sample #	Rock Type	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
FK17-07	836861	Crystal lithic lapilli tuff	313	314	1	<0.001	<0.2	2	5	69
FK17-07	836862	Crystal lithic lapilli tuff	314	315	1	<0.001	<0.2	1	4	60
FK17-07	836863	Crystal lithic lapilli tuff	315	316	1	<0.001	<0.2	1	4	59
FK17-07	836864	Crystal lithic lapilli tuff	316	317	1	<0.001	<0.2	1	4	84
FK17-07	836865	Crystal lithic lapilli tuff	317	318	1	<0.001	<0.2	1	4	73
FK17-07	836866	Crystal lithic lapilli tuff	318	319	1	<0.001	<0.2	1	4	79
FK17-07	836867	Crystal lithic lapilli tuff	319	320	1	<0.001	<0.2	3	3	69
FK17-07	836868	Crystal lithic lapilli tuff	320	321	1	<0.001	<0.2	1	3	75
FK17-07	836869	Crystal lithic lapilli tuff	321	322	1	0.001	<0.2	3	4	83
FK17-07	836871	Crystal lithic lapilli tuff	322	323	1	0.004	<0.2	2	3	106
FK17-07	836872	Crystal lithic lapilli tuff	323	324	1	<0.001	<0.2	2	3	82
FK17-07	836873	Crystal lithic lapilli tuff	324	325	1	<0.001	<0.2	2	3	75
FK17-07	836874	Crystal lithic lapilli tuff	325	326	1	0.002	<0.2	1	3	85
FK17-07	836875	Crystal lithic lapilli tuff	326	327	1	<0.001	<0.2	1	3	65
FK17-07	836876	Crystal lithic lapilli tuff	327	328	1	<0.001	<0.2	4	3	68
FK17-07	836877	Crystal lithic lapilli tuff	328	329	1	<0.001	<0.2	1	4	71
FK17-07	836878	Crystal lithic lapilli tuff	329	330	1	<0.001	<0.2	2	4	72
FK17-07	836879	Crystal lithic lapilli tuff	330	331	1	<0.001	<0.2	2	4	80
FK17-07	836881	Crystal lithic lapilli tuff	331	332	1	<0.001	<0.2	2	5	72
FK17-07	836882	Crystal lithic lapilli tuff	332	333	1	0.007	<0.2	2	4	137
FK17-07	836883	Crystal lithic lapilli tuff	333	334	1	0.004	<0.2	21	4	93
FK17-07	836884	Crystal lithic lapilli tuff	334	335	1	0.019	<0.2	3	3	75
FK17-07	836885	Crystal lithic lapilli tuff	335	336	1	0.013	<0.2	1	3	142
FK17-07	836886	Crystal lithic lapilli tuff	336	337	1	0.023	1.7	1825	10	11700
FK17-07	836887	Crystal lithic lapilli tuff	337	338	1	0.029	0.2	110	7	215
FK17-07	836888	Crystal lithic lapilli tuff	338	339	1	0.014	<0.2	288	2	197
FK17-07	836889	Crystal lithic lapilli tuff	339	340	1	0.025	0.7	634	4	295
FK17-07	836891	Crystal lithic lapilli tuff	340	341	1	0.014	<0.2	53	4	136
FK17-07	836892	Crystal lithic lapilli tuff	341	342	1	0.002	<0.2	3	4	109
FK17-07	836893	Crystal lithic lapilli tuff	342	343	1	0.004	<0.2	2	2	146
FK17-07	836894	Crystal lithic lapilli tuff	343	344	1	0.007	<0.2	25	2	163
FK17-07	836895	Crystal lithic lapilli tuff	344	345	1	0.008	<0.2	<1	2	142
FK17-07	836896	Crystal lithic lapilli tuff	345	346	1	0.011	<0.2	4	2	156
FK17-07	836897	Crystal lithic lapilli tuff	346	347	1	0.125	<0.2	37	2	156
FK17-07	836898	Crystal lithic lapilli tuff	347	348	1	0.158	0.3	19	5	214
FK17-07	836899	Crystal lithic lapilli tuff	348	349	1	0.007	<0.2	28	4	157
FK17-07	836901	Crystal lithic lapilli tuff	349	350	1	0.007	<0.2	2	3	95
FK17-07	836902	Crystal lithic lapilli tuff	350	351	1	0.01	<0.2	2	4	158
FK17-07	836903	Crystal lithic lapilli tuff	351	352	1	0.002	<0.2	8	3	141
FK17-07	836904	Crystal lithic lapilli tuff	352	353	1	0.001	<0.2	4	5	128
FK17-07	836905	Crystal lithic lapilli tuff	353	354	1	0.005	<0.2	87	5	162
FK17-07	836906	Crystal lithic lapilli tuff	354	355	1	0.027	<0.2	33	6	157

Hole ID	Sample #	Rock Type	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
FK17-07	836907	Crystal lithic lapilli tuff	355	356	1	0.002	<0.2	7	2	191
FK17-07	836908	Crystal lithic lapilli tuff	356	357	1	0.02	0.3	44	4	175
FK17-07	836909	Crystal lithic lapilli tuff	357	358	1	0.008	<0.2	4	4	158
FK17-07	836911	Crystal lithic lapilli tuff	358	359	1	<0.001	<0.2	7	2	156
FK17-07	836912	Crystal lithic lapilli tuff	359	360	1	<0.001	<0.2	2	2	166
FK17-07	836913	Crystal lithic lapilli tuff	360	361	1	<0.001	<0.2	3	3	102
FK17-07	836914	Crystal lithic lapilli tuff	361	362	1	0.007	<0.2	9	3	159
FK17-07	836915	Crystal lithic lapilli tuff	362	363	1	0.039	0.2	64	4	221
FK17-07	836916	Crystal lithic lapilli tuff	363	364	1	0.005	<0.2	3	4	171
FK17-07	836917	Crystal lithic lapilli tuff	364	365	1	<0.001	0.2	30	11	242
FK17-07	836918	Crystal lithic lapilli tuff	365	366	1	<0.001	<0.2	4	21	147
FK17-07	836919	Crystal lithic lapilli tuff	366	367	1	<0.001	<0.2	3	6	100
FK17-07	836921	Crystal lithic lapilli tuff	367	368	1	0.001	<0.2	3	5	62
FK17-07	836922	Crystal lithic lapilli tuff	368	369	1	<0.001	<0.2	3	6	89
FK17-07	836923	Crystal lithic lapilli tuff	369	370	1	<0.001	<0.2	3	5	85
FK17-07	836924	Crystal lithic lapilli tuff	370	371	1	<0.001	0.3	73	9	979
FK17-07	836925	Crystal lithic lapilli tuff	371	372	1	<0.001	<0.2	3	6	81
FK17-07	836926	Crystal lithic lapilli tuff	372	373	1	<0.001	<0.2	2	7	78
FK17-07	836927	Crystal lithic lapilli tuff	373	374	1	0.002	<0.2	3	7	79
FK17-07	836928	Crystal lithic lapilli tuff	374	375	1	<0.001	<0.2	2	6	55
FK17-07	836929	Crystal lithic lapilli tuff	375	376	1	0.005	<0.2	4	5	34
FK17-07	836931	Crystal lithic lapilli tuff	376	377	1	0.011	<0.2	3	5	49
FK17-07	836932	Crystal lithic lapilli tuff	377	378	1	<0.001	<0.2	5	4	46
FK17-07	836933	Crystal lithic lapilli tuff	378	379	1	0.002	<0.2	9	3	53
FK17-07	836934	Mineralized bx	379	380	1	1.155	4.7	4700	16	432
FK17-07	836935	Crystal lithic lapilli tuff	380	381	1	0.026	0.3	35	7	105
FK17-07	836936	Crystal lithic lapilli tuff	381	382	1	0.009	<0.2	16	5	105
FK17-07	836937	Crystal lithic lapilli tuff	382	383	1	0.001	<0.2	5	4	93
FK17-07	836938	Crystal lithic lapilli tuff	383	384	1	0.006	0.2	4	22	46
FK17-07	836939	Crystal lithic lapilli tuff	384	385	1	0.001	<0.2	1	4	38
FK17-07	836941	Crystal lithic lapilli tuff	385	386	1	0.001	<0.2	2	5	72
FK17-07	836942	Crystal lithic lapilli tuff	386	387	1	<0.001	<0.2	1	5	20
FK17-07	836943	Crystal lithic lapilli tuff	387	388	1	<0.001	<0.2	7	4	22
FK17-07	836944	Crystal lithic lapilli tuff	388	389	1	0.002	<0.2	8	4	13
FK17-07	836945	Crystal lithic lapilli tuff	389	390	1	0.002	<0.2	5	4	12
FK17-07	836946	Crystal lithic lapilli tuff	390	391	1	0.002	0.2	2	7	18
FK17-07	836947	Crystal lithic lapilli tuff	391	392	1	<0.001	<0.2	1	8	30
FK17-07	836948	Crystal lithic lapilli tuff	392	393	1	<0.001	<0.2	5	6	18
FK17-07	836949	Crystal lithic lapilli tuff	393	394	1	<0.001	<0.2	2	7	21
FK17-07	836951	Crystal lithic lapilli tuff	394	395	1	0.004	<0.2	1	7	21
FK17-07	836952	Crystal lithic lapilli tuff	395	396	1	0.003	<0.2	2	6	22
FK17-07	836953	Crystal lithic lapilli tuff	396	397	1	0.003	<0.2	1	8	11

Hole ID	Sample #	Rock Type	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
FK17-07	836954	Crystal lithic lapilli tuff	397	398	1	0.003	<0.2	1	8	25
FK17-07	836955	Crystal lithic lapilli tuff	398	399	1	0.001	<0.2	1	7	17
FK17-07	836956	Crystal lithic lapilli tuff	399	400	1	0.003	<0.2	1	7	16
FK17-07	836957	Crystal lithic lapilli tuff	400	401	1	<0.001	<0.2	1	10	19
FK17-07	836958	Crystal lithic lapilli tuff	401	402	1	<0.001	<0.2	4	15	18
FK17-07	836959	Crystal lithic lapilli tuff	402	403	1	0.007	0.4	50	500	370
FK17-07	836961	Crystal lithic lapilli tuff	403	404	1	0.006	<0.2	2	11	60
FK17-07	836962	Crystal lithic lapilli tuff	404	405	1	0.001	<0.2	1	12	34
FK17-07	836963	Crystal lithic lapilli tuff	405	406	1	0.016	0.3	12	125	609
FK17-07	836964	Crystal lithic lapilli tuff	406	407	1	0.012	<0.2	1	9	112
FK17-07	836965	Crystal lithic lapilli tuff	407	408	1	0.012	<0.2	1	10	86
FK17-07	836966	Crystal lithic lapilli tuff	408	409	1	<0.001	<0.2	2	9	81
FK17-07	836967	Crystal lithic lapilli tuff	409	410	1	0.003	<0.2	5	15	119
FK17-07	836968	Crystal lithic lapilli tuff	410	411	1	0.001	<0.2	7	20	125
FK17-07	836969	Crystal lithic lapilli tuff	411	412	1	<0.001	<0.2	1	7	148
FK17-07	836971	Crystal lithic lapilli tuff	412	413	1	0.001	<0.2	<1	5	112
FK17-07	836972	Crystal lithic lapilli tuff	413	414	1	<0.001	<0.2	1	5	92
FK17-07	836973	Crystal lithic lapilli tuff	414	415	1	0.002	<0.2	2	3	138
FK17-07	836974	Crystal lithic lapilli tuff	415	416	1	<0.001	<0.2	10	3	92
FK17-08	836975	Pl-phyric coherent	3	4	1	0.001	<0.2	34	2	61
FK17-08	836977	Pl-phyric coherent	4	5	1	0.002	0.3	216	49	670
FK17-08	836978	Pl-phyric coherent	5	6	1	0.112	<0.2	9	10	58
FK17-08	836979	Pl-phyric coherent	6	7	1	<0.001	<0.2	9	3	43
FK17-08	836981	Pl-phyric coherent	7	8	1	<0.001	0.3	234	4	32
FK17-08	836982	Pl-phyric coherent	8	9	1	<0.001	<0.2	159	4	40
FK17-08	836983	Pl-phyric coherent	9	10	1	<0.001	<0.2	60	<2	21
FK17-08	836984	Pl-phyric coherent	10	11	1	<0.001	<0.2	9	2	28
FK17-08	836985	Pl-phyric coherent	11	12	1	<0.001	<0.2	13	<2	23
FK17-08	836986	Pl-phyric coherent	12	13	1	<0.001	<0.2	10	<2	30
FK17-08	836987	Pl-phyric coherent	13	14	1	<0.001	<0.2	16	2	38
FK17-08	836988	Pl-phyric coherent	14	15	1	<0.001	<0.2	15	2	63
FK17-08	836989	Pl-phyric coherent	15	16	1	<0.001	<0.2	2	<2	60
FK17-08	836991	Pl-phyric coherent	16	17	1	<0.001	<0.2	5	<2	32
FK17-08	836992	Pl-phyric coherent	17	18	1	0.042	0.2	33	7	50
FK17-08	836993	Pl-phyric coherent	18	19	1	0.01	0.2	9	4	59
FK17-08	836994	Pl-phyric coherent	19	20	1	0.004	0.2	2	3	48
FK17-08	836995	Pl-phyric coherent	20	21	1	0.002	<0.2	1	2	45
FK17-08	836996	Pl-phyric coherent	21	22	1	0.005	<0.2	5	2	169
FK17-08	836997	Pl-phyric coherent	22	23	1	0.003	<0.2	2	2	31
FK17-08	836998	Pl-phyric coherent	23	24	1	0.001	<0.2	21	4	42
FK17-08	836999	Pl-phyric coherent	24	25	1	<0.001	<0.2	214	3	36
FK17-08	837001	Pl-phyric coherent	25	26	1	0.005	0.2	199	6	49

Hole ID	Sample #	Rock Type	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
FK17-08	837002	Pl-phyric coherent	26	27	1	<0.001	<0.2	11	6	39
FK17-08	837003	Pl-phyric coherent	27	28	1	<0.001	<0.2	2	6	33
FK17-08	837004	Pl-phyric coherent	28	29	1	<0.001	<0.2	7	3	21
FK17-08	837005	Pl-phyric coherent	29	30	1	<0.001	<0.2	9	5	26
FK17-08	837006	Pl-phyric coherent	30	31	1	0.001	<0.2	6	23	75
FK17-08	837007	Pl-phyric coherent	31	32	1	<0.001	<0.2	22	26	116
FK17-08	837008	Pl-phyric coherent	32	33	1	<0.001	<0.2	2	8	35
FK17-08	837009	Pl-phyric coherent	33	34	1	<0.001	<0.2	39	15	39
FK17-08	837011	Pl-phyric coherent	34	35	1	<0.001	<0.2	11	18	79
FK17-08	837012	Pl-phyric coherent	35	36	1	0.005	<0.2	9	31	105
FK17-08	837013	Pl-phyric coherent	36	37	1	0.03	0.4	11	139	373
FK17-08	837014	Pl-phyric coherent	37	38	1	0.201	0.8	34	605	2110
FK17-08	837015	Pl-phyric coherent	38	39	1	0.018	<0.2	5	35	391
FK17-08	837016	Pl-phyric coherent	39	40	1	0.101	0.3	5	89	403
FK17-08	837017	Pl-phyric coherent	40	41	1	0.025	0.2	5	12	54
FK17-08	837018	Pl-phyric coherent	41	42	1	0.005	0.2	11	8	88
FK17-08	837019	Pl-phyric coherent	42	43	1	<0.001	<0.2	33	4	114
FK17-08	837021	Pl-phyric coherent	43	44	1	<0.001	<0.2	2	4	90
FK17-08	837022	Pl-phyric coherent	44	45	1	<0.001	<0.2	13	5	120
FK17-08	837023	Pl-phyric coherent	45	46	1	0.003	<0.2	20	3	115
FK17-08	837024	Pl-phyric coherent	46	47	1	0.002	<0.2	3	2	147
FK17-08	837025	Breccia	47	48	1	0.051	0.8	192	42	306
FK17-08	837026	Breccia	48	49	1	0.038	0.6	94	39	141
FK17-08	837027	Breccia	49	50	1	0.042	0.7	433	49	90
FK17-08	837028	Breccia	50	51	1	0.092	0.7	188	53	67
FK17-08	837029	Breccia	51	52	1	0.067	0.8	74	55	109
FK17-08	837031	Pl-phyric coherent	52	53	1	0.075	1.5	1510	37	99
FK17-08	837032	Pl-phyric coherent	53	54	1	0.009	<0.2	25	6	165
FK17-08	837033	Pl-phyric coherent	54	55	1	0.007	<0.2	27	3	140
FK17-08	837034	Pl-phyric coherent	55	56	1	0.002	<0.2	18	4	127
FK17-08	837035	Crystal lithic lapilli tuff	56	57	1	0.047	0.5	232	25	122
FK17-08	837036	Crystal lithic lapilli tuff	57	58	1	0.01	<0.2	434	9	61
FK17-08	837037	Crystal lithic lapilli tuff	58	59	1	0.05	0.3	55	11	98
FK17-08	837038	Crystal lithic lapilli tuff	59	60	1	0.01	<0.2	135	11	115
FK17-08	837039	Crystal lithic lapilli tuff	60	61	1	0.02	<0.2	171	7	109
FK17-08	837041	Crystal lithic lapilli tuff	61	62	1	0.004	<0.2	71	4	108
FK17-08	837042	Crystal lithic lapilli tuff	62	63	1	0.004	<0.2	52	5	90
FK17-08	837043	Crystal lithic lapilli tuff	63	64	1	0.009	<0.2	239	8	90
FK17-08	837044	Crystal lithic lapilli tuff	64	65	1	<0.001	<0.2	11	4	89
FK17-08	837045	Crystal lithic lapilli tuff	65	66	1	<0.001	<0.2	225	4	90
FK17-08	837046	Crystal lithic lapilli tuff	66	67	1	0.024	<0.2	348	11	157
FK17-08	837047	Pl-phyric coherent	67	68	1	0.005	<0.2	4	4	83

Hole ID	Sample #	Rock Type	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
FK17-08	837048	Pl-phyric coherent	68	69	1	0.007	<0.2	2	3	119
FK17-08	837049	Pl-phyric coherent	69	70	1	0.002	<0.2	2	2	152
FK17-08	837051	Pl-phyric coherent	70	71	1	0.02	<0.2	5	3	172
FK17-08	837052	Pl-phyric coherent	71	72	1	0.094	0.5	859	5	257
FK17-08	837053	Pl-phyric coherent	72	73	1	0.001	<0.2	118	3	335
FK17-08	837054	Pl-phyric coherent	73	74	1	0.001	<0.2	51	7	363
FK17-08	837055	Pl-phyric coherent	74	75	1	0.106	1.1	319	18	257
FK17-08	837056	Pl-phyric coherent	75	76	1	0.122	1	657	20	325
FK17-08	837057	Pl-phyric coherent	76	77	1	0.029	0.2	123	9	302
FK17-08	837058	Pl-phyric coherent	77	78	1	0.004	<0.2	138	4	309
FK17-08	837059	Pl-phyric coherent	78	79	1	0.008	<0.2	96	2	237
FK17-08	837061	Pl-phyric coherent	79	80	1	<0.001	<0.2	20	2	265
FK17-08	837062	Pl-phyric coherent	80	81	1	0.01	<0.2	18	6	244
FK17-08	837063	Pl-phyric coherent	81	82	1	0.039	0.6	214	9	144
FK17-08	837064	Pl-phyric coherent	82	83	1	0.118	1	1290	7	190
FK17-08	837065	Pl-phyric coherent	83	84	1	0.176	0.7	1210	8	1080
FK17-08	837066	Pl-phyric coherent	84	85	1	0.16	<0.2	22	6	2630
FK17-08	837067	Pl-phyric coherent	85	86	1	0.203	<0.2	45	3	4370
FK17-08	837068	Pl-phyric coherent	86	87	1	0.004	<0.2	13	5	1420
FK17-08	837069	Pl-phyric coherent	87	88	1	0.052	<0.2	7	3	1330
FK17-08	837071	Pl-phyric coherent	88	89	1	0.768	0.4	88	4	2880
FK17-08	837072	Pl-phyric coherent	89	90	1	0.108	0.2	53	2	1325
FK17-08	837073	Pl-phyric coherent	90	91	1	0.034	<0.2	7	2	1310
FK17-08	837074	Pl-phyric coherent	91	92	1	0.003	<0.2	17	3	3950
FK17-08	837075	Pl-phyric coherent	92	93	1	0.014	0.2	54	3	2270
FK17-08	837076	Pl-phyric coherent	93	94	1	0.084	<0.2	29	4	484
FK17-08	837077	Pl-phyric coherent	94	95	1	0.101	<0.2	7	4	209
FK17-08	837078	Pl-phyric coherent	95	96	1	0.238	<0.2	27	2	813
FK17-08	837079	Pl-phyric coherent	96	97	1	0.095	0.2	52	4	2180
FK17-08	837081	Pl-phyric coherent	97	98	1	0.004	<0.2	146	3	305
FK17-08	837082	Pl-phyric coherent	98	99	1	0.022	0.4	942	5	518
FK17-08	837083	Pl-phyric coherent	99	100	1	0.409	0.7	646	8	5040
FK17-08	837084	Pl-phyric coherent	100	101	1	0.279	0.7	661	10	1425
FK17-08	837085	Pl-phyric coherent	101	102	1	0.001	<0.2	34	4	62
FK17-08	837086	Pl-phyric coherent	102	103	1	0.005	<0.2	56	4	146
FK17-08	837087	Pl-phyric coherent	103	104	1	0.006	<0.2	198	4	168
FK17-08	837088	Pl-phyric coherent	104	105	1	0.014	<0.2	154	4	178
FK17-08	837089	Pl-phyric coherent	105	106	1	0.008	0.2	345	5	181
FK17-08	837091	Pl-phyric coherent	106	107	1	0.008	0.3	205	13	177
FK17-08	837092	Pl-phyric coherent	107	108	1	0.005	0.2	280	8	194
FK17-08	837093	Pl-phyric coherent	108	109	1	0.031	0.2	360	7	220
FK17-08	837094	Pl-phyric coherent	109	110	1	0.058	0.2	57	14	785

Hole ID	Sample #	Rock Type	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
FK17-08	837095	Pl-phyric coherent	110	111	1	0.013	0.2	58	20	246
FK17-08	837096	Pl-phyric coherent	111	112	1	0.108	0.3	100	18	2520
FK17-08	837097	Pl-phyric coherent	112	113	1	0.037	0.2	83	14	506
FK17-08	837098	Pl-phyric coherent	113	114	1	0.002	<0.2	20	9	196
FK17-08	837099	Pl-phyric coherent	114	115	1	0.013	0.3	150	14	364
FK17-08	837101	Pl-phyric coherent	115	116	1	0.243	2.3	159	52	57
FK17-08	837102	Pl-phyric coherent	116	117	1	0.292	2	290	61	120
FK17-08	837103	Pl-phyric coherent	117	118	1	0.007	0.3	22	15	205
FK17-08	837104	Pl-phyric coherent	118	119	1	0.021	0.2	82	6	186
FK17-08	837105	Pl-phyric coherent	119	120	1	0.027	0.3	181	12	175
FK17-08	837106	Pl-phyric coherent	120	121	1	0.022	0.4	834	38	187
FK17-08	837107	Pl-phyric coherent	121	122	1	0.035	0.3	361	27	289
FK17-08	837108	Pl-phyric coherent	122	123	1	0.097	0.6	118	69	199
FK17-08	837109	Pl-phyric coherent	123	124	1	0.151	0.2	190	12	262
FK17-08	837111	Pl-phyric coherent	124	125	1	0.133	0.6	815	41	4930
FK17-08	837112	Pl-phyric coherent	125	126	1	5.06	3.1	1290	258	700
FK17-08	837113	Crystal lithic lapilli tuff	126	127	1	0.009	<0.2	207	14	230
FK17-08	837114	Crystal lithic lapilli tuff	127	128	1	0.007	<0.2	74	6	139
FK17-08	837115	Crystal lithic lapilli tuff	128	129	1	0.01	<0.2	4	2	144
FK17-08	837116	Crystal lithic lapilli tuff	129	130	1	0.002	<0.2	60	10	188
FK17-08	837117	Crystal lithic lapilli tuff	130	131	1	0.006	<0.2	20	6	153
FK17-08	837118	Crystal lithic lapilli tuff	131	132	1	0.007	<0.2	1	4	172
FK17-08	837119	Crystal lithic lapilli tuff	132	133	1	0.014	<0.2	3	7	160
FK17-08	837121	Crystal lithic lapilli tuff	133	134	1	0.003	0.2	48	148	1130
FK17-08	837122	Crystal lithic lapilli tuff	134	135	1	0.002	<0.2	22	80	448
FK17-08	837123	Crystal lithic lapilli tuff	135	136	1	<0.001	<0.2	37	19	128
FK17-08	837124	Crystal lithic lapilli tuff	136	137	1	0.004	<0.2	1	6	92
FK17-08	837125	Crystal lithic lapilli tuff	137	138	1	0.015	<0.2	<1	4	85
FK17-08	837126	Crystal lithic lapilli tuff	138	139	1	<0.001	<0.2	1	5	84
FK17-08	837127	Crystal lithic lapilli tuff	139	140	1	0.001	<0.2	3	111	213
FK17-08	837128	Crystal lithic lapilli tuff	140	141	1	0.01	<0.2	38	265	331
FK17-08	837129	Crystal lithic lapilli tuff	141	142	1	0.006	<0.2	5	14	159
FK17-08	837131	Crystal lithic lapilli tuff	142	143	1	0.034	0.8	323	555	3740
FK17-08	837132	Crystal lithic lapilli tuff	143	144	1	0.114	<0.2	3	8	212
FK17-08	837133	Crystal lithic lapilli tuff	144	145	1	0.019	<0.2	70	160	607
FK17-08	837134	Crystal lithic lapilli tuff	145	146	1	0.023	<0.2	186	459	1730
FK17-08	837135	Crystal lithic lapilli tuff	146	147	1	0.199	1	234	76	146
FK17-08	837136	Crystal lithic lapilli tuff	147	148	1	0.003	<0.2	179	6	182
FK17-08	837137	Crystal lithic lapilli tuff	148	149	1	0.006	<0.2	3	4	171
FK17-08	837138	Crystal lithic lapilli tuff	149	150	1	0.016	<0.2	1	3	94
FK17-08	837139	Crystal lithic lapilli tuff	150	151	1	0.018	<0.2	1	4	111
FK17-08	837141	Crystal lithic lapilli tuff	151	152	1	0.012	<0.2	5	4	77

Hole ID	Sample #	Rock Type	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
FK17-08	837142	Crystal lithic lapilli tuff	152	153	1	0.002	<0.2	2	2	86
FK17-08	837143	Crystal lithic lapilli tuff	153	154	1	0.011	<0.2	<1	2	94
FK17-08	837144	Crystal lithic lapilli tuff	154	155	1	0.022	<0.2	1	2	96
FK17-08	837145	Crystal lithic lapilli tuff	155	156	1	0.008	<0.2	<1	4	109
FK17-08	837146	Crystal lithic lapilli tuff	156	157	1	0.013	<0.2	<1	7	79
FK17-08	837147	Crystal lithic lapilli tuff	157	158	1	0.017	<0.2	<1	3	95
FK17-08	837148	Crystal lithic lapilli tuff	158	159	1	0.121	<0.2	<1	3	89
FK17-08	837149	Crystal lithic lapilli tuff	159	160	1	0.007	<0.2	1	4	72
FK17-08	837151	Crystal lithic lapilli tuff	160	161	1	0.01	<0.2	1	5	70
FK17-08	837152	Crystal lithic lapilli tuff	161	162	1	0.006	<0.2	13	7	92
FK17-08	837153	Crystal lithic lapilli tuff	162	163	1	0.151	1.3	24	20	81
FK17-08	837154	Crystal lithic lapilli tuff	163	164	1	0.228	1	28	18	144
FK17-08	837155	Crystal lithic lapilli tuff	164	165	1	0.01	<0.2	2	4	129
FK17-08	837156	Crystal lithic lapilli tuff	165	166	1	0.034	0.2	22	4	169
FK17-08	837157	Crystal lithic lapilli tuff	166	167	1	0.019	<0.2	1	4	120
FK17-08	837158	Crystal lithic lapilli tuff	167	168	1	0.013	<0.2	1	7	73
FK17-08	837159	Crystal lithic lapilli tuff	168	169	1	0.006	<0.2	<1	6	42
FK17-08	837161	Crystal lithic lapilli tuff	169	170	1	0.014	0.2	21	5	77
FK17-08	837162	Crystal lithic lapilli tuff	170	171	1	0.004	<0.2	2	6	49
FK17-08	837163	Crystal lithic lapilli tuff	171	172	1	0.007	<0.2	2	9	39
FK17-08	837164	Crystal lithic lapilli tuff	172	173	1	0.002	<0.2	2	3	92
FK17-08	837165	Crystal lithic lapilli tuff	173	174	1	0.002	<0.2	3	4	67
FK17-08	837166	Crystal lithic lapilli tuff	174	175	1	<0.001	<0.2	2	4	89
FK17-08	837167	Crystal lithic lapilli tuff	175	176	1	0.001	<0.2	38	3	127
FK17-08	837168	Crystal lithic lapilli tuff	176	177	1	0.001	<0.2	4	3	70
FK17-08	837169	Crystal lithic lapilli tuff	177	178	1	0.013	<0.2	53	3	84
FK17-08	837171	Crystal lithic lapilli tuff	178	179	1	0.008	<0.2	152	6	108
FK17-08	837172	Crystal lithic lapilli tuff	179	180	1	0.016	<0.2	419	5	134
FK17-08	837173	Crystal lithic lapilli tuff	180	181	1	0.016	0.3	515	4	121
FK17-08	837174	Crystal lithic lapilli tuff	181	182	1	0.014	<0.2	308	3	106
FK17-08	837175	Crystal lithic lapilli tuff	182	183	1	0.015	0.3	446	2	162
FK17-08	837176	Crystal lithic lapilli tuff	183	184	1	0.011	<0.2	616	3	166
FK17-08	837177	Crystal lithic lapilli tuff	184	185	1	0.028	0.8	1680	4	147
FK17-08	837178	Crystal lithic lapilli tuff	185	186	1	0.008	0.5	644	2	173
FK17-08	837179	Crystal lithic lapilli tuff	186	187	1	0.037	0.2	134	4	178
FK17-08	837181	Crystal lithic lapilli tuff	187	188	1	0.066	0.4	22	34	76
FK17-08	837182	Pl-phyric coherent	188	189	1	0.014	<0.2	21	5	111
FK17-08	837183	Pl-phyric coherent	189	190	1	0.015	<0.2	6	5	104
FK17-08	837184	Pl-phyric coherent	190	191	1	0.023	<0.2	12	5	80
FK17-08	837185	Pl-phyric coherent	191	192	1	0.034	0.2	16	4	83
FK17-08	837186	Pl-phyric coherent	192	193	1	0.007	0.2	65	7	112
FK17-08	837187	Pl-phyric coherent	193	194	1	0.015	0.5	601	12	124

Hole ID	Sample #	Rock Type	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
FK17-08	837188	Pl-phyric coherent	194	195	1	0.015	0.4	527	6	147
FK17-08	837189	Pl-phyric coherent	195	196	1	0.015	0.3	127	8	128
FK17-08	837191	Pl-phyric coherent	196	197	1	0.011	0.2	13	13	113
FK17-08	837192	Pl-phyric coherent	197	198	1	0.011	<0.2	15	12	128
FK17-08	837193	Pl-phyric coherent	198	199	1	0.073	0.5	138	14	120
FK17-08	837194	Pl-phyric coherent	199	200	1	0.131	0.8	339	36	164
FK17-08	837195	Pl-phyric coherent	200	201	1	0.019	0.3	76	17	100
FK17-08	837196	Crystal lithic lapilli tuff	201	202	1	0.027	<0.2	9	16	67
FK17-08	837197	Crystal lithic lapilli tuff	202	203	1	0.004	<0.2	4	8	90
FK17-08	837198	Crystal lithic lapilli tuff	203	204	1	0.001	<0.2	7	6	84
FK17-08	837199	Crystal lithic lapilli tuff	204	205	1	0.027	0.3	18	10	99
FK17-08	837201	Crystal lithic lapilli tuff	205	206	1	0.015	<0.2	39	4	71
FK17-08	837202	Crystal lithic lapilli tuff	206	207	1	0.006	<0.2	1	6	77
FK17-08	837203	Crystal lithic lapilli tuff	207	208	1	0.007	<0.2	1	6	83
FK17-08	837204	Crystal lithic lapilli tuff	208	209	1	0.013	<0.2	3	10	92
FK17-08	837205	Crystal lithic lapilli tuff	209	210	1	0.012	0.2	4	7	76
FK17-08	837206	Crystal lithic lapilli tuff	210	211	1	0.022	<0.2	6	5	86
FK17-08	837207	Crystal lithic lapilli tuff	211	212	1	0.041	<0.2	4	6	105
FK17-08	837208	Crystal lithic lapilli tuff	212	213	1	0.003	<0.2	4	4	79
FK17-08	837209	Crystal lithic lapilli tuff	213	214	1	<0.001	<0.2	8	3	71
FK17-08	837211	Crystal lithic lapilli tuff	214	215	1	<0.001	<0.2	5	3	74
FK17-08	837212	Crystal lithic lapilli tuff	215	216	1	0.002	<0.2	1	5	71
FK17-08	837213	Crystal lithic lapilli tuff	216	217	1	0.016	<0.2	<1	7	120
FK17-08	837214	Crystal lithic lapilli tuff	217	218	1	0.016	<0.2	1	6	108
FK17-08	837215	Crystal lithic lapilli tuff	218	219	1	0.024	<0.2	1	5	103
FK17-08	837216	Crystal lithic lapilli tuff	219	220	1	0.01	<0.2	<1	4	99
FK17-08	837217	Crystal lithic lapilli tuff	220	221	1	0.028	<0.2	1	4	129
FK17-08	837218	Crystal lithic lapilli tuff	221	222	1	0.326	1.1	817	5	92
FK17-08	837219	Crystal lithic lapilli tuff	222	223	1	0.064	<0.2	5	4	91
FK17-08	837221	Crystal lithic lapilli tuff	223	224	1	0.061	<0.2	1	2	119
FK17-08	837222	Crystal lithic lapilli tuff	224	225	1	0.004	<0.2	1	4	103
FK17-09	837224	Crystal lithic lapilli tuff	6	7	1	0.002	<0.2	93	4	73
FK17-09	837225	Crystal lithic lapilli tuff	7	8	1	0.003	<0.2	113	5	84
FK17-09	837226	Crystal lithic lapilli tuff	8	9	1	0.001	<0.2	118	4	89
FK17-09	837227	Crystal lithic lapilli tuff	9	10	1	0.001	<0.2	128	5	84
FK17-09	837228	Crystal lithic lapilli tuff	10	11	1	0.001	<0.2	118	5	85
FK17-09	837229	Crystal lithic lapilli tuff	11	12	1	0.003	<0.2	132	6	116
FK17-09	837231	Crystal lithic lapilli tuff	12	13	1	0.004	<0.2	75	4	74
FK17-09	837232	Crystal lithic lapilli tuff	13	14	1	0.001	<0.2	86	4	67
FK17-09	837233	Crystal lithic lapilli tuff	14	15	1	<0.001	<0.2	113	4	94
FK17-09	837234	Crystal lithic lapilli tuff	15	16	1	0.001	<0.2	94	7	83
FK17-09	837235	Crystal lithic lapilli tuff	16	17	1	0.001	<0.2	123	5	100

Hole ID	Sample #	Rock Type	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
FK17-09	837236	Breccia	17	18	1	0.001	0.2	115	5	111
FK17-09	837237	Breccia	18	19	1	0.001	0.2	95	5	79
FK17-09	837238	Breccia	19	20	1	0.002	0.2	105	7	92
FK17-09	837239	Breccia	20	21	1	0.002	<0.2	98	7	98
FK17-09	837241	Breccia	21	22	1	<0.001	<0.2	106	4	89
FK17-09	837242	Breccia	22	23	1	<0.001	0.2	104	6	94
FK17-09	837243	Breccia	23	24	1	<0.001	0.4	117	9	76
FK17-09	837244	Breccia	24	25	1	0.002	0.2	87	7	82
FK17-09	837245	Breccia	25	26	1	0.001	0.5	107	25	80
FK17-09	837246	Breccia	26	27	1	0.001	0.4	106	28	101
FK17-09	837247	Breccia	27	28	1	<0.001	0.2	77	8	82
FK17-09	837248	Breccia	28	29	1	<0.001	0.4	93	19	76
FK17-09	837249	Breccia	29	30	1	<0.001	0.4	42	9	87
FK17-09	837251	Breccia	30	31	1	0.003	0.4	73	15	171
FK17-09	837252	Breccia	31	32	1	0.002	0.6	95	18	87
FK17-09	837253	Breccia	32	33	1	<0.001	0.3	113	11	49
FK17-09	837254	Breccia	33	34	1	<0.001	0.2	74	4	66
FK17-09	837255	Breccia	34	35	1	0.001	0.3	67	8	61
FK17-09	837256	Breccia	35	36	1	<0.001	0.2	56	7	39
FK17-09	837257	Breccia	36	37	1	0.001	0.3	80	10	68
FK17-09	837258	Breccia	37	38	1	0.006	0.4	78	12	76
FK17-09	837259	Breccia	38	39	1	0.002	0.3	104	10	72
FK17-09	837261	Breccia	39	40	1	0.002	0.4	110	12	64
FK17-09	837262	Breccia	40	41	1	<0.001	0.3	65	11	80
FK17-09	837263	Breccia	41	42	1	<0.001	0.2	52	14	103
FK17-09	837264	Breccia	42	43	1	0.001	0.5	57	13	61
FK17-09	837265	Breccia	43	44	1	0.003	0.6	41	14	92
FK17-09	837266	Breccia	44	45	1	<0.001	0.2	29	8	69
FK17-09	837267	Breccia	45	46	1	<0.001	0.2	6	3	55
FK17-09	837268	Breccia	46	47	1	0.002	0.2	30	11	53
FK17-09	837269	Breccia	47	48	1	<0.001	0.2	12	12	35
FK17-09	837271	Pl-phyric coherent	48	49	1	<0.001	<0.2	11	12	34
FK17-09	837272	Pl-phyric coherent	49	50	1	0.001	<0.2	11	13	34
FK17-09	837273	Pl-phyric coherent	50	51	1	<0.001	0.2	7	10	44
FK17-09	837274	Pl-phyric coherent	51	52	1	<0.001	0.2	9	14	38
FK17-09	837275	Pl-phyric coherent	52	53	1	0.005	0.3	10	17	73
FK17-09	837276	Pl-phyric coherent	53	54	1	0.003	<0.2	7	18	73
FK17-09	837277	Pl-phyric coherent	54	55	1	<0.001	0.2	6	11	52
FK17-09	837278	Pl-phyric coherent	55	56	1	<0.001	0.2	7	12	71
FK17-09	837279	Pl-phyric coherent	56	57	1	<0.001	0.2	9	11	72
FK17-09	837281	Pl-phyric coherent	57	58	1	0.004	0.3	7	33	120
FK17-09	837282	Pl-phyric coherent	58	59	1	<0.001	0.3	7	48	201

Hole ID	Sample #	Rock Type	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
FK17-09	837283	Pl-phyric coherent	59	60	1	<0.001	0.3	8	72	79
FK17-09	837284	Pl-phyric coherent	60	61	1	<0.001	0.3	14	81	61
FK17-09	837285	Pl-phyric coherent	61	62	1	<0.001	0.4	12	110	36
FK17-09	837286	Pl-phyric coherent	62	63	1	<0.001	0.3	14	95	39
FK17-09	837287	Pl-phyric coherent	63	64	1	0.002	0.4	11	128	63
FK17-09	837288	Pl-phyric coherent	64	65	1	0.002	0.3	8	40	142
FK17-09	837289	Pl-phyric coherent	65	66	1	0.001	0.2	7	27	107
FK17-09	837291	Pl-phyric coherent	66	67	1	0.001	0.3	8	19	70
FK17-09	837292	Pl-phyric coherent	67	68	1	<0.001	0.2	9	106	152
FK17-09	837293	Pl-phyric coherent	68	69	1	<0.001	0.2	7	24	80
FK17-09	837294	Pl-phyric coherent	69	70	1	<0.001	0.3	8	10	63
FK17-09	837295	Pl-phyric coherent	70	71	1	<0.001	0.3	6	9	75
FK17-09	837296	Pl-phyric coherent	71	72	1	0.004	0.3	12	15	78
FK17-09	837297	Pl-phyric coherent	72	73	1	0.002	0.3	10	8	70
FK17-09	837298	Pl-phyric coherent	73	74	1	0.003	0.4	6	60	119
FK17-09	837299	Pl-phyric coherent	74	75	1	0.002	0.3	8	31	92
FK17-09	837301	Pl-phyric coherent	75	76	1	0.002	0.3	8	14	90
FK17-09	837302	Pl-phyric coherent	76	77	1	0.025	0.4	15	412	947
FK17-09	837303	Pl-phyric coherent	77	78	1	0.008	0.5	48	59	112
FK17-09	837304	Pl-phyric coherent	78	79	1	0.001	0.2	8	27	79
FK17-09	837305	Pl-phyric coherent	79	80	1	<0.001	<0.2	6	2	70
FK17-09	837306	Pl-phyric coherent	80	81	1	0.011	0.2	11	12	85
FK17-09	837307	Pl-phyric coherent	81	82	1	0.005	<0.2	9	8	81
FK17-09	837308	Pl-phyric coherent	82	83	1	0.008	0.4	498	13	143
FK17-09	837309	Pl-phyric coherent	83	84	1	0.001	1.1	1350	13	146
FK17-09	837311	Pl-phyric coherent	84	85	1	<0.001	0.9	1260	11	181
FK17-09	837312	Pl-phyric coherent	85	86	1	0.002	1	1040	166	174
FK17-09	837313	Pl-phyric coherent	86	87	1	0.001	0.9	645	311	172
FK17-09	837314	Pl-phyric coherent	87	88	1	0.001	0.4	408	16	151
FK17-09	837315	Pl-phyric coherent	88	89	1	<0.001	0.2	156	12	109
FK17-09	837316	Pl-phyric coherent	89	90	1	0.001	0.2	17	14	99
FK17-09	837317	Pl-phyric coherent	90	91	1	0.014	<0.2	34	6	90
FK17-09	837318	Pl-phyric coherent	91	92	1	<0.001	<0.2	4	3	81
FK17-09	837319	Pl-phyric coherent	92	93	1	<0.001	0.2	10	12	113
FK17-09	837321	Pl-phyric coherent	93	94	1	<0.001	0.4	67	20	153
FK17-09	837322	Pl-phyric coherent	94	95	1	0.001	0.7	192	28	167
FK17-09	837323	Pl-phyric coherent	95	96	1	0.001	0.7	371	19	169
FK17-09	837324	Pl-phyric coherent	96	97	1	<0.001	0.2	35	13	115
FK17-09	837325	Pl-phyric coherent	97	98	1	<0.001	0.3	140	14	133
FK17-09	837326	Pl-phyric coherent	98	99	1	0.004	13.5	8450	142	285
FK17-09	837327	Pl-phyric coherent	99	100	1	0.003	1.9	547	346	613
FK17-09	837328	Pl-phyric coherent	100	101	1	0.014	<0.2	10	5	46

Hole ID	Sample #	Rock Type	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
FK17-09	837329	Pl-phyric coherent	101	102	1	0.002	<0.2	9	6	45
FK17-09	837331	Pl-phyric coherent	102	103	1	0.008	<0.2	3	5	75
FK17-09	837332	Pl-phyric coherent	103	104	1	0.003	<0.2	2	7	81
FK17-09	837333	Pl-phyric coherent	104	105	1	0.003	<0.2	7	6	84
FK17-09	837334	Pl-phyric coherent	105	106	1	<0.001	<0.2	3	3	76
FK17-09	837335	Pl-phyric coherent	106	107	1	0.001	<0.2	8	5	87
FK17-09	837336	Pl-phyric coherent	107	108	1	0.006	<0.2	1	4	72
FK17-09	837337	Pl-phyric coherent	108	109	1	0.006	<0.2	2	4	83
FK17-09	837338	Pl-phyric coherent	109	110	1	0.002	<0.2	2	5	75
FK17-09	837339	Pl-phyric coherent	110	111	1	<0.001	<0.2	27	7	119
FK17-09	837341	Pl-phyric coherent	111	112	1	0.009	2.2	458	244	1280
FK17-09	837342	Pl-phyric coherent	112	113	1	<0.001	0.6	32	31	200
FK17-09	837343	Pl-phyric coherent	113	114	1	0.008	0.9	53	138	347
FK17-09	837344	Pl-phyric coherent	114	115	1	0.015	1.4	117	370	799
FK17-09	837345	Pl-phyric coherent	115	116	1	0.109	0.5	55	28	201
FK17-09	837346	Pl-phyric coherent	116	117	1	0.02	0.4	42	31	211
FK17-09	837347	Pl-phyric coherent	117	118	1	0.051	1	295	115	1515
FK17-09	837348	Pl-phyric coherent	118	119	1	0.009	0.5	393	9	178
FK17-09	837349	Pl-phyric coherent	119	120	1	0.018	0.4	22	12	141
FK17-09	837351	Pl-phyric coherent	120	121	1	0.001	0.3	73	11	152
FK17-09	837352	Pl-phyric coherent	121	122	1	0.023	0.3	67	9	171
FK17-09	837353	Pl-phyric coherent	122	123	1	0.011	0.8	693	11	205
FK17-09	837354	Pl-phyric coherent	123	124	1	0.003	<0.2	12	6	159
FK17-09	837355	Pl-phyric coherent	124	125	1	0.007	0.3	79	7	162
FK17-09	837356	Pl-phyric coherent	125	126	1	0.023	0.2	66	5	183
FK17-09	837357	Pl-phyric coherent	126	127	1	0.006	0.3	144	11	208
FK17-09	837358	Pl-phyric coherent	127	128	1	0.021	1.1	296	31	686
FK17-09	837359	Pl-phyric coherent	128	129	1	0.03	6.1	7280	71	212
FK17-09	837361	Pl-phyric coherent	129	130	1	0.027	0.9	173	68	604
FK17-09	837362	Pl-phyric coherent	130	131	1	0.023	1.1	823	30	431
FK17-09	837363	Pl-phyric coherent	131	132	1	0.005	0.8	426	14	224
FK17-09	837364	Pl-phyric coherent	132	133	1	0.013	0.8	431	10	171
FK17-09	837365	Pl-phyric coherent	133	134	1	0.002	0.6	307	12	235
FK17-09	837366	Pl-phyric coherent	134	135	1	0.315	1.1	366	61	955
FK17-09	837367	Pl-phyric coherent	135	136	1	0.008	0.7	427	37	252
FK17-09	837368	Pl-phyric coherent	136	137	1	0.057	1.2	588	49	609
FK17-09	837369	Pl-phyric coherent	137	138	1	0.524	3.1	2200	94	1250
FK17-09	837371	Pl-phyric coherent	138	139	1	2.11	5.8	2890	180	4950
FK17-09	837372	Pl-phyric coherent	139	140	1	0.102	0.9	226	26	322
FK17-09	837373	Pl-phyric coherent	140	141	1	0.121	0.7	131	17	225
FK17-09	837374	Pl-phyric coherent	141	142	1	0.92	3.8	691	100	11100
FK17-09	837375	Pl-phyric coherent	142	143	1	0.744	2.9	1440	74	1690

Hole ID	Sample #	Rock Type	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
FK17-09	837376	Pl-phyric coherent	143	144	1	0.093	0.6	13	30	249
FK17-09	837377	Pl-phyric coherent	144	145	1	0.007	0.6	88	27	215
FK17-09	837378	Pl-phyric coherent	145	146	1	0.34	1.7	446	17	379
FK17-09	837379	Pl-phyric coherent	146	147	1	0.206	0.9	339	75	704
FK17-09	837381	Pl-phyric coherent	147	148	1	0.023	0.5	239	65	401
FK17-09	837382	Pl-phyric coherent	148	149	1	0.021	0.2	135	11	134
FK17-09	837383	Pl-phyric coherent	149	150	1	0.011	0.2	63	8	93
FK17-09	837384	Pl-phyric coherent	150	151	1	0.012	0.4	492	24	113
FK17-09	837385	Pl-phyric coherent	151	152	1	0.12	0.5	437	30	176
FK17-09	837386	Pl-phyric coherent	152	153	1	0.024	0.2	4	9	186
FK17-09	837387	Pl-phyric coherent	153	154	1	0.026	<0.2	4	12	399
FK17-09	837388	Pl-phyric coherent	154	155	1	0.001	<0.2	8	12	256
FK17-09	837389	Pl-phyric coherent	155	156	1	0.032	0.5	69	28	6090
FK17-09	837391	Pl-phyric coherent	156	157	1	0.058	<0.2	71	12	1620
FK17-09	837392	Pl-phyric coherent	157	158	1	0.008	0.2	29	11	267
FK17-09	837393	Pl-phyric coherent	158	159	1	<0.001	<0.2	115	16	223
FK17-09	837394	Pl-phyric coherent	159	160	1	0.019	0.2	142	8	165
FK17-09	837395	Pl-phyric coherent	160	161	1	0.012	<0.2	32	14	180
FK17-09	837396	Pl-phyric coherent	161	162	1	0.164	0.7	167	814	510
FK17-09	837397	Pl-phyric coherent	162	163	1	0.013	0.9	393	106	413
FK17-09	837398	Pl-phyric coherent	163	164	1	0.049	1.3	550	143	666
FK17-09	837399	Pl-phyric coherent	164	165	1	0.048	0.4	26	26	127
FK17-09	837401	Pl-phyric coherent	165	166	1	0.034	0.5	54	8	116
FK17-09	837402	Pl-phyric coherent	166	167	1	0.02	0.3	80	5	100
FK17-09	837403	Pl-phyric coherent	167	168	1	0.015	0.4	171	8	98
FK17-09	837404	Pl-phyric coherent	168	169	1	0.36	0.6	56	10	118
FK17-09	837405	Pl-phyric coherent	169	170	1	0.247	0.6	34	9	113
FK17-09	837406	Pl-phyric coherent	170	171	1	0.066	<0.2	5	6	103
FK17-09	837407	Pl-phyric coherent	171	172	1	0.005	<0.2	2	6	119
FK17-09	837408	Pl-phyric coherent	172	173	1	0.001	0.2	2	8	127
FK17-09	837409	Pl-phyric coherent	173	174	1	0.036	0.9	489	23	177
FK17-09	837411	Pl-phyric coherent	174	175	1	0.041	0.9	105	31	219
FK17-09	837412	Pl-phyric coherent	175	176	1	0.076	2.6	2350	69	310
FK17-09	837413	Pl-phyric coherent	176	177	1	0.078	10.9	17150	40	466
FK17-09	837414	Pl-phyric coherent	177	178	1	0.023	2.9	4660	31	227
FK17-09	837415	Pl-phyric coherent	178	179	1	0.039	2.6	2910	39	176
FK17-09	837416	Pl-phyric coherent	179	180	1	0.038	0.8	48	16	146
FK17-09	837417	Pl-phyric coherent	180	181	1	0.008	0.4	388	12	212
FK17-09	837418	Pl-phyric coherent	181	182	1	0.131	0.8	596	14	136
FK17-09	837419	Pl-phyric coherent	182	183	1	0.013	<0.2	85	5	209
FK17-09	837421	Pl-phyric coherent	183	184	1	0.839	0.5	113	6	195
FK17-09	837422	Pl-phyric coherent	184	185	1	0.037	0.7	608	6	176

Hole ID	Sample #	Rock Type	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
FK17-09	837423	Pl-phyric coherent	185	186	1	0.017	0.3	241	10	133
FK17-09	837424	Pl-phyric coherent	186	187	1	0.02	<0.2	10	16	137
FK17-09	837425	Pl-phyric coherent	187	188	1	0.008	<0.2	7	10	121
FK17-09	837426	Pl-phyric coherent	188	189	1	0.007	<0.2	3	13	122
FK17-09	837427	Pl-phyric coherent	189	190	1	0.016	<0.2	1	9	186
FK17-09	837428	Pl-phyric coherent	190	191	1	0.005	<0.2	2	11	153
FK17-09	837429	Pl-phyric coherent	191	192	1	0.026	<0.2	2	11	148
FK17-09	837431	Pl-phyric coherent	192	193	1	0.009	<0.2	1	15	110
FK17-09	837432	Pl-phyric coherent	193	194	1	0.709	0.9	54	8	136
FK17-09	837433	Pl-phyric coherent	194	195	1	0.013	<0.2	4	8	142
FK17-09	837434	Pl-phyric coherent	195	196	1	0.012	<0.2	6	7	117
FK17-09	837435	Pl-phyric coherent	196	197	1	0.004	0.2	5	7	128
FK17-09	837436	Pl-phyric coherent	197	198	1	0.043	0.6	5	13	131
FK17-09	837437	Pl-phyric coherent	198	199	1	0.019	<0.2	6	8	92
FK17-09	837438	Pl-phyric coherent	199	200	1	0.012	<0.2	1	7	71
FK17-09	837439	Pl-phyric coherent	200	201	1	<0.001	<0.2	<1	5	61
FK17-09	837441	Pl-phyric coherent	201	202	1	0.003	<0.2	<1	6	83
FK17-09	837442	Pl-phyric coherent	202	203	1	<0.001	<0.2	1	11	103
FK17-09	837443	Pl-phyric coherent	203	204	1	<0.001	<0.2	<1	13	107
FK17-09	837444	Pl-phyric coherent	204	205	1	0.007	<0.2	<1	6	101
FK17-09	837445	Pl-phyric coherent	205	206	1	0.019	<0.2	1	5	121
FK17-09	837446	Pl-phyric coherent	206	207	1	<0.001	<0.2	1	10	145
FK17-09	837447	Pl-phyric coherent	207	208	1	<0.001	<0.2	<1	9	181
FK17-09	837448	Pl-phyric coherent	208	209	1	0.164	<0.2	95	7	212
FK17-09	837449	Pl-phyric coherent	209	210	1	0.004	<0.2	27	8	205
FK17-09	837451	Pl-phyric coherent	210	211	1	0.359	0.2	544	5	174
FK17-09	837452	Pl-phyric coherent	211	212	1	1.425	0.7	71	15	174
FK17-09	837453	Pl-phyric coherent	212	213	1	0.365	1.5	910	29	341
FK17-09	837454	Pl-phyric coherent	213	214	1	0.905	0.6	401	10	164
FK17-09	837455	Pl-phyric coherent	214	215	1	3.87	0.9	524	6	145
FK17-09	837456	Pl-phyric coherent	215	216	1	0.004	<0.2	3	7	107
FK17-09	837457	Pl-phyric coherent	216	217	1	<0.001	<0.2	1	9	98
FK17-09	837458	Pl-phyric coherent	217	218	1	0.002	<0.2	<1	11	83
FK17-09	837459	Pl-phyric coherent	218	219	1	<0.001	<0.2	<1	10	108
FK17-09	837461	Pl-phyric coherent	219	220	1	0.001	<0.2	1	7	115
FK17-09	837462	Pl-phyric coherent	220	221	1	0.008	0.4	290	10	105
FK17-09	837463	Pl-phyric coherent	221	222	1	<0.001	<0.2	1	8	89
FK17-09	837464	Pl-phyric coherent	222	223	1	<0.001	<0.2	<1	10	88
FK17-09	837465	Pl-phyric coherent	223	224	1	<0.001	<0.2	1	8	92
FK17-09	837466	Pl-phyric coherent	224	225	1	<0.001	<0.2	<1	10	108
FK17-09	837467	Pl-phyric coherent	225	226	1	0.004	<0.2	<1	8	120
FK17-09	837468	Pl-phyric coherent	226	227	1	0.002	<0.2	1	6	102

Hole ID	Sample #	Rock Type	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
FK17-09	837469	Pl-phyric coherent	227	228	1	<0.001	<0.2	2	6	126
FK17-09	837471	Pl-phyric coherent	228	229	1	<0.001	<0.2	<1	6	142
FK17-09	837472	Pl-phyric coherent	229	230	1	<0.001	<0.2	<1	8	100
FK17-09	837473	Pl-phyric coherent	230	231	1	<0.001	<0.2	<1	9	96
FK17-09	837474	Pl-phyric coherent	231	232	1	<0.001	<0.2	<1	7	110
FK17-09	837475	Pl-phyric coherent	232	233	1	<0.001	<0.2	<1	7	106
FK17-09	837476	Pl-phyric coherent	233	234	1	0.002	<0.2	<1	7	90
FK17-09	837477	Pl-phyric coherent	234	235	1	<0.001	<0.2	<1	7	96
FK17-09	837478	Pl-phyric coherent	235	236	1	0.004	<0.2	4	6	112
FK17-09	837479	Pl-phyric coherent	236	237	1	0.002	<0.2	18	7	118
FK17-09	837481	Pl-phyric coherent	237	238	1	0.001	<0.2	4	8	130
FK17-09	837482	Pl-phyric coherent	238	239	1	0.002	<0.2	19	10	119
FK17-09	837483	Pl-phyric coherent	239	240	1	0.002	<0.2	<1	8	87
FK17-09	837484	Pl-phyric coherent	240	241	1	0.003	<0.2	1	6	91
FK17-09	837485	Pl-phyric coherent	241	242	1	<0.001	<0.2	<1	8	80
FK17-09	837486	Pl-phyric coherent	242	243	1	<0.001	<0.2	<1	6	70
FK17-09	837487	Pl-phyric coherent	243	244	1	0.001	<0.2	<1	4	71
FK17-09	837488	Pl-phyric coherent	244	245	1	0.002	<0.2	<1	6	87
FK17-09	837489	Pl-phyric coherent	245	246	1	<0.001	<0.2	160	5	82
FK17-09	837491	Pl-phyric coherent	246	247	1	<0.001	<0.2	115	8	92
FK17-09	837492	Pl-phyric coherent	247	248	1	<0.001	<0.2	63	7	92
FK17-09	837493	Pl-phyric coherent	248	249	1	0.003	0.2	535	6	88
FK17-09	837494	Pl-phyric coherent	249	250	1	0.001	<0.2	66	5	81
FK17-09	837495	Pl-phyric coherent	250	251	1	0.001	<0.2	1	5	103
FK17-09	837496	Pl-phyric coherent	251	252	1	0.001	<0.2	4	6	97
FK17-09	837497	Pl-phyric coherent	252	253	1	<0.001	<0.2	3	4	87
FK17-09	837498	Pl-phyric coherent	253	254	1	<0.001	<0.2	7	4	89
FK17-09	837499	Pl-phyric coherent	254	255	1	<0.001	<0.2	34	8	87
FK17-09	837501	Pl-phyric coherent	255	256	1	<0.001	<0.2	11	8	83
FK17-09	837502	Pl-phyric coherent	256	257	1	<0.001	<0.2	354	9	107
FK17-09	837503	Pl-phyric coherent	257	258	1	0.003	<0.2	208	6	129
FK17-09	837504	Pl-phyric coherent	258	259	1	0.002	<0.2	408	7	105
FK17-09	837505	Pl-phyric coherent	259	260	1	<0.001	<0.2	84	<2	115
FK17-09	837506	Pl-phyric coherent	260	261	1	0.007	0.2	130	5	125
FK17-09	837507	Pl-phyric coherent	261	262	1	0.039	0.5	252	7	130
FK17-09	837508	Pl-phyric coherent	262	263	1	0.001	0.2	6	7	109
FK17-09	837509	Pl-phyric coherent	263	264	1	<0.001	<0.2	<1	5	83
FK17-09	837511	Pl-phyric coherent	264	265	1	<0.001	<0.2	1	6	73
FK17-09	837512	Pl-phyric coherent	265	266	1	<0.001	<0.2	1	6	67
FK17-09	837513	Pl-phyric coherent	266	267	1	<0.001	<0.2	1	6	81
FK17-09	837514	Pl-phyric coherent	267	268	1	0.001	<0.2	85	6	122

Hole ID	Sample #	Rock Type	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
FK17-09	837515	Pl-phyric coherent	268	269	1	<0.001	0.2	57	5	136
FK17-09	837516	Pl-phyric coherent	269	270	1	0.016	<0.2	40	2	138
FK17-09	837517	Pl-phyric coherent	270	271	1	0.004	<0.2	52	3	128
FK17-09	837518	Pl-phyric coherent	271	272	1	0.085	<0.2	110	2	136
FK17-09	837519	Pl-phyric coherent	272	273	1	0.014	<0.2	6	3	106
FK17-09	837521	Pl-phyric coherent	273	274	1	0.01	<0.2	4	<2	97
FK17-09	837522	Pl-phyric coherent	274	275	1	0.13	0.5	367	7	125
FK17-09	837523	Pl-phyric coherent	275	276	1	0.02	0.2	69	8	119
FK17-09	837524	Pl-phyric coherent	276	277	1	0.004	<0.2	125	5	87
FK17-09	837525	Pl-phyric coherent	277	278	1	0.007	<0.2	52	4	86
FK17-09	837526	Pl-phyric coherent	278	279	1	0.018	<0.2	1	4	106
FK17-09	837527	Pl-phyric coherent	279	280	1	<0.001	<0.2	28	2	125
FK17-09	837528	Pl-phyric coherent	280	281	1	0.001	<0.2	1	5	125
FK17-09	837529	Pl-phyric coherent	281	282	1	0.002	<0.2	<1	4	120
FK17-09	837531	Pl-phyric coherent	282	283	1	0.002	<0.2	3	2	110
FK17-09	837532	Pl-phyric coherent	283	284	1	0.002	<0.2	<1	3	94
FK17-09	837533	Pl-phyric coherent	284	285	1	0.01	<0.2	1	3	126
FK17-09	837534	Pl-phyric coherent	285	286	1	0.016	1.4	1730	5	91
FK17-09	837535	Pl-phyric coherent	286	287	1	0.009	3.4	3460	7	76
FK17-09	837536	Pl-phyric coherent	287	288	1	0.001	0.2	120	5	108
FK17-09	837537	Pl-phyric coherent	288	289	1	0.006	<0.2	11	3	113
FK17-09	837538	Pl-phyric coherent	289	290	1	0.007	0.3	217	4	111
FK17-09	837539	Pl-phyric coherent	290	291	1	0.029	<0.2	4	2	113
FK17-09	837541	Pl-phyric coherent	291	292	1	0.009	<0.2	3	5	118
FK17-09	837542	Pl-phyric coherent	292	293	1	0.008	0.3	5	6	102
FK17-09	837543	Pl-phyric coherent	293	294	1	0.004	<0.2	89	5	113
FK17-09	837544	Pl-phyric coherent	294	295	1	0.025	0.2	14	5	132
FK17-09	837545	Pl-phyric coherent	295	296	1	0.031	0.2	36	5	166
FK17-09	837546	Pl-phyric coherent	296	297	1	0.507	0.3	51	5	169
FK17-09	837547	Pl-phyric coherent	297	298	1	0.005	<0.2	3	2	159
FK17-09	837548	Pl-phyric coherent	298	299	1	<0.001	<0.2	1	2	132
FK17-09	837549	Pl-phyric coherent	299	300	1	<0.001	<0.2	15	3	155
FK17-09	837551	Pl-phyric coherent	300	301	1	0.018	<0.2	1	3	145
FK17-09	837552	Pl-phyric coherent	301	302	1	0.029	<0.2	10	3	163
FK17-09	837553	Pl-phyric coherent	302	303	1	0.004	0.2	108	<2	178
FK17-09	837554	Pl-phyric coherent	303	304	1	0.006	0.2	358	3	172
FK17-09	837555	Pl-phyric coherent	304	305	1	<0.001	<0.2	200	2	150
FK17-09	837556	Pl-phyric coherent	305	306	1	0.038	0.4	712	2	192
FK17-09	837557	Pl-phyric coherent	306	307	1	0.067	1.3	3390	5	161
FK17-09	837558	Pl-phyric coherent	307	308	1	0.021	0.6	633	4	142
FK17-09	837559	Pl-phyric coherent	308	309	1	<0.001	<0.2	17	2	177
FK17-09	837561	Pl-phyric coherent	309	310	1	<0.001	<0.2	21	5	136

Hole ID	Sample #	Rock Type	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
FK17-09	837562	Pl-phyric coherent	310	311	1	0.001	<0.2	5	4	111
FK17-09	837563	Pl-phyric coherent	311	312	1	<0.001	<0.2	1	4	105
FK17-09	837564	Pl-phyric coherent	312	313	1	<0.001	<0.2	4	6	131
FK17-09	837565	Pl-phyric coherent	313	314	1	0.004	<0.2	23	3	128
FK17-09	837566	Pl-phyric coherent	314	315	1	0.013	<0.2	49	8	190
FK17-09	837567	Pl-phyric coherent	315	316	1	0.065	0.4	120	7	160
FK17-09	837568	Pl-phyric coherent	316	317	1	0.046	1.4	1630	32	99
FK17-09	837569	Pl-phyric coherent	317	318	1	0.038	0.9	11	55	15
FK17-09	837571	Pl-phyric coherent	318	319	1	0.022	<0.2	22	9	126
FK17-09	837572	Pl-phyric coherent	319	320	1	0.181	<0.2	47	2	145
FK17-09	837573	Pl-phyric coherent	320	321	1	0.002	<0.2	9	3	153
FK17-09	837574	Pl-phyric coherent	321	322	1	0.018	0.7	837	8	164
FK17-09	837575	Pl-phyric coherent	322	323	1	0.001	<0.2	8	6	140
FK17-09	837576	Pl-phyric coherent	323	324	1	0.02	0.4	189	11	120
FK17-09	837577	Pl-phyric coherent	324	325	1	0.009	0.2	29	10	120
FK17-09	837578	Pl-phyric coherent	325	326	1	0.002	<0.2	160	6	126
FK17-09	837579	Pl-phyric coherent	326	327	1	0.011	0.2	78	9	90
FK17-09	837581	Pl-phyric coherent	327	328	1	0.003	<0.2	125	5	105
FK17-09	837582	Pl-phyric coherent	328	329	1	0.075	1.2	1810	165	594
FK17-09	837583	Pl-phyric coherent	329	330	1	0.005	<0.2	31	8	152
FK17-09	837584	Pl-phyric coherent	330	331	1	0.002	0.2	212	7	163
FK17-09	837585	Pl-phyric coherent	331	332	1	0.001	<0.2	129	7	153
FK17-09	837586	Pl-phyric coherent	332	333	1	<0.001	<0.2	53	7	202
FK17-09	837587	Pl-phyric coherent	333	334	1	0.001	0.2	6	9	154
FK17-09	837588	Pl-phyric coherent	334	335	1	0.015	0.2	11	10	127
FK17-09	837589	Pl-phyric coherent	335	336	1	0.009	0.7	546	9	124
FK17-09	837591	Pl-phyric coherent	336	337	1	0.005	0.2	227	9	151
FK17-09	837592	Pl-phyric coherent	337	338	1	0.002	<0.2	37	6	134
FK17-09	837593	Pl-phyric coherent	338	339	1	0.002	<0.2	3	5	107
FK17-09	837594	Pl-phyric coherent	339	340	1	0.007	<0.2	199	11	163
FK17-09	837595	Pl-phyric coherent	340	341	1	0.005	<0.2	68	15	99
FK17-09	837596	Pl-phyric coherent	341	342	1	0.003	<0.2	10	7	123
FK17-09	837597	Pl-phyric coherent	342	343	1	0.002	<0.2	3	3	104
FK17-09	837598	Pl-phyric coherent	343	344	1	0.001	<0.2	5	4	107
FK17-09	837599	Pl-phyric coherent	344	345	1	0.001	<0.2	4	2	126
FK17-09	837601	Pl-phyric coherent	345	346	1	<0.001	<0.2	1	3	125
FK17-09	837602	Pl-phyric coherent	346	347	1	<0.001	<0.2	7	2	169
FK17-09	837603	Pl-phyric coherent	347	348	1	0.002	<0.2	357	6	168
FK17-09	837604	Pl-phyric coherent	348	349	1	0.002	<0.2	167	6	319
FK17-09	837605	Pl-phyric coherent	349	350	1	0.012	0.3	176	24	5210
FK17-09	837606	Pl-phyric coherent	350	351	1	0.004	<0.2	42	10	1780
FK17-09	837607	Pl-phyric coherent	351	352	1	<0.001	<0.2	3	3	405

Hole ID	From_m	To_m	Lithology	Notes	Geologist
FK17-01	0	4.5	Overburden		C. McDowell
FK17-01	4.5	61	Felsic crystal lithic lapilli tuff	Fine-grained grey matrix with maroon volcanic clasts up to 5cm and fine-grained fsp	C. McDowell
FK17-01	61	89.5	Crystal lithic lapilli tuff	Felsic crystal lithic lapilli tuff with cm-scale bands of medium-grey soft material (mudstone?)	R. Gibson
FK17-01	89.5	145.7	Felsic tuff	Felsic crystal tuff, fine-grained matrix with peach fsp and up to 10% cg medium-green clasts	R. Gibson
FK17-01	145.7	205.5	Crystal lithic lapilli tuff	Pale green-grey polymictic lithic tuff with peach fsp crystals, local breccia zones (dark grey, soft matrix)	R. Gibson
FK17-02	0	5.2	Overburden		R. Gibson
FK17-02	5.2	119.8	Hematized crystal lithic lapilli tuff	Medium reddish-brown to pale grey-brown volcanic breccia; subangular polymictic clasts, 10-20% equant pl, 10% equant mafics; bedding ~30° tca	R. Gibson
FK17-02	119.8	125.8	Crystal lithic lapilli tuff	Pale green-tan, subangular polymictic clasts generally <1cm, 10% fg pl	R. Gibson
FK17-02	125.8	132.5	Pl-phyric coherent	Dark red-brown to pale green, 30% subhedral equant mg pl, vfg matrix	R. Gibson
FK17-02	132.5	151.2	Crystal lithic lapilli tuff	Dark brown to black soft wispy rock with pale green grey tuff clasts, zones of pale green tuff appear cross-cutting	R. Gibson
FK17-02	151.2	203	Felsic crystal lithic lapilli tuff	Pale green to brown-green-grey; polymictic angular clasts generally <2cm, vfg pale yellow (pl?) and translucent (qtz?) grains; local soft dark grey stringers and bx	R. Gibson
FK17-03	0	4.8	Overburden		R. Gibson
FK17-03	4.8	24.7	Hematized lithic lapilli tuff	Dark red-brown and medium-grey breccia, polymictic subrounded clasts up to 10cm with pale grey matrix	R. Gibson
FK17-03	24.7	84.1	Crystal lithic lapilli tuff	Medium reddish-grey breccia, subrounded polymictic clasts (2-40mm) and ~30% equant mg pl	R. Gibson
FK17-03	84.1	132.5	Lithic lapilli tuff	Medium green-grey lithic lapilli tuff to tuff breccia, subangular polymictic clasts in vfg pale green matrix with local pl/qtz/mafic crystals	R. Gibson
FK17-03	132.5	160.9	Crystal lithic lapilli tuff	Pale green-grey crystal lithic lapilli tuff, subangular polymictic clasts up to 6cm, intervals of dark grey soft black stringers and bx	R. Gibson
FK17-03	160.9	243.3	Felsic crystal lithic lapilli tuff	Pale green crystal lithic lapilli tuff, subangular clasts (up to 3cm) and locally distinguishable fg-mg equant pl	R. Gibson
FK17-03	243.3	269	Crystal lithic lapilli tuff	Pale green-grey felsic crystal lithic lapilli tuff, angular-subangular polymictic clasts (<1cm)	R. Gibson
FK17-04	0	9.2	Overburden		R. Gibson
FK17-04	9.2	397	Pl-phyric coherent	Medium reddish-grey to dark green-grey pl-phyric coherent, 30-40% mg equant pl and <5% fg bt, medium green-grey fg matrix 91.8-103.7m local sheared sericite-altered zones (~1-2m wide), generally massive	R. Gibson
FK17-05	0	7.2	Overburden		R. Gibson
FK17-05	7.2	152	Pl-phyric coherent	Dark green-grey to medium red-grey pl-phyric coherent, 30-40% mg equant pl and 10% fg equant mafics, massive	R. Gibson
FK17-06	0	6	Overburden		R. Gibson

Hole ID	From_m	To_m	Lithology	Notes	Geologist
FK17-06	6	141	Pl-phyric coherent	Medium green-grey and medium red-grey pl-phyric coherent, ~40% mg equant pl, massive	R. Gibson
FK17-07	0	6.6	Overburden		R. Gibson
FK17-07	6.6	173.9	Breccia	Cohesive breccia, matrix-supported with dark grey soft matrix; clasts poorly-sorted angular predominantly pale green to pale orange grey to salt-and-pepper rock, local pl/mafic crystals evident - crystal tuff?, intervals up to 2.5 m of "clast" lith; locally sheared with pervasive mod fabric 20-40° tca (local thrust-sense shear bands)	R. Gibson
FK17-07	173.9	251.2	Pl-phyric coherent	Medium green and patchy pale red, pl crystals, cut by dark brown-grey soft bands (as matrix in previous interval) that decrease proportion downhole, fabric at 50-60° tca	R. Gibson
FK17-07	251.2	416	Crystal lithic lapilli tuff	Dark green-grey and medium red-grey crystal lithic lapilli tuff, 20-40% fg-mg equant pl, 10-20% equant fg mafics, clasts generally not apparent - locally see subangular clasts up to 6cm, beds ~40-60° tca	R. Gibson
FK17-08	0	3	Overburden		R. Gibson
FK17-08	3	47.5	Pl-phyric coherent	Medium green-grey and red-grey pl-phyric coherent, 30% fg-mg equant pl 10-20% fg-mg elongate to equant mafics, 3-22.4m ~5% vcg ksp (?rectangular to prismatic salmon-coloured)	R. Gibson
FK17-08	47.5	66.4	Crystal lithic lapilli tuff	Pale green and peachy green crystal lithic lapilli tuff, varicoloured clasts, matrix generally pale green with ser alt, local wispy chl fabric	R. Gibson
FK17-08	66.4	126.1	Pl-phyric coherent	Dark green-grey pl-phyric coherent, 30% mg equant pl 5-10% fg hem clasts, soft matrix medium red-grey to brown-grey	R. Gibson
FK17-08	126.1	187.8	Crystal lithic lapilli tuff	Dark green-grey to medium brown-grey and dark red-grey crystal lithic lapilli tuff, subangular clasts <5cm, matrix with 20% mg equant pl and 10% fg equant mafics	R. Gibson
FK17-08	187.8	200.8	Pl-phyric coherent	Pale peachy-green pl-phyric coherent, 10-20% medium green equant crystals (pl?)	R. Gibson
FK17-08	200.8	225	Crystal lithic lapilli tuff	Crystal lithic lapilli tuff (?) splotchy alteration difficult to identify protolith, pale pink-orange to pale green to dark green colour, locally discernible pale pink or green fg-mg equant grains (pl?) and subangular irregularly shaped clasts	R. Gibson
FK17-09	0	6	Overburden		R. Gibson
FK17-09	6	25.1	Lithic lapilli tuff	Medium green-grey (crystal?) lithic lapilli tuff, fabric (bd?) 40-50° tca, subangular clasts <4cm	R. Gibson
FK17-09	25.1	48.2	Breccia	Intervals/irregular layers of pale orange-gy (tuff?) with black clasts and bx with pale grey to pale orange clasts in soft medium grey matrix, weak fabric at 30° tca	R. Gibson
FK17-09	48.2	435	Pl-phyric coherent	Pale grey pl-phyric coherent, 20% mg pl in pale grey matrix, 48.2-85m local pl porphyry with up to 40% vcg cream rectangular to irregular fsp, 376.5-379m polymictic bx	C. McDowell

Hole ID	From_m	To_m	Type	Min1	Min1_pct	Min2	Min2_pct	Min3	Min3_pct	Min4	Min4_pct	Notes
FK17-01	4.5	48.7	disseminated	py	1	hem	1					dissem dull grey silver metallic mineral probably hem
FK17-01	48.7	58.6	disseminated	py	1.5							
FK17-01	58.6	61	disseminated	hem	1							
FK17-01	61	66.4	disseminated	py	3	cp	0.5					dissem py, py/cp in qtz vns
FK17-01	66.4	86.7	disseminated	py	2	cp	trace	gal	trace			dissem py, py/cp/gal in qtz vns
FK17-01	86.7	89.5	veined	py	7	gal	1	cp	trace			
FK17-01	89.5	107.6	disseminated	py	1.5							
FK17-01	107.6	108	veined	py	5	gal	1					bx qtz/sulph vn
FK17-01	108	121.8	disseminated	py	2							
FK17-01	121.8	125.1	veined	py	5	cp	2	gal	trace			
FK17-01	125.1	141	veined	py	3	cp	0.2	sp	trace			qtz/sulph vns and vn halos, py stringers
FK17-01	141	145.7	veined	py	4	cp	1	sp	trace	gal	trace	
FK17-01	145.7	166.3	disseminated	py	2	gal	trace					
FK17-01	166.3	174.5	disseminated	py	0.5							
FK17-01	174.5	205.5	disseminated	py	trace							
FK17-02	5.2	131.1	disseminated	py	trace							
FK17-02	131.1	151.2	disseminated	py	3							
FK17-02	151.2	203	disseminated	py	1							
FK17-03	4.8	132.5	disseminated	py	trace							
FK17-03	132.5	156	disseminated	py	2	gal	trace					
FK17-03	156	160.9	disseminated	py	trace							
FK17-03	160.9	241.9	veined	py	1	cp	trace	gal	trace	sp	trace	blebby / discontinuous qtz/sulph vns
FK17-03	241.9	269	disseminated	py	trace							
FK17-04	9.2	16	disseminated	py	1	cp	trace					dissem py, qtz/hem/py/cp bx at 14.6m
FK17-04	16	17.6	veined	py	2	cp	0.2					semi-massive py/cp/hem vns
FK17-04	17.6	20.5	brecciated	py	5	cp	0.8	hem	0.5			semi-massive bx clasts, sulph stringers, sulph in qtz/hem vn clasts
FK17-04	20.5	20.9	brecciated	py	6	cp	4					sulph bx w cb matrix
FK17-04	20.9	22.4	veined	py	4	cp	1					qtz/hem/sulph vns
FK17-04	22.4	28.7	veined	py	1	cp	trace					qtz/cb/hem/sulph vns, dissem py
FK17-04	28.7	32.6	veined	py	2	cp	0.6					qtz/cb/hem/sulph vns, dissem py
FK17-04	32.6	47.2	disseminated	py	1	cp	trace					
FK17-04	47.2	51.3	veined	py	5	cp	1	hem	trace			discontinuous veins (local vn blebs / bx clasts), locally laminated, w qtz/chl/cb/hem/sulph; minor sulph dissem/stringers
FK17-04	51.3	54.7	disseminated	py	1							
FK17-04	54.7	56.1	veined	py	5	cp	2	hem	1			laminated qtz/chl/cb/hem/sulph vns, sulph stringers in vn halo w dissem sulph
FK17-04	56.1	58.6	veined	py	2	cp	0.2					qtz vns w cb/sulph core
FK17-04	58.6	79.3	disseminated	py	1							
FK17-04	79.3	86.3	veined	py	2	cp	0.1					qtz vns and dissem
FK17-04	86.3	91.8	veined	py	0.5	cp	trace					
FK17-04	91.8	92.8	disseminated	py	1	cp	0.2					

Hole ID	From_m	To_m	Type	Min1	Min1_pct	Min2	Min2_pct	Min3	Min3_pct	Min4	Min4_pct	Notes
FK17-04	92.8	154	disseminated	py	0.5	cp	trace					
FK17-04	154	157.5	veined	py	3	cp	1.3					
FK17-04	157.5	160.9	disseminated	py	2							
FK17-04	160.9	162.1	veined	py	2	cp	0.5					
FK17-04	162.1	166.4	veined	py	1	cp	0.2					
FK17-04	166.4	167.6	veined	py	3	cp	0.8	gal	trace			
FK17-04	167.6	182.5	disseminated	py	0.5	cp	trace					
FK17-04	182.5	186.5	veined	py	2	cp	0.2	gal	trace			
FK17-04	186.5	194.6	veined	py	2	cp	trace					
FK17-04	194.6	207.7	veined	py	4	cp	0.8	gal	trace			
FK17-04	207.7	221.7	disseminated	py	1							
FK17-04	221.7	224.8	veined	py	1	cp	0.2					
FK17-04	224.8	267.4	disseminated	py	0.5	cp	trace					dissem, local py/cp in qtz/hem/cb vns
FK17-04	267.4	271	disseminated	py	1	cp	trace					bx with host rock / qtz vn clasts, dissem py in matrix
FK17-04	271	281.2	disseminated	py	trace							
FK17-04	281.2	283.6	disseminated	py	2	cp	trace					dissem sulph in bx matrix w st ser alt
FK17-04	283.6	297.4	disseminated	py	1							dissem and qtz/chl/py vns
FK17-04	297.4	347	disseminated	py	trace							locally up to 2% py w ser/sil alt
FK17-04	347	366.6	disseminated	py	1.5	cp	trace	gal	trace			dissem, rare qtz/chl/sulph vns
FK17-04	366.6	368.4	veined	py	6	cp	0.5					
FK17-04	368.4	377	veined	py	4	cp	0.1					qtz/hem/py/cp vns and clasts, dissem py
FK17-04	377	384.5	disseminated	py	1.5							
FK17-04	384.5	397	disseminated	py	trace							
FK17-05	7.2	18	disseminated	py	trace							
FK17-05	18	22.5	disseminated	py	0.5							
FK17-05	22.5	28	veined	py	1	cp	0.2					qtz/hem/cp+/-cb laminated vns or in vns clasts, local bx
FK17-05	28	33	veined	py	1	cp	0.4					qtz/hem/cp+/-cb laminated vns or in vns clasts, local bx
FK17-05	33	37	brecciated	py	8	cp	3					qtz/hem/sulph vns cut by qtz/sulph vns, bx with semi-massive sulph and vn clasts 33.8-34.4m, 36.4-36.9m
FK17-05	37	55.3	veined	py	2	cp	0.3					laminated qtz/hem vns, bx with semi-massive sulph 38.2-38.5
FK17-05	55.3	81.8	veined	py	0.5	cp	trace					minor semi-continuous qtz/hem/sulph vns and fine qtz/cb/sulph vns, dissem
FK17-05	81.8	90.2	veined	py	1	cp	0.2					diffuse hem/qtz vns (or patchy alt zones) with minor sulph
FK17-05	90.2	110.5	veined	py	0.5	cp	0.1					qtz+/-cb and bx clasts/matrix
FK17-05	110.5	115.8	disseminated	py	0.5							
FK17-05	115.8	127.1	veined	py	2	cp	0.2					minor qtz/hem/sulph vns and dissem py
FK17-05	127.1	152	disseminated	py	0.2							
FK17-06	6	24.5	disseminated	py	trace							
FK17-06	24.5	42.1	disseminated	py	1.5							dissem and minor sulph in qtz/hem+/-cb vns in fault
FK17-06	42.1	46.6	veined	py	2	cp	0.4					qtz/hem+/-cb/chl/sulph vns, dissem

Hole ID	From_m	To_m	Type	Min1	Min1_pct	Min2	Min2_pct	Min3	Min3_pct	Min4	Min4_pct	Notes
FK17-06	46.6	47.5	brecciated	py	10	cp	5					semi-massive sulph bx, qtz/hem vn and host rock clasts, sulph stringers cut bx clasts, clumps/disseminated sulph
FK17-06	47.5	50.7	veined	py	5	cp	2					qtz/hem/sulph vns, disseminated, 50.2-50.7m sulph in bx matrix
FK17-06	50.7	58.7	veined	py	3	cp	0.3					qtz/hem/sulph vns, disseminated, stringers, vn halos, in bx matrix
FK17-06	58.7	65.5	disseminated	py	1	cp	0.2					clumps, blebs, disseminated, vns
FK17-06	65.5	71	disseminated	py	1	cp	trace					
FK17-06	71	83.6	disseminated	py	0.5							
FK17-06	83.6	92.3	veined	py	1	cp	0.2					
FK17-06	92.3	141	disseminated	py	0.5							
FK17-07	6.6	112.8	disseminated	py	1							vfg py in matrix and bx clasts
FK17-07	112.8	129.2	disseminated	py	0.5							
FK17-07	129.2	132.3	disseminated	py	2							
FK17-07	132.3	142.5	disseminated	py	1	cp	trace					
FK17-07	142.5	146.2	disseminated	py	2							sil alt, increased py
FK17-07	146.2	162.7	disseminated	py	1							
FK17-07	162.7	167.2	disseminated	py	2							sil alt, increased py
FK17-07	167.2	187.4	disseminated	py	1							
FK17-07	187.4	192.3	veined	py	3	cp	trace					sulph stringers
FK17-07	192.3	196	veined	py	1							sulph stringers
FK17-07	196	211.8	disseminated	py	0.5							
FK17-07	211.8	219	veined	py	2	cp	trace					
FK17-07	221	243.6	disseminated	py	2							
FK17-07	243.6	248.8	disseminated	py	1							
FK17-07	248.8	251.2	veined	py	2							stringers, disseminated
FK17-07	251.2	251.5	veined	py	5	cp	2					
FK17-07	251.5	284.8	disseminated	py	0.5							
FK17-07	284.8	295.9	veined	py	2	cp	0.1	mag	1			sulph stringers and qtz vns, disseminated mag(?)
FK17-07	295.9	305.4	disseminated	py	0.5							
FK17-07	305.4	306.9	veined	py	1	cp	0.3					chl/sulph vns
FK17-07	306.9	336.6	disseminated	py	trace							
FK17-07	336.6	339.4	veined	py	2	cp	0.4	gal	0.2			wispy sulph vn, disseminated, qtz/sulph vns
FK17-07	339.4	346.8	disseminated	py	trace							
FK17-07	346.8	347.8	disseminated	py	2							
FK17-07	347.8	379	disseminated	py	0.5							
FK17-07	379	380.2	disseminated	py	2	cp	1	gal	0.2			stringers and disseminated
FK17-07	380.2	402	disseminated	py	0.5							
FK17-07	402	405.7	veined	py	0.5	cp	trace	gal	trace			qtz/hem/chl vns
FK17-07	405.7	416	disseminated	py	0.5							
FK17-08	3	41.8	disseminated	py	trace							
FK17-08	41.8	47.5	disseminated	py	0.5							

Hole ID	From_m	To_m	Type	Min1	Min1_pct	Min2	Min2_pct	Min3	Min3_pct	Min4	Min4_pct	Notes
FK17-08	47.5	52.3	brecciated	py	3	cp	0.2	gal	trace			qtz/sulph vn clasts in bx
FK17-08	52.3	74.1	disseminated	py	2	cp	0.1					dissem, stringers, qtz vn clasts
FK17-08	74.1	77	veined	py	2	cp	0.3	gal	trace			qtz/sulph vns
FK17-08	77	80.7	disseminated	py	1	cp	0.1					dissem, rare sulph along cb vns
FK17-08	80.7	83.7	veined	py	3	cp	0.4					qtz/sulph vns
FK17-08	83.7	97.6	disseminated	py	1	cp	0.1					dissem and qtz/sulph vns
FK17-08	97.6	100.5	veined	py	2	cp	0.5	gal	0.2			laminated qtz/chl/hem/cb/sulph vns
FK17-08	100.5	106	disseminated	py	1	cp	trace					
FK17-08	106	115.1	disseminated	py	3	cp	0.1					
FK17-08	115.1	116.5	veined	py	5							bx qtz/sulph/chl vn
FK17-08	116.5	126.1	veined	py	3	cp	0.2					diffuse qtz/sulph vns
FK17-08	126.1	144	disseminated	py	0.5	cp	trace					
FK17-08	144	145.8	veined	py	1	cp	0.2	gal	0.1			bx qtz/hem/sulph vn
FK17-08	145.8	162.3	disseminated	py	0.5							
FK17-08	162.3	165	veined	py	3	cp	trace					bx qtz/cb/sulph vn, chl alt rock
FK17-08	165	178.6	disseminated	py	0.5							
FK17-08	178.6	179.6	veined	py	1	cp	0.2					qtz/chl/cb/sulph vns
FK17-08	179.6	181.6	disseminated	py	0.5							
FK17-08	181.6	187.8	veined	py	2	cp	0.3					semi-continuous qtz/cb/sulph+/-hem vns and minor diffuse qtz/chl/sulph vns
FK17-08	187.8	198.7	veined	py	3	cp	0.4					laminated qtz/sulph vns, fine qtz+/-cb/sulph/hem vns, sulph stringers
FK17-08	198.7	200.8	veined	py	3	cp	0.6					irregular qtz/hem+/-sulph vns with strong sil alt, cut by Fe-cb veinlets
FK17-08	200.8	219.3	veined	py	2	cp	0.2					qtz/sulph vns and sulph stringers
FK17-08	219.3	225	veined	py	2	cp	0.1					laminated qtz/sulph vn, sulph stringers, dissem
FK17-09	16.7	31.8	disseminated	py	0.5							
FK17-09	31.8	48.2	disseminated	py	1	cp	trace					
FK17-09	48.2	72.3	disseminated	py	2	cp	0.1					
FK17-09	72.3	82.6	veined	py	1	cp	0.1					
FK17-09	82.6	110.9	disseminated	py	1	cp	0.2					dissem, blebs, rare sulph w cb vns and qtz/sulph vn clasts, bx qtz/hem/sulph vn 98.4-99m
FK17-09	110.9	112.1	veined	py	2	cp	0.5					qtz/hem/cb vns and flooding with sulph
FK17-09	112.1	115.6	veined	py	3	cp	0.4	gal	0.2			veins and dissem
FK17-09	115.6	127.3	veined	py	1	cp	0.2					sulph stringers and qtz/sulph vns
FK17-09	127.3	129.9	veined	py	2	cp	1	gal	0.2			dissem, qtz/sulph vns
FK17-09	129.9	136.2	disseminated	py	1	cp	0.2					dissem, sulph stringers
FK17-09	136.2	146.3	veined	py	4	cp	0.5	gal	0.1			dissem and qtz/sulph vns
FK17-09	146.3	173.8	veined	py	1	cp	0.2					dissem and qtz/sulph vns
FK17-09	173.8	178.5	veined	py	4	cp	1.5					diffuse qtz/sulph vns with semi-massive sulph
FK17-09	178.5	185.1	veined	py	2	cp	0.2					qtz/sulph vns
FK17-09	185.1	209.8	disseminated	py	trace							
FK17-09	209.8	214.4	veined	py	2	cp	0.4					qtz/sulph vns, dissem

Hole ID	From_m	To_m	Alt1	Alt1 Intensity	Alt2	Alt2 Intensity	Alt3	Alt3 Intensity	Alt Notes
FK17-01	4.5	48.7	hem	mod	ser	weak			brick red colour, hem-filled fractures/vns, occasional cm-scale silicified zones
FK17-01	48.7	58.6	sil	weak	ser	weak			local dull green ser+/-sil patches
FK17-01	58.6	61	hem	weak	ser	mod			local med grey to deep red matrix, hem vns
FK17-01	61	86.7	ser	mod	sil	weak			light grey-green patchy
FK17-01	86.7	89.5	sulph	mod	qtz vn	mod			
FK17-01	89.5	121.8	ser	weak	sil	mod			
FK17-01	121.8	125.1	sulph	mod	qtz vn	mod			
FK17-01	125.1	145.7	sil	weak	ser	weak			
FK17-01	145.7	174.5	ser	mod	sil	mod			pervasive weak to mod ser/sil alt with locally strong ser and local mod chl
FK17-01	174.5	205.5	ser	mod	sil	mod			weak to mod ser/sil alt with local strong ser
FK17-02	5.2	125.8	hem	mod					local patchy mod ser
FK17-02	125.8	203	sil	mod	ser	mod			
FK17-03	4.8	24.7	hem	mod					
FK17-03	24.7	132.5	hem	weak	sil	weak	ser	weak	patchy weak ser zones
FK17-03	132.5	156	sil	mod	ser	mod	hem	weak	local weak hem
FK17-03	156	160.9	hem	mod	cb	mod			
FK17-03	160.9	239.3	sil	mod	ser	weak			
FK17-03	239.3	269	ser	mod	sil	mod	hem	weak	patchy strong ser and hem/clay alt assoc with faults
FK17-04	9.2	17.6	hem	weak	cb	weak			
FK17-04	17.6	22.4	cb	strong	sulph	strong			sulph/cb bx
FK17-04	22.4	47.2	chl	mod	hem	weak	sil	weak	patchy weak to mod sil/ser zones
FK17-04	47.2	91.8	chl	mod	sil	weak	ser	weak	
FK17-04	91.8	103.7	chl	mod	cb	weak	ser	mod	patchy ser alt w shearing
FK17-04	103.7	152.9	sil	weak	ser	weak	chl	weak	local narrow sil/hem alt zones, locally chl/ser alt
FK17-04	152.9	166.4	ser	mod	sil	weak	chl	mod	
FK17-04	166.4	207.7	sil	mod	chl	weak	ser	mod	patchy ser
FK17-04	207.7	267.4	sil	mod	chl	mod	ser	weak	patchy ser and patchy weak hem
FK17-04	267.4	281.2	ser	mod	chl	mod	sil	mod	
FK17-04	281.2	283.6	ser	strong	sil	mod	chl	mod	patchy sil/chl
FK17-04	283.6	297.4	ser	mod	sil	weak	chl	weak	patchy mod to strong ser
FK17-04	297.4	347	hem	weak	chl	weak			local mod ser/sil alt w py up to 2%
FK17-04	347	366.6	ser	mod	sil	weak	chl	weak	
FK17-04	366.6	387.8	chl	mod	sil	mod	hem	weak	patchy hem/ser alt
FK17-04	387.8	397	chl	weak	hem	weak			
FK17-05	7.2	28	hem	weak	sil	mod	chl	weak	weak chl alt overprinted by wispy ser, zones of mod hem alt, patchy weak sil alt
FK17-05	28	33	chl	mod	hem	mod	sil	weak	chl/sil alt overprinted by intervals and vn halos of hem/ser alt
FK17-05	33	37	sulph	strong	qtz vn	strong			mod chl/weak hem alt with local wk ser alt overprinted by patchy mod sil/qtz vn alt
FK17-05	37	55.3	chl	weak	sil	weak	hem	weak	similar to previous interval with decreased mineralization
FK17-05	55.3	86.7	chl	weak	hem	weak	sil	weak	pervasive weak chl alt with patchy weak to mod hem/sil alt
FK17-05	86.7	98	chl	mod	hem	mod	sil	mod	fault zone with weak to mod chl/hem alt, intervals with strong sil/hem alt, bx clasts with strong ser alt
FK17-05	98	121.5	chl	mod	hem	weak	sil	weak	
FK17-05	121.5	152	chl	mod	sil	mod	hem	weak	patchy alt, mod chl/sil alt locally overprinted by mod hem

Hole ID	From_m	To_m	Alt1	Alt1 Intensity	Alt2	Alt2 Intensity	Alt3	Alt3 Intensity	Alt Notes
FK17-06	6	24.5	hem	weak	chl	weak	ser	weak	intervals (10s cm wide) of weak chl overprinted by weak ser/sil and hem alt
FK17-06	24.5	46.6	sil	mod	ser	mod	chl	weak	weak to mod ser alt overprints weak chl, overprinted by irregular patches sil/hem alt, above and in fault
FK17-06	46.6	47.3	sulph	strong					sulphide bx zone
FK17-06	47.3	58.7	sil	strong	ser	mod	chl	mod	patchy ser/chl
FK17-06	58.7	65.5	ser	mod	chl	mod	sil	mod	patchy sil
FK17-06	65.5	83.6	hem	weak	chl	weak	sil	weak	local sil alt, patchy chl
FK17-06	83.6	141	chl	weak	sil	mod	hem	weak	sil alt, patchy weak hem overprint, 93.9-94.1m strong ser alt shear at 30 tca
FK17-07	6.6	112.8	ser	mod	Fe cb	weak	clay	mod	hem alt 38.2-41.3m
FK17-07	129.2	142.5	sil	weak	ser	weak	cb	weak	patchy ser/cb
FK17-07	142.5	173.9	sil	mod	ser	weak			patchy alt
FK17-07	173.9	192.3	ser	mod	sil	mod	cb	mod	
FK17-07	192.3	211.8	ser	mod	hem	mod	sil	weak	patchy alt
FK17-07	211.8	221	sil	mod	chl	weak	hem	weak	patchy alt, ser alt at vn margins
FK17-07	221	236.3	sil	weak	hem	weak	chl	weak	patchy
FK17-07	236.3	243.6	sil	mod	hem	weak	ser	weak	patchy, 241.3-243.6m mod sil alt with patchy ser/hem and dissem py
FK17-07	243.6	306.9	sil	weak	hem	weak	chl	weak	patchy, local weak ser
FK17-07	306.9	335	hem	weak	sil	weak			
FK17-07	335	346.8	sil	mod	hem	weak	ser	mod	patchy ser and hem alt
FK17-07	346.8	357.1	sil	mod	chl	mod	hem	weak	pervasive sil alt, patchy chl/hem/ser
FK17-07	357.1	379	hem	weak	sil	weak			
FK17-07	379	380.2	sil	mod	ser	mod	chl	mod	sil/hem alt overprinted by patchy ser/chl in bx zone
FK17-07	380.2	414.7	hem	weak	sil	weak			patchy strong sil/hem alt
FK17-07	414.7	416	ser	weak	sil	weak	hem	weak	
FK17-08	3	26.7	ser	mod	sil	weak			mod hem alt 3-5.4m, weak to mod ser alt
FK17-08	26.7	41.8	ser	mod	chl	mod	hem	weak	patchy hem alt
FK17-08	41.8	47.5	ser	mod	hem	weak			patchy alt, variable alt of bx matrix/clasts
FK17-08	47.5	52.3	qtz vn	mod	ser	strong			bx qtz vn with ser alt matrix
FK17-08	52.3	55.8	ser	mod	sil	weak	hem	weak	
FK17-08	55.8	66.4	ser	strong	hem	weak	clay	mod	patchy hem/clay
FK17-08	66.4	74.1	chl	weak	hem	weak			
FK17-08	74.1	77	ser	strong	sil	weak			sheared qtz/ser alt zone
FK17-08	77	80.7	chl	weak	sil	weak			
FK17-08	80.7	83.7	ser	mod	sil	weak			
FK17-08	83.7	97.6	chl	weak	sil	weak	hem	mod	patchy hem alt
FK17-08	97.6	115.1	chl	mod	sil	weak	ser	weak	patchy ser atl
FK17-08	115.1	116.5	qtz vn	mod	ser	strong	hem	weak	bx qtz vn with ser/sil and patchy hem alt matrix
FK17-08	116.5	126.1	chl	mod	sil	weak	ser	mod	patchy ser
FK17-08	126.1	187.8	chl	mod	hem	weak	sil	weak	patchy hem alt, local intervals mod ser alt
FK17-08	187.8	198.7	ser	mod	Fe cb	mod	sil	mod	patchy sil alt, pale orange to brown matrix reacts to HCl (Fe-cb?)
FK17-08	198.7	200.8	sil	strong	ser	mod	Fe cb	mod	strong sil alt cut by qtz and Fe-cb vns
FK17-08	200.8	219.3	sil	mod	K	mod	ser	mod	patchy alt, variable colour, appears to sil/K alt variably overprinted by ser/hem
FK17-08	219.3	225	sil	mod	K	mod	hem	mod	patchy alt, appears to grade from hem to K alt overprinted by patchy mod ser, overprinted by mod chl
FK17-09	6	16.7	chl	weak	hem	weak			patchy hem alt
FK17-09	16.7	25.1	ser	mod	Fe cb	weak			
FK17-09	25.1	48.2	ser	weak					
FK17-09	48.2	52.3	sil	strong					
FK17-09	52.3	72.3	sil	mod	ser	mod			variable sil/ser alt

Hole ID	From_m	To_m	Alt1	Alt1 Intensity	Alt2	Alt2 Intensity	Alt3	Alt3 Intensity	Alt Notes
FK17-09	72.3	82.6	sil	mod	ser	mod	chl	mod	patchy chl/cb alt
FK17-09	82.6	110.9	sil	mod	hem	weak	chl	mod	splotchy chl alt, rare intervals overprinted by ser alt
FK17-09	110.9	112.1	sil	mod	ser	mod			
FK17-09	112.1	127.3	sil	mod	chl	mod	ser	weak	patchy ser alt
FK17-09	127.3	129.9	sil	strong	ser	mod	hem	mod	ser with local sil/hem overprinted by chl/cb cut by yellow-green vns
FK17-09	129.9	185.1	chl	mod	sil	mod	ser	weak	local weak ser overprint, minor hem alt
FK17-09	185.1	275.5	sil	mod	chl	mod	hem	weak	
FK17-09	275.5	289.3	sil	mod	ser	weak	chl	weak	patchy/selective ser alt
FK17-09	289.3	302.7	chl	weak	sil	weak			
FK17-09	302.7	316.4	sil	mod	chl	weak			
FK17-09	316.4	318.2	sil	strong	ser	mod	hem	weak	mottled alt
FK17-09	318.2	327.3	sil	weak	chl	weak	hem	weak	
FK17-09	327.3	329.2	sil	strong	ser	mod	hem	weak	narrow qtz/ser alt zones
FK17-09	329.2	340	sil	weak	chl	weak	hem	weak	weak sil/chl with local narrow sil/ser alt zones (with sulph)
FK17-09	340	401.9	sil	mod	ser	weak	chl	weak	sil alt with local ser alt, locally overprinted with hard pale red-grey (sil/hem alt?), locally overprinted by chl
FK17-09	401.9	415	chl	mod	ser	mod	sil	mod	variable ser/sil and ser alt, local chl alt
FK17-09	415	435	chl	mod	hem	mod	ser	weak	

APPENDIX I: Assay Certificates



ALS Canada Ltd.
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To: **ABEN RESOURCES LTD.**
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Page: 1
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 Plus Appendix Pages
 Finalized Date: 18-AUG-2017
 This copy reported on
 19-JAN-2018
 Account: CONBAA

CERTIFICATE VA17154244

Project: Forrest Kerr Project

This report is for 201 Soil samples submitted to our lab in Terrace, BC, Canada on 14-JUL-2017.

The following have access to data associated with this certificate:

CORNELL MCDOWELL		
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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-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: **ABEN RESOURCES LTD.**
ATTN: ALS GEOCHEMISTRY

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 VA17154244

Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Au Check ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm
		0.02	0.001	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
839101		0.20	0.006		0.2	0.35	7	<10	80	<0.5	<2	0.13	<0.5	3	9	35
839102		0.36	0.011		0.3	2.65	28	<10	40	<0.5	2	0.06	<0.5	16	27	64
839103		0.36	0.013		0.8	1.67	28	<10	60	<0.5	<2	0.11	<0.5	10	26	47
839104		0.34	0.008		0.3	1.11	27	<10	70	<0.5	<2	0.16	<0.5	16	23	24
839105		0.44	0.039		0.6	1.68	46	<10	100	<0.5	2	0.07	<0.5	14	23	64
839106		0.36	0.009		0.2	1.25	21	<10	90	<0.5	<2	0.38	<0.5	17	74	49
839107		0.38	0.041		0.8	0.59	53	<10	80	<0.5	<2	0.08	<0.5	8	12	236
839108		0.38	0.020		0.8	0.91	38	<10	80	0.5	2	0.14	<0.5	17	10	334
839109		0.40	0.290		0.4	2.92	86	<10	60	0.8	2	0.12	<0.5	8	17	75
839110		0.36	0.002		<0.2	1.95	7	<10	130	<0.5	<2	0.73	<0.5	14	36	49
839111		0.48	0.902		0.7	2.65	726	<10	270	1.0	2	0.30	<0.5	66	14	469
839112		0.28	NSS		0.4	1.43	498	<10	100	0.5	2	0.31	<0.5	39	17	205
839113		0.52	2.85	2.91	1.3	2.83	2300	<10	340	1.3	3	1.03	<0.5	80	7	820
839114		0.30	0.243		0.5	1.15	348	<10	40	<0.5	<2	0.10	<0.5	10	10	119
839115		0.46	0.016		0.3	2.27	20	<10	110	<0.5	2	0.09	<0.5	12	28	86
839116		0.34	0.009		0.2	1.13	14	<10	40	<0.5	<2	0.07	<0.5	4	19	30
839117		0.48	0.018		0.3	2.26	14	<10	70	<0.5	<2	0.08	<0.5	4	21	42
839118		0.38	0.010		0.2	2.22	23	<10	320	1.0	5	1.35	<0.5	15	89	116
839119		0.38	0.019		0.2	0.93	40	<10	80	<0.5	2	0.28	<0.5	14	12	48
839120		0.40	0.445		0.3	1.21	128	<10	130	0.5	<2	0.34	<0.5	20	12	62
839120D		0.36	0.508		0.2	1.21	118	<10	140	0.5	2	0.40	<0.5	20	14	55
839121		0.28	0.061		0.4	0.45	68	<10	30	<0.5	<2	0.07	<0.5	7	11	48
839122		0.28	0.219		0.5	0.98	205	<10	100	<0.5	2	0.09	<0.5	11	11	106
839123		0.32	0.054		1.3	1.60	126	<10	90	0.5	<2	0.16	<0.5	25	10	119
839124		0.38	0.382		0.5	3.74	540	<10	90	1.5	3	0.27	<0.5	79	6	654
839125		0.40	0.406		0.3	1.57	429	<10	270	0.8	<2	0.65	<0.5	59	11	149
839126		0.32	0.275		0.7	1.51	511	<10	60	<0.5	2	0.25	<0.5	16	7	225
839127		0.44	0.600		0.5	2.13	1395	<10	210	1.0	3	0.84	<0.5	76	10	395
839128		0.28	0.274		0.4	2.54	320	<10	40	<0.5	<2	0.05	<0.5	9	10	188
839129		0.42	0.301		0.5	1.42	454	<10	440	0.9	2	0.67	<0.5	54	10	325
839130		0.26	0.002		<0.2	1.84	9	<10	120	<0.5	2	0.73	<0.5	14	30	47
839131		0.36	0.256		0.9	2.96	503	<10	60	<0.5	3	0.06	<0.5	18	14	445
839132		0.32	0.422		0.4	2.82	914	<10	80	0.6	<2	0.20	<0.5	21	25	81
839133		0.44	0.291		1.0	3.07	696	<10	300	0.8	5	0.42	<0.5	62	46	702
839134		0.26	0.020		0.4	2.21	49	<10	40	<0.5	<2	0.03	<0.5	9	28	78
839135		0.40	0.023		<0.2	2.57	90	<10	160	0.9	<2	0.17	<0.5	33	25	57
839136		0.42	0.020		<0.2	1.32	83	<10	220	0.7	2	0.43	<0.5	42	16	66
839137		0.38	0.278		0.3	2.60	265	<10	110	0.9	<2	0.60	<0.5	79	29	180
839138		0.26	0.011		<0.2	1.15	68	<10	90	<0.5	<2	0.32	<0.5	24	11	196
839139		0.34	0.031		0.4	3.59	196	<10	80	0.6	2	0.12	<0.5	16	31	184



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Project: Forrest Kerr Project

CERTIFICATE OF ANALYSIS VA17154244

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
	Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
Units	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
LOR	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	
839101	1.34	<10	1	0.05	10	0.08	124	2	0.01	6	870	2	0.11	<2	1	
839102	6.65	10	<1	0.06	10	0.43	1330	3	0.02	11	1010	8	0.10	<2	4	
839103	6.46	10	<1	0.05	10	0.37	598	2	0.01	16	1180	6	0.12	2	2	
839104	6.14	10	<1	0.06	10	0.35	1550	2	0.01	14	1230	6	0.10	<2	2	
839105	6.46	10	<1	0.05	10	0.39	1205	2	0.01	16	1420	6	0.09	<2	3	
839106	5.70	10	<1	0.06	10	0.64	2080	2	0.03	28	1770	4	0.13	<2	3	
839107	6.95	10	<1	0.05	10	0.09	538	4	0.02	14	1440	5	0.14	11	2	
839108	8.43	10	1	0.04	10	0.11	2760	4	0.01	8	2740	4	0.14	4	2	
839109	5.94	10	<1	0.05	10	0.28	489	3	0.03	9	1480	8	0.12	<2	4	
839110	3.61	10	<1	0.23	10	0.99	899	<1	0.03	35	1130	7	0.03	<2	6	
839111	14.40	10	<1	0.06	20	0.68	5560	4	0.03	19	2220	10	0.09	2	16	
839112	10.45	10	1	0.03	10	0.28	3470	2	0.02	11	2190	7	0.18	2	6	
839113	16.00	10	1	0.05	20	0.78	7290	3	0.03	14	1740	10	0.12	3	24	
839114	7.16	10	1	0.03	10	0.16	515	3	0.02	7	660	4	0.08	4	6	
839115	3.87	10	<1	0.06	10	0.78	716	1	0.02	17	510	6	0.04	<2	4	
839116	6.60	10	1	0.04	10	0.24	384	2	0.01	13	1540	4	0.11	<2	1	
839117	3.37	10	<1	0.04	10	0.36	213	2	0.02	7	730	6	0.07	<2	1	
839118	6.06	10	<1	0.03	20	0.60	877	2	0.02	30	1710	3	0.15	<2	3	
839119	6.39	10	<1	0.05	10	0.17	1345	3	0.02	8	1210	9	0.12	<2	3	
839120	5.84	10	1	0.06	10	0.30	1925	2	0.02	13	1560	8	0.13	<2	3	
839120D	6.23	10	<1	0.07	10	0.35	2110	3	0.04	14	1620	8	0.14	<2	3	
839121	4.34	10	<1	0.04	10	0.06	299	6	0.01	10	920	3	0.11	2	2	
839122	7.20	10	1	0.04	10	0.18	903	3	0.02	16	1380	7	0.15	2	3	
839123	8.74	10	1	0.05	10	0.30	2130	3	0.02	16	2200	9	0.16	3	2	
839124	16.45	10	<1	0.02	10	0.37	4860	4	0.01	7	1880	7	0.11	2	16	
839125	10.35	10	<1	0.09	10	0.51	5380	4	0.04	16	2330	12	0.17	2	4	
839126	10.80	10	1	0.03	10	0.18	1685	2	0.02	5	3290	4	0.18	2	4	
839127	14.30	10	<1	0.04	10	0.54	5450	3	0.01	16	2210	15	0.15	3	19	
839128	11.00	10	<1	0.02	10	0.17	496	3	0.01	5	1300	4	0.11	<2	5	
839129	10.65	10	1	0.06	10	0.60	3920	2	0.02	35	1120	10	0.10	3	17	
839130	3.74	10	1	0.21	10	0.96	873	1	0.03	30	1140	6	0.02	<2	5	
839131	10.80	10	1	0.02	10	0.28	1170	2	0.01	9	2060	11	0.17	15	6	
839132	7.94	10	<1	0.02	20	0.31	1105	2	0.01	19	1570	17	0.17	<2	6	
839133	11.65	10	1	0.09	20	0.80	5760	3	0.02	36	1890	9	0.12	<2	18	
839134	10.65	20	<1	0.03	10	0.39	535	2	0.01	13	930	10	0.11	3	4	
839135	8.12	10	<1	0.05	10	0.58	1880	3	0.02	24	1400	9	0.10	2	3	
839136	7.33	<10	<1	0.07	10	0.45	2150	4	0.03	37	1010	11	0.10	2	7	
839137	8.88	10	<1	0.07	10	1.12	3090	2	0.03	39	1760	14	0.15	<2	5	
839138	4.78	10	<1	0.05	10	0.29	687	2	0.04	16	1390	7	0.18	<2	4	
839139	7.46	10	<1	0.03	10	0.61	603	2	0.02	20	770	14	0.08	2	9	



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Sr ppm 1	Th ppm 20	Ti % 0.01	Ti ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2
839101		10	<20	0.04	<10	<10	33	<10	26
839102		8	<20	0.12	<10	<10	87	<10	51
839103		12	<20	0.06	<10	<10	64	<10	41
839104		13	<20	0.09	<10	<10	81	<10	50
839105		9	<20	0.04	<10	<10	80	<10	42
839106		28	<20	0.06	<10	<10	69	<10	45
839107		7	<20	0.04	<10	<10	53	<10	34
839108		6	<20	0.03	<10	<10	68	<10	39
839109		10	<20	0.14	<10	<10	73	<10	60
839110		43	<20	0.12	<10	<10	69	<10	91
839111		17	<20	0.03	<10	<10	89	<10	75
839112		12	<20	0.02	<10	<10	62	<10	44
839113		45	<20	0.03	<10	<10	61	<10	94
839114		9	<20	0.16	<10	<10	112	<10	27
839115		10	<20	0.04	<10	<10	69	<10	50
839116		8	<20	0.11	<10	<10	117	<10	24
839117		9	<20	0.04	<10	<10	59	<10	29
839118		91	<20	0.04	<10	<10	65	<10	25
839119		22	<20	0.16	<10	<10	76	<10	48
839120		18	<20	0.06	<10	<10	57	<10	62
839120D		23	<20	0.08	<10	<10	65	<10	64
839121		6	<20	0.09	<10	<10	102	<10	35
839122		7	<20	0.03	<10	<10	63	<10	47
839123		11	<20	0.01	<10	<10	63	<10	71
839124		12	<20	0.03	<10	<10	49	<10	27
839125		26	<20	0.03	<10	<10	84	<10	105
839126		12	<20	0.08	<10	<10	74	<10	39
839127		28	<20	0.01	<10	<10	51	<10	63
839128		5	<20	0.11	<10	<10	94	<10	20
839129		47	<20	0.02	<10	<10	65	<10	85
839130		40	<20	0.11	<10	<10	71	<10	87
839131		5	<20	0.03	<10	<10	61	<10	44
839132		8	<20	0.08	<10	<10	68	<10	37
839133		23	<20	0.02	<10	<10	61	<10	72
839134		6	<20	0.22	<10	<10	149	<10	31
839135		10	<20	0.04	<10	<10	104	<10	42
839136		27	<20	0.03	<10	<10	63	<10	83
839137		17	<20	0.04	<10	<10	134	<10	99
839138		14	<20	0.10	<10	<10	61	<10	41
839139		8	<20	0.14	<10	<10	107	<10	61



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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Au Check ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm
839140		0.28	0.087		0.2	2.25	412	<10	120	0.9	<2	0.64	<0.5	45	22	190
839141		0.24	0.081		0.2	2.18	413	<10	140	0.9	<2	0.58	<0.5	48	22	195
839142		0.42	0.012		<0.2	1.93	41	<10	220	0.8	2	0.34	<0.5	35	19	165
839143		0.42	0.860		0.5	2.43	418	<10	170	0.9	2	0.36	<0.5	48	19	464
839144		0.32	0.009		0.5	1.69	40	<10	60	<0.5	<2	0.06	<0.5	16	16	142
839145		0.46	0.025		0.2	2.33	41	<10	280	0.8	<2	0.24	<0.5	36	20	266
839146		0.40	0.006		<0.2	2.21	23	<10	110	<0.5	<2	0.28	<0.5	25	22	110
839147		0.44	0.015		<0.2	1.99	74	<10	150	0.7	<2	0.38	<0.5	33	21	172
839148		0.32	0.032		0.5	2.68	192	<10	50	0.6	2	0.40	<0.5	26	27	157
839149		0.32	0.051		0.3	1.60	106	<10	90	0.8	2	0.28	<0.5	26	15	65
839150		0.32	<0.001		<0.2	1.91	7	<10	120	<0.5	<2	0.70	<0.5	14	32	49
839151		0.30	0.020		<0.2	1.44	51	<10	160	<0.5	2	0.39	<0.5	11	21	34
839152		0.26	0.029		<0.2	1.30	68	<10	390	<0.5	<2	0.34	<0.5	27	16	65
839153		0.26	0.009		<0.2	2.24	26	<10	110	<0.5	2	0.03	<0.5	5	19	32
839154		0.32	0.014		0.5	1.62	43	<10	40	<0.5	<2	0.03	<0.5	12	12	87
839155		0.52	0.026		0.3	3.63	155	<10	170	1.1	<2	0.48	<0.5	42	23	307
839156		0.32	0.073		0.3	1.39	77	<10	50	<0.5	<2	0.22	<0.5	12	13	74
839157		0.44	0.133		0.4	2.48	197	<10	100	0.7	<2	0.44	<0.5	35	14	164
839158		0.40	1.940	0.784	0.6	1.76	570	<10	430	0.9	2	0.75	<0.5	69	10	302
839159		0.42	0.210		0.4	1.92	436	<10	320	1.0	<2	0.74	<0.5	67	9	204
839160		0.34	0.319		0.2	1.11	479	<10	140	<0.5	<2	0.72	<0.5	33	8	123
839161		0.30	0.369		0.3	1.18	670	<10	120	0.5	2	0.57	<0.5	39	12	129
839162		0.46	0.207		0.3	1.29	233	<10	320	0.7	2	0.86	<0.5	45	8	197
839163		0.40	0.049		0.7	3.03	150	<10	70	0.9	2	0.09	<0.5	73	16	420
839164		0.26	0.009		<0.2	0.48	25	<10	30	<0.5	<2	0.11	<0.5	3	11	50
839165		0.38	0.496		0.3	1.84	301	<10	140	0.7	2	0.21	<0.5	18	15	90
839166		0.42	0.049		<0.2	1.85	40	<10	210	<0.5	<2	0.38	<0.5	18	22	101
839167		0.44	0.010		<0.2	1.99	20	<10	170	<0.5	<2	0.35	<0.5	18	32	74
839168		0.30	0.004		<0.2	1.36	11	<10	80	<0.5	<2	0.06	<0.5	3	16	25
839169		0.30	0.006		0.2	1.73	11	<10	130	<0.5	<2	0.12	<0.5	6	19	33
839170		0.62	<0.001		<0.2	2.11	8	<10	140	<0.5	2	0.64	<0.5	15	36	49
839171		0.34	0.014		<0.2	1.71	16	<10	170	<0.5	<2	0.19	<0.5	16	21	62
839172		0.48	0.004		<0.2	2.25	12	<10	250	0.5	<2	0.32	<0.5	16	30	54
839173		0.30	0.019		0.2	1.55	20	<10	230	<0.5	<2	0.18	<0.5	9	25	28
839174		0.36	0.005		<0.2	1.40	12	<10	170	<0.5	<2	0.21	<0.5	9	17	33
839175		0.36	0.006		<0.2	1.32	40	<10	260	<0.5	<2	0.66	<0.5	15	25	46
839176		0.34	0.320		0.3	1.78	126	<10	180	0.6	<2	0.38	<0.5	26	18	96
839177		0.36	0.172		0.2	1.89	384	<10	160	0.8	<2	0.17	<0.5	29	22	92
839178		0.36	0.292		0.2	1.61	250	<10	120	0.7	<2	0.23	<0.5	31	16	101
839179		0.42	0.078		0.3	1.35	98	<10	180	0.5	<2	0.30	<0.5	23	14	90



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		Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm
839140		8.96	10	<1	0.05	10	0.66	2820	3	0.03	35	1510	9	0.13	3	11
839141		8.90	10	<1	0.04	10	0.65	3070	2	0.03	36	1570	7	0.13	4	10
839142		6.71	<10	<1	0.07	10	0.95	2160	2	0.02	32	1170	8	0.05	2	9
839143		8.76	10	<1	0.07	10	1.13	2030	2	0.03	29	1080	15	0.06	3	10
839144		9.64	<10	<1	0.03	10	0.51	1530	4	0.02	18	1250	13	0.09	<2	2
839145		6.76	10	<1	0.08	10	1.30	2350	2	0.02	28	1060	10	0.03	3	9
839146		6.26	10	<1	0.09	10	1.00	2100	2	0.02	18	1170	7	0.06	<2	2
839147		6.41	<10	<1	0.07	10	1.00	1900	2	0.02	32	1100	10	0.04	2	9
839148		9.22	10	<1	0.03	10	0.54	1110	2	0.03	20	1370	29	0.11	2	5
839149		7.33	10	<1	0.05	10	0.31	2160	2	0.03	9	1380	11	0.13	3	3
839150		3.69	10	<1	0.20	10	0.95	885	1	0.03	32	1110	8	0.02	<2	5
839151		5.74	10	<1	0.03	10	0.31	359	3	0.02	15	520	6	0.05	<2	4
839152		5.48	10	<1	0.05	10	0.37	1400	4	0.03	15	1250	13	0.11	<2	3
839153		9.07	10	<1	0.02	10	0.27	333	1	0.02	8	490	13	0.06	2	3
839154		7.45	10	<1	0.04	10	0.28	831	2	0.03	16	830	7	0.10	<2	3
839155		8.34	10	<1	0.05	20	1.16	2680	2	0.02	38	1370	7	0.08	2	15
839156		4.60	10	<1	0.04	10	0.42	590	2	0.03	12	2010	6	0.14	<2	1
839157		7.83	10	<1	0.06	10	0.55	2020	3	0.03	14	3040	10	0.11	2	3
839158		11.65	10	<1	0.05	10	0.52	5900	3	0.02	20	2420	16	0.14	6	9
839159		10.70	10	<1	0.07	10	0.44	5250	2	0.03	10	2100	12	0.17	5	8
839160		7.46	10	<1	0.05	10	0.26	3290	3	0.03	8	1710	12	0.15	2	3
839161		8.35	10	<1	0.05	10	0.29	3220	3	0.03	13	1670	19	0.15	3	5
839162		9.13	10	<1	0.06	10	0.47	3490	2	0.03	27	1700	18	0.13	2	8
839163		8.49	10	<1	0.04	20	0.28	4360	5	0.02	18	2860	20	0.15	3	8
839164		2.46	<10	1	0.03	10	0.07	187	2	0.02	7	1310	2	0.21	<2	1
839165		7.64	10	<1	0.04	10	0.38	1440	3	0.02	13	1430	7	0.10	4	3
839166		4.49	<10	<1	0.05	10	0.82	1380	2	0.02	19	620	7	0.04	<2	3
839167		3.86	<10	<1	0.06	10	0.89	1310	1	0.02	24	670	6	0.03	<2	6
839168		2.91	10	<1	0.03	<10	0.27	206	1	0.02	7	460	2	0.04	<2	1
839169		3.95	10	<1	0.07	10	0.43	525	1	0.02	8	750	8	0.07	<2	2
839170		3.90	10	<1	0.24	10	1.03	1010	1	0.04	36	1200	7	0.02	<2	6
839171		3.93	<10	<1	0.05	10	0.59	1250	1	0.02	16	1130	9	0.06	<2	2
839172		4.28	10	<1	0.07	10	0.85	833	5	0.02	24	620	8	0.03	<2	5
839173		4.83	10	1	0.06	10	0.40	1130	2	0.02	12	1060	7	0.07	<2	2
839174		3.06	<10	<1	0.04	10	0.51	650	1	0.02	10	480	4	0.04	<2	1
839175		3.44	10	1	0.06	10	0.46	1520	3	0.02	15	870	8	0.10	2	3
839176		6.43	10	<1	0.06	10	0.53	2140	3	0.03	18	1500	7	0.09	2	5
839177		8.20	10	<1	0.05	10	0.50	2630	4	0.02	18	1320	8	0.10	5	4
839178		8.65	10	<1	0.06	10	0.44	2340	3	0.02	16	1610	8	0.12	11	4
839179		5.42	10	<1	0.05	10	0.48	1740	2	0.02	15	1280	6	0.10	3	3



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Sr ppm 1	Th ppm 20	Ti % 0.01	Ti ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2
839140		20	<20	0.02	<10	<10	115	<10	63
839141		18	<20	0.02	<10	<10	114	<10	60
839142		24	<20	0.02	<10	<10	53	<10	69
839143		19	<20	0.04	<10	<10	66	<10	82
839144		8	<20	0.01	<10	<10	51	<10	38
839145		21	<20	0.02	<10	<10	68	<10	76
839146		20	<20	0.02	<10	<10	74	<10	51
839147		22	<20	0.02	<10	<10	66	<10	72
839148		14	<20	0.10	<10	<10	121	<10	80
839149		13	<20	0.17	<10	<10	109	<10	65
839150		40	<20	0.11	<10	<10	67	<10	87
839151		15	<20	0.08	<10	<10	136	<10	30
839152		15	<20	0.05	<10	<10	91	<10	40
839153		5	<20	0.08	<10	<10	88	<10	41
839154		6	<20	0.03	<10	<10	72	<10	39
839155		15	<20	0.03	<10	<10	150	<10	73
839156		12	<20	0.02	<10	<10	93	<10	39
839157		18	<20	0.05	<10	<10	141	<10	69
839158		30	<20	0.01	<10	<10	57	<10	74
839159		27	<20	0.06	<10	<10	73	<10	58
839160		26	<20	0.02	<10	<10	50	<10	74
839161		21	<20	0.03	<10	<10	64	<10	70
839162		33	<20	0.02	<10	<10	49	<10	119
839163		5	<20	0.02	<10	<10	54	<10	49
839164		5	<20	0.01	<10	<10	30	<10	18
839165		12	<20	0.03	<10	<10	55	<10	70
839166		29	<20	0.02	<10	<10	56	<10	60
839167		25	<20	0.03	<10	<10	60	<10	76
839168		7	<20	0.02	<10	<10	44	<10	21
839169		10	<20	0.05	<10	<10	60	<10	34
839170		42	<20	0.12	<10	<10	71	<10	95
839171		16	<20	0.03	<10	<10	53	<10	68
839172		29	<20	0.02	<10	<10	59	<10	79
839173		13	<20	0.07	<10	<10	75	<10	59
839174		16	<20	0.04	<10	<10	45	<10	36
839175		49	<20	0.06	<10	<10	56	<10	50
839176		24	<20	0.06	<10	<10	61	<10	88
839177		17	<20	0.04	<10	<10	66	<10	77
839178		13	<20	0.04	<10	<10	63	<10	69
839179		15	<20	0.03	<10	<10	50	<10	69



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Sample Description	Method	WEI-21	Au-ICP21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Au Check	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu
	Units	kg	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR															
839180		0.38	0.181		0.3	0.82	94	<10	150	<0.5	<2	0.88	<0.5	31	8	84
839181		0.42	0.222		0.3	1.45	291	<10	160	0.6	<2	0.51	<0.5	49	10	167
839182		0.40	0.176		0.3	1.12	186	<10	230	0.5	<2	0.79	0.5	41	10	109
839183		0.42	0.247		0.3	1.33	592	<10	170	0.6	<2	0.93	<0.5	58	13	180
839184		0.32	0.139		0.2	1.13	291	<10	200	<0.5	<2	0.67	<0.5	56	9	182
839185		0.42	0.273		0.4	1.28	407	<10	540	0.8	2	0.82	<0.5	50	11	294
839186		0.36	0.191		0.3	1.25	291	<10	240	0.6	<2	1.01	<0.5	52	10	187
839187		0.42	0.269		<0.2	2.59	268	<10	180	1.3	<2	0.34	<0.5	58	17	256
839188		0.34	0.113		0.2	2.01	319	<10	140	0.5	<2	0.62	<0.5	35	21	94
839189		0.42	0.138		<0.2	2.01	238	<10	230	0.8	<2	0.50	<0.5	60	24	139
839190		0.60	0.008		<0.2	2.09	9	<10	140	<0.5	<2	0.64	<0.5	16	35	50
839191		0.42	0.020		<0.2	1.72	47	<10	140	0.5	<2	0.34	<0.5	35	19	76
839192		0.48	0.064		<0.2	1.93	53	<10	270	0.8	<2	0.38	<0.5	34	21	128
839193		0.38	0.005		0.2	1.75	18	<10	210	<0.5	<2	0.25	<0.5	14	27	63
839194		0.46	0.004		0.6	2.10	21	<10	90	<0.5	<2	0.11	<0.5	19	37	80
839195		0.54	0.007		<0.2	1.15	15	<10	110	<0.5	<2	0.08	<0.5	11	17	67
839196		0.42	0.005		<0.2	1.42	12	<10	160	<0.5	<2	0.13	<0.5	4	18	55
839197		0.30	0.006		0.3	0.96	10	<10	100	<0.5	<2	0.06	<0.5	3	12	40
839198		0.22	0.051		<0.2	1.61	5	<10	40	<0.5	<2	0.10	<0.5	4	20	37
839199		0.34	0.009		0.2	1.86	16	<10	150	<0.5	<2	0.16	<0.5	12	26	72
839200		0.26	0.010		0.3	1.98	13	<10	80	<0.5	<2	0.05	<0.5	4	21	36
839201		0.28	0.016		0.4	2.53	13	<10	70	<0.5	<2	0.05	<0.5	5	25	45
839202		0.32	0.012		0.2	1.98	20	<10	80	<0.5	<2	0.05	<0.5	8	22	56
839203		0.34	0.006		0.3	1.29	17	<10	90	<0.5	<2	0.06	<0.5	4	14	34
839204		0.32	0.008		1.3	1.63	14	<10	90	<0.5	<2	0.06	<0.5	5	18	41
839205		0.36	0.013		0.2	1.82	19	<10	100	<0.5	<2	0.05	<0.5	5	19	52
839206		0.42	0.007		<0.2	2.55	22	<10	120	<0.5	<2	0.06	<0.5	9	23	83
839207		0.44	0.009		<0.2	1.77	25	<10	70	<0.5	<2	0.06	<0.5	7	21	65
839208		0.36	0.013		0.5	4.06	21	<10	180	0.6	2	0.15	<0.5	29	26	101
839209		0.28	0.009		<0.2	1.21	15	<10	90	<0.5	<2	0.05	<0.5	5	17	29
839210		0.52	0.002		<0.2	1.96	8	<10	130	<0.5	<2	0.71	<0.5	15	31	49
839211		0.30	0.006		0.2	1.49	15	<10	80	<0.5	<2	0.05	<0.5	4	13	50
839212		0.30	0.009		<0.2	2.53	28	<10	110	<0.5	<2	0.05	<0.5	7	25	73
839213		0.32	0.008		0.2	1.36	27	<10	90	<0.5	<2	0.04	<0.5	4	18	33
839214		0.32	0.009		0.2	1.22	26	<10	80	<0.5	<2	0.05	<0.5	4	13	50
839215		0.36	0.007		0.3	1.55	22	<10	100	<0.5	<2	0.04	<0.5	4	19	80
839216		0.28	0.011		0.3	4.39	19	<10	140	<0.5	<2	0.05	<0.5	9	25	76
839217		0.34	0.052		0.2	1.80	17	<10	200	<0.5	<2	0.08	<0.5	8	17	54
839218		0.32	0.004		<0.2	1.55	20	<10	80	<0.5	<2	0.05	<0.5	4	18	46
839219		0.38	0.012		0.7	2.28	21	<10	170	<0.5	<2	0.06	<0.5	14	20	89



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Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
	Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
839180		5.85	<10	<1	0.05	10	0.39	2390	2	0.04	15	1970	17	0.19	<2	4
839181		9.31	10	<1	0.05	10	0.53	3630	3	0.02	19	1870	9	0.11	7	7
839182		6.82	10	<1	0.10	10	0.54	3070	2	0.05	19	1640	12	0.15	4	5
839183		10.95	10	<1	0.06	10	0.45	5890	3	0.02	21	1910	11	0.17	4	8
839184		8.55	10	<1	0.05	10	0.39	3170	2	0.03	14	1400	7	0.14	2	5
839185		9.95	<10	1	0.07	10	0.52	3640	2	0.02	33	1380	9	0.13	4	16
839186		8.10	10	<1	0.07	10	0.50	3790	2	0.04	19	2000	10	0.18	3	6
839187		8.58	10	<1	0.06	10	0.83	2540	2	0.02	31	1430	15	0.10	<2	7
839188		6.61	10	<1	0.06	10	0.54	2230	2	0.03	21	1550	9	0.15	2	4
839189		8.84	10	<1	0.06	10	0.85	3640	4	0.02	34	1660	15	0.13	3	8
839190		3.91	10	<1	0.25	10	1.07	971	<1	0.03	36	1260	7	0.03	2	6
839191		5.90	<10	<1	0.07	10	1.04	2570	1	0.02	22	1210	10	0.09	<2	4
839192		6.13	<10	1	0.05	10	0.90	3840	1	0.02	25	1830	7	0.10	2	8
839193		3.75	<10	<1	0.07	10	0.82	1055	1	0.02	21	750	4	0.06	<2	3
839194		5.35	10	1	0.07	10	0.74	1785	1	0.01	23	840	6	0.09	<2	3
839195		3.35	<10	<1	0.03	10	0.46	882	1	0.02	12	530	4	0.06	<2	3
839196		4.07	10	<1	0.03	<10	0.29	253	1	0.02	8	490	4	0.06	2	2
839197		2.82	10	<1	0.03	10	0.08	80	1	0.02	6	730	4	0.09	2	1
839198		4.57	10	<1	0.04	10	0.14	340	2	0.02	6	2470	5	0.11	<2	2
839199		4.52	<10	<1	0.05	10	0.72	819	2	0.02	16	790	4	0.06	<2	3
839200		5.30	10	<1	0.03	10	0.31	232	5	0.01	11	530	6	0.08	<2	2
839201		5.89	10	<1	0.03	10	0.36	287	4	0.02	10	540	6	0.07	<2	2
839202		5.09	10	<1	0.05	10	0.47	520	2	0.02	13	740	7	0.08	<2	2
839203		3.74	10	<1	0.05	10	0.18	193	1	0.01	6	470	3	0.04	<2	2
839204		4.93	10	<1	0.05	10	0.33	359	2	0.02	8	820	7	0.07	<2	2
839205		4.97	10	<1	0.05	10	0.31	235	1	0.01	9	650	6	0.06	<2	2
839206		4.33	10	<1	0.06	10	0.31	408	6	0.02	8	670	7	0.07	<2	5
839207		5.22	10	<1	0.04	<10	0.31	544	1	0.01	10	1120	8	0.06	<2	2
839208		4.23	<10	<1	0.04	10	0.50	3110	3	0.01	16	1210	8	0.07	<2	6
839209		5.56	10	<1	0.04	10	0.26	429	2	0.01	12	780	6	0.07	<2	1
839210		3.57	10	<1	0.22	10	1.00	883	1	0.03	33	1170	6	0.02	<2	5
839211		5.24	10	<1	0.03	10	0.15	176	3	0.01	7	670	10	0.05	<2	2
839212		6.79	10	<1	0.06	10	0.42	271	2	0.01	13	610	5	0.05	<2	5
839213		5.96	20	<1	0.03	10	0.16	158	3	0.01	7	560	7	0.03	<2	3
839214		4.37	10	<1	0.05	10	0.13	190	3	0.01	7	440	7	0.03	<2	3
839215		4.69	10	<1	0.04	10	0.23	197	3	0.01	14	690	6	0.04	<2	3
839216		4.13	10	<1	0.06	10	0.48	350	1	0.01	16	740	4	0.07	<2	6
839217		3.48	<10	<1	0.07	10	0.54	940	2	0.01	14	780	5	0.04	<2	1
839218		5.54	10	<1	0.03	10	0.27	329	1	0.01	10	950	5	0.06	<2	1
839219		3.75	<10	<1	0.08	10	0.72	1070	1	0.01	18	900	6	0.06	<2	2



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Sr ppm 1	Th ppm 20	Ti % 0.01	Ti ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2
839180		32	<20	0.06	<10	<10	58	<10	77
839181		20	<20	0.01	<10	<10	72	<10	77
839182		33	<20	0.05	<10	<10	59	<10	114
839183		30	<20	0.02	<10	<10	54	<10	83
839184		29	<20	0.04	<10	<10	65	<10	57
839185		40	<20	0.02	<10	<10	62	<10	77
839186		35	<20	0.03	<10	<10	59	<10	102
839187		19	<20	0.05	<10	<10	103	<10	80
839188		27	<20	0.06	<10	<10	131	<10	50
839189		25	<20	0.02	<10	<10	100	<10	64
839190		43	<20	0.13	<10	<10	77	<10	94
839191		24	<20	0.02	<10	<10	61	<10	59
839192		22	<20	0.01	<10	<10	59	<10	64
839193		14	<20	0.03	<10	<10	64	<10	74
839194		10	<20	0.04	<10	<10	84	<10	58
839195		7	<20	0.02	<10	<10	40	<10	38
839196		10	<20	0.13	<10	<10	75	<10	26
839197		7	<20	0.07	<10	<10	67	<10	12
839198		9	<20	0.12	<10	<10	80	<10	18
839199		15	<20	0.03	<10	<10	64	<10	52
839200		8	<20	0.05	<10	<10	67	<10	28
839201		8	<20	0.05	<10	<10	71	<10	33
839202		8	<20	0.04	<10	<10	62	<10	42
839203		8	<20	0.04	<10	<10	86	<10	20
839204		7	<20	0.14	<10	<10	86	<10	31
839205		8	<20	0.05	<10	<10	83	<10	32
839206		9	<20	0.05	<10	<10	76	<10	28
839207		7	<20	0.03	<10	<10	69	<10	37
839208		9	<20	0.02	<10	<10	46	<10	71
839209		9	<20	0.08	<10	<10	78	<10	25
839210		40	<20	0.11	<10	<10	68	<10	93
839211		8	<20	0.30	<10	<10	123	<10	25
839212		9	<20	0.13	<10	<10	124	<10	38
839213		8	<20	0.22	<10	<10	144	<10	23
839214		10	<20	0.17	<10	<10	130	<10	26
839215		8	<20	0.07	<10	<10	87	<10	32
839216		8	<20	0.04	<10	<10	56	<10	46
839217		11	<20	0.01	<10	<10	49	<10	62
839218		8	<20	0.06	<10	<10	106	<10	29
839219		9	<20	0.02	<10	<10	47	<10	62



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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Au Check ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm
		0.02	0.001	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
839220		0.28	0.005		0.3	2.32	21	<10	130	<0.5	<2	0.04	<0.5	6	22	54
839221		0.30	0.006		0.4	2.30	21	<10	140	<0.5	<2	0.04	<0.5	5	21	52
839222		0.38	0.008		0.3	1.47	21	<10	80	<0.5	<2	0.04	<0.5	7	16	58
839223		0.32	0.010		0.2	1.42	23	<10	80	<0.5	<2	0.07	<0.5	4	21	44
839224		0.26	0.013		0.4	2.16	25	<10	130	<0.5	<2	0.11	<0.5	7	23	54
839225		0.32	0.020		0.4	2.12	27	<10	130	<0.5	<2	0.06	<0.5	9	25	84
839226		0.32	0.008		0.5	1.89	23	<10	100	<0.5	<2	0.05	<0.5	5	18	50
839227		0.34	0.003		0.3	1.60	19	<10	110	<0.5	2	0.04	<0.5	5	17	36
839228		0.30	0.008		0.6	2.14	7	<10	260	1.3	<2	0.37	<0.5	18	15	30
839229		0.28	0.004		0.3	0.81	11	<10	50	<0.5	<2	0.04	<0.5	2	9	15
839230		0.72	0.001		<0.2	1.92	7	<10	130	<0.5	<2	0.61	<0.5	14	31	45
839231		0.34	0.004		0.7	1.33	16	<10	100	<0.5	<2	0.16	<0.5	4	15	31
839232		0.32	0.006		<0.2	1.15	13	<10	70	<0.5	2	0.04	<0.5	3	11	16
839233		0.34	0.007		0.3	1.12	14	<10	60	<0.5	<2	0.08	<0.5	4	17	37
839234		0.30	0.002		<0.2	1.71	14	<10	40	<0.5	<2	0.03	<0.5	2	13	42
839235		0.52	0.051		0.3	2.62	17	<10	210	0.6	<2	0.19	<0.5	16	25	64
839236		0.30	0.018		0.2	1.16	6	<10	30	<0.5	2	0.09	<0.5	3	14	41
839237		0.36	0.006		0.2	1.60	13	<10	100	<0.5	<2	0.06	<0.5	3	14	29
839238		0.26	0.008		0.3	1.60	10	<10	110	<0.5	<2	0.05	<0.5	6	32	41
839239		0.28	0.008		0.2	1.81	8	<10	60	<0.5	<2	0.04	<0.5	3	19	25
839240		0.36	0.006		0.2	2.12	15	<10	290	<0.5	<2	0.16	<0.5	7	20	50
839241		0.30	0.004		0.2	2.12	14	<10	280	<0.5	<2	0.15	<0.5	6	20	48
839242		0.40	0.005		0.3	2.98	11	<10	200	0.7	<2	0.29	<0.5	12	14	60
839243		0.38	0.006		<0.2	1.75	16	<10	100	<0.5	<2	0.18	<0.5	6	19	49
839244		0.40	0.005		0.2	1.47	14	<10	50	<0.5	<2	0.05	<0.5	3	26	41
839245		0.34	0.007		0.5	1.85	12	<10	90	<0.5	<2	0.14	<0.5	5	24	55
839246		0.30	0.010		0.2	1.91	19	<10	100	<0.5	<2	0.05	<0.5	6	33	70
839247		0.28	0.004		<0.2	1.08	13	<10	110	<0.5	<2	0.18	<0.5	5	22	50
839248		0.38	0.002		0.2	1.77	12	<10	60	<0.5	2	0.09	<0.5	5	18	45
839249		0.36	0.004		0.2	2.05	12	<10	90	<0.5	2	0.08	<0.5	5	19	34
839250		0.76	0.003		<0.2	1.93	8	<10	120	<0.5	<2	0.58	<0.5	13	32	45
839251		0.24	0.010		0.6	1.10	11	<10	50	<0.5	<2	0.10	<0.5	3	13	101
839252		0.26	0.002		0.4	1.20	6	<10	60	<0.5	2	0.10	<0.5	4	14	57
839253		0.28	0.006		0.2	1.28	16	<10	50	<0.5	<2	0.05	<0.5	4	15	30
839254		0.30	0.002		0.3	1.55	15	<10	60	<0.5	3	0.05	<0.5	4	19	33
839255		0.48	0.004		<0.2	2.04	24	<10	90	<0.5	2	0.04	<0.5	6	20	32
839256		0.26	0.005		<0.2	0.81	4	<10	40	<0.5	<2	0.07	<0.5	2	17	9
839257		0.38	0.003		0.3	1.67	19	<10	170	<0.5	2	0.10	<0.5	11	17	45
839258		0.26	0.005		0.2	1.26	13	<10	80	<0.5	2	0.03	<0.5	2	10	29
839259		0.32	0.002		0.2	1.52	15	<10	100	<0.5	3	0.09	<0.5	5	14	26



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm
839220		7.53	10	<1	0.05	10	0.38	256	2	0.01	12	530	7	0.04	<2	4
839221		7.59	10	<1	0.04	10	0.45	267	2	0.01	11	890	8	0.04	<2	4
839222		4.10	<10	<1	0.05	10	0.44	404	1	0.01	13	730	5	0.05	<2	1
839223		5.97	10	<1	0.05	10	0.22	431	3	0.01	9	3750	6	0.05	<2	2
839224		7.57	10	<1	0.06	10	0.53	421	1	0.01	13	960	6	0.04	<2	4
839225		6.06	10	<1	0.06	10	0.62	427	1	0.01	17	570	4	0.04	<2	5
839226		4.71	10	<1	0.05	10	0.33	231	2	0.01	10	620	5	0.04	<2	3
839227		5.32	20	<1	0.05	10	0.37	339	3	0.01	10	770	9	0.04	<2	3
839228		3.79	10	<1	0.05	20	0.28	3090	3	0.02	10	1000	9	0.11	<2	2
839229		2.26	10	<1	0.03	10	0.06	76	2	0.01	3	670	6	0.04	<2	1
839230		3.60	10	<1	0.22	10	1.00	902	1	0.03	33	1180	6	0.02	<2	5
839231		3.85	10	<1	0.08	10	0.27	320	3	0.02	9	710	8	0.05	<2	2
839232		4.17	20	<1	0.04	10	0.13	162	2	0.01	6	680	9	0.04	<2	2
839233		4.35	10	<1	0.04	10	0.20	314	2	0.01	10	1090	6	0.08	<2	1
839234		6.61	40	<1	0.04	30	0.04	322	5	0.02	6	1530	14	0.08	<2	2
839235		4.03	10	<1	0.07	10	0.75	1955	2	0.02	17	900	6	0.06	<2	4
839236		3.76	10	<1	0.02	10	0.09	72	9	0.01	5	900	4	0.09	<2	1
839237		4.43	10	<1	0.03	10	0.19	150	2	0.01	5	430	6	0.03	<2	3
839238		4.06	10	<1	0.03	10	0.29	242	2	0.01	16	820	5	0.11	<2	1
839239		5.15	10	<1	0.03	10	0.18	134	2	0.01	8	700	6	0.08	<2	2
839240		4.04	<10	<1	0.07	10	0.56	399	1	0.01	14	640	5	0.05	<2	2
839241		3.87	<10	<1	0.06	10	0.55	392	1	0.01	14	610	3	0.04	<2	2
839242		3.08	10	<1	0.04	10	0.29	1370	4	0.01	10	990	4	0.09	<2	2
839243		5.27	<10	<1	0.05	10	0.42	441	1	0.01	10	1570	5	0.08	<2	1
839244		6.73	10	<1	0.04	10	0.28	254	2	0.01	7	890	7	0.08	<2	2
839245		3.99	10	<1	0.04	10	0.51	247	1	0.01	12	620	6	0.07	<2	2
839246		5.07	10	<1	0.04	10	0.50	232	1	0.01	16	620	6	0.07	<2	3
839247		3.43	10	1	0.05	10	0.30	343	1	0.01	10	600	3	0.07	<2	1
839248		5.41	10	<1	0.03	10	0.32	743	3	0.01	7	820	7	0.07	<2	2
839249		6.77	10	1	0.02	<10	0.39	344	2	0.01	9	530	7	0.04	2	2
839250		3.46	10	<1	0.21	10	0.98	845	<1	0.02	34	1060	6	<0.01	<2	5
839251		3.61	10	<1	0.03	10	0.11	187	3	0.01	11	730	7	0.07	<2	1
839252		4.14	10	1	0.03	10	0.21	193	4	0.01	13	770	5	0.09	<2	1
839253		4.16	10	1	0.05	10	0.29	214	2	0.01	11	970	6	0.06	<2	2
839254		7.00	20	1	0.04	10	0.25	385	4	0.01	10	1100	11	0.09	<2	2
839255		7.21	10	1	0.04	10	0.48	403	1	0.01	10	1480	8	0.03	<2	3
839256		1.35	10	1	0.02	<10	0.08	60	3	0.01	4	260	7	0.02	<2	2
839257		5.51	10	1	0.06	10	0.43	1235	3	0.01	10	880	8	0.03	<2	3
839258		3.81	10	1	0.03	10	0.10	112	3	0.01	6	800	7	0.02	<2	2
839259		4.69	10	<1	0.06	10	0.25	226	12	0.01	7	660	8	0.05	<2	1



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Sr ppm 1	Th ppm 20	Ti % 0.01	Ti ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2
839220		9	<20	0.09	<10	<10	109	<10	38
839221		9	<20	0.10	<10	<10	112	<10	39
839222		8	<20	0.02	<10	<10	52	<10	43
839223		10	<20	0.11	<10	<10	99	<10	27
839224		13	<20	0.11	<10	<10	130	<10	39
839225		10	<20	0.13	<10	<10	96	<10	46
839226		9	<20	0.06	<10	<10	102	<10	33
839227		8	<20	0.10	<10	<10	89	<10	39
839228		20	<20	0.15	<10	<10	56	<10	40
839229		7	<20	0.11	<10	<10	77	<10	12
839230		40	<20	0.12	<10	<10	70	<10	89
839231		13	<20	0.08	<10	<10	77	<10	34
839232		7	<20	0.11	<10	<10	130	<10	20
839233		11	<20	0.09	<10	<10	92	<10	24
839234		5	<20	0.30	<10	<10	95	<10	46
839235		13	<20	0.03	<10	<10	63	<10	69
839236		14	<20	0.08	<10	<10	98	<10	11
839237		9	<20	0.11	<10	<10	119	<10	20
839238		9	<20	0.03	<10	<10	65	<10	46
839239		7	<20	0.10	<10	<10	114	<10	21
839240		15	<20	0.02	<10	<10	44	<10	51
839241		15	<20	0.02	<10	<10	42	<10	50
839242		17	<20	0.04	<10	<10	48	<10	45
839243		11	<20	0.02	<10	<10	58	<10	34
839244		8	<20	0.07	<10	<10	88	<10	25
839245		12	<20	0.05	<10	<10	78	<10	33
839246		8	<20	0.05	<10	<10	92	<10	35
839247		9	<20	0.04	<10	<10	75	<10	31
839248		9	<20	0.07	<10	<10	73	<10	28
839249		10	<20	0.04	<10	<10	72	<10	27
839250		37	<20	0.11	<10	<10	65	<10	85
839251		8	<20	0.11	<10	<10	110	<10	18
839252		13	<20	0.07	<10	<10	75	<10	20
839253		7	<20	0.07	<10	<10	93	<10	26
839254		7	<20	0.20	<10	<10	97	<10	24
839255		8	<20	0.06	<10	<10	90	<10	37
839256		10	<20	0.24	<10	<10	77	<10	10
839257		12	<20	0.17	<10	<10	95	<10	51
839258		6	<20	0.11	<10	<10	113	<10	17
839259		12	<20	0.06	<10	<10	74	<10	34



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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Au Check ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm
		0.02	0.001	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
839260		0.30	0.006		0.2	1.03	20	<10	70	<0.5	2	0.03	<0.5	4	13	31
839261		0.34	0.015		0.2	1.15	22	<10	70	<0.5	<2	0.03	<0.5	5	14	35
839262		0.36	0.009		<0.2	2.47	23	<10	160	<0.5	<2	0.04	<0.5	8	27	68
839263		0.34	0.012		0.2	2.95	24	<10	150	<0.5	<2	0.04	<0.5	9	26	76
839264		0.44	0.015		0.2	3.30	25	<10	170	0.5	<2	0.03	<0.5	11	26	102
839265		0.44	0.006		<0.2	1.80	11	<10	200	<0.5	2	0.08	<0.5	8	18	41
839266		0.38	0.002		0.3	3.02	18	<10	260	0.8	3	0.69	<0.5	7	18	26
839267		0.38	0.005		<0.2	3.17	13	<10	170	<0.5	<2	0.05	<0.5	6	21	55
839268		0.34	0.003		0.5	1.58	18	<10	210	<0.5	3	0.20	<0.5	10	17	47
839269		0.36	0.021		0.3	2.94	18	<10	230	<0.5	<2	0.06	<0.5	6	23	50
839270		0.56	<0.001		<0.2	1.92	8	<10	120	<0.5	<2	0.54	<0.5	13	31	41
839271		0.28	0.004		0.3	1.53	18	<10	110	<0.5	<2	0.12	<0.5	7	16	41
839272		0.28	0.001		0.8	1.42	16	<10	190	<0.5	<2	0.37	<0.5	7	16	34
839273		0.38	0.004		<0.2	1.88	13	<10	150	<0.5	<2	0.07	<0.5	8	18	50
839274		0.30	0.005		<0.2	1.42	11	<10	110	<0.5	<2	0.13	<0.5	3	11	17
839275		0.34	0.015		0.2	2.13	10	<10	90	<0.5	2	0.03	<0.5	3	18	34
839276		0.44	0.005		<0.2	2.36	19	<10	210	<0.5	<2	0.05	<0.5	10	27	81
839277		0.32	0.001		0.4	1.82	13	<10	50	<0.5	<2	0.05	<0.5	6	15	40
839278		0.26	0.001		0.2	2.88	5	<10	30	<0.5	<2	0.10	<0.5	5	16	76
839279		0.30	<0.001		0.2	1.36	7	<10	60	<0.5	<2	0.10	<0.5	3	16	52
839280		0.24	<0.001		0.2	1.97	9	<10	140	<0.5	<2	0.35	<0.5	6	17	32
839281		0.28	0.004		0.3	2.50	11	<10	120	<0.5	2	0.43	<0.5	7	27	39
839282		0.22	0.008		<0.2	1.21	6	<10	60	<0.5	3	0.11	<0.5	4	15	30
839283		0.22	0.002		<0.2	0.66	13	<10	30	<0.5	<2	0.07	<0.5	6	9	38
839284		0.32	0.005		0.3	1.85	15	<10	60	<0.5	<2	0.05	<0.5	5	30	57
839285		0.48	0.004		0.3	2.90	27	<10	100	0.5	2	0.15	<0.5	14	31	125
839286		0.30	0.003		0.2	2.02	15	<10	80	<0.5	2	0.05	<0.5	5	27	40
839287		0.36	0.014		0.3	1.83	23	<10	60	<0.5	<2	0.07	<0.5	6	28	60
839288		0.38	0.006		<0.2	1.73	25	<10	100	<0.5	<2	0.12	<0.5	7	31	47
839289		0.50	0.008		<0.2	2.08	24	<10	70	<0.5	<2	0.12	<0.5	24	32	109
839290		0.68	<0.001		<0.2	1.57	5	<10	110	<0.5	<2	0.42	<0.5	10	28	33
839291		0.40	0.016		0.3	2.05	19	<10	130	<0.5	<2	0.04	<0.5	5	18	34
839292		0.36	0.005		0.3	1.32	19	<10	170	<0.5	<2	0.09	<0.5	7	14	43
839293		0.32	0.006		0.2	2.40	18	<10	130	<0.5	<2	0.04	<0.5	8	19	55
839294		0.44	0.004		0.2	2.04	18	<10	120	<0.5	<2	0.04	<0.5	7	19	42
839295		0.40	0.002		0.4	2.37	12	<10	200	0.7	<2	0.11	<0.5	15	19	43
839296		0.34	0.006		<0.2	1.26	6	<10	110	<0.5	<2	0.10	<0.5	6	14	37
839297		0.40	0.003		<0.2	3.45	18	<10	140	1.4	<2	0.16	<0.5	19	15	34
839298		0.44	0.006		0.2	1.67	15	<10	90	<0.5	<2	0.13	<0.5	4	16	47
839299		0.38	0.003		0.2	1.89	13	<10	80	<0.5	2	0.06	<0.5	3	15	24



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CERTIFICATE OF ANALYSIS	VA17154244
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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm
839260		3.78	10	<1	0.04	10	0.18	231	3	0.01	9	620	5	0.01	<2	2
839261		4.45	10	1	0.04	10	0.22	245	3	0.01	8	690	6	0.01	<2	3
839262		5.01	10	1	0.08	10	0.66	298	1	0.01	20	360	5	0.01	<2	6
839263		4.82	<10	<1	0.06	10	0.66	371	1	0.01	19	410	7	0.02	<2	5
839264		4.74	10	1	0.08	10	0.61	409	1	0.01	21	530	6	0.02	3	6
839265		2.46	<10	<1	0.09	10	0.70	407	1	0.01	14	650	4	0.02	<2	1
839266		8.48	30	1	0.05	20	0.23	2200	20	0.03	5	600	15	0.06	<2	2
839267		4.86	10	1	0.05	10	0.48	333	2	0.01	9	410	7	0.02	<2	4
839268		3.84	10	<1	0.10	10	0.37	1420	2	0.01	12	950	6	0.03	2	2
839269		7.07	10	1	0.04	10	0.45	372	2	0.01	14	600	10	0.05	<2	2
839270		3.39	10	<1	0.20	10	0.98	808	<1	0.03	34	1020	6	<0.01	<2	5
839271		4.40	10	<1	0.06	10	0.35	417	2	0.01	10	690	7	0.05	<2	2
839272		4.52	10	<1	0.09	10	0.34	684	1	0.01	10	980	7	0.07	<2	1
839273		2.77	<10	<1	0.09	10	0.59	604	1	0.01	12	620	3	0.03	<2	2
839274		3.52	10	<1	0.04	10	0.14	150	24	0.01	4	400	8	0.04	<2	2
839275		4.39	10	1	0.03	10	0.19	127	3	0.01	6	450	12	0.04	<2	3
839276		4.43	10	1	0.10	10	0.85	618	2	0.01	20	360	4	0.02	2	5
839277		5.55	10	1	0.04	10	0.21	444	5	0.01	9	860	7	0.09	<2	2
839278		2.41	10	1	0.03	10	0.05	565	4	0.01	4	1870	5	0.10	<2	2
839279		3.69	10	<1	0.03	10	0.12	181	6	0.01	12	530	5	0.05	<2	1
839280		4.59	10	1	0.06	10	0.59	346	4	0.01	11	580	7	0.06	<2	2
839281		5.44	10	<1	0.04	10	0.60	324	5	0.02	11	670	8	0.08	<2	2
839282		4.31	10	<1	0.03	10	0.11	228	6	0.01	6	280	14	0.04	<2	2
839283		2.81	10	<1	0.07	10	0.22	249	7	<0.01	7	630	5	0.07	<2	1
839284		5.90	10	<1	0.03	10	0.40	214	5	<0.01	11	510	8	0.06	<2	3
839285		5.65	10	<1	0.06	10	0.39	1835	13	<0.01	13	2480	8	0.11	<2	3
839286		5.02	10	<1	0.04	10	0.43	272	2	<0.01	10	770	6	0.06	<2	2
839287		5.73	10	<1	0.04	10	0.41	351	2	<0.01	11	930	9	0.06	<2	2
839288		8.59	10	<1	0.04	<10	0.42	519	2	<0.01	11	3130	11	0.07	<2	2
839289		4.66	<10	<1	0.05	10	0.71	2020	2	<0.01	23	1350	7	0.07	<2	4
839290		2.86	<10	<1	0.13	<10	0.83	605	<1	0.01	33	760	6	0.02	<2	4
839291		5.14	10	<1	0.05	10	0.33	221	2	<0.01	8	320	6	0.03	<2	4
839292		4.05	10	<1	0.07	10	0.43	420	1	<0.01	11	550	7	0.05	<2	2
839293		4.35	10	<1	0.06	10	0.63	399	1	<0.01	14	470	6	0.04	2	3
839294		5.90	10	<1	0.06	10	0.56	429	3	<0.01	12	670	9	0.07	<2	2
839295		4.44	10	<1	0.08	20	0.43	1310	3	0.01	13	860	8	0.13	<2	3
839296		3.67	10	<1	0.05	20	0.16	268	26	0.01	6	500	11	0.11	<2	2
839297		4.10	10	<1	0.05	20	0.24	1290	13	0.02	8	500	9	0.10	2	2
839298		4.82	20	<1	0.06	10	0.25	225	13	0.01	6	250	11	0.05	<2	3
839299		5.93	10	<1	0.05	10	0.28	398	6	0.01	5	520	11	0.75	<2	2



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CERTIFICATE OF ANALYSIS VA17154244

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Sr ppm 1	Th ppm 20	Ti % 0.01	Ti ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2
839260		8	<20	0.17	<10	<10	126	<10	28
839261		8	<20	0.18	<10	<10	127	<10	29
839262		9	<20	0.03	<10	<10	79	<10	53
839263		8	<20	0.02	<10	<10	59	<10	56
839264		8	<20	0.02	<10	<10	69	<10	60
839265		11	<20	0.01	<10	<10	42	<10	54
839266		54	<20	0.12	<10	<10	51	<10	66
839267		8	<20	0.03	<10	<10	62	<10	38
839268		15	<20	0.05	<10	<10	69	<10	54
839269		10	<20	0.04	<10	<10	59	<10	42
839270		34	<20	0.10	<10	<10	62	<10	83
839271		12	<20	0.04	<10	<10	66	<10	36
839272		19	<20	0.05	<10	<10	67	<10	44
839273		11	<20	0.02	<10	<10	43	<10	46
839274		13	<20	0.14	<10	10	76	<10	15
839275		6	<20	0.27	<10	<10	99	<10	25
839276		10	<20	0.03	<10	<10	64	<10	61
839277		7	<20	0.13	<10	<10	95	<10	34
839278		8	<20	0.14	<10	<10	46	<10	13
839279		10	<20	0.05	<10	<10	86	<10	24
839280		21	<20	0.04	<10	<10	65	<10	45
839281		24	<20	0.08	<10	<10	79	<10	42
839282		11	<20	0.44	<10	<10	115	<10	31
839283		7	<20	0.13	<10	<10	89	<10	27
839284		7	<20	0.13	<10	<10	133	<10	30
839285		12	<20	0.02	<10	<10	77	<10	85
839286		7	<20	0.05	<10	<10	101	<10	33
839287		8	<20	0.09	<10	<10	103	<10	37
839288		12	<20	0.06	<10	<10	103	<10	41
839289		10	<20	0.04	<10	<10	70	<10	63
839290		27	<20	0.07	<10	<10	48	<10	67
839291		8	<20	0.09	<10	<10	83	<10	34
839292		10	<20	0.04	<10	<10	66	<10	47
839293		8	<20	0.02	<10	<10	58	<10	50
839294		7	<20	0.10	<10	<10	74	<10	50
839295		11	<20	0.09	<10	<10	68	<10	51
839296		13	<20	0.24	<10	<10	77	<10	37
839297		11	<20	0.13	<10	10	39	<10	63
839298		11	<20	0.25	<10	<10	122	<10	34
839299		8	<20	0.11	<10	<10	84	<10	22



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Sample Description	Method	Analyte	Units	LOR	WEI-21 Recvd Wt.	Au-ICP21 Au	Au-ICP21 Au Check	ME-ICP41 Ag	ME-ICP41 Al	ME-ICP41 As	ME-ICP41 B	ME-ICP41 Ba	ME-ICP41 Be	ME-ICP41 Bi	ME-ICP41 Ca	ME-ICP41 Cd	ME-ICP41 Co	ME-ICP41 Cr	ME-ICP41 Cu
					kg	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
839300					0.02	0.001	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
					0.34	0.006		0.2	1.53	41	<10	90	<0.5	<2	0.04	<0.5	5	17	34

***** See Appendix Page for comments regarding this certificate *****



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CERTIFICATE OF ANALYSIS VA17154244

Sample Description	Method Analyte Units LOR	ME-ICP41 Fe %	ME-ICP41 Ga ppm	ME-ICP41 Hg ppm	ME-ICP41 K %	ME-ICP41 La ppm	ME-ICP41 Mg %	ME-ICP41 Mn ppm	ME-ICP41 Mo ppm	ME-ICP41 Na %	ME-ICP41 Ni ppm	ME-ICP41 P ppm	ME-ICP41 Pb ppm	ME-ICP41 S %	ME-ICP41 Sb ppm	ME-ICP41 Sc ppm
839300		0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
		5.77	20	<1	0.05	10	0.26	249	3	<0.01	6	550	12	0.77	<2	3



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CERTIFICATE OF ANALYSIS VA17154244

Sample Description	Method Analyte Units LOR	ME-ICP41 Sr ppm 1	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
839300		7	<20	0.15	<10	<10	100	<10	36



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CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: NSS is non-sufficient sample.
ALL METHODS

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-ICP21 LOG-22 ME-ICP41 SCR-41
WEI-21



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 19-JAN-2018
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CERTIFICATE VA17154249

Project: Forrest Kerr Project

This report is for 200 Soil samples submitted to our lab in Terrace, BC, Canada on 14-JUL-2017.

The following have access to data associated with this certificate:

CORNELL MCDOWELL		
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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-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: **ABEN RESOURCES LTD.**
ATTN: ALS GEOCHEMISTRY

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 VA17154249

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
LOR		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
839301		0.38	0.003	0.3	1.93	35	<10	100	<0.5	<2	0.05	<0.5	5	20	42	6.77
839302		0.36	0.022	0.3	2.43	21	<10	200	<0.5	<2	0.09	<0.5	10	25	65	5.46
839303		0.36	0.007	0.5	1.56	21	<10	140	<0.5	<2	0.25	<0.5	5	18	41	4.98
839304		0.34	0.003	<0.2	1.91	20	<10	120	<0.5	<2	0.05	<0.5	5	22	43	5.80
839305		0.34	0.005	<0.2	1.23	13	<10	120	<0.5	<2	0.05	<0.5	4	12	42	2.38
839306		0.32	0.002	0.3	1.28	5	<10	170	<0.5	<2	0.13	<0.5	10	9	39	2.90
839307		0.28	0.003	<0.2	1.50	9	<10	120	<0.5	<2	0.07	<0.5	3	15	22	5.31
839308		0.42	0.005	<0.2	2.72	4	<10	80	<0.5	<2	0.12	<0.5	22	17	111	4.58
839309		0.34	<0.001	0.2	1.92	11	<10	90	<0.5	<2	0.06	<0.5	7	16	27	4.30
839310		0.56	0.003	<0.2	2.25	8	<10	150	0.5	<2	0.68	<0.5	17	36	54	3.72
839311		0.40	0.024	<0.2	0.93	14	<10	50	<0.5	<2	0.06	<0.5	5	10	30	3.20
839312		0.34	0.005	0.2	1.55	4	<10	230	0.5	<2	0.33	<0.5	6	13	88	2.27
839313		0.42	0.017	<0.2	1.48	16	<10	50	<0.5	<2	0.09	<0.5	4	9	31	4.35
839314		0.34	0.004	<0.2	1.11	12	<10	70	<0.5	3	0.03	<0.5	4	12	20	3.94
839315		0.44	0.005	0.3	1.37	7	<10	80	<0.5	3	0.15	<0.5	5	14	52	4.37
839316		0.36	<0.001	0.3	1.41	7	<10	90	<0.5	<2	0.16	<0.5	3	15	24	5.64
839317		0.26	0.004	0.4	3.31	4	<10	170	0.9	2	0.39	<0.5	47	17	70	6.18
839318		0.32	<0.001	<0.2	1.20	5	<10	30	<0.5	<2	0.22	<0.5	7	12	22	5.67
839319		0.32	0.019	0.2	0.88	8	<10	30	<0.5	<2	0.08	<0.5	4	8	68	3.81
839320		0.30	0.004	0.4	1.10	12	<10	40	<0.5	2	0.08	<0.5	6	12	31	3.38
839321		0.28	0.002	0.4	1.15	12	<10	40	<0.5	<2	0.08	<0.5	5	13	31	3.63
839322		0.36	0.010	<0.2	1.15	19	<10	70	<0.5	<2	0.13	<0.5	5	19	53	4.69
839323		0.34	0.010	<0.2	1.28	15	<10	30	<0.5	<2	0.05	<0.5	6	12	46	5.78
839324		0.42	0.003	0.3	1.84	16	<10	60	<0.5	<2	0.07	<0.5	8	27	45	5.14
839325		0.30	0.003	0.3	1.10	17	<10	40	<0.5	<2	0.09	<0.5	9	32	43	6.02
839326		0.26	0.005	0.3	1.34	16	<10	90	<0.5	<2	0.14	<0.5	6	28	54	3.90
839327		0.26	0.006	0.2	1.62	17	<10	110	<0.5	<2	0.09	<0.5	6	25	41	5.63
839328		0.22	0.005	0.3	2.67	25	<10	60	<0.5	2	0.07	<0.5	8	38	51	6.86
839329		0.22	<0.001	0.3	2.37	21	<10	160	<0.5	<2	0.08	<0.5	8	41	64	7.65
839330		0.66	<0.001	<0.2	2.03	9	<10	130	<0.5	2	0.63	<0.5	15	32	52	3.71
839331		0.48	0.023	0.2	2.27	36	<10	230	0.5	<2	0.09	<0.5	19	25	121	4.39
839332		0.32	0.003	0.2	2.53	19	<10	100	<0.5	<2	0.08	<0.5	6	25	82	4.79
839333		0.42	0.006	<0.2	1.79	18	<10	110	<0.5	<2	0.06	<0.5	7	24	49	4.31
839334		0.44	0.010	<0.2	1.51	19	<10	170	<0.5	<2	0.18	<0.5	13	18	58	3.42
839335		0.28	0.005	0.4	4.49	7	<10	110	0.7	<2	0.07	<0.5	18	16	112	2.26
839336		0.28	0.004	<0.2	1.93	14	<10	110	<0.5	<2	0.10	<0.5	6	19	25	3.37
839337		0.24	0.004	0.2	2.20	12	<10	150	<0.5	<2	0.11	<0.5	8	16	24	4.18
839338		0.34	<0.001	<0.2	1.45	4	<10	120	<0.5	<2	0.14	<0.5	3	22	23	5.19
839339		0.32	0.052	0.2	2.46	10	<10	130	<0.5	<2	0.09	<0.5	15	20	67	3.99
839340		0.32	<0.001	0.5	2.68	15	<10	80	<0.5	<2	0.05	<0.5	4	15	53	4.91



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
839301		20	<1	0.07	20	0.35	329	4	0.01	8	600	14	0.03	<2	4	9
839302		10	<1	0.06	10	0.59	473	2	0.01	17	550	8	0.03	<2	4	11
839303		10	<1	0.06	10	0.35	242	2	0.01	11	690	6	0.05	<2	1	21
839304		10	<1	0.04	10	0.32	206	1	0.01	12	450	5	0.04	<2	3	7
839305		10	<1	0.04	10	0.22	214	3	0.01	7	310	3	0.03	<2	2	8
839306		10	<1	0.04	10	0.25	210	2	0.01	6	620	8	0.08	<2	2	23
839307		20	<1	0.06	10	0.14	188	2	0.01	7	460	6	0.06	<2	2	11
839308		10	<1	0.05	10	0.80	2680	1	0.01	8	1430	2	0.07	<2	3	16
839309		10	<1	0.04	10	0.28	247	4	0.01	7	670	4	0.06	<2	2	9
839310		10	<1	0.27	10	1.10	1090	1	0.03	38	1250	10	0.02	<2	7	46
839311		10	<1	0.04	10	0.11	349	4	0.01	9	520	5	0.06	<2	2	7
839312		10	<1	0.04	10	0.24	187	4	0.01	6	1120	6	0.13	<2	1	16
839313		10	<1	0.04	10	0.09	258	8	0.01	5	450	6	0.06	2	1	7
839314		10	<1	0.04	10	0.10	131	7	0.01	7	480	7	0.05	<2	2	6
839315		10	1	0.03	10	0.24	214	6	0.01	9	720	8	0.08	<2	3	24
839316		30	<1	0.04	20	0.09	288	12	0.01	4	560	9	0.05	<2	2	16
839317		10	<1	0.02	20	0.08	7320	18	0.01	5	1470	8	0.15	2	3	20
839318		10	<1	0.03	10	0.23	350	5	0.01	5	5740	5	0.08	<2	3	33
839319		10	<1	0.08	10	0.09	217	3	0.01	5	4170	5	0.10	<2	1	8
839320		10	<1	0.05	10	0.17	326	8	0.01	9	1310	5	0.12	2	1	7
839321		10	<1	0.06	10	0.17	336	9	0.01	8	1170	6	0.11	<2	2	8
839322		10	<1	0.06	10	0.29	231	3	0.01	9	950	6	0.10	<2	1	9
839323		10	<1	0.06	10	0.29	279	12	0.01	8	1190	3	0.07	<2	2	8
839324		10	<1	0.05	10	0.52	704	5	0.01	16	870	8	0.09	<2	2	7
839325		10	<1	0.05	10	0.29	1050	12	0.01	14	2560	8	0.09	<2	1	8
839326		10	<1	0.05	10	0.39	282	2	0.01	13	870	3	0.09	<2	2	14
839327		10	<1	0.04	10	0.37	280	3	0.01	13	800	5	0.06	<2	2	12
839328		10	<1	0.04	10	0.53	564	2	0.01	15	620	5	0.05	<2	3	10
839329		10	<1	0.06	10	0.59	375	3	0.01	21	970	8	0.06	<2	4	11
839330		10	<1	0.23	10	1.02	944	<1	0.02	34	1200	7	0.02	<2	6	41
839331		10	<1	0.07	10	0.70	1505	4	0.01	28	480	11	0.03	3	8	10
839332		10	<1	0.03	10	0.41	331	1	0.01	12	710	4	0.06	<2	3	9
839333		10	<1	0.04	10	0.45	607	1	0.01	11	710	5	0.05	<2	2	8
839334		<10	<1	0.07	10	0.67	1000	1	0.01	15	540	4	0.03	<2	3	12
839335		<10	<1	0.06	10	0.48	1480	2	0.01	10	1280	<2	0.12	<2	3	8
839336		10	1	0.06	10	0.55	297	1	0.01	10	530	6	0.04	<2	2	10
839337		10	<1	0.08	10	0.37	1205	1	0.01	9	1090	7	0.10	<2	1	9
839338		10	<1	0.04	10	0.16	337	1	0.01	8	760	4	0.09	<2	1	12
839339		10	<1	0.08	10	0.72	1375	1	0.01	12	770	5	0.09	<2	2	10
839340		20	<1	0.05	20	0.33	284	4	0.01	7	960	8	0.10	<2	2	7



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
839301		<20	0.20	<10	<10	107	<10	49
839302		<20	0.03	<10	<10	62	<10	58
839303		<20	0.03	<10	<10	71	<10	38
839304		<20	0.05	<10	<10	105	<10	27
839305		<20	0.04	<10	<10	71	<10	23
839306		<20	0.11	<10	<10	89	<10	23
839307		<20	0.15	<10	<10	77	<10	31
839308		<20	0.03	<10	<10	101	<10	74
839309		<20	0.11	<10	<10	91	<10	29
839310		<20	0.13	<10	<10	73	<10	103
839311		<20	0.14	<10	<10	104	<10	27
839312		<20	0.04	<10	<10	46	<10	35
839313		<20	0.13	<10	<10	92	<10	35
839314		<20	0.16	<10	<10	132	<10	20
839315		<20	0.30	<10	<10	115	<10	28
839316		<20	0.32	<10	<10	148	<10	40
839317		<20	0.25	<10	<10	94	<10	38
839318		<20	0.15	<10	<10	117	<10	24
839319		<20	0.11	<10	<10	75	<10	18
839320		<20	0.08	<10	<10	91	<10	27
839321		<20	0.11	<10	<10	101	<10	29
839322		<20	0.03	<10	<10	68	<10	34
839323		<20	0.09	<10	<10	142	<10	24
839324		<20	0.06	<10	<10	60	<10	65
839325		<20	0.07	<10	<10	100	<10	37
839326		<20	0.05	<10	<10	82	<10	34
839327		<20	0.10	<10	<10	109	<10	38
839328		<20	0.07	<10	<10	138	<10	44
839329		<20	0.12	<10	<10	148	<10	49
839330		<20	0.12	<10	<10	72	<10	92
839331		<20	0.03	<10	<10	69	<10	101
839332		<20	0.04	<10	<10	78	<10	38
839333		<20	0.04	<10	<10	84	<10	41
839334		<20	0.02	<10	<10	44	<10	75
839335		<20	0.03	<10	<10	37	<10	52
839336		<20	0.03	<10	<10	59	<10	45
839337		<20	0.09	<10	<10	65	<10	66
839338		<20	0.10	<10	<10	95	<10	21
839339		<20	0.05	<10	<10	60	<10	61
839340		<20	0.08	<10	<10	49	<10	43



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	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
LOR		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
839341		0.30	0.004	0.6	2.38	14	<10	90	<0.5	<2	0.05	<0.5	4	16	46	5.01
839342		0.34	0.001	<0.2	1.52	5	<10	110	<0.5	<2	0.10	<0.5	3	14	19	4.66
839343		0.40	0.001	0.2	1.90	19	<10	110	<0.5	<2	0.07	<0.5	6	17	28	6.79
839344		0.36	<0.001	0.2	1.27	11	<10	340	<0.5	<2	0.25	<0.5	4	13	20	3.66
839345		0.40	0.007	<0.2	0.80	14	<10	60	<0.5	2	0.07	<0.5	4	9	17	2.63
839346		0.40	0.004	0.5	2.63	12	<10	210	<0.5	<2	0.08	<0.5	8	16	44	3.93
839347		0.46	0.007	0.3	3.00	17	<10	240	1.2	<2	0.07	<0.5	10	19	65	4.34
839348		0.40	0.003	<0.2	0.65	<2	<10	130	<0.5	2	0.12	<0.5	1	6	9	0.80
839349		0.36	0.001	<0.2	2.07	5	<10	160	<0.5	<2	0.06	<0.5	3	16	22	4.23
839350		0.68	0.001	<0.2	2.15	8	<10	140	<0.5	<2	0.70	<0.5	16	35	51	3.88
839351		0.40	0.005	<0.2	1.71	22	<10	120	<0.5	<2	0.05	<0.5	6	15	45	4.18
839352		0.46	0.054	<0.2	2.76	65	<10	410	0.8	<2	0.13	<0.5	30	12	87	5.50
839353		0.36	0.004	<0.2	1.92	14	<10	210	<0.5	<2	0.05	<0.5	5	15	32	3.25
839354		0.42	0.004	0.5	2.98	9	<10	100	<0.5	<2	0.10	<0.5	5	17	142	4.72
839355		0.38	0.003	0.2	2.66	16	<10	70	<0.5	<2	0.05	<0.5	5	23	58	4.62
839356		0.40	0.012	<0.2	0.58	10	<10	130	<0.5	2	0.14	<0.5	4	8	28	2.71
839357		0.40	0.002	0.3	5.11	10	<10	80	0.6	<2	0.19	<0.5	16	19	145	4.17
839358		0.42	0.018	0.2	1.55	17	<10	80	<0.5	<2	0.10	<0.5	12	17	50	3.77
839359		0.32	0.001	0.2	1.57	10	<10	70	<0.5	<2	0.06	<0.5	4	16	36	6.61
839360		0.34	0.005	<0.2	1.15	18	<10	50	<0.5	2	0.06	<0.5	5	21	29	7.98
839361		0.30	0.025	<0.2	0.84	18	<10	40	<0.5	<2	0.06	<0.5	4	18	27	6.58
839362		0.36	0.007	0.3	3.13	39	<10	220	1.0	<2	0.58	0.9	28	25	57	4.03
839363		0.38	0.007	<0.2	1.05	30	<10	80	<0.5	<2	0.05	<0.5	6	13	44	3.77
839364		0.36	0.003	<0.2	1.67	33	<10	80	<0.5	<2	0.39	<0.5	10	22	37	4.79
839365		0.34	0.009	0.2	2.84	20	<10	110	<0.5	<2	0.09	<0.5	10	40	75	6.24
839366		0.38	0.008	0.7	2.55	23	<10	140	<0.5	<2	0.10	<0.5	13	35	62	5.86
839367		0.40	0.005	0.3	2.72	18	<10	100	<0.5	<2	0.10	<0.5	9	30	66	5.61
839368		0.34	0.188	0.2	3.45	25	<10	80	<0.5	<2	0.07	<0.5	11	38	63	6.36
839369		0.32	0.006	0.3	2.93	33	<10	110	<0.5	<2	0.07	<0.5	8	34	82	4.83
839370		0.42	0.003	<0.2	1.90	7	<10	120	<0.5	2	0.66	<0.5	14	32	43	3.71
839371		0.48	0.011	<0.2	2.02	24	<10	110	<0.5	<2	0.32	<0.5	21	34	74	4.64
839372		0.40	0.003	0.2	2.24	9	<10	110	<0.5	<2	0.04	<0.5	5	17	26	3.48
839373		0.40	0.001	0.4	2.15	12	<10	160	<0.5	2	0.07	<0.5	9	22	48	4.49
839374		0.36	0.002	0.2	2.44	8	<10	150	<0.5	<2	0.08	<0.5	7	25	38	5.34
839375		0.42	0.004	0.3	3.25	10	<10	420	<0.5	<2	0.33	<0.5	16	32	98	4.51
839376		0.36	<0.001	0.2	2.31	12	<10	170	0.5	2	0.10	<0.5	14	22	42	4.03
839377		0.38	0.003	0.3	1.50	10	<10	60	<0.5	<2	0.08	<0.5	5	18	29	4.28
839378		0.40	0.003	0.3	1.41	16	<10	80	<0.5	<2	0.07	<0.5	6	17	51	3.80
839379		0.34	0.003	0.4	1.68	12	<10	100	<0.5	<2	0.09	<0.5	8	14	26	3.80
839380		0.36	0.003	<0.2	1.39	15	<10	180	<0.5	2	0.10	<0.5	5	15	38	3.36



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	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
Units		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
LOR		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
839341		20	<1	0.05	10	0.34	260	4	0.01	9	950	8	0.09	<2	2	7
839342		10	<1	0.06	10	0.21	211	1	0.01	8	510	3	0.05	<2	1	9
839343		20	<1	0.05	10	0.36	509	7	0.01	11	810	8	0.07	2	2	10
839344		10	<1	0.07	10	0.27	193	2	0.01	7	580	5	0.05	<2	1	15
839345		10	<1	0.05	10	0.08	142	3	<0.01	5	730	6	0.03	2	2	10
839346		10	<1	0.06	10	0.51	708	2	0.01	9	780	6	0.06	<2	2	10
839347		10	<1	0.09	20	0.52	762	8	0.02	20	720	10	0.05	<2	4	9
839348		10	<1	0.03	10	0.05	41	3	0.01	2	340	3	0.04	<2	<1	11
839349		10	<1	0.04	10	0.25	190	2	0.01	5	360	4	0.05	<2	2	9
839350		10	<1	0.25	10	1.07	1005	1	0.02	36	1290	6	0.03	<2	6	46
839351		10	<1	0.06	10	0.42	336	2	0.01	11	590	6	0.02	2	3	9
839352		10	<1	0.10	10	1.02	2640	2	0.01	15	730	5	0.06	<2	18	11
839353		10	<1	0.05	10	0.28	163	8	0.01	9	400	6	0.05	<2	2	9
839354		10	<1	0.04	10	0.33	422	2	0.01	5	1060	5	0.05	<2	4	11
839355		10	1	0.04	10	0.28	195	5	0.01	8	500	3	0.06	<2	2	7
839356		10	<1	0.05	10	0.06	183	6	0.01	7	400	5	0.05	<2	1	10
839357		10	<1	0.05	10	0.53	823	4	0.01	10	1810	3	0.12	<2	6	20
839358		10	<1	0.07	10	0.54	923	2	0.01	15	630	6	0.07	<2	2	10
839359		10	1	0.06	10	0.15	135	10	0.01	4	850	5	0.12	<2	2	10
839360		20	<1	0.05	10	0.26	486	14	0.01	15	6040	20	0.11	<2	2	8
839361		30	<1	0.06	10	0.17	353	14	0.01	10	5370	16	0.10	<2	1	9
839362		<10	<1	0.05	20	0.50	3120	32	0.01	19	1010	11	0.08	3	4	53
839363		10	<1	0.06	10	0.26	224	24	0.01	12	360	5	0.04	<2	1	8
839364		10	<1	0.05	10	0.46	777	10	0.01	13	590	10	0.06	<2	2	21
839365		10	1	0.05	10	0.79	408	2	0.01	23	520	5	0.06	<2	4	10
839366		10	<1	0.07	10	0.66	816	1	0.01	19	950	6	0.06	2	4	13
839367		10	<1	0.06	10	0.62	439	2	0.01	17	710	7	0.07	<2	4	9
839368		10	<1	0.04	10	0.69	554	1	0.01	17	520	4	0.05	<2	5	9
839369		10	<1	0.05	10	0.59	309	1	0.01	17	740	5	0.05	<2	4	9
839370		10	<1	0.19	10	0.96	856	<1	0.02	33	1130	6	0.03	<2	5	39
839371		10	<1	0.08	10	1.14	1220	1	0.01	30	980	5	0.05	<2	7	19
839372		<10	<1	0.03	10	0.51	282	1	0.01	8	590	4	0.04	<2	3	6
839373		10	<1	0.04	10	0.44	875	1	0.01	8	940	4	0.06	<2	3	8
839374		10	<1	0.05	10	0.58	513	1	0.01	10	740	5	0.06	<2	3	9
839375		10	<1	0.07	10	0.54	1950	2	0.01	15	1080	4	0.07	<2	5	15
839376		10	<1	0.09	10	0.62	1825	1	0.01	14	1200	5	0.10	<2	1	11
839377		10	<1	0.05	10	0.19	235	1	0.01	9	1250	3	0.10	<2	1	10
839378		10	1	0.05	10	0.42	730	1	0.01	11	900	5	0.09	2	1	8
839379		10	<1	0.08	10	0.29	1415	1	0.01	8	1370	5	0.10	<2	1	9
839380		10	<1	0.07	10	0.54	374	1	0.01	14	800	6	0.09	<2	1	11



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
839341		<20	0.08	<10	<10	54	<10	43
839342		<20	0.05	<10	<10	67	<10	21
839343		<20	0.11	<10	<10	84	<10	35
839344		<20	0.09	<10	<10	84	<10	25
839345		<20	0.22	<10	<10	97	<10	18
839346		<20	0.04	<10	<10	45	<10	47
839347		<20	0.08	<10	<10	41	<10	127
839348		<20	0.03	<10	<10	23	<10	11
839349		<20	0.07	<10	<10	62	<10	24
839350		<20	0.13	<10	<10	78	<10	99
839351		<20	0.03	<10	<10	74	<10	50
839352		<20	0.01	<10	<10	66	<10	30
839353		<20	0.05	<10	<10	62	<10	32
839354		<20	0.07	<10	<10	120	<10	36
839355		<20	0.04	<10	<10	79	<10	32
839356		<20	0.12	<10	<10	88	<10	19
839357		<20	0.05	<10	<10	58	<10	54
839358		<20	0.03	<10	<10	50	<10	51
839359		<20	0.12	<10	<10	130	<10	11
839360		<20	0.14	<10	<10	106	<10	34
839361		<20	0.16	<10	<10	97	<10	36
839362		<20	0.03	<10	20	45	<10	146
839363		<20	0.03	<10	<10	76	<10	48
839364		<20	0.09	<10	<10	100	<10	64
839365		<20	0.06	<10	<10	104	<10	51
839366		<20	0.09	<10	<10	116	<10	57
839367		<20	0.09	<10	<10	92	<10	49
839368		<20	0.07	<10	<10	100	<10	48
839369		<20	0.04	<10	<10	100	<10	48
839370		<20	0.11	<10	<10	72	<10	86
839371		<20	0.06	<10	<10	83	<10	86
839372		<20	0.02	<10	<10	42	<10	37
839373		<20	0.03	<10	<10	64	<10	38
839374		<20	0.02	<10	<10	65	<10	49
839375		<20	0.02	<10	<10	57	<10	116
839376		<20	0.05	<10	<10	65	<10	76
839377		<20	0.11	<10	<10	88	<10	25
839378		<20	0.04	<10	<10	58	<10	38
839379		<20	0.07	<10	<10	69	<10	44
839380		<20	0.03	<10	<10	54	<10	44



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	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
LOR		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
839381		0.36	0.004	<0.2	1.42	15	<10	180	<0.5	<2	0.10	<0.5	6	15	38	3.34
839382		0.36	0.006	0.6	1.96	7	<10	70	<0.5	<2	0.07	<0.5	7	15	59	4.05
839383		0.40	0.016	0.2	1.67	8	<10	60	<0.5	<2	0.07	<0.5	6	20	77	3.56
839384		0.38	0.002	0.4	2.48	7	<10	220	0.8	<2	0.14	<0.5	14	16	96	4.19
839385		0.32	0.001	0.6	2.23	8	<10	170	<0.5	2	0.15	<0.5	15	17	48	3.83
839386		0.32	0.006	0.2	1.05	11	<10	50	<0.5	<2	0.05	<0.5	3	12	14	5.81
839387		0.38	0.003	<0.2	2.10	11	<10	270	0.5	<2	0.18	<0.5	12	17	43	3.47
839388		0.38	0.003	0.4	0.82	7	<10	150	<0.5	2	0.25	<0.5	6	7	55	2.79
839389		0.40	0.025	<0.2	1.03	18	<10	100	<0.5	<2	0.12	<0.5	5	11	24	4.52
839390		0.34	0.003	<0.2	1.97	8	<10	130	<0.5	<2	0.66	<0.5	15	33	47	3.63
839391		0.44	0.004	<0.2	2.17	19	<10	100	<0.5	<2	0.04	<0.5	6	18	39	6.02
839392		0.42	0.005	<0.2	2.12	22	<10	160	<0.5	2	0.05	<0.5	10	24	72	5.44
839393		0.34	0.001	<0.2	1.61	2	<10	390	<0.5	2	0.31	<0.5	5	11	8	2.85
839394		0.46	0.008	<0.2	3.43	2	<10	100	<0.5	<2	0.09	<0.5	5	23	29	3.44
839395		0.38	<0.001	<0.2	2.54	3	<10	90	<0.5	<2	0.09	<0.5	5	24	18	4.93
839396		0.44	0.001	<0.2	1.90	3	<10	160	<0.5	2	0.13	<0.5	8	17	39	2.72
839397		0.34	0.003	0.3	2.30	27	<10	140	<0.5	<2	0.09	<0.5	8	26	64	5.93
839398		0.36	0.001	<0.2	1.84	14	<10	60	0.5	<2	0.05	<0.5	3	9	33	7.37
839399		0.34	0.009	<0.2	1.78	24	<10	110	<0.5	<2	0.03	<0.5	6	8	21	4.82
839400		0.36	0.005	0.3	1.83	14	<10	90	<0.5	<2	0.05	<0.5	3	13	19	5.96
839401		0.34	0.008	0.4	1.86	13	<10	90	<0.5	2	0.04	<0.5	4	14	31	6.30
839402		0.40	0.003	<0.2	1.68	13	<10	80	<0.5	3	0.04	<0.5	6	14	22	4.06
839403		0.48	0.012	0.2	2.34	54	<10	130	0.9	<2	0.07	<0.5	22	8	122	9.72
839404		0.38	0.003	0.5	1.92	23	<10	70	<0.5	<2	0.05	<0.5	10	67	153	7.38
839405		0.38	0.005	0.5	1.98	37	<10	80	<0.5	<2	0.07	<0.5	7	14	135	7.50
839406		0.34	0.001	<0.2	1.14	16	<10	60	<0.5	<2	0.03	<0.5	3	13	18	6.18
839407		0.40	0.004	0.2	1.93	19	<10	70	<0.5	<2	0.04	<0.5	6	18	29	7.77
839408		0.36	0.004	0.3	1.47	15	<10	60	<0.5	2	0.06	<0.5	5	18	23	4.63
839409		0.30	0.004	<0.2	2.06	49	<10	80	<0.5	<2	0.04	<0.5	8	16	69	5.14
839410		0.32	0.004	<0.2	2.05	7	<10	140	<0.5	<2	0.72	<0.5	15	32	48	3.82
839411		0.38	0.002	0.5	1.63	72	<10	160	0.6	<2	0.18	0.7	12	13	58	7.38
839412		0.34	0.003	0.5	2.41	58	<10	210	0.7	<2	0.31	<0.5	17	23	58	10.35
839413		0.30	0.004	0.4	1.24	20	<10	100	<0.5	<2	0.11	<0.5	4	30	63	4.63
839414		0.34	0.006	0.4	2.15	27	<10	120	<0.5	<2	0.15	<0.5	6	43	66	6.75
839415		0.44	0.007	<0.2	2.41	25	<10	240	<0.5	<2	0.40	<0.5	22	38	106	5.23
839416		0.42	0.011	0.2	2.29	24	<10	240	<0.5	<2	0.43	<0.5	21	37	96	5.21
839417		0.52	0.015	<0.2	1.88	39	<10	230	<0.5	<2	0.50	<0.5	22	31	89	4.70
839418		0.36	0.004	0.2	2.30	22	<10	60	<0.5	<2	0.16	<0.5	12	45	52	7.16
839419		0.26	0.004	<0.2	4.32	16	<10	30	0.9	<2	0.03	<0.5	1	13	34	7.67
839420		0.38	0.008	0.5	4.03	9	<10	110	0.5	<2	0.04	<0.5	6	19	37	3.88



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		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
839381		<10	<1	0.07	10	0.57	392	1	0.01	14	780	6	0.09	<2	1	11
839382		10	<1	0.05	10	0.27	413	1	0.01	8	1140	3	0.13	<2	2	9
839383		10	<1	0.04	10	0.28	322	1	0.01	6	2310	2	0.17	<2	2	7
839384		10	<1	0.06	10	0.38	1935	1	0.01	8	1530	3	0.12	2	2	12
839385		10	<1	0.05	10	0.31	1540	1	0.01	8	1320	7	0.12	2	2	11
839386		30	<1	0.06	20	0.10	270	3	0.01	6	970	6	0.09	<2	1	7
839387		10	<1	0.09	10	0.57	1295	1	0.01	12	900	4	0.08	2	1	13
839388		10	<1	0.09	10	0.08	1225	4	0.01	7	2200	20	0.10	2	1	12
839389		20	<1	0.06	10	0.22	516	6	0.01	6	890	9	0.04	<2	2	9
839390		10	<1	0.21	10	0.99	894	1	0.02	34	1190	6	0.02	<2	6	41
839391		10	<1	0.05	10	0.35	596	13	0.01	10	340	8	0.03	3	3	6
839392		10	<1	0.08	10	0.65	735	3	0.01	20	440	5	0.03	3	4	9
839393		10	<1	0.05	10	0.22	339	5	0.01	4	380	4	0.04	<2	1	15
839394		10	<1	0.06	10	0.50	319	2	0.01	7	340	<2	0.03	<2	5	9
839395		10	<1	0.04	10	0.40	253	1	0.01	6	380	<2	0.04	<2	4	11
839396		<10	<1	0.07	10	0.47	775	1	0.01	8	740	<2	0.03	<2	2	13
839397		10	1	0.08	10	0.62	397	1	0.01	15	850	8	0.04	<2	3	10
839398		40	<1	0.07	20	0.15	884	8	0.02	4	1240	18	0.04	<2	1	5
839399		10	<1	0.04	10	0.14	231	2	0.01	3	540	8	0.03	<2	2	3
839400		20	<1	0.03	10	0.21	220	3	0.01	7	580	8	0.05	<2	2	7
839401		20	<1	0.03	10	0.19	211	4	0.01	15	620	16	0.05	<2	2	7
839402		10	<1	0.03	10	0.27	338	2	0.01	5	450	4	0.02	2	2	7
839403		10	<1	0.06	10	0.32	6400	6	<0.01	6	1360	20	0.09	<2	6	4
839404		10	<1	0.07	10	0.40	718	4	0.01	16	1690	6	0.13	2	2	8
839405		10	<1	0.04	10	0.39	333	6	0.01	11	1170	5	0.13	<2	2	8
839406		30	<1	0.04	10	0.16	243	6	0.01	5	700	9	0.06	<2	2	7
839407		20	<1	0.04	10	0.37	749	18	0.01	9	630	15	0.05	2	2	7
839408		10	<1	0.04	10	0.42	244	10	0.01	11	530	7	0.07	<2	2	8
839409		10	<1	0.04	10	0.39	332	5	0.01	17	620	19	0.04	5	6	5
839410		10	<1	0.22	10	1.06	912	<1	0.03	34	1210	8	0.02	<2	6	42
839411		10	<1	0.05	10	0.50	4200	8	0.01	17	1690	72	0.08	5	2	6
839412		10	<1	0.06	20	0.84	6720	7	0.01	18	2050	56	0.06	4	4	9
839413		10	<1	0.05	10	0.26	247	2	0.01	15	1090	6	0.09	<2	1	12
839414		10	1	0.05	10	0.46	253	1	0.01	14	1350	7	0.06	<2	4	14
839415		10	<1	0.08	10	1.22	1350	1	0.02	33	480	8	0.03	<2	8	22
839416		10	<1	0.07	10	1.14	1280	1	0.01	29	470	7	0.04	<2	7	23
839417		10	<1	0.11	10	1.22	1510	5	0.01	28	1010	10	0.06	<2	7	28
839418		10	1	0.06	10	0.74	1325	6	0.01	17	1710	6	0.07	<2	2	12
839419		40	1	0.05	30	0.06	340	6	0.03	3	1260	16	0.06	2	2	2
839420		10	<1	0.03	10	0.41	377	2	0.02	7	860	6	0.05	<2	2	4



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		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
839381		<20	0.03	<10	<10	54	<10	45
839382		<20	0.16	<10	<10	82	<10	29
839383		<20	0.04	<10	<10	61	<10	27
839384		<20	0.06	<10	<10	74	<10	61
839385		<20	0.10	<10	<10	75	<10	45
839386		<20	0.24	<10	<10	84	<10	40
839387		<20	0.04	<10	<10	56	<10	72
839388		<20	0.11	<10	<10	47	<10	38
839389		<20	0.14	<10	<10	116	<10	33
839390		<20	0.11	<10	<10	70	<10	89
839391		<20	0.13	<10	<10	91	<10	40
839392		<20	0.03	<10	<10	66	<10	71
839393		<20	0.07	<10	<10	51	<10	24
839394		<20	0.04	<10	<10	46	<10	35
839395		<20	0.08	<10	<10	70	<10	27
839396		<20	0.03	<10	<10	41	<10	39
839397		<20	0.04	<10	<10	90	<10	53
839398		<20	0.16	<10	<10	44	<10	49
839399		<20	0.09	<10	<10	75	<10	24
839400		<20	0.13	<10	<10	102	<10	24
839401		<20	0.16	<10	<10	106	<10	32
839402		<20	0.07	<10	<10	73	<10	27
839403		<20	0.02	<10	<10	49	<10	51
839404		<20	0.06	<10	<10	116	<10	27
839405		<20	0.09	<10	<10	106	<10	26
839406		<20	0.23	<10	<10	174	<10	32
839407		<20	0.11	<10	<10	81	<10	53
839408		<20	0.06	<10	<10	60	<10	43
839409		<20	0.01	<10	<10	79	<10	97
839410		<20	0.12	<10	<10	73	<10	90
839411		<20	0.03	<10	<10	84	<10	443
839412		<20	0.04	<10	<10	86	<10	284
839413		<20	0.05	<10	<10	112	<10	34
839414		<20	0.05	<10	<10	130	<10	36
839415		<20	0.05	<10	<10	92	<10	75
839416		<20	0.05	<10	<10	92	<10	69
839417		<20	0.05	<10	<10	77	<10	123
839418		<20	0.05	<10	<10	112	<10	46
839419		<20	0.22	<10	<10	43	<10	50
839420		<20	0.02	<10	<10	42	<10	33



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Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
LOR		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
839421		0.30	0.003	0.5	4.05	10	<10	120	0.5	<2	0.04	<0.5	6	20	39	3.85
839422		0.36	0.006	<0.2	1.76	16	<10	80	<0.5	<2	0.05	<0.5	3	14	21	4.64
839423		0.44	0.018	<0.2	1.01	20	<10	60	<0.5	2	0.10	<0.5	6	13	37	3.80
839424		0.34	0.011	0.4	1.87	10	<10	100	<0.5	<2	0.12	<0.5	2	22	69	4.34
839425		0.32	0.006	<0.2	0.90	17	<10	70	<0.5	<2	0.07	<0.5	4	9	35	3.28
839426		0.34	0.021	0.2	1.85	10	<10	280	0.5	<2	0.19	<0.5	8	17	42	3.46
839427		0.34	0.002	0.4	2.02	6	<10	90	<0.5	<2	0.18	<0.5	11	20	38	6.28
839428		0.44	0.005	<0.2	2.60	11	<10	230	<0.5	<2	0.08	<0.5	13	18	100	3.25
839429		0.28	0.004	<0.2	2.52	15	<10	200	0.6	<2	0.04	<0.5	5	15	65	4.24
839430		0.58	<0.001	<0.2	2.21	9	<10	150	0.5	<2	0.77	<0.5	16	35	53	3.95
839431		0.28	0.050	0.5	1.55	18	<10	130	<0.5	<2	0.05	<0.5	4	15	31	4.41
839432		0.34	0.008	<0.2	2.57	19	<10	250	<0.5	<2	0.10	<0.5	8	19	60	3.34
839433		0.38	0.005	0.2	2.15	11	<10	150	<0.5	<2	0.07	<0.5	7	17	42	3.55
839434		0.36	0.001	<0.2	2.71	6	<10	130	<0.5	<2	0.09	<0.5	6	22	43	5.91
839435		0.32	0.005	<0.2	2.68	14	<10	100	<0.5	<2	0.06	<0.5	4	18	40	5.05
839436		0.34	0.001	0.2	3.21	23	<10	200	0.6	2	0.04	<0.5	6	22	67	8.26
839437		0.32	0.005	0.2	1.62	12	<10	110	<0.5	2	0.05	<0.5	2	11	14	4.21
839438		0.36	0.008	<0.2	1.43	10	<10	200	<0.5	<2	0.10	<0.5	3	9	22	2.77
839439		0.30	0.005	<0.2	1.50	8	<10	270	0.5	2	0.25	<0.5	19	14	26	4.29
839440		0.26	0.001	0.2	1.82	18	<10	90	<0.5	<2	0.05	<0.5	3	15	32	5.38
839441		0.26	0.009	0.3	2.14	15	<10	100	<0.5	<2	0.05	<0.5	3	17	53	4.54
839442		0.32	0.001	0.4	2.20	22	<10	160	<0.5	<2	0.05	<0.5	5	19	40	5.92
839443		0.30	0.003	0.3	2.29	15	<10	280	0.7	<2	0.37	<0.5	11	16	44	4.15
839444		0.40	0.008	<0.2	2.47	20	<10	180	<0.5	<2	0.07	<0.5	8	21	56	5.10
839445		0.28	0.003	0.3	2.01	16	<10	220	<0.5	<2	0.06	<0.5	7	18	45	4.30
839446		0.32	0.012	0.4	1.69	10	<10	150	<0.5	<2	0.09	<0.5	6	10	29	3.99
839447		0.32	0.004	0.3	2.28	16	<10	90	<0.5	<2	0.10	<0.5	4	16	32	4.64
839448		0.32	0.013	0.2	1.48	32	<10	70	<0.5	<2	0.07	<0.5	6	15	33	7.09
839449		0.24	0.003	0.2	1.23	10	<10	100	<0.5	2	0.05	<0.5	2	7	14	2.19
839450		0.40	<0.001	<0.2	1.97	8	<10	130	<0.5	2	0.71	<0.5	15	32	49	3.62
839451		0.32	0.011	0.3	1.79	17	<10	350	<0.5	<2	0.22	<0.5	8	15	40	3.05
839452		0.26	0.003	0.3	1.48	16	<10	80	<0.5	<2	0.04	<0.5	5	18	32	6.62
839453		0.34	0.017	<0.2	5.75	30	<10	300	0.8	<2	0.11	<0.5	25	73	244	4.94
839454		0.28	0.005	0.2	0.97	22	<10	60	<0.5	<2	0.11	<0.5	5	32	45	5.65
839455		0.38	0.007	0.3	1.94	21	<10	90	<0.5	2	0.13	<0.5	11	34	67	5.71
839456		0.38	0.031	0.4	2.16	26	<10	110	<0.5	2	0.15	<0.5	15	38	71	5.16
839457		0.30	0.002	0.4	2.27	37	<10	290	<0.5	<2	0.82	<0.5	10	43	58	7.14
839458		0.36	0.012	0.9	2.03	19	<10	230	<0.5	2	0.29	<0.5	14	20	70	4.06
839459		0.38	0.003	0.8	1.06	11	<10	50	<0.5	2	0.06	<0.5	3	13	20	1.95
839460		0.30	0.007	0.4	1.81	7	<10	90	<0.5	<2	0.07	<0.5	2	15	37	3.15



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
839421		<10	<1	0.03	10	0.42	402	1	0.01	7	860	6	0.05	3	2	5
839422		20	<1	0.03	10	0.26	217	2	0.01	7	860	5	0.05	<2	2	8
839423		10	<1	0.08	10	0.56	726	5	0.01	10	1480	13	0.05	<2	1	9
839424		10	<1	0.03	10	0.11	81	2	0.01	7	1210	7	0.12	<2	1	10
839425		10	<1	0.05	10	0.07	164	2	0.01	8	350	5	0.05	<2	1	8
839426		10	<1	0.08	10	0.48	829	1	0.02	11	920	6	0.09	<2	1	17
839427		10	<1	0.07	10	0.47	1535	1	0.01	9	1220	5	0.12	<2	2	15
839428		<10	1	0.07	10	0.71	790	1	0.01	18	460	5	0.03	<2	5	9
839429		10	1	0.08	20	0.33	294	2	0.01	9	760	7	0.04	2	4	7
839430		10	<1	0.26	10	1.14	1010	1	0.03	37	1280	9	0.02	<2	6	47
839431		10	<1	0.05	10	0.26	135	1	0.01	7	580	7	0.06	<2	2	9
839432		10	1	0.13	10	1.26	474	1	0.01	15	430	7	0.03	<2	5	12
839433		10	<1	0.08	10	0.44	686	1	0.01	9	860	2	0.06	<2	1	10
839434		10	<1	0.07	10	0.35	381	1	0.01	6	850	2	0.05	<2	3	12
839435		10	<1	0.04	10	0.24	163	2	0.01	5	480	6	0.04	<2	4	8
839436		30	<1	0.13	10	0.43	432	3	0.02	11	450	13	0.03	<2	6	7
839437		20	1	0.04	10	0.11	76	3	0.01	3	270	7	0.02	<2	3	7
839438		20	<1	0.04	10	0.17	151	3	0.01	4	640	11	0.03	<2	2	10
839439		10	<1	0.10	20	0.41	2390	2	0.02	8	910	9	0.09	<2	1	17
839440		10	1	0.04	10	0.20	144	2	0.01	6	510	8	0.03	2	3	8
839441		10	1	0.04	10	0.21	116	2	0.01	6	560	6	0.02	<2	3	8
839442		10	<1	0.08	10	0.44	245	2	0.01	12	690	7	0.03	<2	3	10
839443		10	1	0.08	10	0.47	1705	2	0.01	12	1220	8	0.09	<2	1	19
839444		10	1	0.09	10	0.63	348	1	0.01	14	390	7	0.02	<2	5	11
839445		10	<1	0.09	10	0.47	1380	1	0.01	12	840	7	0.03	<2	2	9
839446		10	<1	0.06	10	0.23	273	4	0.01	5	630	9	0.05	<2	2	10
839447		10	<1	0.05	10	0.19	165	3	0.01	7	680	9	0.03	<2	3	10
839448		30	<1	0.05	10	0.35	355	5	0.01	9	1020	14	0.02	<2	3	9
839449		10	<1	0.04	10	0.10	80	2	0.01	6	510	6	0.04	<2	1	8
839450		10	1	0.22	10	0.99	966	1	0.02	34	1180	8	0.01	<2	6	42
839451		10	<1	0.09	10	0.67	411	2	0.01	12	520	6	0.02	2	2	14
839452		10	<1	0.04	10	0.22	182	2	0.01	5	610	7	0.03	<2	2	7
839453		10	<1	0.12	10	1.18	994	2	0.01	63	870	7	0.04	4	19	11
839454		10	<1	0.07	10	0.24	216	3	0.01	11	6500	8	0.07	<2	2	10
839455		10	<1	0.06	10	0.71	597	3	0.01	22	690	9	0.04	3	4	14
839456		10	<1	0.07	10	0.86	1020	2	0.01	24	720	6	0.04	<2	3	14
839457		10	<1	0.07	10	0.65	1830	12	0.01	18	1610	8	0.08	<2	3	55
839458		10	<1	0.11	10	1.23	3100	3	0.01	12	1170	21	0.06	<2	1	17
839459		10	<1	0.04	10	0.15	343	2	0.01	5	860	10	0.03	<2	1	8
839460		10	<1	0.03	10	0.15	104	1	0.01	6	660	6	0.03	<2	1	11



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
839421		<20	0.02	<10	<10	42	<10	33
839422		<20	0.08	<10	<10	92	<10	24
839423		<20	0.11	<10	<10	100	<10	38
839424		<20	0.09	<10	<10	63	<10	16
839425		<20	0.11	<10	<10	143	<10	21
839426		<20	0.06	<10	<10	62	<10	44
839427		<20	0.10	<10	<10	124	<10	35
839428		<20	0.02	<10	<10	46	<10	54
839429		<20	0.10	<10	<10	75	<10	37
839430		<20	0.14	<10	<10	77	<10	96
839431		<20	0.08	<10	<10	94	<10	25
839432		<20	0.03	<10	<10	60	<10	64
839433		<20	0.03	<10	<10	61	<10	49
839434		<20	0.06	<10	<10	115	<10	39
839435		<20	0.07	<10	<10	90	<10	21
839436		<20	0.13	<10	<10	101	<10	65
839437		<20	0.22	<10	<10	146	<10	15
839438		<20	0.25	<10	<10	123	<10	24
839439		<20	0.12	<10	<10	77	<10	47
839440		<20	0.08	<10	<10	101	<10	23
839441		<20	0.08	<10	<10	93	<10	23
839442		<20	0.05	<10	<10	87	<10	48
839443		<20	0.03	<10	<10	62	<10	79
839444		<20	0.03	<10	<10	82	<10	59
839445		<20	0.03	<10	<10	74	<10	50
839446		<20	0.14	<10	<10	89	<10	28
839447		<20	0.13	<10	<10	86	<10	20
839448		<20	0.19	<10	<10	91	<10	44
839449		<20	0.14	<10	<10	89	<10	16
839450		<20	0.12	<10	<10	71	<10	91
839451		<20	0.02	<10	<10	48	<10	65
839452		<20	0.17	<10	<10	119	<10	23
839453		<20	0.02	<10	<10	85	<10	127
839454		<20	0.08	<10	<10	117	<10	29
839455		<20	0.10	<10	<10	107	<10	58
839456		<20	0.06	<10	<10	93	<10	66
839457		<20	0.06	<10	<10	112	<10	157
839458		<20	0.04	<10	<10	66	<10	96
839459		<20	0.10	<10	<10	75	<10	21
839460		<20	0.04	<10	<10	70	<10	17



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Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
LOR		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
839461		0.32	0.001	0.5	1.86	7	<10	90	<0.5	2	0.07	<0.5	2	15	38	3.33
839462		0.28	0.002	0.5	2.52	20	<10	450	<0.5	<2	1.02	<0.5	9	30	28	6.02
839463		0.30	0.002	1.0	2.25	48	10	80	<0.5	3	0.21	<0.5	19	23	134	7.41
839464		0.24	<0.001	1.6	0.54	8	<10	50	<0.5	2	0.08	<0.5	2	11	68	1.74
839465		0.38	0.066	0.2	1.34	11	<10	80	<0.5	<2	0.04	<0.5	4	17	36	3.81
839466		0.40	0.010	0.3	2.60	22	<10	120	<0.5	<2	0.15	<0.5	19	34	83	4.72
839467		0.34	0.001	0.4	1.68	16	<10	200	0.5	2	0.11	<0.5	9	15	26	4.31
839468		0.32	0.003	0.3	1.13	17	<10	100	<0.5	<2	0.09	<0.5	4	13	24	4.96
839469		0.38	0.010	0.3	1.97	10	<10	100	<0.5	<2	0.06	<0.5	5	18	46	5.22
839470		0.46	0.001	<0.2	1.93	8	<10	140	<0.5	<2	0.70	<0.5	15	32	50	3.68
839471		0.28	0.003	0.3	1.71	8	<10	200	0.6	<2	0.14	<0.5	14	20	39	4.10
839472		0.26	0.004	0.7	1.27	9	<10	90	<0.5	<2	0.12	<0.5	3	9	46	2.28
839473		0.30	0.009	0.4	1.40	18	<10	120	<0.5	2	0.19	<0.5	5	15	33	3.87
839474		0.34	0.001	0.4	1.17	6	<10	240	<0.5	<2	0.30	<0.5	17	10	27	3.47
839475		0.34	0.009	0.3	2.20	18	<10	160	<0.5	<2	0.06	<0.5	15	19	69	3.47
839476		0.36	0.004	0.5	2.03	13	<10	160	<0.5	<2	0.07	<0.5	7	16	29	3.62
839477		0.36	0.004	0.2	2.03	15	<10	210	<0.5	<2	0.08	<0.5	12	18	43	4.17
839478		0.44	0.005	0.2	3.08	14	<10	90	<0.5	<2	0.06	<0.5	6	13	34	3.03
839479		0.38	0.040	0.4	2.60	17	<10	60	<0.5	<2	0.05	<0.5	5	17	42	4.76
839480		0.34	0.017	<0.2	2.31	19	<10	130	0.5	<2	0.07	<0.5	6	16	39	5.59
839481		0.34	0.005	0.2	2.10	18	<10	120	0.5	<2	0.07	<0.5	5	15	34	5.67
839482		0.42	0.003	<0.2	1.88	9	<10	180	<0.5	<2	0.05	<0.5	3	9	13	2.51
839483		0.38	0.004	0.2	0.69	15	<10	140	<0.5	<2	0.12	<0.5	2	9	21	2.05
839484		0.32	0.008	0.2	1.85	21	<10	140	<0.5	<2	0.08	<0.5	6	20	42	6.61
839485		0.32	0.008	0.3	2.79	20	<10	140	<0.5	<2	0.05	<0.5	7	24	60	5.31
839486		0.36	0.004	0.2	2.75	21	<10	170	0.5	<2	0.04	<0.5	9	22	66	6.12
839487		0.40	0.009	0.7	1.43	8	<10	80	<0.5	2	0.06	<0.5	5	14	14	3.60
839488		0.36	0.005	0.6	2.56	17	<10	110	<0.5	<2	0.05	<0.5	8	21	46	5.39
839489		0.30	0.005	0.3	1.11	7	<10	70	<0.5	<2	0.04	<0.5	2	9	21	2.11
839490		0.68	0.001	<0.2	1.94	9	<10	140	<0.5	<2	0.69	<0.5	14	32	46	3.57
839491		0.34	0.008	0.5	1.42	21	<10	80	<0.5	<2	0.05	<0.5	4	17	26	4.62
839492		0.34	0.010	0.3	1.92	15	<10	90	<0.5	<2	0.06	<0.5	6	15	36	5.08
839493		0.42	0.005	0.2	2.13	22	<10	110	<0.5	<2	0.06	<0.5	8	22	53	5.98
839494		0.34	0.003	<0.2	1.89	16	<10	80	<0.5	<2	0.05	<0.5	4	14	38	4.81
839495		0.24	0.024	0.5	2.38	19	<10	100	0.5	<2	0.06	<0.5	9	28	44	10.55
839496		0.36	0.006	<0.2	1.59	12	<10	60	<0.5	<2	0.04	<0.5	3	12	17	4.39
839497		0.30	0.003	0.9	1.19	31	<10	50	<0.5	<2	0.03	<0.5	5	12	31	5.17
839498		0.32	0.008	0.5	1.52	20	<10	140	<0.5	<2	0.12	<0.5	5	14	35	4.01
839499		0.34	0.009	0.3	1.06	25	<10	70	<0.5	<2	0.04	<0.5	4	9	29	3.12
839500		0.30	0.006	1.7	3.30	118	<10	130	0.5	2	0.05	<0.5	13	21	61	4.70



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
839461		10	<1	0.03	10	0.14	99	1	0.01	6	650	5	0.04	3	1	10
839462		10	<1	0.03	10	0.21	1560	3	0.01	7	1070	9	0.09	<2	1	40
839463		20	<1	0.06	<10	3.34	8860	7	0.01	7	6700	86	0.05	<2	3	6
839464		10	<1	0.04	10	0.04	87	1	0.01	7	840	10	0.09	<2	<1	7
839465		10	<1	0.03	10	0.26	248	1	0.01	14	700	5	0.08	<2	1	7
839466		10	<1	0.07	10	0.93	1265	1	0.01	24	730	8	0.04	2	5	13
839467		10	<1	0.11	10	0.37	1510	2	0.02	13	1350	7	0.10	<2	<1	13
839468		20	<1	0.08	10	0.21	341	3	0.01	8	780	8	0.07	<2	1	11
839469		10	<1	0.04	10	0.33	329	2	0.01	9	820	5	0.08	<2	2	9
839470		10	<1	0.21	10	0.98	900	1	0.03	34	1210	9	0.01	3	5	44
839471		10	<1	0.07	10	0.30	2740	2	0.02	8	1790	6	0.13	<2	1	15
839472		10	<1	0.07	10	0.18	201	2	0.01	6	1940	8	0.15	<2	<1	9
839473		10	<1	0.11	10	0.35	426	1	0.01	11	1060	5	0.06	<2	1	11
839474		10	<1	0.08	10	0.30	3000	1	0.01	7	1640	8	0.09	<2	1	26
839475		10	<1	0.11	10	0.62	1110	1	0.01	18	790	5	0.04	4	2	10
839476		10	<1	0.09	10	0.44	495	1	0.01	10	730	7	0.06	<2	1	11
839477		10	<1	0.09	10	0.55	1305	2	0.01	11	810	5	0.06	<2	2	11
839478		<10	<1	0.03	10	0.47	313	2	0.01	11	560	6	0.04	2	2	7
839479		10	<1	0.05	10	0.35	438	3	0.01	8	680	9	0.04	2	2	5
839480		20	<1	0.05	20	0.31	368	4	0.01	8	480	11	0.03	<2	3	8
839481		30	<1	0.05	20	0.29	280	4	0.01	7	470	8	0.02	2	3	8
839482		10	<1	0.07	20	0.11	129	4	0.01	3	240	7	0.01	<2	2	6
839483		10	<1	0.05	10	0.06	51	2	0.01	5	540	5	0.04	<2	1	9
839484		10	<1	0.06	10	0.47	257	2	0.01	10	530	22	0.02	<2	3	10
839485		10	<1	0.07	10	0.54	320	1	0.01	13	520	9	0.02	<2	4	8
839486		20	<1	0.09	10	0.67	488	3	0.01	19	560	10	0.02	2	4	9
839487		10	<1	0.07	10	0.28	545	2	0.01	7	1210	6	0.03	<2	1	9
839488		10	<1	0.06	10	0.51	450	2	0.01	12	720	8	0.03	3	2	8
839489		10	<1	0.03	10	0.08	79	2	0.01	4	350	11	0.01	<2	1	7
839490		10	<1	0.22	10	0.98	911	<1	0.02	34	1120	7	<0.01	<2	6	42
839491		10	<1	0.07	10	0.30	265	3	0.01	11	560	8	0.03	2	2	9
839492		10	<1	0.04	10	0.36	305	3	0.01	9	970	9	0.04	<2	2	8
839493		10	<1	0.07	10	0.62	399	2	0.01	15	710	8	0.04	<2	3	9
839494		20	<1	0.07	20	0.18	354	5	0.01	6	980	13	0.07	<2	2	7
839495		30	<1	0.06	10	0.20	1485	6	0.01	9	1670	30	0.04	2	4	9
839496		20	<1	0.03	10	0.14	131	3	0.01	4	580	8	0.03	2	2	6
839497		10	<1	0.06	10	0.12	220	6	0.01	7	960	6	0.06	<2	1	5
839498		10	<1	0.07	10	0.29	299	4	0.01	11	780	7	0.05	<2	1	14
839499		10	<1	0.07	10	0.26	240	4	0.01	7	570	10	0.03	<2	1	7
839500		10	<1	0.06	20	0.52	1280	47	0.01	21	870	7	0.04	6	3	8



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
839461		<20	0.03	<10	<10	69	<10	16
839462		<20	0.06	<10	<10	74	<10	25
839463		<20	0.21	<10	<10	154	<10	102
839464		<20	0.04	<10	<10	39	<10	17
839465		<20	0.02	<10	<10	51	<10	27
839466		<20	0.04	<10	<10	74	<10	75
839467		<20	0.04	<10	<10	63	<10	59
839468		<20	0.12	<10	<10	76	<10	38
839469		<20	0.14	<10	<10	107	<10	29
839470		<20	0.12	<10	<10	74	<10	89
839471		<20	0.14	<10	<10	86	<10	47
839472		<20	0.04	<10	<10	34	<10	26
839473		<20	0.04	<10	<10	64	<10	46
839474		<20	0.06	<10	<10	82	<10	51
839475		<20	0.03	<10	<10	49	<10	75
839476		<20	0.06	<10	<10	57	<10	49
839477		<20	0.04	<10	<10	63	<10	49
839478		<20	0.03	<10	<10	31	<10	42
839479		<20	0.06	<10	<10	40	<10	40
839480		<20	0.19	<10	<10	77	<10	37
839481		<20	0.21	<10	<10	82	<10	38
839482		<20	0.11	<10	<10	86	<10	22
839483		<20	0.05	<10	<10	77	<10	11
839484		<20	0.11	<10	<10	102	<10	42
839485		<20	0.03	<10	<10	69	<10	52
839486		<20	0.06	<10	<10	71	<10	85
839487		<20	0.12	<10	<10	73	<10	36
839488		<20	0.03	<10	<10	74	<10	44
839489		<20	0.17	<10	<10	77	<10	21
839490		<20	0.12	<10	<10	71	<10	89
839491		<20	0.11	<10	<10	80	<10	36
839492		<20	0.11	<10	<10	52	<10	45
839493		<20	0.06	<10	<10	91	<10	56
839494		<20	0.27	<10	<10	82	<10	50
839495		<20	0.79	<10	<10	191	<10	57
839496		<20	0.14	<10	<10	99	<10	20
839497		<20	0.21	<10	<10	128	<10	32
839498		<20	0.04	<10	<10	75	<10	39
839499		<20	0.09	<10	<10	87	<10	43
839500		<20	0.06	<10	10	55	<10	197



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 19-JAN-2018
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CERTIFICATE VA17154250

Project: Forrest Kerr Project

This report is for 172 Soil samples submitted to our lab in Terrace, BC, Canada on 14-JUL-2017.

The following have access to data associated with this certificate:

CORNELL MCDOWELL		
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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-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: **ABEN RESOURCES LTD.**
ATTN: ALS GEOCHEMISTRY

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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Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
839501		0.30	0.008	1.5	3.30	124	<10	120	0.5	<2	0.04	<0.5	13	21	61	5.04
839502		0.50	0.009	0.2	1.60	17	<10	140	<0.5	<2	0.08	<0.5	8	10	57	2.49
839503		0.48	0.008	<0.2	2.21	12	<10	130	<0.5	<2	0.07	<0.5	7	26	54	3.98
839504		0.36	0.007	<0.2	1.95	27	<10	160	<0.5	<2	0.09	<0.5	9	40	68	4.48
839505		0.32	0.007	<0.2	1.12	17	<10	80	<0.5	<2	0.09	<0.5	4	27	43	5.04
839506		0.36	0.014	0.2	1.81	21	<10	90	<0.5	<2	0.11	<0.5	12	43	83	5.06
839507		0.30	0.005	0.7	1.96	20	<10	100	<0.5	<2	0.04	<0.5	5	20	40	6.52
839508		0.38	0.004	0.2	1.98	15	<10	90	<0.5	<2	0.05	<0.5	4	17	27	5.03
839509		0.32	0.006	0.7	0.93	8	<10	40	<0.5	<2	0.04	<0.5	3	11	16	3.20
839510		0.52	<0.001	<0.2	2.15	7	<10	150	0.5	<2	0.76	<0.5	16	35	53	3.96
839511		0.30	0.003	<0.2	0.79	9	<10	40	<0.5	<2	0.04	<0.5	3	10	20	2.80
839512		0.28	0.022	0.2	1.31	8	<10	90	<0.5	<2	0.14	<0.5	4	16	22	5.47
839513		0.30	0.006	0.4	1.82	6	<10	170	<0.5	<2	0.11	<0.5	6	20	22	6.38
839514		0.38	0.006	0.8	1.48	23	<10	180	<0.5	<2	0.22	<0.5	11	20	33	3.52
839515		0.36	0.004	1.1	2.17	43	<10	160	<0.5	<2	0.07	<0.5	10	26	34	8.68
839516		0.38	0.006	0.3	2.36	22	<10	150	0.5	<2	0.09	<0.5	11	21	60	4.50
839517		0.38	0.003	0.5	2.21	14	<10	90	<0.5	<2	0.05	<0.5	5	20	38	5.12
839518		0.30	<0.001	0.6	1.77	51	<10	430	<0.5	2	1.08	<0.5	13	47	64	4.29
839519		0.34	0.007	0.6	0.87	23	<10	60	<0.5	<2	0.14	<0.5	6	13	32	4.16
839520		0.30	0.004	3.1	1.34	22	<10	60	<0.5	<2	0.12	<0.5	8	17	45	5.44
839521		0.30	0.001	2.2	1.28	24	<10	60	<0.5	<2	0.11	<0.5	9	18	41	5.28
839522		0.40	0.006	1.0	2.32	23	10	330	<0.5	<2	0.62	<0.5	24	38	150	5.05
839523		0.52	0.011	0.2	2.16	24	<10	380	<0.5	<2	1.18	0.7	19	29	141	4.39
839524		0.30	0.005	0.2	2.20	17	<10	190	<0.5	<2	0.06	<0.5	10	19	39	3.91
839525		0.56	0.009	0.2	2.14	22	<10	310	<0.5	<2	0.10	<0.5	12	17	65	3.50
839526		0.34	0.004	1.2	3.05	10	<10	130	0.5	<2	0.06	<0.5	5	17	50	5.92
839527		0.30	0.003	0.3	1.68	10	<10	90	<0.5	<2	0.05	<0.5	7	15	32	5.46
839528		0.46	0.006	1.1	3.51	20	<10	330	1.0	<2	0.08	<0.5	10	20	98	4.39
839529		0.30	0.005	0.2	1.21	13	<10	210	<0.5	<2	0.12	<0.5	8	15	23	3.57
839530		0.48	<0.001	<0.2	2.17	7	<10	160	0.5	<2	0.80	<0.5	17	36	54	4.11
839531		0.30	0.241	0.3	1.68	15	<10	220	<0.5	<2	0.11	<0.5	8	15	27	5.09
839532		0.36	0.007	0.2	2.10	17	<10	160	<0.5	<2	0.05	<0.5	7	17	37	5.28
839533		0.38	0.003	0.5	2.10	13	<10	190	<0.5	<2	0.07	<0.5	9	21	25	4.00
839534		0.44	0.005	0.2	2.43	13	<10	230	<0.5	<2	0.06	<0.5	8	19	35	4.02
839535		0.38	0.018	0.3	1.75	21	<10	110	<0.5	<2	0.07	<0.5	7	17	42	4.73
839536		0.36	0.007	<0.2	1.80	8	<10	250	<0.5	<2	0.11	<0.5	7	18	25	3.92
839537		0.38	0.010	0.3	2.81	19	<10	90	<0.5	<2	0.07	<0.5	8	19	53	4.67
839538		0.34	0.013	<0.2	2.16	17	<10	90	<0.5	<2	0.09	<0.5	7	19	36	5.92
839539		0.34	0.013	0.4	2.87	6	<10	170	0.9	<2	0.21	<0.5	12	19	46	4.18
839540		0.34	0.007	0.7	2.08	20	<10	90	<0.5	<2	0.07	<0.5	6	21	36	5.50



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
839501		10	1	0.06	20	0.51	1355	48	0.01	19	840	8	0.06	6	3	7
839502		<10	<1	0.16	10	0.36	1065	2	<0.01	9	710	10	0.04	<2	2	9
839503		10	1	0.05	10	0.50	370	1	<0.01	13	660	5	0.04	<2	4	7
839504		10	<1	0.06	10	0.67	273	2	0.01	22	510	7	0.04	<2	5	11
839505		10	1	0.04	10	0.27	264	2	0.01	10	1740	7	0.09	<2	1	9
839506		10	<1	0.06	10	0.77	630	1	0.01	28	520	7	0.07	<2	4	12
839507		10	<1	0.06	10	0.31	229	2	0.01	10	1020	9	0.04	2	2	8
839508		10	<1	0.04	10	0.28	257	2	0.01	8	850	8	0.06	<2	2	7
839509		20	<1	0.04	10	0.07	192	7	0.01	5	500	9	0.05	<2	1	9
839510		10	<1	0.25	10	1.12	1005	1	0.03	36	1270	8	0.02	<2	6	47
839511		10	<1	0.05	10	0.06	144	9	0.01	6	720	6	0.06	<2	1	6
839512		20	1	0.05	10	0.24	276	4	0.02	9	1410	8	0.09	<2	1	13
839513		20	<1	0.05	10	0.26	877	3	0.01	7	1150	6	0.08	<2	1	14
839514		10	<1	0.10	10	1.25	2800	2	0.02	11	1680	23	0.08	<2	1	14
839515		10	<1	0.05	10	0.45	2110	3	0.01	20	1570	11	0.05	<2	4	8
839516		10	1	0.07	10	0.62	860	2	0.02	13	1190	15	0.05	2	3	11
839517		10	1	0.04	10	0.31	273	1	0.01	7	1430	6	0.08	<2	1	9
839518		10	<1	0.06	10	0.56	823	5	0.01	19	680	10	0.08	<2	3	45
839519		10	<1	0.07	10	0.45	801	7	0.01	8	690	21	0.05	<2	1	8
839520		10	<1	0.06	10	1.05	2110	3	0.01	11	1140	40	0.09	<2	2	9
839521		10	1	0.06	10	0.97	2230	4	0.01	11	1040	43	0.07	<2	2	10
839522		10	<1	0.11	10	2.26	4370	1	0.01	34	1440	12	0.04	<2	6	22
839523		10	<1	0.12	10	2.36	1775	2	0.01	23	710	13	0.05	<2	8	26
839524		10	<1	0.11	10	0.57	735	2	0.01	14	900	6	0.09	<2	1	9
839525		<10	<1	0.13	10	0.71	926	2	0.01	23	650	6	0.03	<2	5	13
839526		20	1	0.06	20	0.29	322	5	0.02	7	670	11	0.10	<2	4	8
839527		20	<1	0.06	20	0.15	421	5	0.02	5	780	10	0.08	<2	2	7
839528		10	1	0.15	20	0.71	445	2	0.02	22	1120	9	0.12	<2	2	11
839529		10	<1	0.10	10	0.32	808	2	0.01	9	760	5	0.10	<2	1	13
839530		10	1	0.24	10	1.13	1020	1	0.03	36	1270	8	0.03	<2	6	49
839531		10	<1	0.06	10	0.26	981	2	0.02	8	1540	6	0.12	<2	1	15
839532		10	<1	0.07	10	0.49	364	1	0.01	10	570	7	0.04	<2	2	9
839533		10	<1	0.10	10	0.58	600	2	0.01	13	550	6	0.05	<2	2	10
839534		10	<1	0.08	10	0.46	1000	1	0.01	11	460	8	0.03	<2	3	11
839535		10	<1	0.07	10	0.35	594	2	0.02	10	1320	6	0.06	<2	1	9
839536		10	<1	0.07	10	0.60	559	2	0.01	11	430	8	0.03	<2	2	15
839537		10	1	0.05	10	0.41	446	2	0.01	10	940	7	0.08	<2	2	8
839538		10	1	0.05	10	0.31	336	2	0.01	7	790	8	0.05	<2	3	11
839539		10	<1	0.08	20	0.58	825	2	0.02	11	900	8	0.09	<2	2	15
839540		10	<1	0.06	10	0.43	415	2	0.01	9	690	8	0.05	2	2	10



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
839501		<20	0.07	<10	10	56	<10	184
839502		<20	0.01	<10	<10	31	<10	43
839503		<20	0.03	<10	<10	56	<10	39
839504		<20	0.05	<10	<10	101	<10	52
839505		<20	0.04	<10	<10	81	<10	27
839506		<20	0.06	<10	<10	95	<10	55
839507		<20	0.08	<10	<10	96	<10	32
839508		<20	0.05	<10	<10	82	<10	27
839509		<20	0.18	<10	<10	122	<10	29
839510		<20	0.14	<10	<10	78	<10	98
839511		<20	0.11	<10	<10	89	<10	21
839512		<20	0.11	<10	<10	91	<10	30
839513		<20	0.10	<10	<10	97	<10	32
839514		<20	0.05	<10	<10	68	<10	94
839515		<20	0.03	<10	<10	86	<10	65
839516		<20	0.04	<10	<10	60	<10	66
839517		<20	0.03	<10	<10	77	<10	30
839518		<20	0.03	<10	<10	78	<10	103
839519		<20	0.17	<10	<10	145	<10	48
839520		<20	0.11	<10	<10	119	<10	61
839521		<20	0.12	<10	<10	129	<10	62
839522		<20	0.05	<10	<10	86	<10	115
839523		<20	0.04	<10	<10	70	<10	132
839524		<20	0.02	<10	<10	54	<10	53
839525		<20	0.02	<10	<10	43	<10	72
839526		<20	0.30	<10	<10	100	<10	42
839527		<20	0.32	<10	<10	97	<10	46
839528		<20	0.04	<10	<10	54	<10	98
839529		<20	0.06	<10	<10	68	<10	48
839530		<20	0.14	<10	<10	81	<10	98
839531		<20	0.04	<10	<10	83	<10	45
839532		<20	0.04	<10	<10	73	<10	41
839533		<20	0.09	<10	<10	69	<10	61
839534		<20	0.06	<10	<10	78	<10	62
839535		<20	0.04	<10	<10	70	<10	37
839536		<20	0.05	<10	<10	43	<10	47
839537		<20	0.04	<10	<10	62	<10	36
839538		<20	0.17	<10	<10	115	<10	30
839539		<20	0.10	<10	<10	67	<10	91
839540		<20	0.07	<10	<10	85	<10	45



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	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
LOR		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
839541		0.36	0.005	0.7	2.04	19	<10	90	<0.5	<2	0.06	<0.5	6	21	36	5.44
839542		0.36	0.011	0.2	2.50	19	<10	220	<0.5	<2	0.08	<0.5	12	23	65	4.03
839543		0.44	0.007	<0.2	1.90	7	<10	170	<0.5	<2	0.21	<0.5	17	25	46	3.89
839544		0.44	0.006	0.2	1.61	9	<10	200	<0.5	<2	0.16	<0.5	17	19	30	4.31
839545		0.38	0.006	0.6	2.71	13	<10	170	0.8	<2	0.06	<0.5	5	22	80	5.85
839546		0.40	0.005	0.2	1.69	14	<10	140	<0.5	<2	0.07	<0.5	10	17	32	4.12
839547		0.38	0.009	0.6	1.14	15	<10	100	<0.5	<2	0.08	<0.5	4	13	21	4.93
839548		0.34	0.003	0.2	1.49	18	<10	110	<0.5	<2	0.03	<0.5	5	16	33	7.68
839549		0.32	0.004	0.8	1.84	8	<10	60	<0.5	<2	0.04	<0.5	5	14	25	5.45
839550		0.46	0.004	<0.2	2.04	6	<10	140	<0.5	<2	0.73	<0.5	15	35	51	3.73
839551		0.30	0.004	<0.2	1.41	13	<10	90	0.5	<2	0.05	<0.5	3	12	20	6.81
839552		0.40	0.010	0.4	2.81	21	<10	90	<0.5	<2	0.05	<0.5	8	21	37	8.27
839553		0.34	0.004	1.3	3.34	73	<10	90	<0.5	<2	0.05	<0.5	8	20	29	6.82
839554		0.34	0.006	0.2	3.46	39	<10	150	0.8	<2	0.14	0.5	15	19	87	6.19
839555		0.42	0.012	0.3	1.51	26	<10	50	<0.5	<2	0.05	<0.5	10	24	26	7.76
839556		0.46	0.004	0.2	1.11	8	<10	120	<0.5	<2	0.05	<0.5	3	11	16	1.85
839557		0.32	0.007	0.3	1.80	17	<10	130	<0.5	<2	0.03	<0.5	3	13	38	4.49
839558		0.34	0.009	0.2	2.28	22	<10	170	<0.5	<2	0.03	<0.5	5	17	66	3.85
839559		0.48	0.009	<0.2	2.73	24	<10	170	<0.5	2	0.08	<0.5	17	21	78	4.08
839560		0.36	0.001	0.6	1.12	4	<10	40	<0.5	<2	0.04	<0.5	2	10	25	1.99
839561		0.40	0.004	0.4	1.03	5	<10	40	<0.5	<2	0.05	<0.5	2	10	21	2.08
839562		0.34	0.003	0.3	2.24	10	<10	60	<0.5	<2	0.04	<0.5	4	22	25	6.40
839563		0.36	0.008	1.0	2.51	7	<10	50	<0.5	<2	0.03	<0.5	3	22	43	4.68
839564		0.40	0.003	<0.2	1.00	7	<10	80	<0.5	<2	0.04	<0.5	3	10	19	2.03
839565		0.34	0.004	<0.2	0.74	10	<10	60	<0.5	<2	0.03	<0.5	2	14	16	4.49
839566		0.30	0.003	0.3	2.09	8	<10	60	<0.5	<2	0.04	<0.5	4	20	29	5.57
839567		0.38	0.003	0.2	2.01	13	<10	80	<0.5	<2	0.04	<0.5	8	21	43	4.97
839568		0.36	0.003	0.3	0.90	7	<10	200	<0.5	<2	0.06	<0.5	3	12	20	2.35
839569		0.32	0.002	0.4	1.22	9	<10	140	<0.5	<2	0.05	<0.5	4	16	20	3.80
839570		0.66	<0.001	<0.2	1.99	7	<10	140	<0.5	<2	0.72	<0.5	14	34	48	3.83
839571		0.28	0.005	0.6	2.03	30	<10	140	<0.5	2	0.05	<0.5	6	26	31	7.06
839572		0.32	0.001	0.6	1.11	17	<10	70	<0.5	<2	0.08	<0.5	3	16	26	4.88
839573		0.34	0.001	0.8	1.02	26	<10	30	<0.5	<2	0.07	<0.5	5	22	27	5.97
839574		0.32	0.001	2.2	1.38	21	<10	60	<0.5	<2	0.18	<0.5	9	13	70	4.24
839575		0.36	0.001	0.5	1.58	32	<10	190	<0.5	<2	0.12	<0.5	18	21	102	7.07
839576		0.40	0.013	0.2	1.87	28	<10	250	<0.5	<2	1.34	0.7	18	22	97	3.85
839577		0.40	0.004	0.4	1.73	26	<10	170	<0.5	2	0.50	0.6	15	20	45	4.00
839578		0.38	0.016	<0.2	0.48	26	<10	40	<0.5	<2	0.11	<0.5	6	10	49	2.20
839579		0.38	0.005	0.3	1.80	50	<10	210	<0.5	<2	0.50	<0.5	22	32	97	5.00
839580		0.38	0.003	0.3	2.00	20	<10	240	<0.5	<2	0.06	<0.5	8	17	70	4.09



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		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
839541		10	<1	0.06	10	0.42	410	2	0.01	9	680	9	0.05	<2	2	10
839542		10	<1	0.10	10	0.67	650	1	0.02	23	690	8	0.04	<2	4	10
839543		10	<1	0.09	10	0.93	1385	1	0.01	15	630	8	0.05	<2	2	19
839544		10	<1	0.10	10	0.46	3210	2	0.01	10	1570	10	0.10	<2	1	14
839545		10	<1	0.09	20	0.29	392	3	0.01	12	1240	16	0.10	<2	3	8
839546		10	<1	0.07	10	0.47	1135	1	0.01	10	940	8	0.06	<2	1	8
839547		10	1	0.05	10	0.22	376	3	0.01	9	970	9	0.08	<2	1	9
839548		30	<1	0.05	20	0.19	463	6	0.01	8	960	14	0.07	<2	2	6
839549		20	<1	0.06	10	0.14	287	4	0.01	5	820	13	0.11	<2	1	6
839550		10	<1	0.23	10	1.06	965	<1	0.03	35	1210	8	0.02	<2	6	43
839551		40	<1	0.06	30	0.13	372	7	0.02	5	780	13	0.07	2	1	7
839552		20	<1	0.03	10	0.41	772	3	0.01	11	830	15	0.08	<2	2	6
839553		10	<1	0.06	10	3.54	1450	3	<0.01	11	840	257	0.06	<2	2	6
839554		10	<1	0.05	10	0.51	5090	3	0.01	20	1360	33	0.07	<2	3	8
839555		20	<1	0.05	10	0.37	2180	4	0.01	11	730	45	0.08	<2	2	5
839556		10	<1	0.06	10	0.23	144	2	0.01	6	570	9	0.04	<2	1	8
839557		10	1	0.04	10	0.22	125	2	0.01	7	350	8	0.04	<2	3	6
839558		10	1	0.07	10	0.53	264	2	0.01	15	610	7	0.04	<2	3	8
839559		10	<1	0.07	10	0.58	954	4	0.01	17	670	7	0.05	<2	6	10
839560		10	<1	0.02	10	0.03	50	3	0.01	5	390	5	0.04	<2	1	6
839561		10	<1	0.03	10	0.03	53	3	0.01	4	430	3	0.04	<2	1	7
839562		10	1	0.02	10	0.21	175	1	0.01	5	740	7	0.06	<2	2	5
839563		10	<1	0.03	10	0.17	187	3	0.01	5	840	6	0.07	<2	2	5
839564		10	<1	0.04	10	0.09	113	2	0.01	6	480	5	0.03	<2	1	8
839565		20	<1	0.05	30	0.04	253	7	0.01	6	2310	12	0.04	<2	1	7
839566		10	<1	0.03	10	0.20	252	4	0.01	6	910	8	0.08	<2	1	6
839567		10	<1	0.04	10	0.41	850	3	0.01	10	1610	7	0.10	<2	1	5
839568		10	<1	0.05	10	0.20	530	2	0.01	5	950	4	0.05	<2	<1	9
839569		10	<1	0.05	10	0.26	719	1	0.01	7	1610	4	0.05	<2	1	7
839570		10	<1	0.22	10	1.05	927	<1	0.03	34	1220	8	0.02	2	6	42
839571		10	<1	0.05	10	0.55	324	2	0.01	14	2180	10	0.04	<2	3	8
839572		10	<1	0.05	10	0.17	470	3	0.01	15	1150	11	0.10	<2	1	9
839573		10	<1	0.05	10	0.50	566	4	0.01	6	2850	25	0.07	<2	1	6
839574		10	<1	0.07	10	1.41	2090	5	0.01	9	1620	46	0.07	<2	3	7
839575		10	1	0.04	10	1.38	7040	9	0.01	10	840	43	0.08	2	2	7
839576		<10	<1	0.06	10	2.32	1985	2	0.02	20	820	20	0.09	<2	5	27
839577		10	1	0.07	10	1.65	2290	4	0.01	15	940	26	0.06	<2	2	14
839578		10	<1	0.05	10	0.14	238	11	0.01	9	400	12	0.05	2	1	9
839579		<10	<1	0.09	10	1.09	2260	3	0.01	34	1010	12	0.09	<2	4	20
839580		10	<1	0.09	10	0.65	549	2	0.01	16	900	9	0.06	<2	1	9



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		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
839541		<20	0.07	<10	<10	85	<10	44
839542		<20	0.01	<10	<10	48	<10	70
839543		<20	0.04	<10	<10	62	<10	73
839544		<20	0.04	<10	<10	66	<10	76
839545		<20	0.15	<10	<10	75	<10	58
839546		<20	0.04	<10	<10	63	<10	59
839547		<20	0.10	<10	<10	93	<10	34
839548		<20	0.22	<10	<10	98	<10	49
839549		<20	0.33	<10	<10	105	<10	40
839550		<20	0.13	<10	<10	73	<10	93
839551		<20	0.32	<10	<10	80	<10	60
839552		<20	0.10	<10	<10	77	<10	38
839553		<20	0.10	<10	<10	103	<10	715
839554		<20	0.04	<10	<10	81	<10	210
839555		<20	0.28	<10	<10	117	<10	145
839556		<20	0.02	<10	<10	41	<10	26
839557		<20	0.08	<10	<10	100	<10	24
839558		<20	0.02	<10	<10	56	<10	52
839559		<20	0.02	<10	<10	51	<10	65
839560		<20	0.13	<10	<10	71	<10	10
839561		<20	0.12	<10	<10	74	<10	11
839562		<20	0.06	<10	<10	93	<10	19
839563		<20	0.06	<10	<10	68	<10	20
839564		<20	0.09	<10	<10	79	<10	16
839565		<20	0.53	<10	<10	114	<10	51
839566		<20	0.06	<10	<10	75	<10	25
839567		<20	0.03	<10	<10	55	<10	35
839568		<20	0.03	<10	<10	59	<10	22
839569		<20	0.03	<10	<10	71	<10	32
839570		<20	0.12	<10	<10	75	<10	91
839571		<20	0.06	<10	<10	116	<10	39
839572		<20	0.07	<10	<10	79	<10	35
839573		<20	0.10	<10	<10	137	<10	32
839574		<20	0.15	<10	<10	92	<10	82
839575		<20	0.21	<10	<10	119	<10	86
839576		<20	0.04	<10	<10	54	<10	145
839577		<20	0.03	<10	<10	65	<10	157
839578		<20	0.07	<10	<10	95	<10	46
839579		<20	0.04	<10	<10	60	<10	106
839580		<20	0.01	<10	<10	48	<10	66



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Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
LOR		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
839581		0.44	0.052	0.4	2.09	22	<10	240	<0.5	<2	0.06	<0.5	8	17	75	4.26
839582		0.38	0.046	0.2	1.65	13	<10	140	<0.5	<2	0.05	<0.5	5	15	30	3.28
839583		0.40	0.008	0.6	2.49	18	<10	220	<0.5	<2	0.04	<0.5	6	17	61	4.98
839584		0.40	0.003	0.2	2.08	6	<10	330	0.6	2	0.34	<0.5	34	30	61	4.82
839585		0.44	0.007	<0.2	2.96	10	<10	150	<0.5	<2	0.13	<0.5	19	20	173	5.22
839586		0.40	0.003	<0.2	3.09	7	<10	140	<0.5	<2	0.08	<0.5	15	19	60	4.19
839587		0.36	0.007	0.9	2.84	9	<10	210	0.5	3	0.15	<0.5	27	21	32	5.15
839588		0.36	0.001	0.2	2.02	7	<10	100	<0.5	<2	0.06	<0.5	14	17	29	4.62
839589		0.32	<0.001	0.3	2.12	14	<10	150	<0.5	<2	0.05	<0.5	11	15	36	4.05
839590		0.24	0.001	<0.2	2.14	8	<10	150	<0.5	<2	0.72	<0.5	15	38	50	3.95
839591		0.34	0.006	0.2	2.31	8	<10	210	<0.5	<2	0.18	<0.5	15	21	61	4.04
839592		0.32	0.006	0.4	3.06	8	<10	160	0.5	<2	0.18	<0.5	11	14	70	2.88
839593		0.36	0.005	0.5	1.24	13	<10	80	<0.5	<2	0.06	<0.5	3	15	45	4.18
839594		0.46	0.014	<0.2	2.89	10	<10	200	0.6	<2	0.23	<0.5	17	22	90	4.19
839595		0.46	0.012	0.2	2.01	7	<10	190	<0.5	<2	0.12	<0.5	15	26	69	4.03
839596		0.38	0.008	0.2	1.39	8	<10	140	<0.5	<2	0.09	<0.5	11	14	22	4.58
839597		0.32	0.005	0.6	2.92	10	<10	130	1.7	<2	0.07	<0.5	12	15	43	6.37
839598		0.30	0.010	0.3	2.01	8	<10	100	<0.5	<2	0.16	<0.5	7	16	36	4.88
839599		0.34	0.004	0.2	2.89	19	<10	70	<0.5	<2	0.05	<0.5	6	18	54	4.64
839600		0.38	0.007	0.3	1.60	19	<10	90	<0.5	<2	0.13	<0.5	7	15	43	4.21
839701		0.34	0.007	0.4	1.72	21	<10	90	<0.5	<2	0.13	<0.5	7	16	48	4.49
839702		0.32	0.002	<0.2	1.33	19	<10	150	<0.5	<2	0.08	<0.5	5	14	31	3.98
839703		0.32	0.012	0.2	1.43	21	<10	140	<0.5	<2	0.07	<0.5	6	17	45	4.53
839704		0.38	0.006	0.4	3.00	21	<10	370	0.7	<2	0.15	<0.5	14	24	93	4.14
839705		0.34	0.002	0.4	1.40	12	<10	80	<0.5	<2	0.07	<0.5	7	16	32	4.37
839706		0.32	0.017	0.5	1.12	16	<10	120	<0.5	<2	0.05	<0.5	6	13	21	4.51
839707		0.28	<0.001	0.7	1.83	12	<10	420	0.6	<2	0.19	<0.5	3	14	31	7.13
839708		0.36	0.004	0.3	1.66	39	<10	110	<0.5	<2	0.11	<0.5	8	19	38	4.70
839709		0.28	0.005	0.5	1.43	15	<10	110	<0.5	<2	0.06	<0.5	6	13	21	3.32
839710		0.30	NSS	<0.2	2.11	7	<10	150	<0.5	<2	0.76	<0.5	16	35	50	3.83
839711		0.30	0.004	0.6	0.86	12	<10	70	<0.5	<2	0.07	<0.5	3	9	16	2.81
839712		0.50	0.007	0.2	2.30	22	<10	140	<0.5	<2	0.09	<0.5	13	20	64	3.98
839713		0.34	0.007	0.2	1.86	23	<10	200	0.5	<2	0.45	<0.5	12	16	43	4.36
839714		0.30	<0.001	0.2	1.46	31	<10	220	0.6	<2	0.93	1.1	14	14	31	6.17
839715		0.30	0.014	<0.2	0.88	9	<10	60	<0.5	<2	0.10	<0.5	4	12	24	3.48
839716		0.34	0.006	0.2	1.95	18	<10	150	<0.5	<2	0.33	<0.5	9	16	39	4.24
839717		0.28	0.006	0.2	1.78	26	<10	140	<0.5	<2	0.05	<0.5	5	36	32	5.96
839718		0.36	0.004	0.4	0.95	26	<10	190	<0.5	<2	0.04	<0.5	3	13	25	5.91
839719		0.34	0.002	0.3	1.40	7	<10	60	<0.5	<2	0.04	<0.5	3	17	18	4.62
839720		0.28	0.002	0.4	1.61	19	<10	300	<0.5	<2	0.12	<0.5	8	100	40	6.78



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
839581		10	<1	0.10	10	0.67	554	2	0.01	17	930	11	0.06	2	2	9
839582		10	1	0.07	10	0.37	354	2	0.01	9	810	5	0.07	<2	1	7
839583		10	1	0.10	10	0.46	245	2	0.01	13	730	6	0.07	2	2	7
839584		10	<1	0.11	10	0.59	5350	2	0.02	15	2170	7	0.18	<2	1	21
839585		10	<1	0.12	10	0.82	1530	2	0.02	13	1940	8	0.06	<2	6	12
839586		10	<1	0.10	10	0.60	886	2	0.01	10	740	5	0.09	<2	2	10
839587		10	<1	0.08	10	0.39	2570	2	0.02	10	1200	8	0.12	<2	2	10
839588		10	1	0.07	10	0.21	1790	2	0.01	8	1060	7	0.12	<2	2	7
839589		10	<1	0.10	10	0.40	1145	2	0.02	10	970	7	0.09	<2	2	9
839590		10	<1	0.23	10	1.13	1000	1	0.03	38	1190	8	0.03	<2	6	44
839591		10	<1	0.12	10	0.69	1605	1	0.01	12	980	7	0.11	<2	2	15
839592		<10	<1	0.08	10	0.37	1270	2	0.03	10	2100	5	0.17	<2	1	13
839593		10	1	0.06	10	0.13	127	3	0.01	6	3510	7	0.13	<2	1	7
839594		10	<1	0.11	10	0.89	2870	2	0.02	15	1170	7	0.07	<2	3	16
839595		10	<1	0.10	10	0.72	2610	1	0.01	12	1140	7	0.10	<2	1	13
839596		10	<1	0.08	10	0.28	2860	3	0.01	6	1430	27	0.10	2	1	11
839597		30	<1	0.07	30	0.22	1085	6	0.03	7	780	17	0.10	<2	3	7
839598		10	<1	0.07	10	0.41	356	2	0.01	7	610	3	0.07	<2	2	11
839599		10	<1	0.05	10	0.47	288	2	0.01	9	450	5	0.04	<2	4	8
839600		10	<1	0.05	10	0.43	340	1	0.01	9	890	6	0.07	<2	1	12
839701		10	1	0.05	10	0.43	356	1	0.01	9	1010	6	0.08	<2	1	12
839702		10	<1	0.07	10	0.30	234	2	0.01	9	790	8	0.04	<2	2	10
839703		10	<1	0.07	10	0.32	342	1	0.01	14	800	8	0.06	<2	1	9
839704		10	<1	0.12	10	0.73	783	1	0.02	23	1010	5	0.08	<2	7	15
839705		10	<1	0.08	10	0.35	494	1	0.01	11	1160	7	0.10	<2	1	9
839706		10	<1	0.06	10	0.16	736	2	0.01	8	1150	8	0.10	<2	1	7
839707		30	<1	0.08	20	0.16	504	6	0.02	6	1300	14	0.12	<2	2	17
839708		10	<1	0.07	10	0.20	558	3	0.01	13	900	8	0.11	<2	2	9
839709		10	<1	0.08	10	0.44	403	2	0.01	8	720	10	0.06	<2	1	9
839710		10	<1	0.23	10	1.11	1005	<1	0.03	36	1230	7	0.03	<2	6	46
839711		10	<1	0.04	10	0.09	82	2	0.01	12	740	4	0.08	<2	1	12
839712		10	<1	0.08	10	0.84	850	1	0.01	20	540	7	0.03	<2	3	11
839713		10	<1	0.08	10	0.84	2030	3	0.01	15	1440	23	0.09	<2	1	15
839714		10	<1	0.07	10	0.67	6310	6	0.01	13	1560	76	0.12	2	1	27
839715		10	<1	0.04	10	0.13	335	40	0.01	9	330	7	0.06	<2	1	10
839716		10	<1	0.05	10	0.93	1895	3	0.01	10	940	12	0.11	<2	2	14
839717		10	1	0.07	10	0.20	279	2	0.01	7	1010	10	0.07	2	3	11
839718		10	<1	0.04	10	0.09	208	4	0.01	5	1650	9	0.11	<2	1	9
839719		10	<1	0.03	10	0.20	189	2	0.01	5	880	6	0.06	<2	1	7
839720		10	<1	0.12	20	0.69	519	1	0.01	27	5440	18	0.10	<2	3	12



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
839581		<20	0.01	<10	<10	48	<10	67
839582		<20	0.04	<10	<10	50	<10	36
839583		<20	0.06	<10	<10	69	<10	51
839584		<20	0.05	<10	<10	94	<10	103
839585		<20	0.12	<10	<10	78	<10	72
839586		<20	0.06	<10	<10	76	<10	69
839587		<20	0.12	<10	<10	83	<10	49
839588		<20	0.20	<10	<10	98	<10	44
839589		<20	0.06	<10	<10	69	<10	51
839590		20	0.12	<10	<10	75	<10	97
839591		<20	0.05	<10	<10	66	<10	68
839592		<20	0.02	<10	<10	43	<10	58
839593		<20	0.04	<10	<10	57	<10	21
839594		<20	0.04	<10	<10	57	<10	91
839595		<20	0.03	<10	<10	69	<10	63
839596		<20	0.09	<10	<10	84	<10	63
839597		<20	0.30	<10	<10	81	<10	63
839598		<20	0.06	<10	<10	74	<10	34
839599		<20	0.04	<10	<10	70	<10	36
839600		<20	0.03	<10	<10	61	<10	36
839701		<20	0.03	<10	<10	63	<10	36
839702		<20	0.08	<10	<10	94	<10	38
839703		<20	0.02	<10	<10	74	<10	42
839704		<20	0.01	<10	<10	53	<10	84
839705		<20	0.05	<10	<10	68	<10	39
839706		<20	0.11	<10	<10	89	<10	39
839707		<20	0.28	<10	<10	81	<10	59
839708		<20	0.12	<10	<10	117	<10	40
839709		<20	0.04	<10	<10	65	<10	51
839710		<20	0.13	<10	<10	74	<10	97
839711		<20	0.06	<10	<10	104	<10	19
839712		<20	0.03	<10	<10	53	<10	69
839713		<20	0.03	<10	<10	62	<10	171
839714		<20	0.09	<10	<10	69	<10	271
839715		<20	0.13	<10	<10	75	<10	37
839716		<20	0.04	<10	<10	57	<10	82
839717		<20	0.27	<10	<10	120	<10	39
839718		<20	0.06	<10	<10	75	<10	18
839719		<20	0.10	<10	<10	99	<10	18
839720		<20	0.26	<10	<10	105	<10	42



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Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
LOR		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
839721		0.36	0.003	0.4	1.69	19	<10	310	<0.5	<2	0.12	<0.5	8	106	38	7.23
839722		0.34	0.004	0.4	1.75	14	<10	100	<0.5	<2	0.07	<0.5	7	10	13	8.30
839723		0.38	0.006	0.6	0.90	69	<10	60	<0.5	<2	0.03	<0.5	5	44	49	4.60
839724		0.24	0.002	1.3	1.81	24	<10	70	0.6	<2	0.03	<0.5	2	16	21	9.99
839725		0.40	0.009	0.2	1.87	31	<10	80	<0.5	<2	0.15	<0.5	8	33	43	8.24
839726		0.36	<0.001	0.5	1.45	7	<10	90	<0.5	<2	0.07	<0.5	3	21	25	6.48
839727		0.34	0.005	0.4	1.09	11	<10	40	<0.5	<2	0.04	<0.5	4	14	17	7.15
839728		0.32	0.003	0.9	0.81	18	<10	90	<0.5	<2	0.08	<0.5	4	17	32	4.14
839729		0.38	0.001	0.6	1.93	32	<10	90	<0.5	<2	0.10	<0.5	8	25	48	5.75
839730		0.34	<0.001	<0.2	2.12	7	<10	160	<0.5	2	0.72	<0.5	17	36	50	3.83
839731		0.50	0.008	0.5	2.06	28	<10	360	<0.5	<2	1.22	0.8	17	22	155	4.02
839732		0.32	0.004	0.2	2.30	32	<10	250	0.6	<2	0.46	0.8	17	21	74	4.38
839733		0.32	0.105	0.4	1.24	31	<10	160	<0.5	<2	0.41	<0.5	10	21	53	4.69
839734		0.36	0.005	0.3	1.87	32	<10	80	<0.5	<2	0.12	<0.5	20	40	94	5.14
839735		0.54	0.025	0.4	1.75	78	<10	130	<0.5	<2	0.18	<0.5	23	22	183	5.04
839736		0.32	0.008	0.3	2.05	10	<10	240	<0.5	<2	0.06	<0.5	10	14	20	3.22
839737		0.44	0.007	<0.2	2.63	9	<10	150	<0.5	<2	0.06	<0.5	16	18	91	3.98
839738		0.44	0.067	0.2	1.91	20	<10	200	<0.5	<2	0.08	<0.5	13	16	73	3.96
839739		0.28	<0.001	0.8	3.48	9	<10	120	1.4	<2	0.07	<0.5	4	11	22	4.92
839740		0.30	0.016	0.6	2.02	11	<10	210	<0.5	<2	0.05	<0.5	15	12	27	3.39
839741		0.32	0.003	0.5	1.83	11	<10	200	<0.5	<2	0.04	<0.5	13	11	24	3.16
839742		0.30	0.011	0.3	2.08	12	<10	140	<0.5	<2	0.03	<0.5	11	14	18	3.78
839743		0.34	0.004	<0.2	2.21	11	<10	130	<0.5	<2	0.07	<0.5	8	19	33	4.37
839744		0.36	0.003	0.5	1.86	19	<10	140	<0.5	<2	0.05	<0.5	5	16	29	4.71
839745		0.36	0.038	<0.2	2.37	16	<10	160	<0.5	<2	0.12	<0.5	12	20	56	4.03
839746		0.36	0.006	<0.2	1.44	5	<10	120	<0.5	<2	0.14	<0.5	5	13	15	2.46
839747		0.32	0.004	<0.2	1.26	11	<10	90	<0.5	<2	0.05	<0.5	4	12	21	3.06
839748		0.40	0.008	<0.2	2.36	17	<10	220	<0.5	<2	0.07	<0.5	11	23	64	4.03
839749		0.34	0.003	0.2	1.94	9	<10	240	<0.5	<2	0.17	<0.5	14	18	43	3.87
839750		0.32	<0.001	<0.2	1.99	8	<10	140	<0.5	<2	0.66	<0.5	14	35	48	3.64
839751		0.32	0.007	0.8	2.09	9	<10	120	0.9	<2	0.07	<0.5	16	15	53	3.91
839752		0.36	0.013	0.3	2.25	10	<10	70	0.5	<2	0.05	<0.5	7	16	34	5.08
839753		0.28	0.001	0.3	1.74	8	<10	80	0.6	<2	0.05	<0.5	6	11	16	3.30
839754		0.34	0.005	0.3	1.47	20	<10	510	<0.5	<2	0.04	<0.5	7	14	38	3.52
839755		0.36	0.002	0.2	1.98	8	<10	160	<0.5	<2	0.16	<0.5	13	19	38	3.93
839756		0.30	0.004	0.3	1.26	15	<10	140	<0.5	<2	0.14	<0.5	6	12	22	3.87
839757		0.42	0.006	0.3	1.89	21	<10	220	<0.5	<2	0.04	<0.5	9	18	39	3.67
839758		0.30	0.004	0.2	1.11	12	<10	130	<0.5	<2	0.06	<0.5	4	12	28	4.31
839759		0.30	<0.001	0.4	1.42	16	<10	120	<0.5	<2	0.08	<0.5	5	13	21	4.08
839760		0.30	0.007	0.4	1.44	16	<10	90	<0.5	<2	0.05	<0.5	8	14	33	3.62



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
839721		10	<1	0.13	20	0.70	531	1	0.01	26	6170	19	0.10	2	3	12
839722		10	<1	0.07	10	0.42	802	1	0.01	7	1330	14	0.12	2	2	7
839723		10	<1	0.05	10	0.26	175	3	0.01	26	1610	10	0.07	3	1	8
839724		50	<1	0.07	30	0.08	407	7	0.03	4	1320	19	0.07	3	1	4
839725		10	1	0.03	10	0.52	498	3	0.01	17	2250	14	0.07	<2	2	14
839726		10	<1	0.06	10	0.19	212	2	0.01	8	5690	6	0.08	<2	1	10
839727		20	<1	0.04	10	0.32	293	3	0.01	10	2030	7	0.11	<2	1	7
839728		10	<1	0.05	10	0.23	388	2	0.01	10	2130	18	0.12	<2	1	9
839729		10	<1	0.13	10	1.46	1200	4	0.01	13	1160	22	0.06	<2	3	11
839730		10	<1	0.23	10	1.13	1010	1	0.03	37	1220	8	0.03	<2	6	45
839731		10	<1	0.07	10	2.99	1835	2	0.01	26	790	30	0.12	2	6	28
839732		<10	1	0.07	10	2.31	8020	4	0.01	21	1710	34	0.10	<2	4	14
839733		10	<1	0.07	10	0.45	625	2	0.01	15	940	8	0.09	<2	2	15
839734		10	<1	0.08	10	0.93	1260	2	0.01	33	1040	8	0.07	<2	4	12
839735		<10	<1	0.05	10	0.97	1630	4	0.01	32	1010	10	0.09	<2	5	13
839736		10	<1	0.10	10	0.44	1275	3	0.01	10	790	7	0.09	<2	1	8
839737		10	<1	0.09	10	0.74	1135	2	0.01	11	620	6	0.07	<2	2	8
839738		10	<1	0.08	10	0.82	1360	2	0.01	14	950	7	0.06	<2	1	9
839739		20	<1	0.05	20	0.20	464	3	0.03	6	850	13	0.11	<2	1	5
839740		10	<1	0.11	10	0.35	2460	2	0.01	9	1040	9	0.11	<2	1	8
839741		10	<1	0.10	10	0.33	2210	2	0.01	9	990	6	0.10	<2	1	7
839742		10	<1	0.09	10	0.31	1380	2	0.01	7	580	7	0.06	<2	1	7
839743		10	<1	0.09	10	0.56	676	2	0.02	9	850	7	0.06	<2	2	10
839744		10	<1	0.08	10	0.27	337	2	0.01	10	800	7	0.09	<2	1	8
839745		10	<1	0.09	10	0.69	748	1	0.02	12	450	6	0.06	<2	4	12
839746		10	<1	0.08	10	0.30	427	1	0.01	5	830	5	0.09	<2	1	11
839747		10	<1	0.07	10	0.26	279	1	0.01	6	720	4	0.05	<2	1	7
839748		10	<1	0.10	10	0.76	1060	1	0.01	18	710	8	0.05	<2	3	10
839749		10	<1	0.09	10	0.70	1540	1	0.01	10	710	6	0.07	<2	1	15
839750		10	<1	0.22	10	1.04	941	1	0.02	37	1150	8	0.02	<2	6	42
839751		10	<1	0.06	20	0.34	1495	3	0.02	9	820	6	0.10	<2	1	8
839752		20	<1	0.07	10	0.37	461	3	0.01	8	580	6	0.09	<2	2	7
839753		10	<1	0.07	10	0.22	661	2	0.01	6	930	5	0.11	<2	1	7
839754		10	<1	0.11	10	0.38	647	2	<0.01	13	1270	4	0.06	<2	<1	9
839755		10	<1	0.08	10	0.56	1335	1	0.01	10	900	4	0.09	<2	2	14
839756		10	<1	0.06	10	0.17	376	2	0.01	8	890	7	0.07	<2	1	15
839757		10	<1	0.10	10	0.44	810	1	0.01	15	830	2	0.06	<2	1	8
839758		20	<1	0.05	20	0.11	375	4	0.01	7	820	8	0.09	<2	1	11
839759		10	<1	0.06	10	0.20	537	1	<0.01	8	900	4	0.08	<2	1	10
839760		10	<1	0.05	10	0.15	390	2	<0.01	8	880	4	0.09	<2	2	7



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
839721		<20	0.27	<10	<10	106	<10	43
839722		<20	0.05	<10	<10	101	<10	35
839723		<20	0.01	<10	<10	56	<10	39
839724		<20	0.34	<10	<10	85	<10	64
839725		<20	0.04	<10	<10	68	<10	52
839726		<20	0.06	<10	<10	105	<10	21
839727		<20	0.12	<10	<10	89	<10	33
839728		<20	0.06	<10	<10	73	<10	33
839729		<20	0.08	<10	<10	124	<10	66
839730		<20	0.13	<10	<10	73	<10	97
839731		<20	0.03	<10	<10	54	<10	182
839732		<20	0.02	<10	<10	56	<10	193
839733		<20	0.08	<10	<10	85	<10	47
839734		<20	0.05	<10	<10	86	<10	77
839735		<20	0.03	<10	<10	53	<10	73
839736		<20	0.04	<10	<10	63	<10	77
839737		<20	0.03	<10	<10	59	<10	57
839738		<20	0.02	<10	<10	52	<10	66
839739		<20	0.06	<10	<10	31	<10	61
839740		<20	0.03	<10	<10	58	<10	49
839741		<20	0.03	<10	<10	55	<10	46
839742		<20	0.06	<10	<10	63	<10	37
839743		<20	0.09	<10	<10	69	<10	49
839744		<20	0.05	<10	<10	70	<10	37
839745		<20	0.10	<10	<10	67	<10	56
839746		<20	0.06	<10	<10	60	<10	32
839747		<20	0.02	<10	<10	59	<10	26
839748		<20	0.02	<10	<10	61	<10	81
839749		<20	0.03	<10	<10	65	<10	56
839750		<20	0.12	<10	<10	70	<10	92
839751		<20	0.07	<10	<10	57	<10	42
839752		<20	0.18	<10	<10	79	<10	42
839753		<20	0.11	<10	<10	54	<10	34
839754		<20	0.01	<10	<10	52	<10	51
839755		<20	0.06	<10	<10	69	<10	56
839756		<20	0.09	<10	<10	77	<10	30
839757		<20	0.01	<10	<10	49	<10	60
839758		<20	0.19	<10	<10	73	<10	37
839759		<20	0.05	<10	<10	67	<10	40
839760		<20	0.11	<10	<10	71	<10	30



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
839761		0.34	0.007	0.4	1.47	16	<10	90	<0.5	<2	0.05	<0.5	8	13	34	3.58
839762		0.38	0.002	0.7	1.19	21	<10	120	<0.5	<2	0.05	<0.5	6	13	24	3.22
839763		0.36	0.009	0.6	2.02	15	<10	100	<0.5	<2	0.06	<0.5	8	15	40	4.04
839764		0.32	0.004	0.6	1.16	15	<10	110	<0.5	<2	0.09	<0.5	4	14	28	4.44
839765		0.44	0.012	0.5	3.68	25	<10	170	0.5	<2	0.09	<0.5	13	19	84	3.39
839766		0.32	0.007	1.0	1.48	26	<10	160	<0.5	<2	0.18	<0.5	9	16	29	5.41
839767		0.28	0.004	0.4	1.61	17	<10	70	0.6	<2	0.08	<0.5	5	13	20	7.19
839768		0.38	0.006	0.2	1.62	11	<10	220	<0.5	<2	0.14	<0.5	8	17	41	3.49
839769		0.28	0.005	<0.2	5.09	21	10	110	0.6	<2	0.14	<0.5	18	16	92	4.00
839770		0.34	<0.001	<0.2	1.91	9	<10	140	<0.5	<2	0.68	<0.5	14	32	46	3.67
839771		0.44	0.005	0.3	2.03	18	<10	350	0.7	<2	1.09	<0.5	10	14	46	8.86
839772		0.28	0.003	0.3	2.79	16	<10	120	<0.5	<2	0.07	<0.5	9	23	35	4.88



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		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	
839761		10	<1	0.06	10	0.16	379	2	0.01	9	910	5	0.09	<2	2	7
839762		10	<1	0.08	10	0.19	1200	2	0.01	8	990	6	0.06	<2	1	8
839763		10	<1	0.08	10	0.66	436	1	0.01	10	610	4	0.06	<2	2	8
839764		10	<1	0.06	10	0.16	210	2	<0.01	8	820	4	0.05	<2	2	8
839765		<10	<1	0.07	10	0.63	1075	1	0.01	19	820	6	0.04	<2	4	9
839766		10	<1	0.09	10	0.26	1275	2	0.01	12	1570	9	0.10	<2	1	17
839767		40	<1	0.07	30	0.12	822	7	0.01	7	1020	13	0.10	<2	1	8
839768		10	<1	0.09	10	0.41	1025	1	0.01	9	1210	5	0.09	<2	1	16
839769		10	<1	0.08	10	3.93	2420	1	<0.01	17	730	10	0.07	<2	5	7
839770		10	<1	0.21	10	1.01	895	<1	0.03	34	1150	5	0.02	<2	5	42
839771		<10	<1	0.05	10	1.71	9830	3	<0.01	15	760	14	0.09	3	6	16
839772		10	<1	0.06	10	0.79	937	1	0.01	12	390	18	0.03	2	4	11



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CERTIFICATE OF ANALYSIS VA17154250

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
839761		<20	0.10	<10	<10	72	<10	30
839762		<20	0.09	<10	<10	73	<10	42
839763		<20	0.07	<10	<10	60	<10	45
839764		<20	0.19	<10	<10	113	<10	27
839765		<20	0.03	<10	<10	42	<10	70
839766		<20	0.15	<10	<10	111	<10	67
839767		<20	0.30	<10	<10	88	<10	71
839768		<20	0.03	<10	<10	52	<10	51
839769		<20	0.02	<10	<10	64	<10	94
839770		<20	0.12	<10	<10	71	<10	87
839771		<20	0.02	<10	<10	45	<10	88
839772		<20	0.05	<10	<10	79	<10	62



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CERTIFICATE OF ANALYSIS VA17154250

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: NSS is non-sufficient sample.
ALL METHODS

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-ICP21 LOG-22 ME-ICP41 SCR-41
WEI-21



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CERTIFICATE TR17171785

Project: Forrest Kerr

This report is for 192 Drill Core samples submitted to our lab in Terrace, BC, Canada on 11-AUG-2017.

The following have access to data associated with this certificate:

CORNELL MCDOWELL		
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
LOG-24	Pulp Login - Rcd w/o Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Zn-OG46	Ore Grade Zn - Aqua Regia	ICP-AES
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: **ABEN 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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Project: Forrest Kerr

CERTIFICATE OF ANALYSIS TR17171785

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
LOR		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
S835501		0.05	0.291	2.0	1.77	28	<10	70	<0.5	2	0.78	3.8	11	26	2320	4.75
S835502		2.12	0.002	<0.2	0.55	3	10	2930	0.6	<2	5.05	0.5	13	3	38	4.32
S835503		2.00	<0.001	<0.2	0.60	3	10	610	0.7	<2	7.6	0.5	15	3	19	5.30
S835504		2.58	0.001	<0.2	0.56	15	10	860	0.7	<2	6.59	<0.5	13	2	59	4.33
S835505		2.33	<0.001	<0.2	0.62	11	10	1030	0.8	<2	5.85	<0.5	13	2	42	4.42
S835506		1.77	<0.001	<0.2	0.56	12	10	820	1.0	<2	4.21	<0.5	10	2	46	3.78
S835507		2.47	0.001	<0.2	0.53	<2	10	2940	0.9	<2	3.22	<0.5	9	2	19	2.96
S835508		2.25	0.002	0.5	0.56	26	10	70	0.9	<2	4.78	0.7	26	2	62	3.70
S835509		2.40	<0.001	<0.2	0.64	15	10	1520	0.8	<2	1.88	<0.5	11	1	37	4.32
S835510		2.16	<0.001	0.2	0.35	240	10	30	<0.5	<2	0.27	<0.5	3	10	21	2.21
S835511		1.29	0.001	<0.2	0.45	56	10	70	0.6	<2	0.51	<0.5	4	8	14	2.10
S835512		1.99	0.003	<0.2	0.59	21	10	130	1.1	<2	1.68	<0.5	12	2	27	3.58
S835513		2.39	0.069	0.3	0.54	23	10	40	0.8	<2	1.70	2.8	9	2	38	3.16
S835514		2.19	0.125	0.5	0.48	19	10	240	0.5	<2	1.98	2.7	7	3	26	2.81
S835515		2.00	0.010	0.4	0.37	17	10	290	0.5	<2	3.12	10.8	7	4	12	2.92
S835516		1.47	<0.001	<0.2	0.53	<2	<10	70	<0.5	2	0.48	<0.5	3	10	4	1.53
S835517		2.27	0.004	0.2	0.37	12	10	1070	<0.5	<2	2.07	<0.5	6	6	21	2.73
S835518		2.22	0.074	0.3	0.36	21	10	640	0.5	<2	1.67	14.0	6	3	51	2.75
S835519		1.47	0.189	0.4	0.37	28	10	590	0.6	2	1.40	6.4	7	2	75	2.72
S835520		1.37	0.089	0.4	0.36	24	10	620	0.6	<2	1.42	10.1	6	3	61	2.76
S835521		2.07	0.163	0.2	0.37	8	10	1440	0.6	<2	2.27	2.7	6	1	22	2.73
S835522		2.13	0.137	0.2	0.33	14	10	750	0.5	<2	2.33	4.2	7	2	20	2.80
S835523		2.45	0.007	<0.2	0.36	5	10	700	0.5	2	1.91	1.9	6	3	12	2.57
S835524		2.44	0.022	0.2	0.36	7	10	1160	0.6	<2	2.23	3.6	6	4	12	2.58
S835525		2.18	0.013	0.4	0.32	5	10	230	<0.5	<2	1.97	9.2	6	4	7	3.03
S835526		2.60	0.167	0.4	0.33	9	10	230	<0.5	<2	1.81	9.0	7	3	10	3.28
S835527		2.32	0.034	0.2	0.36	7	10	770	<0.5	<2	1.46	2.3	6	3	7	2.81
S835528		2.48	0.195	0.6	0.36	35	10	210	0.5	<2	2.16	21.3	8	2	64	3.23
S835529		1.97	0.014	<0.2	0.37	10	10	1070	<0.5	<2	1.80	2.6	5	2	13	3.05
S835530		1.29	<0.001	<0.2	0.59	<2	<10	90	<0.5	<2	0.63	<0.5	3	11	5	1.85
S835531		2.37	0.010	<0.2	0.36	9	10	620	0.5	<2	0.97	2.3	6	2	10	2.73
S835532		2.37	0.034	0.2	0.33	14	10	540	0.5	<2	1.20	5.2	6	2	10	2.87
S835533		2.28	1.490	0.7	0.34	48	10	350	0.5	2	1.83	52.8	6	3	82	2.95
S835534		2.31	0.023	<0.2	0.39	12	10	470	0.6	<2	0.90	1.1	7	3	9	2.86
S835535		2.58	0.036	<0.2	0.38	13	10	460	<0.5	2	1.03	1.0	7	3	2	3.14
S835536		2.05	0.019	<0.2	0.33	9	10	760	<0.5	2	0.88	1.0	7	3	6	2.81
S835537		2.59	0.062	1.0	0.36	31	10	80	0.5	<2	0.79	16.7	7	3	54	2.88
S835538		2.44	0.486	3.4	0.33	146	10	50	<0.5	5	0.60	83.9	8	4	375	2.73
S835539		2.65	0.474	2.5	0.27	241	10	30	<0.5	5	1.16	64.1	6	11	563	2.85
S835540		1.40	<0.001	<0.2	0.54	<2	<10	70	<0.5	<2	0.49	<0.5	2	14	4	1.65



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
S835501		<10	1	0.32	<10	0.53	902	18	0.07	18	680	65	2.92	3	2	62
S835502		<10	1	0.38	10	1.12	1390	<1	0.08	6	1240	6	0.11	3	10	359
S835503		<10	<1	0.41	10	1.25	1865	<1	0.09	11	1280	6	0.02	<2	14	382
S835504		<10	<1	0.39	10	0.97	1830	<1	0.09	10	1390	8	0.07	3	10	364
S835505		<10	<1	0.43	10	0.90	1960	<1	0.10	10	1600	7	0.11	<2	10	344
S835506		<10	<1	0.39	10	0.60	1575	<1	0.10	5	1250	10	0.07	<2	8	270
S835507		<10	<1	0.37	10	0.42	1150	<1	0.09	2	900	6	0.08	<2	6	328
S835508		<10	1	0.37	10	0.37	1840	2	0.09	5	1350	25	0.88	2	6	402
S835509		<10	1	0.42	10	0.66	1250	<1	0.10	3	1460	4	0.11	2	7	113
S835510		<10	2	0.23	<10	0.07	69	11	0.06	1	120	18	2.16	4	1	62
S835511		<10	1	0.30	<10	0.17	342	3	0.07	2	410	12	1.20	<2	2	77
S835512		<10	<1	0.40	<10	0.55	1085	2	0.09	3	1060	8	1.46	3	5	97
S835513		<10	<1	0.37	<10	0.54	1165	1	0.09	2	860	106	1.96	3	4	96
S835514		<10	<1	0.34	10	0.75	2140	1	0.07	<1	780	129	0.67	2	3	130
S835515		<10	1	0.29	10	1.12	2830	3	0.05	1	560	298	0.58	2	4	237
S835516		<10	<1	0.10	10	0.23	369	<1	0.08	1	480	3	0.02	<2	1	40
S835517		<10	<1	0.31	20	0.88	2850	1	0.06	1	740	157	0.20	6	3	203
S835518		<10	1	0.30	20	0.81	2850	1	0.06	1	720	1100	0.38	12	3	164
S835519		<10	1	0.31	10	0.76	2470	1	0.06	1	740	399	0.38	24	3	115
S835520		<10	1	0.30	20	0.77	2450	1	0.06	<1	770	522	0.42	19	3	129
S835521		<10	1	0.31	10	1.08	2770	<1	0.07	1	580	185	0.18	6	3	155
S835522		<10	<1	0.28	10	1.01	2720	1	0.06	1	260	304	0.33	4	4	168
S835523		<10	<1	0.30	10	0.86	2080	<1	0.06	1	470	93	0.07	4	4	138
S835524		<10	1	0.30	10	0.93	2230	<1	0.06	1	720	72	0.19	4	4	147
S835525		<10	1	0.23	10	0.94	2810	1	0.05	1	630	446	0.77	<2	3	131
S835526		<10	1	0.25	10	0.96	2940	1	0.05	1	600	586	0.71	<2	4	175
S835527		<10	1	0.29	20	0.86	2650	1	0.05	1	730	83	0.28	2	3	169
S835528		<10	2	0.28	10	1.10	3040	2	0.05	1	690	613	0.79	5	3	155
S835529		<10	1	0.29	10	1.10	2830	<1	0.05	1	650	17	0.17	2	4	117
S835530		<10	<1	0.09	10	0.30	418	<1	0.08	1	620	3	0.04	<2	2	41
S835531		<10	<1	0.29	10	0.81	2080	<1	0.06	<1	530	113	0.13	<2	3	95
S835532		<10	<1	0.27	10	0.88	2640	<1	0.06	1	420	210	0.21	2	4	77
S835533		<10	4	0.27	10	1.01	2900	1	0.06	1	660	168	0.62	2	3	127
S835534		<10	<1	0.31	20	0.74	2400	1	0.07	1	790	30	0.32	3	3	62
S835535		<10	<1	0.31	20	0.80	2930	<1	0.07	1	820	11	0.51	2	3	79
S835536		<10	1	0.27	10	0.73	2610	<1	0.06	1	580	22	0.27	<2	3	70
S835537		<10	2	0.29	10	0.55	2650	2	0.06	1	520	429	1.32	<2	3	56
S835538		<10	6	0.26	<10	0.22	621	17	0.05	<1	640	707	2.89	2	2	41
S835539		<10	7	0.21	<10	0.40	859	19	0.04	1	420	539	2.86	7	2	73
S835540		<10	<1	0.10	10	0.25	395	<1	0.08	2	500	3	0.03	<2	1	35



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Zn-OG46
		Th	Ti	Ti	U	V	W	Zn	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm	%
		20	0.01	10	10	1	10	2	0.001
S835501		<20	0.03	<10	<10	29	<10	707	
S835502		<20	<0.01	<10	<10	44	<10	74	
S835503		<20	0.01	<10	<10	84	<10	76	
S835504		<20	<0.01	<10	<10	37	<10	68	
S835505		<20	<0.01	<10	<10	43	<10	67	
S835506		<20	<0.01	<10	<10	35	<10	59	
S835507		<20	0.02	<10	<10	50	<10	47	
S835508		<20	0.01	<10	<10	35	<10	73	
S835509		<20	<0.01	<10	<10	29	<10	97	
S835510		<20	<0.01	10	<10	6	<10	7	
S835511		<20	<0.01	<10	<10	9	<10	22	
S835512		<20	<0.01	<10	<10	18	<10	65	
S835513		<20	<0.01	<10	<10	13	<10	310	
S835514		<20	<0.01	<10	<10	10	<10	477	
S835515		<20	<0.01	<10	<10	11	<10	1115	
S835516		<20	0.07	<10	<10	38	<10	34	
S835517		<20	<0.01	<10	<10	8	<10	227	
S835518		<20	<0.01	<10	<10	9	<10	1910	
S835519		<20	<0.01	<10	<10	9	<10	979	
S835520		<20	<0.01	<10	<10	9	<10	1480	
S835521		<20	<0.01	<10	<10	12	<10	580	
S835522		<20	<0.01	<10	<10	11	<10	739	
S835523		<20	<0.01	<10	<10	11	<10	359	
S835524		<20	<0.01	<10	<10	14	<10	612	
S835525		<20	<0.01	<10	<10	13	<10	1290	
S835526		<20	<0.01	<10	<10	14	<10	1230	
S835527		<20	<0.01	<10	<10	10	<10	504	
S835528		<20	<0.01	<10	<10	14	<10	2810	
S835529		<20	<0.01	<10	<10	14	<10	616	
S835530		<20	0.09	<10	<10	46	<10	36	
S835531		<20	<0.01	<10	<10	11	<10	586	
S835532		<20	<0.01	<10	<10	11	<10	921	
S835533		<20	<0.01	<10	<10	11	<10	7240	
S835534		<20	<0.01	<10	<10	11	<10	379	
S835535		<20	<0.01	<10	<10	12	<10	389	
S835536		<20	<0.01	<10	<10	12	<10	325	
S835537		<20	<0.01	<10	<10	11	<10	2410	
S835538		<20	<0.01	<10	<10	8	<10	>10000	1.170
S835539		<20	<0.01	<10	<10	10	<10	>10000	1.000
S835540		<20	0.08	<10	<10	40	<10	48	



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		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
S835541		2.23	0.186	1.2	0.30	190	10	180	0.6	2	1.43	13.1	7	2	412	3.26
S835542		2.32	0.007	0.5	0.27	10	10	330	<0.5	<2	1.18	1.8	8	2	18	3.13
S835543		2.60	0.004	0.5	0.31	12	10	130	0.6	<2	1.06	3.9	8	1	23	2.94
S835544		2.42	0.003	0.5	0.28	9	10	160	0.6	<2	1.16	5.9	7	1	18	3.04
S835545		2.21	0.005	0.5	0.31	11	10	290	0.6	<2	1.43	1.8	8	2	19	3.25
S835546		2.39	<0.001	<0.2	0.26	4	10	1060	0.5	<2	1.38	0.9	6	2	6	3.13
S835547		2.21	0.008	0.6	0.29	9	10	480	0.5	2	1.39	2.4	8	2	17	3.04
S835548		2.04	0.004	0.5	0.28	17	10	450	0.5	<2	1.80	5.9	6	2	36	2.87
S835549		1.42	0.001	0.3	0.28	19	10	660	<0.5	<2	1.26	5.0	7	2	41	3.73
S835550		1.36	0.003	0.4	0.25	19	10	750	<0.5	<2	1.49	5.6	6	3	42	3.64
S835551		2.51	0.007	0.4	0.27	20	<10	600	<0.5	<2	1.04	5.6	6	2	48	3.12
S835552		2.38	0.049	2.1	0.28	29	<10	170	<0.5	<2	0.91	15.4	8	2	65	3.83
S835553		1.91	0.273	1.9	0.31	76	<10	220	0.5	2	1.23	29.3	6	2	169	3.46
S835554		2.19	0.046	2.2	0.31	47	<10	230	<0.5	<2	1.12	10.1	8	2	83	3.27
S835555		2.20	0.028	0.7	0.32	32	<10	380	0.5	2	2.14	6.7	6	2	61	3.74
S835556		2.73	0.079	1.1	0.32	112	<10	100	0.5	3	0.87	15.7	7	2	231	4.23
S835557		2.15	0.018	1.0	0.29	14	<10	200	<0.5	<2	0.97	19.7	8	2	28	3.42
S835558		2.20	0.009	0.6	0.27	86	<10	460	<0.5	<2	0.73	4.8	8	2	186	3.84
S835559		1.62	0.003	0.3	0.29	8	<10	540	<0.5	<2	1.02	6.1	7	2	11	3.20
S835560		1.44	<0.001	<0.2	0.55	<2	<10	60	<0.5	<2	0.56	<0.5	3	5	4	1.82
S835561		1.87	0.023	1.2	0.29	78	<10	190	<0.5	<2	0.70	22.0	8	2	163	3.83
S835562		2.26	0.005	0.5	0.28	34	<10	890	<0.5	<2	0.54	11.8	7	3	76	3.77
S835563		2.42	0.007	0.7	0.31	26	<10	450	<0.5	<2	0.72	9.6	7	2	53	3.29
S835564		2.15	0.003	0.4	0.28	20	<10	360	<0.5	<2	1.27	7.6	7	2	42	3.41
S835565		2.27	0.005	0.3	0.35	13	<10	670	0.6	2	1.13	11.6	6	2	25	3.17
S835566		1.64	0.107	0.8	0.33	33	<10	90	0.6	2	1.10	11.5	8	2	63	4.30
S835567		2.24	0.015	0.6	0.32	12	<10	220	0.5	2	1.18	9.9	6	2	21	3.44
S835568		2.29	0.008	0.8	0.29	30	<10	180	<0.5	<2	0.91	18.2	8	2	74	3.53
S835569		1.32	0.004	0.6	0.32	17	<10	240	0.5	2	1.06	12.5	7	3	36	3.63
S835570		1.33	0.005	0.7	0.27	16	<10	140	<0.5	<2	0.91	17.7	9	2	38	3.82
S835571		2.33	0.003	0.6	0.27	22	<10	380	<0.5	<2	1.38	4.1	8	3	50	3.55
S835572		2.27	0.002	0.3	0.29	8	<10	1170	<0.5	<2	1.84	4.2	6	2	18	2.60
S835573		1.93	<0.001	0.2	0.29	5	<10	1220	<0.5	<2	1.71	2.0	5	3	10	2.69
S835574		2.24	0.002	0.3	0.28	8	<10	920	<0.5	<2	1.98	2.0	7	3	14	2.93
S835575		2.50	<0.001	<0.2	0.31	3	<10	1800	<0.5	<2	1.73	1.1	6	2	4	3.09
S835576		2.44	0.039	1.3	0.29	64	<10	410	<0.5	2	0.61	19.8	7	3	171	3.63
S835577		2.68	0.382	5.4	0.28	774	<10	20	<0.5	12	0.37	44.5	7	4	2630	4.48
S835578		2.55	0.297	3.6	0.36	529	<10	90	0.6	11	0.25	5.0	8	2	1520	4.98
S835579		2.35	0.819	4.0	0.31	495	<10	40	0.5	12	0.21	10.4	7	2	2840	4.76
S835580		1.32	<0.001	<0.2	0.59	<2	<10	150	<0.5	<2	0.60	<0.5	3	6	10	1.71



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
S835541		<10	2	0.25	<10	0.81	1955	3	0.06	1	490	89	1.05	6	4	135
S835542		<10	1	0.23	20	0.83	2580	1	0.06	1	790	131	0.53	<2	4	82
S835543		<10	1	0.25	20	0.76	2980	1	0.07	2	680	182	0.57	2	3	75
S835544		<10	1	0.24	10	0.82	3790	1	0.07	1	310	181	0.39	2	4	75
S835545		<10	<1	0.25	10	0.94	3870	1	0.07	1	630	129	0.36	3	4	139
S835546		<10	<1	0.22	10	0.97	4100	1	0.05	1	730	63	0.11	<2	4	167
S835547		<10	<1	0.24	10	0.88	3570	1	0.05	<1	470	219	0.47	<2	4	140
S835548		<10	1	0.23	20	0.96	3280	1	0.06	<1	730	253	0.43	3	3	164
S835549		<10	1	0.24	20	0.99	4280	1	0.05	1	750	199	0.28	<2	4	121
S835550		<10	1	0.22	10	1.02	4460	1	0.04	1	720	211	0.30	<2	4	122
S835551		<10	1	0.22	<10	0.83	3730	1	0.04	3	270	249	0.24	<2	4	131
S835552		<10	2	0.24	<10	0.88	4520	1	0.04	2	300	374	0.83	<2	3	88
S835553		<10	3	0.26	10	0.84	4350	6	0.05	2	570	321	1.01	<2	3	126
S835554		<10	1	0.26	10	0.77	3390	2	0.05	2	740	308	0.98	<2	3	116
S835555		<10	1	0.26	10	1.18	5140	2	0.05	1	750	163	0.54	<2	3	181
S835556		<10	1	0.27	10	0.76	4140	7	0.05	2	760	189	1.65	<2	3	69
S835557		<10	1	0.25	10	0.70	4220	1	0.04	2	720	806	1.18	<2	3	125
S835558		<10	1	0.24	10	0.74	4180	1	0.04	2	660	304	0.63	<2	3	98
S835559		<10	1	0.25	10	0.77	4630	1	0.04	1	800	253	0.54	<2	4	147
S835560		<10	<1	0.08	10	0.28	430	<1	0.07	1	620	2	0.03	<2	1	33
S835561		<10	3	0.24	10	0.72	4360	2	0.04	2	370	626	1.26	4	3	76
S835562		<10	1	0.24	10	0.83	4860	1	0.03	1	710	452	0.36	<2	3	85
S835563		<10	1	0.26	20	0.78	4840	1	0.04	1	830	399	0.63	<2	4	64
S835564		<10	1	0.24	20	0.91	6050	1	0.04	1	840	356	0.65	<2	4	112
S835565		<10	1	0.28	20	0.77	4940	1	0.05	1	790	414	0.45	<2	4	123
S835566		<10	1	0.26	10	0.86	4950	3	0.04	2	780	222	1.40	<2	3	136
S835567		<10	1	0.25	10	0.76	4430	1	0.04	1	800	371	1.14	<2	3	149
S835568		<10	1	0.24	10	0.70	4260	2	0.04	2	740	600	1.28	6	3	125
S835569		<10	2	0.26	20	0.74	4540	1	0.05	2	810	362	1.06	<2	3	82
S835570		<10	2	0.23	10	0.77	4820	1	0.04	2	810	516	1.15	<2	3	62
S835571		<10	1	0.23	10	0.84	4660	1	0.04	2	800	226	0.79	<2	4	107
S835572		<10	1	0.24	10	0.82	4090	1	0.04	1	540	179	0.31	<2	4	175
S835573		<10	<1	0.24	10	0.84	4150	1	0.04	1	600	40	0.16	<2	4	162
S835574		<10	1	0.23	20	0.90	4330	1	0.04	1	770	115	0.32	<2	4	167
S835575		<10	1	0.25	20	0.92	4840	1	0.04	1	780	21	0.12	<2	4	160
S835576		<10	2	0.25	10	0.67	3800	2	0.03	2	390	401	0.73	13	3	50
S835577		<10	4	0.26	<10	0.33	1185	12	0.03	1	430	177	3.48	391	2	44
S835578		<10	1	0.33	10	0.39	1255	4	0.04	2	720	216	2.90	15	2	19
S835579		<10	2	0.31	10	0.41	1160	10	0.03	1	640	280	2.64	3	1	20
S835580		<10	<1	0.08	10	0.28	402	<1	0.06	2	560	4	0.03	<2	1	46



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Zn-OG46
		Th	Ti	Ti	U	V	W	Zn	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm	%
		20	0.01	10	10	1	10	2	0.001
S835541		<20	<0.01	<10	<10	14	<10	1875	
S835542		<20	<0.01	<10	<10	11	<10	413	
S835543		<20	<0.01	<10	<10	10	<10	688	
S835544		<20	<0.01	<10	<10	12	<10	884	
S835545		<20	<0.01	<10	<10	12	<10	423	
S835546		<20	<0.01	<10	<10	12	<10	324	
S835547		<20	<0.01	<10	<10	12	<10	516	
S835548		<20	<0.01	<10	<10	12	<10	938	
S835549		<20	<0.01	<10	<10	13	<10	919	
S835550		<20	<0.01	<10	<10	13	<10	988	
S835551		<20	<0.01	<10	<10	12	<10	1050	
S835552		<20	<0.01	<10	<10	12	<10	2660	
S835553		<20	<0.01	<10	<10	11	<10	4520	
S835554		<20	<0.01	<10	<10	11	<10	1705	
S835555		<20	<0.01	<10	<10	13	<10	1195	
S835556		<20	<0.01	<10	<10	10	<10	2610	
S835557		<20	<0.01	<10	<10	12	<10	3090	
S835558		<20	<0.01	<10	<10	13	<10	927	
S835559		<20	<0.01	<10	<10	12	<10	1100	
S835560		<20	0.09	<10	<10	47	<10	38	
S835561		<20	<0.01	<10	<10	13	<10	3730	
S835562		<20	<0.01	<10	<10	14	<10	2170	
S835563		<20	<0.01	<10	<10	13	<10	1690	
S835564		<20	<0.01	<10	<10	13	<10	1410	
S835565		<20	<0.01	<10	<10	12	<10	1870	
S835566		<20	<0.01	<10	<10	10	<10	1960	
S835567		<20	<0.01	<10	<10	9	<10	1690	
S835568		<20	<0.01	<10	<10	10	<10	3020	
S835569		<20	<0.01	<10	<10	12	<10	2110	
S835570		<20	<0.01	<10	<10	11	<10	3020	
S835571		<20	<0.01	<10	<10	12	<10	826	
S835572		<20	<0.01	<10	<10	12	<10	805	
S835573		<20	<0.01	<10	<10	12	<10	467	
S835574		<20	<0.01	<10	<10	12	<10	438	
S835575		<20	<0.01	<10	<10	14	<10	345	
S835576		<20	<0.01	<10	<10	11	<10	3090	
S835577		<20	<0.01	<10	<10	7	<10	5980	
S835578		<20	<0.01	<10	<10	7	<10	810	
S835579		<20	<0.01	<10	<10	6	<10	1450	
S835580		<20	0.08	<10	<10	42	<10	37	



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Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
LOR		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
S835581		2.15	0.019	0.4	0.33	41	<10	1090	0.5	<2	1.11	2.8	6	2	105	3.38
S835582		2.38	0.003	<0.2	0.28	<2	<10	1120	<0.5	<2	1.09	11.0	6	2	9	3.50
S835583		2.29	0.003	<0.2	0.31	2	<10	570	<0.5	<2	0.92	5.6	7	2	5	3.78
S835584		2.26	<0.001	<0.2	0.33	<2	<10	670	0.5	<2	1.36	1.7	5	1	1	3.20
S835585		1.98	<0.001	<0.2	0.29	2	<10	2120	<0.5	<2	0.96	4.6	6	1	3	3.20
S835586		2.52	<0.001	<0.2	0.32	3	<10	1350	<0.5	2	0.80	4.5	6	1	10	4.39
S835587		2.41	<0.001	0.2	0.26	5	<10	1390	<0.5	<2	1.47	5.1	6	1	27	4.32
S835588		2.41	0.013	0.3	0.30	14	<10	560	0.5	2	0.66	11.5	6	2	36	4.44
S835589		0.99	0.047	1.2	0.26	87	<10	500	<0.5	3	0.60	6.7	6	1	395	4.93
S835590		1.16	0.011	0.4	0.26	23	<10	590	<0.5	<2	0.56	7.9	6	1	97	4.81
S835591		2.91	0.138	2.1	0.29	239	<10	50	<0.5	4	0.43	22.2	7	1	640	4.47
S835592		2.23	0.118	1.2	0.28	44	<10	70	<0.5	8	0.30	13.3	6	2	118	4.26
S835593		2.23	0.076	1.5	0.30	61	<10	120	<0.5	2	0.39	19.3	6	1	125	4.02
S835594		2.43	0.054	1.5	0.28	62	<10	80	0.5	<2	0.44	16.7	8	1	115	4.33
S835595		2.61	0.104	1.0	0.28	47	<10	310	<0.5	<2	0.44	26.8	6	2	154	4.34
S835596		1.87	0.083	2.5	0.29	91	<10	60	0.6	<2	0.55	14.1	11	1	323	3.89
S835597		2.07	0.018	1.6	0.30	30	<10	390	0.5	3	0.59	7.0	6	1	126	3.75
S835598		2.83	0.158	2.9	0.29	249	<10	110	0.5	6	0.66	12.7	9	2	979	4.20
S835599		2.36	0.087	1.7	0.30	59	<10	60	<0.5	2	0.21	37.5	9	1	188	3.93
S835600		1.26	<0.001	<0.2	0.59	<2	<10	90	<0.5	<2	0.67	<0.5	3	4	6	1.80
S835601		2.24	0.094	4.0	0.27	224	<10	60	<0.5	2	0.34	25.8	7	2	938	3.83
S835602		2.32	1.245	7.6	0.27	701	<10	30	0.5	15	0.80	89.7	7	2	2920	3.63
S835603		2.67	0.375	4.9	0.30	206	<10	30	0.6	13	1.11	21.9	8	2	857	3.62
S835604		1.98	0.011	0.3	0.32	27	<10	1200	0.6	2	2.39	<0.5	6	1	150	2.78
S835605		2.59	0.009	0.5	0.34	16	<10	850	0.6	<2	1.56	0.5	6	1	53	2.88
S835606		2.15	0.010	0.2	0.33	28	<10	1450	0.6	2	2.15	1.2	7	1	64	2.93
S835607		2.21	0.007	0.3	0.33	17	<10	700	0.6	2	2.24	<0.5	6	1	29	2.98
S835608		2.31	0.029	0.8	0.38	37	<10	220	1.0	<2	1.39	1.6	9	1	53	2.97
S835609		1.45	0.007	0.6	0.31	18	<10	30	0.5	<2	1.35	2.3	7	1	32	2.97
S835610		1.26	0.005	0.8	0.34	18	<10	20	0.6	<2	1.40	3.5	8	1	33	3.82
S835611		2.37	0.004	0.6	0.32	17	<10	150	0.7	<2	1.42	1.7	4	2	27	1.76
S835612		2.26	0.006	1.1	0.31	22	<10	200	0.6	<2	1.69	0.9	5	1	39	2.36
S835613		2.24	0.007	0.9	0.32	40	<10	560	0.7	<2	1.88	0.9	3	1	83	1.92
S835614		2.16	0.009	1.6	0.39	23	<10	240	1.6	<2	1.22	3.7	7	1	35	2.32
S835615		2.38	<0.001	0.2	0.33	10	<10	1280	1.1	<2	1.84	0.9	5	1	15	2.36
S835616		2.37	0.010	1.2	0.36	23	<10	40	1.3	<2	2.69	2.5	9	1	32	3.35
S835617		2.40	0.005	1.0	0.42	19	<10	20	1.4	<2	1.59	<0.5	11	1	22	4.21
S835618		2.27	0.008	1.2	0.40	34	<10	20	1.3	<2	1.29	1.2	14	1	39	4.53
S835619		2.25	0.004	0.3	0.27	17	<10	2370	0.7	<2	1.73	3.7	3	2	16	1.56
S835620		1.11	<0.001	<0.2	0.62	<2	<10	300	<0.5	<2	0.61	<0.5	3	4	5	1.76



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		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
S835581		<10	1	0.27	20	0.80	4060	1	0.04	1	790	97	0.30	2	4	86
S835582		<10	2	0.22	10	0.84	4630	<1	0.03	1	780	12	0.29	<2	4	100
S835583		<10	1	0.25	20	0.83	4680	<1	0.03	1	820	34	0.48	<2	4	103
S835584		<10	1	0.26	20	0.90	4720	<1	0.03	1	790	21	0.04	<2	4	85
S835585		<10	1	0.24	10	0.78	4470	<1	0.03	1	750	53	0.11	<2	4	119
S835586		<10	1	0.27	10	0.93	5400	<1	0.03	1	640	34	0.10	<2	4	78
S835587		<10	2	0.24	10	1.07	5800	<1	0.02	1	680	39	0.08	5	4	112
S835588		<10	2	0.26	10	0.81	3860	1	0.02	1	760	254	0.35	9	3	60
S835589		<10	2	0.24	10	0.87	3710	3	0.02	1	600	84	0.39	134	3	44
S835590		<10	2	0.24	10	0.85	3690	1	0.02	1	640	72	0.33	30	2	47
S835591		<10	2	0.26	10	0.55	2030	4	0.02	1	690	49	1.68	72	3	28
S835592		<10	2	0.26	10	0.52	1800	3	0.02	1	790	234	1.35	5	2	28
S835593		<10	2	0.28	10	0.48	2580	1	0.02	2	830	191	1.40	5	3	28
S835594		<10	2	0.27	10	0.51	3150	1	0.02	2	720	495	1.63	5	3	26
S835595		<10	3	0.26	10	0.59	3450	1	0.02	1	630	166	0.80	31	3	29
S835596		<10	2	0.25	<10	0.52	2690	4	0.02	2	560	421	1.40	79	3	46
S835597		<10	2	0.26	10	0.58	3320	2	0.02	1	720	162	0.62	40	3	43
S835598		<10	3	0.26	10	0.59	2680	9	0.02	2	630	321	1.12	232	2	43
S835599		<10	5	0.27	<10	0.42	1565	4	0.02	2	680	710	1.52	52	2	21
S835600		<10	<1	0.09	10	0.32	413	<1	0.07	1	600	4	0.04	<2	1	38
S835601		<10	4	0.25	<10	0.41	1540	4	0.02	2	590	805	1.73	307	3	27
S835602		<10	12	0.22	<10	0.46	1680	22	0.02	1	440	421	2.38	850	3	82
S835603		<10	3	0.27	10	0.44	1665	9	0.02	1	690	474	2.07	300	2	64
S835604		<10	<1	0.30	20	0.83	2330	11	0.03	1	940	32	0.25	64	2	140
S835605		<10	<1	0.31	20	0.63	2090	5	0.02	1	850	179	0.29	17	2	119
S835606		<10	1	0.26	10	0.85	2290	2	0.02	1	850	56	0.13	12	3	228
S835607		<10	<1	0.27	20	0.87	2090	1	0.03	1	1170	23	0.09	2	3	201
S835608		<10	<1	0.30	10	0.59	1760	4	0.03	1	1080	106	1.04	2	3	99
S835609		<10	1	0.23	10	0.44	1165	2	0.03	1	950	83	2.73	<2	2	86
S835610		<10	1	0.25	10	0.44	1270	2	0.03	1	1130	114	3.71	<2	2	86
S835611		<10	<1	0.27	20	0.44	1335	2	0.03	2	490	154	1.01	<2	1	77
S835612		<10	<1	0.24	10	0.62	2220	1	0.03	1	710	136	0.80	<2	3	82
S835613		<10	1	0.26	10	0.65	2480	1	0.03	1	760	66	0.29	<2	3	96
S835614		<10	1	0.31	20	0.51	2050	2	0.05	1	950	295	0.78	<2	3	64
S835615		<10	<1	0.27	20	0.76	2940	<1	0.04	1	800	52	0.09	<2	3	129
S835616		<10	1	0.26	10	0.84	2840	3	0.04	2	1160	240	2.39	<2	3	135
S835617		<10	<1	0.30	10	0.50	1590	3	0.06	2	1540	111	4.17	<2	3	83
S835618		<10	<1	0.28	10	0.39	1160	4	0.06	3	1410	187	4.58	<2	2	70
S835619		<10	1	0.23	20	0.60	1975	4	0.04	1	370	95	0.14	<2	1	138
S835620		<10	<1	0.08	10	0.32	414	<1	0.06	1	580	4	0.04	<2	1	51



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Zn-OG46
		Th	Ti	Ti	U	V	W	Zn	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm	%
		20	0.01	10	10	1	10	2	0.001
S835581		<20	<0.01	<10	<10	12	<10	636	
S835582		<20	<0.01	<10	<10	12	<10	2100	
S835583		<20	<0.01	<10	<10	11	<10	1200	
S835584		<20	<0.01	<10	<10	12	<10	478	
S835585		<20	<0.01	<10	<10	10	<10	930	
S835586		<20	<0.01	<10	<10	12	<10	1055	
S835587		<20	<0.01	<10	<10	13	<10	1075	
S835588		<20	<0.01	<10	<10	9	<10	2000	
S835589		<20	<0.01	<10	<10	10	<10	1155	
S835590		<20	<0.01	<10	<10	8	<10	1420	
S835591		<20	<0.01	<10	<10	13	<10	3020	
S835592		<20	<0.01	<10	<10	8	<10	2160	
S835593		<20	<0.01	<10	<10	10	<10	2980	
S835594		<20	<0.01	<10	<10	9	<10	2470	
S835595		<20	<0.01	<10	<10	12	<10	3820	
S835596		<20	<0.01	<10	<10	10	<10	2260	
S835597		<20	<0.01	<10	<10	9	<10	1140	
S835598		<20	<0.01	<10	<10	8	<10	1965	
S835599		<20	<0.01	<10	<10	8	<10	5560	
S835600		<20	0.08	<10	<10	44	<10	40	
S835601		<20	<0.01	<10	<10	9	<10	3590	
S835602		<20	<0.01	<10	<10	9	<10	>10000	1.330
S835603		<20	<0.01	<10	<10	7	<10	3250	
S835604		<20	<0.01	<10	<10	10	<10	141	
S835605		<20	<0.01	<10	<10	9	<10	151	
S835606		<20	<0.01	<10	<10	10	<10	299	
S835607		<20	<0.01	<10	<10	11	<10	197	
S835608		<20	<0.01	<10	<10	11	<10	399	
S835609		<20	<0.01	<10	<10	8	<10	477	
S835610		<20	<0.01	<10	<10	8	<10	804	
S835611		<20	<0.01	<10	<10	6	<10	388	
S835612		<20	<0.01	<10	<10	10	<10	290	
S835613		<20	<0.01	<10	<10	10	<10	321	
S835614		<20	<0.01	<10	<10	8	<10	1065	
S835615		<20	<0.01	<10	<10	8	<10	377	
S835616		<20	<0.01	<10	<10	9	<10	781	
S835617		<20	<0.01	<10	<10	10	<10	134	
S835618		<20	<0.01	<10	<10	9	<10	359	
S835619		<20	<0.01	<10	<10	4	<10	400	
S835620		<20	0.08	<10	<10	42	<10	40	



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Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
LOR		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
S835621		2.57	0.002	0.5	0.41	16	<10	60	0.8	<2	1.35	5.5	7	3	26	2.77
S835622		1.96	<0.001	0.3	0.41	16	<10	70	0.9	<2	2.85	2.2	7	1	30	3.17
S835623		2.30	0.005	0.6	0.42	17	10	60	1.2	<2	2.10	2.1	8	1	30	3.02
S835624		2.44	0.020	1.4	0.41	28	10	20	1.4	<2	1.76	4.2	12	1	44	3.54
S835625		2.26	0.013	1.0	0.35	23	10	50	1.0	<2	1.96	10.1	8	1	28	2.57
S835626		2.54	0.009	0.8	0.35	17	10	50	1.0	<2	1.89	6.3	7	1	27	2.47
S835627		2.32	<0.001	<0.2	0.40	15	10	1360	0.9	<2	2.19	3.3	6	1	51	2.70
S835628		1.82	<0.001	0.2	0.36	10	10	1380	1.0	<2	2.38	3.7	4	1	38	2.30
S835629		1.38	0.008	0.6	0.37	13	10	240	0.9	<2	2.29	3.5	7	2	24	2.85
S835630		1.19	0.015	0.9	0.40	19	10	120	1.2	<2	1.50	3.3	9	1	25	2.83
S835631		0.06	0.285	2.0	1.72	29	10	70	<0.5	<2	0.78	3.7	12	25	2310	4.92
S835632		2.18	<0.001	<0.2	0.51	26	10	2380	0.7	<2	2.98	1.1	12	2	74	3.98
S835633		1.81	<0.001	0.3	0.49	34	10	2070	0.8	<2	1.59	1.0	14	4	77	4.01
S835634		2.66	<0.001	<0.2	0.50	24	10	2270	0.8	<2	2.42	1.2	11	3	65	3.66
S835635		2.57	<0.001	<0.2	0.49	28	10	2030	0.7	<2	4.10	0.7	12	2	74	3.95
S835636		2.14	0.002	0.4	0.51	45	10	510	1.0	<2	4.74	1.1	14	9	88	3.84
S835637		1.88	<0.001	<0.2	0.49	13	10	320	0.9	<2	2.88	<0.5	11	3	47	3.21
S835638		2.24	<0.001	<0.2	0.48	2	10	1500	0.6	<2	2.37	<0.5	15	4	69	4.08
S835639		1.74	<0.001	<0.2	0.45	<2	10	2130	0.6	<2	2.87	<0.5	14	3	18	4.13
S835640		1.56	<0.001	<0.2	0.49	<2	10	1800	0.6	<2	2.79	<0.5	14	3	6	4.41
S835641		2.20	<0.001	<0.2	0.39	<2	10	1220	<0.5	<2	2.89	<0.5	14	3	2	3.85
S835642		2.42	<0.001	<0.2	0.42	2	10	930	<0.5	<2	2.95	<0.5	13	4	41	4.00
S835643		2.01	<0.001	<0.2	0.37	<2	10	1740	<0.5	<2	3.12	<0.5	11	3	37	3.86
S835644		2.63	<0.001	<0.2	0.48	25	10	520	0.8	<2	1.94	<0.5	11	2	58	3.05
S835645		2.38	0.001	<0.2	0.42	23	10	820	0.7	<2	3.08	0.5	12	2	55	3.79
S835646		2.11	0.022	0.2	0.42	51	10	270	0.7	<2	3.23	4.0	14	4	85	3.07
S835647		1.60	0.019	0.2	0.41	56	10	140	0.7	<2	3.51	1.2	15	4	90	3.36
S835648		2.03	0.037	0.3	0.38	41	10	40	0.6	<2	2.17	2.2	11	2	93	3.05
S835649		1.81	0.044	0.4	0.47	35	10	80	0.7	<2	2.65	2.6	13	3	66	3.20
S835650		1.38	<0.001	<0.2	0.64	<2	<10	70	<0.5	<2	0.62	<0.5	3	7	4	2.02
S835651		2.35	0.070	0.5	0.49	40	10	50	0.9	<2	3.25	2.2	15	3	74	3.94
S835652		2.65	0.050	0.6	0.48	33	10	100	0.6	<2	3.38	1.1	18	6	61	3.67
S835653		1.69	0.403	0.6	0.38	63	10	50	<0.5	2	3.79	2.8	9	2	197	3.35
S835654		2.44	0.119	0.6	0.49	36	10	50	0.8	<2	2.40	3.3	11	2	77	3.20
S835655		2.55	0.065	0.4	0.44	28	10	60	0.7	<2	2.64	2.2	10	2	51	3.28
S835656		2.71	0.023	0.2	0.44	53	10	180	0.6	<2	3.89	1.1	16	3	114	4.62
S835657		2.34	0.042	0.4	0.45	25	10	80	0.6	<2	3.42	1.8	10	2	49	3.50
S835658		2.32	0.010	0.4	0.43	31	10	60	0.6	<2	4.05	1.4	15	5	54	3.77
S835659		1.20	0.037	0.6	0.39	28	10	50	0.7	<2	2.88	2.4	11	3	54	3.24
S835660		1.02	0.023	0.3	0.39	20	10	60	0.6	<2	2.82	1.4	10	2	36	2.95



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
S835621		<10	<1	0.31	20	0.50	1775	2	0.05	<1	980	168	2.00	<2	2	87
S835622		<10	1	0.30	20	0.99	3400	1	0.05	1	1070	56	1.34	<2	4	155
S835623		<10	<1	0.32	20	0.66	2160	2	0.05	5	1230	126	2.07	<2	3	125
S835624		<10	1	0.30	10	0.55	1445	3	0.05	3	1110	299	3.20	2	3	100
S835625		<10	1	0.28	10	0.64	1855	3	0.04	2	620	314	1.87	3	3	117
S835626		<10	1	0.28	10	0.58	2050	3	0.04	2	650	268	1.56	2	2	107
S835627		<10	1	0.33	20	0.81	3050	<1	0.04	1	840	81	0.06	10	4	123
S835628		<10	1	0.30	20	0.82	2930	1	0.04	1	670	91	0.09	10	3	131
S835629		<10	1	0.30	10	0.77	2780	1	0.04	1	750	164	0.73	7	3	138
S835630		<10	1	0.31	10	0.50	1835	2	0.05	2	860	266	1.50	4	3	86
S835631		<10	1	0.32	<10	0.55	895	18	0.05	19	700	63	2.96	<2	2	62
S835632		<10	<1	0.35	<10	0.93	1565	<1	0.08	8	1640	<2	0.09	<2	9	158
S835633		<10	<1	0.34	<10	0.63	1015	1	0.09	15	1530	5	0.12	4	8	130
S835634		<10	1	0.35	<10	0.70	1290	<1	0.08	13	1480	5	0.11	<2	9	186
S835635		<10	1	0.36	10	0.72	1480	<1	0.09	10	1660	7	0.09	<2	9	301
S835636		<10	<1	0.35	<10	1.44	2180	4	0.09	25	1430	20	0.19	5	10	169
S835637		<10	1	0.34	10	0.86	1435	5	0.10	9	1300	6	0.10	<2	7	123
S835638		<10	1	0.33	20	0.86	1655	<1	0.08	3	1220	2	0.04	<2	8	158
S835639		<10	<1	0.33	20	1.33	1525	<1	0.07	3	1150	<2	0.06	<2	8	219
S835640		<10	1	0.35	10	1.24	1300	<1	0.08	4	1190	3	0.05	<2	8	207
S835641		<10	<1	0.28	10	1.29	1275	<1	0.06	3	1040	<2	0.02	<2	8	151
S835642		<10	1	0.30	20	1.46	1295	<1	0.06	3	940	<2	0.02	<2	8	160
S835643		<10	<1	0.28	20	1.30	1375	<1	0.06	3	1050	<2	0.07	<2	7	185
S835644		<10	<1	0.36	<10	0.71	1240	1	0.08	2	750	5	0.47	<2	6	165
S835645		<10	<1	0.33	10	1.11	2100	1	0.07	3	830	5	0.34	<2	6	226
S835646		<10	1	0.31	10	1.05	1325	5	0.06	38	590	86	1.02	<2	4	230
S835647		<10	1	0.30	10	1.26	1515	5	0.06	48	1050	40	1.19	<2	5	199
S835648		<10	1	0.29	<10	0.72	1080	2	0.06	18	340	49	2.13	<2	4	194
S835649		<10	1	0.33	<10	0.92	1440	2	0.07	19	810	95	1.84	<2	5	453
S835650		<10	<1	0.11	10	0.35	464	1	0.08	2	630	<2	0.04	<2	2	37
S835651		<10	1	0.34	<10	1.12	1425	3	0.07	38	980	58	2.16	<2	6	520
S835652		<10	2	0.33	<10	1.10	1190	3	0.06	50	890	62	1.80	<2	6	1865
S835653		<10	3	0.26	<10	0.79	1360	3	0.05	15	740	104	2.67	<2	3	4040
S835654		<10	2	0.34	<10	0.80	1115	3	0.07	20	810	87	2.55	<2	5	1385
S835655		<10	1	0.32	<10	0.88	1205	2	0.06	17	680	84	2.31	<2	4	1115
S835656		<10	1	0.31	10	1.61	1530	1	0.06	20	920	37	1.02	<2	8	378
S835657		<10	1	0.32	10	1.15	1550	2	0.05	18	830	78	1.73	<2	5	393
S835658		<10	1	0.30	<10	1.37	1560	2	0.05	54	820	48	2.23	<2	5	584
S835659		<10	1	0.29	<10	0.97	1230	3	0.05	24	160	128	2.12	<2	4	502
S835660		<10	1	0.29	<10	0.94	1250	2	0.05	15	210	49	1.82	<2	4	339



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		Th	Ti	Ti	U	V	W	Zn	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm	%
		20	0.01	10	10	1	10	2	0.001
S835621		<20	<0.01	<10	<10	8	<10	545	
S835622		<20	<0.01	<10	<10	11	<10	489	
S835623		<20	<0.01	<10	<10	10	<10	520	
S835624		<20	<0.01	<10	<10	11	<10	905	
S835625		<20	<0.01	<10	<10	8	<10	1250	
S835626		<20	<0.01	<10	<10	7	<10	749	
S835627		<20	<0.01	<10	<10	13	<10	394	
S835628		<20	<0.01	<10	<10	9	<10	426	
S835629		<20	<0.01	<10	<10	8	<10	482	
S835630		<20	<0.01	<10	<10	8	<10	616	
S835631		<20	0.03	<10	<10	28	<10	703	
S835632		<20	<0.01	<10	<10	40	<10	81	
S835633		<20	<0.01	<10	<10	30	<10	94	
S835634		<20	<0.01	<10	<10	30	<10	71	
S835635		<20	<0.01	<10	<10	29	<10	68	
S835636		<20	<0.01	<10	<10	30	<10	86	
S835637		<20	<0.01	<10	<10	43	<10	51	
S835638		<20	0.02	<10	<10	85	<10	45	
S835639		<20	<0.01	<10	<10	63	<10	68	
S835640		<20	0.01	<10	<10	75	<10	66	
S835641		<20	<0.01	<10	<10	59	<10	67	
S835642		<20	<0.01	<10	<10	44	<10	72	
S835643		<20	<0.01	<10	<10	34	<10	65	
S835644		<20	<0.01	<10	<10	27	<10	48	
S835645		<20	<0.01	<10	<10	24	<10	70	
S835646		<20	<0.01	<10	<10	12	<10	386	
S835647		<20	<0.01	<10	<10	15	<10	165	
S835648		<20	<0.01	<10	<10	10	<10	264	
S835649		<20	<0.01	<10	<10	12	<10	343	
S835650		<20	0.09	<10	<10	48	<10	36	
S835651		<20	<0.01	<10	<10	14	<10	275	
S835652		<20	<0.01	<10	<10	16	<10	178	
S835653		<20	<0.01	<10	<10	9	<10	382	
S835654		<20	<0.01	<10	<10	10	<10	436	
S835655		<20	<0.01	<10	<10	10	<10	300	
S835656		<20	<0.01	<10	<10	29	<10	192	
S835657		<20	<0.01	<10	<10	12	<10	263	
S835658		<20	<0.01	<10	<10	14	<10	185	
S835659		<20	<0.01	<10	<10	10	<10	336	
S835660		<20	<0.01	<10	<10	10	<10	228	



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Project: Forrest Kerr

CERTIFICATE OF ANALYSIS TR17171785

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
S835661		2.50	0.023	0.2	0.35	19	10	30	0.6	<2	1.78	2.9	9	2	31	3.44
S835662		2.33	0.025	<0.2	0.31	13	10	60	0.6	<2	2.95	0.9	8	2	28	3.02
S835663		2.46	0.042	0.3	0.27	44	10	70	0.6	<2	4.00	2.0	16	4	80	3.96
S835664		2.06	0.062	0.4	0.32	43	10	40	0.7	<2	3.02	2.8	14	2	87	3.50
S835665		2.37	0.055	0.6	0.38	42	10	40	0.8	<2	3.53	2.3	14	3	74	3.54
S835666		2.28	0.009	0.4	0.26	30	10	470	0.6	<2	2.24	12.4	9	2	40	1.77
S835667		2.52	0.007	0.8	0.22	69	10	460	<0.5	<2	1.48	49.2	4	3	146	0.88
S835668		2.30	0.002	0.4	0.29	20	10	310	0.8	<2	1.08	15.6	4	2	29	0.90
S835669		2.21	0.003	0.3	0.29	23	10	570	0.8	<2	1.42	12.4	8	1	43	2.07
S835670		1.21	<0.001	<0.2	0.51	<2	<10	60	<0.5	<2	0.51	<0.5	3	5	3	1.81
S835671		2.51	0.002	<0.2	0.38	13	10	220	0.8	<2	2.45	0.7	8	1	27	3.30
S835672		2.45	0.003	<0.2	0.29	10	10	1230	0.6	<2	2.43	0.5	6	1	22	2.73
S835673		2.25	0.004	0.2	0.29	13	10	1270	0.6	<2	2.44	1.4	6	1	32	2.84
S835674		2.34	0.007	0.2	0.31	15	10	1170	0.5	<2	2.30	1.8	7	2	34	3.06
S835675		2.20	0.004	<0.2	0.27	15	10	1920	<0.5	<2	2.01	<0.5	7	4	33	2.86
S835676		2.32	<0.001	<0.2	0.31	14	10	2080	<0.5	<2	1.79	<0.5	6	1	36	2.90
S835677		2.46	<0.001	<0.2	0.29	10	<10	3010	<0.5	<2	2.21	<0.5	6	1	24	2.88
S835678		1.92	<0.001	<0.2	0.29	2	<10	2960	<0.5	<2	2.30	<0.5	5	1	1	2.56
S835679		1.05	<0.001	<0.2	0.32	5	10	1510	0.5	<2	1.87	<0.5	5	1	12	2.49
S835680		1.05	0.001	<0.2	0.34	3	10	1760	0.5	<2	1.81	<0.5	4	2	6	2.54
S835681		2.38	0.009	<0.2	0.31	16	10	1120	0.5	<2	3.00	<0.5	5	1	36	2.79
S835682		2.69	1.275	1.4	0.26	192	10	50	<0.5	<2	0.54	3.4	9	1	427	6.12
S835683		1.77	0.007	<0.2	0.31	41	10	2000	<0.5	<2	0.64	<0.5	5	2	90	5.24
S835684		2.32	0.001	0.2	0.25	21	10	1370	<0.5	<2	1.58	4.1	5	1	56	4.06
S835685		2.29	<0.001	<0.2	0.26	3	10	1020	<0.5	<2	1.96	0.5	6	1	5	2.68
S835686		1.94	<0.001	<0.2	0.29	5	10	1400	<0.5	<2	2.01	2.3	6	1	13	2.78
S835687		2.70	0.004	<0.2	0.28	6	10	800	0.6	<2	1.69	1.6	7	1	8	3.02
S835688		1.97	0.003	0.3	0.25	15	10	1380	0.6	<2	1.65	4.0	6	2	27	2.42
S835689		2.06	0.008	0.4	0.33	22	10	960	0.7	<2	1.77	1.7	7	1	45	2.40
S835690		1.38	0.035	<0.2	0.50	<2	<10	70	<0.5	<2	0.55	<0.5	3	4	9	1.83
S835691		2.25	0.002	0.2	0.29	15	10	1770	0.6	<2	2.07	1.3	7	1	30	2.95
S835692		2.14	0.011	0.4	0.26	21	<10	1250	<0.5	<2	1.62	6.1	6	2	47	2.41



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Project: Forrest Kerr

CERTIFICATE OF ANALYSIS TR17171785

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
S835661		<10	1	0.26	<10	0.60	945	3	0.04	14	360	42	3.09	<2	3	440
S835662		<10	1	0.25	<10	1.09	1495	1	0.03	6	220	25	1.42	<2	4	364
S835663		<10	<1	0.22	<10	1.53	1815	2	0.02	29	110	70	1.44	<2	7	347
S835664		<10	<1	0.25	<10	1.00	1150	2	0.03	28	560	44	2.28	<2	6	975
S835665		<10	1	0.28	<10	1.20	1280	2	0.04	34	690	53	1.83	<2	6	608
S835666		<10	1	0.23	10	0.68	1190	1	0.04	13	460	219	0.54	<2	3	173
S835667		<10	2	0.23	20	0.30	1050	1	0.02	2	250	755	0.31	14	1	105
S835668		<10	1	0.26	20	0.26	820	1	0.05	1	280	326	0.23	3	1	127
S835669		<10	1	0.26	20	0.45	1285	1	0.05	3	630	294	0.40	3	3	142
S835670		<10	1	0.09	10	0.28	400	<1	0.06	1	600	3	0.03	<2	1	30
S835671		<10	1	0.31	20	0.76	2400	1	0.05	1	980	27	0.48	<2	5	166
S835672		<10	1	0.26	20	0.75	2300	1	0.04	<1	910	46	0.12	<2	3	178
S835673		<10	<1	0.26	20	0.77	2280	1	0.03	1	1000	58	0.20	2	3	203
S835674		<10	<1	0.27	20	0.81	2800	1	0.03	<1	1020	156	0.17	2	3	183
S835675		<10	<1	0.25	20	0.77	2050	<1	0.03	1	1070	9	0.13	<2	3	171
S835676		<10	<1	0.30	20	0.72	2260	<1	0.03	1	1120	8	0.06	<2	3	167
S835677		<10	<1	0.29	20	0.80	2450	<1	0.03	<1	1100	13	0.08	<2	3	197
S835678		<10	1	0.29	20	0.78	2470	<1	0.03	1	1040	2	0.09	<2	3	185
S835679		<10	1	0.30	20	0.58	2080	<1	0.04	1	1100	2	0.16	<2	3	137
S835680		<10	<1	0.33	20	0.59	2080	<1	0.03	<1	1120	<2	0.14	<2	3	130
S835681		<10	<1	0.29	20	0.80	2740	<1	0.04	<1	1090	6	0.23	<2	4	197
S835682		<10	1	0.28	10	0.62	2540	3	0.02	2	560	103	1.65	18	3	75
S835683		<10	<1	0.30	10	0.74	3140	<1	0.02	1	700	6	0.10	2	3	90
S835684		<10	1	0.25	10	0.80	4310	1	0.02	<1	750	57	0.13	<2	4	132
S835685		<10	1	0.24	20	0.81	2800	<1	0.04	1	710	18	0.13	<2	4	219
S835686		<10	<1	0.26	10	0.99	3750	<1	0.03	1	700	102	0.10	<2	4	226
S835687		<10	1	0.27	20	0.89	3310	1	0.04	1	850	38	0.14	<2	4	210
S835688		<10	1	0.23	10	0.74	2710	5	0.03	<1	670	150	0.16	3	3	166
S835689		<10	1	0.27	10	0.71	2390	2	0.04	1	550	47	0.21	9	3	187
S835690		<10	<1	0.08	10	0.27	401	<1	0.07	1	620	2	0.06	<2	2	32
S835691		<10	<1	0.25	10	0.89	3180	1	0.05	<1	840	27	0.12	7	3	160
S835692		<10	<1	0.24	10	0.70	2710	1	0.04	1	870	145	0.13	5	3	137



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Zn-OG46
		Th	Ti	Ti	U	V	W	Zn	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm	%
		20	0.01	10	10	1	10	2	0.001
S835661		<20	<0.01	<10	<10	7	<10	402	
S835662		<20	<0.01	<10	<10	9	<10	144	
S835663		<20	<0.01	<10	<10	19	<10	308	
S835664		<20	<0.01	<10	<10	11	<10	336	
S835665		<20	<0.01	<10	<10	14	<10	254	
S835666		<20	<0.01	<10	<10	7	<10	921	
S835667		<20	<0.01	<10	<10	2	<10	3520	
S835668		<20	<0.01	<10	<10	3	<10	1075	
S835669		<20	<0.01	<10	<10	8	<10	915	
S835670		<20	0.08	<10	<10	45	<10	39	
S835671		<20	<0.01	<10	<10	14	<10	178	
S835672		<20	<0.01	<10	<10	10	<10	169	
S835673		<20	<0.01	<10	<10	10	<10	257	
S835674		<20	<0.01	<10	<10	13	<10	315	
S835675		<20	<0.01	<10	<10	13	<10	165	
S835676		<20	<0.01	<10	<10	12	<10	157	
S835677		<20	<0.01	<10	<10	12	<10	234	
S835678		<20	<0.01	<10	<10	12	<10	235	
S835679		<20	<0.01	<10	<10	9	<10	176	
S835680		<20	<0.01	<10	<10	10	<10	194	
S835681		<20	<0.01	<10	<10	10	<10	137	
S835682		<20	<0.01	<10	<10	10	<10	881	
S835683		<20	<0.01	<10	<10	14	<10	248	
S835684		<20	<0.01	<10	<10	12	<10	723	
S835685		<20	<0.01	<10	<10	11	<10	187	
S835686		<20	<0.01	<10	<10	12	<10	442	
S835687		<20	<0.01	<10	<10	11	<10	364	
S835688		<20	<0.01	<10	<10	9	<10	502	
S835689		<20	<0.01	<10	<10	10	<10	265	
S835690		<20	0.08	<10	<10	47	<10	35	
S835691		<20	<0.01	<10	<10	14	<10	280	
S835692		<20	<0.01	<10	<10	10	<10	668	



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CERTIFICATE OF ANALYSIS TR17171785

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Terrace located at 2912 Molitor Street, Terrace, BC, Canada.			
	CRU-31	CRU-QC	LOG-22	LOG-24
	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-ICP21	ME-ICP41	ME-OG46	Zn-OG46



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CERTIFICATE TR17175832

Project: Forrest Kerr

This report is for 154 Drill Core samples submitted to our lab in Terrace, BC, Canada on 16-AUG-2017.

The following have access to data associated with this certificate:

CORNELL MCDOWELL		
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
LOG-24	Pulp Login - Rcd w/o Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: **ABEN RESOURCES LTD.**
ATTN: ALS GEOCHEMISTRY

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 TR17175832

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %
S835693		0.06	0.328	1.9	1.63	29	10	70	<0.5	<2	0.72	3.6	10	24	2230	4.59
S835694		2.54	0.002	<0.2	0.44	3	10	990	0.7	<2	4.86	<0.5	7	1	4	3.09
S835695		1.95	0.001	<0.2	0.41	5	10	910	0.6	<2	4.20	<0.5	7	1	8	3.07
S835696		2.22	<0.001	<0.2	0.43	19	10	760	0.8	<2	3.19	0.6	9	2	28	3.03
S835697		2.50	0.002	0.5	0.44	70	10	310	0.9	<2	3.64	2.1	16	4	87	3.63
S835698		2.44	0.001	0.2	0.33	22	10	1390	0.6	<2	4.70	2.1	11	4	44	3.92
S835699		1.35	<0.001	0.2	0.44	13	10	1490	0.9	<2	1.59	0.5	10	1	40	3.42
S835700		1.34	0.001	<0.2	0.38	15	10	1680	1.0	<2	1.67	0.5	12	1	42	3.92
S835701		2.58	0.001	<0.2	0.41	8	10	710	0.8	<2	1.88	<0.5	12	3	31	4.02
S835702		2.49	0.001	<0.2	0.46	15	10	200	0.9	<2	1.81	<0.5	12	1	35	3.72
S835703		2.48	0.001	<0.2	0.36	17	10	90	0.8	<2	1.31	<0.5	10	1	28	2.96
S835704		2.62	0.002	<0.2	0.33	17	10	40	0.7	<2	2.30	0.5	10	1	22	3.10
S835705		2.41	0.003	<0.2	0.34	10	10	30	0.6	<2	2.08	0.5	7	1	13	3.02
S835706		2.03	0.001	<0.2	0.35	13	10	30	0.7	<2	1.81	0.5	8	1	14	3.04
S835707		2.42	0.010	0.2	0.37	13	10	20	0.7	<2	2.16	0.5	8	1	14	3.12
S835708		2.42	0.007	0.2	0.41	13	10	30	0.7	<2	1.81	1.2	8	1	20	3.12
S835709		2.48	0.005	<0.2	0.35	13	10	40	0.7	<2	1.79	0.7	8	1	17	3.05
S835710		1.18	<0.001	<0.2	0.51	<2	<10	50	<0.5	<2	0.48	<0.5	2	5	3	1.67
S835711		2.76	0.001	<0.2	0.37	8	10	40	0.6	<2	2.53	<0.5	7	1	11	3.15
S835712		2.54	0.005	0.3	0.34	9	10	40	0.6	<2	2.13	<0.5	8	1	11	2.78
S835713		1.97	0.006	0.4	0.34	14	10	50	0.8	<2	1.64	0.7	9	1	19	2.85
S835714		2.37	0.021	0.4	0.41	29	10	50	0.8	<2	2.68	1.4	10	3	57	3.07
S835715		2.54	0.031	0.4	0.38	28	10	50	0.8	<2	2.42	2.5	11	2	57	3.09
S835716		2.29	0.023	0.4	0.42	25	10	30	0.8	2	2.48	1.6	12	3	44	3.36
S835717		2.93	0.086	1.0	0.39	22	10	70	0.5	<2	2.01	2.9	8	2	38	3.07
S835718		2.43	0.172	1.4	0.38	49	10	40	0.6	2	2.45	9.9	12	3	104	3.37
S835719		1.29	0.075	1.0	0.43	44	10	50	0.7	<2	3.94	2.6	12	4	83	3.37
S835720		1.33	0.088	1.0	0.44	41	10	60	0.7	<2	4.14	3.0	11	3	75	3.23
S835721		2.69	0.075	0.9	0.40	40	10	60	0.6	<2	3.44	3.1	13	2	81	3.45
S835722		2.54	0.042	0.7	0.42	40	10	80	0.9	<2	3.41	1.9	15	5	81	3.54
S835723		2.33	<0.001	<0.2	0.38	3	10	1070	0.6	<2	3.56	<0.5	9	3	6	3.40
S835724		2.02	<0.001	<0.2	0.27	2	<10	750	<0.5	<2	2.94	<0.5	8	3	5	3.07
S835725		2.61	<0.001	<0.2	0.29	5	<10	1180	<0.5	<2	3.09	<0.5	7	4	5	3.06
S835726		2.30	<0.001	<0.2	0.27	4	<10	2570	<0.5	<2	3.67	<0.5	9	5	12	3.35
S835727		2.54	0.001	0.2	0.34	12	10	520	1.0	<2	2.05	<0.5	8	1	32	2.59
S835728		2.53	0.010	1.2	0.36	23	10	380	1.2	<2	2.01	<0.5	12	2	44	2.25
S835729		1.81	0.002	0.3	0.38	26	10	260	1.0	<2	1.61	2.1	5	1	28	1.69
S835730		1.45	<0.001	<0.2	0.55	<2	<10	50	<0.5	<2	0.59	<0.5	3	4	6	1.91
S835731		2.23	0.007	0.5	0.25	22	<10	300	0.6	<2	1.21	18.5	3	3	16	0.83
S835732		2.51	0.008	0.4	0.34	22	10	1440	0.7	<2	1.25	17.4	3	4	27	1.00



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
S835693		<10	<1	0.31	<10	0.51	845	18	0.07	28	650	59	2.74	2	2	59
S835694		<10	<1	0.34	10	0.78	1485	<1	0.09	2	1240	8	0.03	<2	6	217
S835695		<10	<1	0.32	<10	0.77	1280	<1	0.08	1	1150	4	0.08	<2	6	154
S835696		<10	<1	0.31	<10	0.72	919	1	0.10	8	950	6	0.25	2	7	164
S835697		<10	<1	0.31	10	0.83	970	3	0.11	27	1440	32	0.89	<2	9	210
S835698		<10	1	0.25	<10	1.18	1425	<1	0.08	14	1230	12	0.21	<2	8	233
S835699		<10	1	0.35	<10	0.43	778	<1	0.12	6	1180	6	0.09	<2	6	250
S835700		<10	1	0.32	<10	0.53	870	<1	0.12	7	1330	4	0.10	<2	6	248
S835701		<10	1	0.31	10	0.59	982	1	0.10	4	1270	5	0.26	<2	6	329
S835702		<10	1	0.35	<10	0.64	966	1	0.11	5	1220	5	0.58	<2	6	257
S835703		<10	1	0.29	<10	0.39	718	1	0.10	4	1090	7	0.93	<2	4	218
S835704		<10	1	0.27	<10	0.54	981	2	0.08	4	660	10	2.22	<2	4	349
S835705		<10	<1	0.25	10	0.64	1155	1	0.07	1	620	8	2.21	<2	4	662
S835706		<10	1	0.24	10	0.56	905	2	0.08	3	840	10	2.88	<2	3	326
S835707		<10	1	0.24	10	0.60	987	2	0.08	2	810	14	3.01	<2	3	319
S835708		<10	1	0.28	10	0.59	1155	2	0.08	2	850	18	2.88	<2	3	359
S835709		<10	1	0.26	10	0.57	1065	2	0.08	1	870	14	2.82	<2	3	459
S835710		<10	<1	0.09	10	0.27	408	<1	0.06	1	560	2	0.02	<2	1	29
S835711		<10	1	0.25	10	0.83	1145	1	0.08	2	680	7	2.19	<2	4	236
S835712		<10	1	0.25	10	0.72	1085	2	0.08	1	750	12	2.28	<2	3	261
S835713		<10	1	0.25	10	0.53	830	2	0.08	6	680	14	2.52	<2	4	444
S835714		<10	<1	0.28	<10	0.91	1390	3	0.08	19	850	46	2.27	<2	5	433
S835715		<10	1	0.27	<10	0.82	1300	3	0.08	15	780	56	2.56	<2	4	833
S835716		<10	1	0.29	10	0.90	1465	3	0.08	24	870	42	2.59	2	5	255
S835717		<10	1	0.29	10	0.84	1855	1	0.07	5	850	195	1.79	<2	3	247
S835718		<10	2	0.28	<10	0.89	1445	3	0.07	23	860	464	2.52	<2	5	511
S835719		<10	1	0.30	<10	1.21	1520	4	0.08	28	830	173	2.06	<2	6	269
S835720		<10	1	0.30	<10	1.08	1400	2	0.07	25	740	80	2.09	<2	5	314
S835721		<10	1	0.28	<10	1.12	1475	2	0.08	26	920	90	1.89	2	6	545
S835722		<10	1	0.30	<10	1.10	1505	2	0.07	43	990	73	1.63	<2	6	464
S835723		<10	<1	0.27	20	0.70	1825	<1	0.05	3	1370	8	0.04	<2	7	183
S835724		<10	<1	0.17	20	0.40	1560	<1	0.05	2	1330	5	0.03	<2	7	113
S835725		<10	1	0.19	20	0.40	1765	<1	0.05	2	1370	6	0.03	<2	7	165
S835726		<10	<1	0.20	10	0.84	2690	<1	0.04	2	1080	9	0.10	<2	7	235
S835727		<10	1	0.28	20	0.64	2140	<1	0.05	2	930	36	0.23	<2	4	114
S835728		<10	1	0.30	20	0.57	1965	1	0.06	2	880	80	0.72	<2	3	109
S835729		<10	1	0.33	20	0.41	1635	3	0.05	<1	730	72	0.12	<2	3	86
S835730		<10	1	0.08	10	0.31	401	<1	0.07	<1	650	<2	0.06	<2	2	34
S835731		<10	1	0.25	20	0.28	1210	1	0.04	<1	260	209	0.15	<2	1	60
S835732		<10	1	0.31	20	0.30	1170	2	0.04	1	270	328	0.18	<2	1	105



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
S835693		<20	0.03	<10	<10	27	<10	683
S835694		<20	0.01	<10	<10	56	<10	44
S835695		<20	<0.01	<10	<10	38	<10	47
S835696		<20	<0.01	<10	<10	22	<10	58
S835697		<20	<0.01	<10	<10	24	<10	127
S835698		<20	<0.01	<10	<10	28	<10	87
S835699		<20	<0.01	<10	<10	21	<10	64
S835700		<20	<0.01	<10	<10	23	<10	76
S835701		<20	<0.01	<10	<10	26	<10	70
S835702		<20	<0.01	<10	<10	18	<10	68
S835703		<20	<0.01	<10	<10	12	<10	51
S835704		<20	<0.01	<10	<10	10	<10	38
S835705		<20	<0.01	<10	<10	9	<10	65
S835706		<20	<0.01	<10	<10	7	<10	32
S835707		<20	<0.01	<10	<10	7	<10	54
S835708		<20	<0.01	<10	<10	7	<10	135
S835709		<20	<0.01	<10	<10	6	<10	95
S835710		<20	0.08	<10	<10	41	<10	35
S835711		<20	<0.01	<10	<10	9	<10	54
S835712		<20	<0.01	<10	<10	8	<10	50
S835713		<20	<0.01	<10	<10	8	<10	81
S835714		<20	<0.01	<10	<10	9	<10	190
S835715		<20	<0.01	<10	<10	8	<10	313
S835716		<20	<0.01	<10	<10	9	<10	195
S835717		<20	<0.01	<10	<10	8	<10	434
S835718		<20	<0.01	<10	<10	9	<10	1285
S835719		<20	<0.01	<10	<10	13	<10	335
S835720		<20	<0.01	<10	<10	13	<10	366
S835721		<20	<0.01	<10	<10	12	<10	406
S835722		<20	<0.01	<10	<10	14	<10	256
S835723		<20	0.03	<10	<10	100	<10	55
S835724		<20	0.05	<10	<10	40	<10	45
S835725		<20	0.05	<10	<10	38	<10	43
S835726		<20	0.05	<10	<10	39	<10	118
S835727		<20	<0.01	<10	<10	25	<10	148
S835728		<20	<0.01	<10	<10	10	<10	109
S835729		<20	<0.01	<10	<10	9	<10	152
S835730		<20	0.09	<10	<10	49	<10	33
S835731		<20	<0.01	<10	<10	3	<10	1155
S835732		<20	<0.01	<10	<10	3	<10	1125



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Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
S835733		2.19	0.006	0.4	0.25	34	10	1020	0.8	<2	0.94	25.5	3	3	50	0.71
S835734		2.44	0.004	0.2	0.27	12	10	2370	0.5	<2	2.10	6.6	3	2	19	1.73
S835735		2.30	0.007	0.2	0.40	27	10	1030	0.8	<2	1.79	<0.5	6	1	41	2.32
S835736		2.27	<0.001	<0.2	0.33	6	10	3170	0.5	<2	3.06	0.5	5	1	13	2.66
S835737		2.02	0.006	0.2	0.39	37	10	1220	0.7	<2	1.56	22.4	5	1	87	2.47
S835738		2.53	0.083	1.1	0.38	59	10	110	0.6	<2	1.03	9.7	7	2	106	3.25
S835739		3.32	0.041	0.5	0.31	20	10	260	0.5	<2	1.51	6.1	6	1	33	3.04
S835740		1.71	<0.001	<0.2	0.71	<2	<10	250	<0.5	<2	0.73	<0.5	4	8	7	2.06
S835741		2.63	0.517	2.7	0.31	618	<10	100	<0.5	3	0.33	22.5	10	1	1900	5.54
S835742		2.54	0.216	1.1	0.25	222	10	160	0.5	<2	0.64	9.7	7	1	556	4.45
S835743		2.40	0.024	0.3	0.25	9	10	230	<0.5	<2	1.39	0.9	8	2	8	2.99
S835744		2.33	0.022	0.5	0.24	26	10	650	<0.5	<2	1.11	9.2	6	2	51	3.55
S835745		2.79	0.313	2.1	0.26	141	10	80	0.5	2	0.59	37.6	7	2	286	3.86
S835746		2.12	0.273	1.9	0.24	141	10	90	0.5	2	1.23	15.6	7	1	294	2.98
S835747		2.55	0.136	0.3	0.25	16	10	320	<0.5	<2	1.63	7.7	6	2	32	2.49
S835748		2.28	0.006	0.3	0.25	10	10	600	<0.5	<2	1.66	8.5	6	2	16	2.79
S835749		1.03	0.002	0.2	0.21	5	<10	750	<0.5	<2	1.89	8.3	5	2	7	2.37
S835750		1.20	0.002	0.3	0.21	11	<10	530	<0.5	<2	1.78	7.3	6	6	21	2.57
S835751		2.85	0.002	0.2	0.25	10	<10	230	<0.5	<2	1.38	7.5	5	3	20	2.39
S835752		2.25	0.002	0.2	0.22	9	<10	850	<0.5	<2	1.84	6.8	5	3	19	2.46
S835753		2.58	0.003	0.2	0.23	9	<10	440	<0.5	<2	1.62	9.7	6	3	13	2.36
S835754		2.34	0.003	0.2	0.26	13	<10	660	0.5	<2	1.32	9.1	6	2	22	2.49
S835755		2.61	0.004	0.5	0.26	12	10	410	0.5	<2	1.26	25.5	6	3	28	2.52
S835756		2.23	0.005	0.5	0.25	19	10	1010	0.5	<2	2.14	22.9	7	2	32	2.64
S835757		2.54	0.002	0.5	0.34	26	10	1070	0.6	<2	1.43	17.2	6	2	34	2.41
S835758		2.82	0.002	0.5	0.24	18	<10	700	0.5	<2	1.38	18.9	5	3	23	2.31
S835759		1.94	0.003	0.3	0.23	18	<10	590	<0.5	<2	1.62	18.6	4	3	20	2.16
S835760		1.66	<0.001	<0.2	0.56	<2	<10	90	<0.5	<2	0.61	<0.5	4	6	5	1.83
S835761		2.37	0.002	0.3	0.24	7	10	660	0.5	<2	2.30	22.6	5	3	7	2.73
S835762		2.15	0.002	0.3	0.22	13	<10	600	<0.5	<2	1.61	10.3	5	2	28	1.98
S835763		2.15	0.003	0.6	0.26	22	10	490	0.7	<2	2.20	13.1	8	1	47	3.89
S835764		2.22	0.001	0.3	0.23	9	10	830	<0.5	<2	1.08	13.6	3	2	19	1.30
S835765		2.38	<0.001	<0.2	0.23	13	10	1070	<0.5	<2	1.28	6.1	2	2	6	0.99
S835766		2.41	0.003	0.2	0.25	8	10	1150	0.5	<2	1.68	12.0	3	1	9	1.37
S835767		2.43	0.004	0.2	0.27	9	10	1330	0.5	<2	2.81	11.8	4	1	8	2.09
S835768		2.32	0.004	0.3	0.24	7	10	1590	<0.5	<2	1.82	20.3	3	2	7	1.56
S835769		1.39	0.003	0.4	0.29	8	10	1060	0.5	<2	2.20	15.7	5	2	17	2.23
S835770		1.11	0.001	0.3	0.26	6	10	740	0.5	<2	1.88	13.9	4	2	11	2.16
S835771		2.36	0.001	0.3	0.29	10	10	1190	0.6	<2	1.56	10.3	4	1	14	1.56
S835772		2.59	0.003	0.3	0.28	9	10	1400	0.7	<2	1.50	11.1	4	1	10	1.80



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
S835733		<10	1	0.26	20	0.23	892	1	0.04	<1	270	365	0.22	<2	1	65
S835734		<10	1	0.27	10	0.58	2150	1	0.04	<1	410	198	0.16	<2	2	106
S835735		<10	1	0.34	20	0.53	2010	2	0.06	<1	960	27	0.21	<2	3	97
S835736		<10	1	0.30	20	0.95	2710	<1	0.04	<1	1080	7	0.12	<2	3	163
S835737		<10	2	0.33	20	0.64	2220	<1	0.06	<1	1140	280	0.19	<2	3	134
S835738		<10	2	0.31	10	0.57	2830	3	0.05	1	970	145	1.50	<2	2	71
S835739		<10	1	0.27	10	0.78	3010	1	0.05	1	900	132	0.69	<2	3	104
S835740		<10	<1	0.11	10	0.33	458	<1	0.09	1	670	3	0.07	<2	2	61
S835741		<10	2	0.31	10	0.53	1385	47	0.03	1	780	1185	2.15	<2	2	29
S835742		<10	1	0.27	10	0.65	1780	9	0.03	4	740	233	1.01	2	2	38
S835743		<10	<1	0.23	20	0.71	2520	1	0.03	2	850	120	0.47	2	3	67
S835744		<10	1	0.24	10	0.65	2900	1	0.03	1	710	193	0.41	<2	3	84
S835745		<10	3	0.27	10	0.37	2000	2	0.03	1	710	448	2.17	<2	2	39
S835746		<10	2	0.23	10	0.53	2400	4	0.03	1	690	440	1.11	4	3	86
S835747		<10	1	0.24	10	0.67	2930	1	0.02	1	810	157	0.18	3	3	160
S835748		<10	1	0.25	10	0.76	3600	1	0.02	1	870	140	0.10	2	3	143
S835749		<10	1	0.22	10	0.72	3350	1	0.01	1	810	145	0.08	<2	3	165
S835750		<10	1	0.22	10	0.72	3580	1	0.01	1	930	189	0.08	3	3	142
S835751		<10	1	0.26	20	0.59	3120	1	0.01	1	790	116	0.07	<2	2	126
S835752		<10	<1	0.23	10	0.73	3270	1	0.02	1	870	165	0.08	2	3	141
S835753		<10	1	0.25	20	0.62	3010	1	0.02	1	830	187	0.10	<2	3	141
S835754		<10	1	0.26	20	0.59	3000	1	0.02	1	910	124	0.10	2	2	117
S835755		<10	2	0.26	20	0.56	3270	1	0.02	1	800	477	0.17	5	2	86
S835756		<10	2	0.25	20	0.77	3620	3	0.02	1	800	458	0.15	5	3	140
S835757		<10	1	0.30	10	0.57	2840	1	0.02	1	830	349	0.14	8	2	108
S835758		<10	1	0.25	20	0.55	2900	2	0.02	1	740	394	0.13	6	2	107
S835759		<10	1	0.24	10	0.55	2760	1	0.02	1	680	386	0.11	5	2	120
S835760		<10	<1	0.08	10	0.31	408	<1	0.06	2	610	3	0.07	<2	2	36
S835761		<10	1	0.24	20	0.89	4190	1	0.02	1	630	362	0.14	2	2	161
S835762		<10	1	0.23	10	0.56	2670	2	0.02	1	630	222	0.09	6	2	106
S835763		<10	1	0.26	10	0.91	4850	1	0.03	1	580	356	0.12	7	2	97
S835764		<10	1	0.22	20	0.34	1740	1	0.02	1	300	310	0.12	3	1	60
S835765		<10	1	0.21	20	0.35	1695	1	0.02	<1	140	125	0.09	<2	1	71
S835766		<10	1	0.23	20	0.43	2690	2	0.02	1	470	213	0.14	2	2	94
S835767		<10	2	0.24	10	0.73	4450	2	0.03	1	600	194	0.13	<2	2	111
S835768		<10	1	0.23	20	0.48	2650	1	0.04	<1	430	399	0.19	2	1	102
S835769		<10	2	0.27	20	0.58	3200	1	0.03	1	770	281	0.13	4	2	126
S835770		<10	1	0.25	20	0.52	2890	1	0.03	1	790	238	0.10	3	2	100
S835771		<10	1	0.26	20	0.43	2270	2	0.03	1	590	210	0.11	6	2	104
S835772		<10	1	0.26	20	0.45	2570	1	0.04	<1	460	257	0.12	3	1	81



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Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Ti	U	V	W
	Units	ppm	%	ppm	ppm	ppm	ppm
LOR		20	0.01	10	10	1	10
Zn							2
S835733	<20	<0.01	<10	<10	3	<10	1545
S835734	<20	<0.01	<10	<10	6	<10	475
S835735	<20	<0.01	<10	<10	10	<10	119
S835736	<20	<0.01	<10	<10	19	<10	151
S835737	<20	<0.01	<10	<10	11	<10	1075
S835738	<20	<0.01	<10	<10	9	<10	1470
S835739	<20	<0.01	<10	<10	8	<10	945
S835740	<20	0.11	<10	<10	52	<10	40
S835741	<20	<0.01	<10	<10	10	<10	3040
S835742	<20	<0.01	<10	<10	10	<10	1380
S835743	<20	<0.01	<10	<10	8	<10	284
S835744	<20	<0.01	<10	<10	8	<10	1545
S835745	<20	<0.01	<10	<10	7	<10	5180
S835746	<20	<0.01	<10	<10	8	<10	2220
S835747	<20	<0.01	<10	<10	10	<10	935
S835748	<20	<0.01	<10	<10	15	<10	1050
S835749	<20	<0.01	<10	<10	12	<10	953
S835750	<20	<0.01	<10	<10	14	<10	940
S835751	<20	<0.01	<10	<10	12	<10	998
S835752	<20	<0.01	<10	<10	15	<10	915
S835753	<20	<0.01	<10	<10	12	<10	1185
S835754	<20	<0.01	<10	<10	11	<10	1095
S835755	<20	<0.01	<10	<10	11	<10	2440
S835756	<20	<0.01	<10	<10	13	<10	2050
S835757	<20	<0.01	<10	<10	14	<10	1565
S835758	<20	<0.01	<10	<10	11	<10	1730
S835759	<20	<0.01	<10	<10	10	<10	1645
S835760	<20	0.08	<10	<10	45	<10	40
S835761	<20	<0.01	<10	<10	10	<10	2220
S835762	<20	<0.01	<10	<10	8	<10	1115
S835763	<20	<0.01	<10	<10	9	<10	1835
S835764	<20	<0.01	<10	<10	4	<10	1275
S835765	<20	<0.01	<10	<10	3	<10	642
S835766	<20	<0.01	<10	<10	5	<10	1260
S835767	<20	<0.01	<10	<10	8	<10	1275
S835768	<20	<0.01	<10	<10	5	<10	2000
S835769	<20	<0.01	<10	<10	9	<10	1475
S835770	<20	<0.01	<10	<10	9	<10	1345
S835771	<20	<0.01	<10	<10	5	<10	993
S835772	<20	<0.01	<10	<10	5	<10	1110



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Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
LOR		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
S835773		2.47	0.002	0.3	0.28	8	10	1030	0.5	<2	1.94	14.2	5	4	9	1.98
S835774		2.59	0.003	0.4	0.30	24	10	1330	0.5	<2	2.05	9.2	5	2	56	2.29
S835775		2.39	0.001	0.4	0.35	16	10	370	0.8	<2	1.18	7.0	5	2	20	2.12
S835776		1.78	<0.001	0.3	0.31	11	10	1210	0.6	<2	1.57	1.8	5	1	10	2.10
S835777		2.26	0.003	0.4	0.32	13	10	1140	0.8	<2	1.30	3.3	6	1	11	2.44
S835778		2.32	0.004	0.8	0.30	20	10	1740	0.7	<2	1.72	6.4	6	1	18	2.38
S835779		2.30	0.004	0.7	0.28	20	10	640	0.6	<2	1.53	2.1	6	2	22	2.44
S835780		1.66	<0.001	<0.2	0.59	<2	<10	70	<0.5	<2	0.63	<0.5	3	6	7	1.97
S835781		2.27	0.003	0.4	0.32	11	10	1510	0.9	<2	0.86	8.8	4	1	18	1.49
S835782		2.13	0.002	0.4	0.34	10	10	800	0.5	<2	1.53	4.3	5	2	18	2.46
S835783		2.48	0.001	0.4	0.29	11	10	820	0.5	<2	1.53	3.4	4	3	22	2.27
S835784		2.18	0.003	0.3	0.29	17	10	1310	0.7	<2	1.27	10.1	4	2	25	1.84
S835785		2.18	0.004	0.3	0.24	38	<10	1270	<0.5	<2	1.60	8.7	2	3	10	1.29
S835786		2.46	0.003	0.4	0.21	27	<10	380	<0.5	<2	0.62	12.9	3	4	18	1.03
S835787		2.30	0.003	0.6	0.22	28	<10	380	<0.5	<2	0.79	20.4	3	5	25	1.17
S835788		1.99	0.003	0.6	0.27	78	10	550	0.8	<2	0.54	19.8	3	3	27	1.00
S835789		1.07	0.002	0.3	0.22	20	<10	970	0.5	<2	1.97	17.1	2	3	14	1.57
S835790		1.36	0.002	0.4	0.24	29	10	230	0.5	<2	1.01	20.1	2	2	27	1.13
S835791		2.48	0.001	0.3	0.23	9	10	1170	0.5	<2	1.99	11.1	2	3	7	1.44
S835792		2.53	0.007	0.7	0.28	34	10	390	0.5	<2	0.51	11.9	3	3	74	1.02
S835793		1.88	0.001	0.4	0.24	15	10	710	<0.5	<2	0.80	18.3	2	5	11	1.04
S835794		2.22	0.001	0.3	0.26	12	<10	620	<0.5	<2	0.72	11.2	3	4	17	1.22
S835795		2.31	<0.001	0.2	0.27	11	10	330	0.7	<2	1.06	11.9	3	3	9	1.46
S835796		2.46	<0.001	0.2	0.23	12	10	330	0.7	<2	1.06	6.8	2	2	7	0.86
S835797		2.29	<0.001	0.2	0.24	30	10	480	0.5	<2	1.29	4.1	1	3	6	0.91
S835798		2.16	0.001	0.2	0.22	21	10	660	<0.5	<2	1.62	8.4	2	3	6	1.14
S835799		2.13	0.001	0.3	0.25	32	10	540	<0.5	<2	0.85	10.8	3	3	10	1.13
S835800		1.56	<0.001	<0.2	0.57	<2	<10	60	<0.5	<2	0.60	<0.5	3	6	6	1.90
S835801		2.27	0.001	0.7	0.28	61	10	770	0.6	<2	1.19	12.1	4	3	37	1.55
S835802		1.74	0.005	0.5	0.25	12	10	1000	<0.5	<2	1.50	9.6	2	4	30	1.57
S835803		1.45	0.002	0.4	0.29	29	10	630	0.5	<2	1.23	12.2	5	2	71	1.81
S835804		2.20	<0.001	<0.2	0.27	10	10	1340	<0.5	<2	1.43	7.4	4	3	20	2.14
S835805		2.03	0.002	0.2	0.27	8	10	480	0.5	<2	1.01	8.7	3	2	16	1.41
S835806		2.68	<0.001	<0.2	0.27	7	10	520	0.5	<2	0.80	9.5	2	2	11	1.36
S835807		2.03	<0.001	<0.2	0.26	3	<10	1470	<0.5	<2	1.80	10.2	3	2	6	1.65
S835808		2.63	0.001	0.2	0.26	8	<10	590	<0.5	<2	1.09	11.4	3	3	11	1.45
S835809		1.20	0.001	0.2	0.27	7	10	590	<0.5	<2	0.54	10.5	2	3	10	1.21
S835810		1.07	0.001	0.2	0.24	8	<10	700	<0.5	<2	0.60	12.9	3	3	9	1.42
S835811		2.49	<0.001	<0.2	0.28	5	10	810	0.5	<2	0.42	6.1	2	2	3	1.27
S835812		2.50	0.002	0.3	0.24	13	10	1080	<0.5	<2	1.07	20.1	2	2	19	1.26



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
S835773		<10	<1	0.26	10	0.55	2580	1	0.02	1	490	245	0.14	2	2	109
S835774		<10	1	0.29	20	0.57	2880	1	0.02	<1	760	262	0.13	3	3	126
S835775		<10	<1	0.32	20	0.44	2140	2	0.03	1	700	192	0.09	<2	2	63
S835776		<10	<1	0.29	20	0.59	2090	2	0.03	<1	690	65	0.09	<2	2	104
S835777		<10	1	0.29	20	0.60	2370	3	0.03	<1	780	137	0.14	<2	2	101
S835778		<10	<1	0.28	20	0.68	2450	12	0.03	1	710	167	0.18	<2	2	118
S835779		<10	1	0.25	10	0.67	2290	9	0.03	1	750	131	0.13	7	2	92
S835780		<10	1	0.08	10	0.31	422	<1	0.07	1	680	2	0.07	<2	2	38
S835781		<10	1	0.28	10	0.37	1410	2	0.04	1	550	189	0.14	4	2	77
S835782		<10	<1	0.30	10	0.66	2650	1	0.02	<1	770	127	0.09	4	2	102
S835783		<10	1	0.28	20	0.59	2430	2	0.02	1	770	122	0.10	5	2	123
S835784		<10	1	0.28	10	0.44	2120	2	0.03	1	490	209	0.14	6	2	99
S835785		<10	1	0.25	20	0.40	1925	2	0.02	<1	350	199	0.14	<2	1	97
S835786		<10	1	0.23	10	0.18	904	1	0.02	<1	280	245	0.16	<2	1	44
S835787		<10	1	0.24	20	0.21	1015	2	0.02	1	280	401	0.25	<2	1	53
S835788		<10	1	0.28	20	0.17	716	2	0.03	1	300	432	0.25	<2	1	37
S835789		<10	1	0.23	20	0.52	2200	2	0.02	<1	280	343	0.17	<2	1	100
S835790		<10	2	0.26	20	0.28	1290	2	0.02	1	280	373	0.15	<2	1	52
S835791		<10	1	0.23	20	0.53	2110	1	0.02	<1	230	255	0.15	2	1	85
S835792		<10	1	0.27	20	0.17	774	2	0.02	1	320	345	0.27	10	1	36
S835793		<10	1	0.23	20	0.25	912	1	0.02	<1	200	354	0.17	<2	1	52
S835794		<10	<1	0.27	10	0.24	946	1	0.01	1	270	249	0.16	3	1	51
S835795		<10	1	0.26	20	0.38	1360	1	0.03	<1	320	152	0.11	2	1	53
S835796		<10	1	0.23	10	0.31	1215	1	0.03	<1	130	122	0.08	<2	1	53
S835797		<10	1	0.23	20	0.38	1435	1	0.02	1	160	73	0.06	<2	1	63
S835798		<10	1	0.22	20	0.47	1870	1	0.02	<1	210	172	0.10	<2	1	66
S835799		<10	1	0.24	20	0.28	1250	1	0.02	<1	320	239	0.10	2	1	54
S835800		<10	1	0.09	10	0.29	417	<1	0.08	1	660	2	0.05	<2	2	38
S835801		<10	1	0.26	10	0.39	1595	1	0.03	1	270	199	0.17	10	2	79
S835802		<10	<1	0.24	10	0.43	1755	2	0.02	<1	410	168	0.11	5	2	97
S835803		<10	1	0.29	10	0.36	1780	1	0.02	1	530	281	0.12	9	2	65
S835804		<10	1	0.28	10	0.39	1780	1	0.02	1	750	146	0.09	3	2	93
S835805		<10	<1	0.28	20	0.25	1205	1	0.02	<1	540	188	0.07	<2	1	45
S835806		<10	<1	0.28	20	0.21	1060	1	0.02	1	500	162	0.07	<2	1	39
S835807		<10	<1	0.28	20	0.42	1795	1	0.02	<1	440	210	0.09	<2	2	78
S835808		<10	1	0.28	20	0.27	1160	1	0.02	1	460	208	0.08	<2	1	51
S835809		<10	<1	0.28	20	0.18	778	2	0.02	1	360	129	0.08	<2	1	34
S835810		<10	1	0.26	10	0.21	912	1	0.02	1	380	189	0.09	2	1	40
S835811		<10	1	0.28	20	0.17	753	1	0.02	1	510	31	0.06	<2	1	39
S835812		<10	1	0.24	20	0.34	1315	1	0.02	1	270	521	0.18	3	1	52



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 Account: CONBAA

Project: Forrest Kerr

CERTIFICATE OF ANALYSIS TR17175832

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
S835773		<20	<0.01	<10	<10	9	<10	1555
S835774		<20	<0.01	<10	<10	11	<10	1130
S835775		<20	<0.01	<10	<10	10	<10	796
S835776		<20	<0.01	<10	<10	9	<10	325
S835777		<20	<0.01	<10	<10	8	<10	542
S835778		<20	<0.01	<10	<10	9	<10	818
S835779		<20	<0.01	<10	<10	9	<10	394
S835780		<20	0.09	<10	<10	51	<10	36
S835781		<20	<0.01	<10	<10	8	<10	867
S835782		<20	<0.01	<10	<10	14	<10	599
S835783		<20	<0.01	<10	<10	9	<10	502
S835784		<20	<0.01	<10	<10	7	<10	992
S835785		<20	<0.01	<10	<10	4	<10	772
S835786		<20	<0.01	<10	<10	3	<10	1025
S835787		<20	<0.01	<10	<10	3	<10	1475
S835788		<20	<0.01	<10	<10	4	<10	1490
S835789		<20	<0.01	<10	<10	4	<10	1430
S835790		<20	<0.01	<10	<10	3	<10	1595
S835791		<20	<0.01	<10	<10	4	<10	1040
S835792		<20	<0.01	<10	<10	4	<10	1090
S835793		<20	<0.01	<10	<10	3	<10	1585
S835794		<20	<0.01	<10	<10	3	<10	1040
S835795		<20	<0.01	<10	<10	4	<10	1080
S835796		<20	<0.01	<10	<10	3	<10	606
S835797		<20	<0.01	<10	<10	3	<10	388
S835798		<20	<0.01	<10	<10	3	<10	764
S835799		<20	<0.01	<10	<10	3	<10	902
S835800		<20	0.09	<10	<10	49	<10	37
S835801		<20	<0.01	<10	<10	5	<10	1015
S835802		<20	<0.01	<10	<10	6	<10	992
S835803		<20	<0.01	<10	<10	6	<10	1280
S835804		<20	<0.01	<10	<10	8	<10	824
S835805		<20	<0.01	<10	<10	6	<10	841
S835806		<20	<0.01	<10	<10	6	<10	854
S835807		<20	<0.01	<10	<10	7	<10	918
S835808		<20	<0.01	<10	<10	5	<10	1010
S835809		<20	<0.01	<10	<10	5	<10	885
S835810		<20	<0.01	<10	<10	4	<10	1085
S835811		<20	<0.01	<10	<10	5	<10	570
S835812		<20	<0.01	<10	<10	4	<10	1685



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CERTIFICATE OF ANALYSIS TR17175832

Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
S835813		2.23	0.012	0.5	0.29	23	10	580	<0.5	<2	0.94	25.1	3	6	34	1.25
S835814		2.12	0.002	0.5	0.28	18	<10	620	0.7	<2	0.99	23.0	3	5	40	1.23
S835815		2.48	0.001	0.8	0.31	35	10	760	0.9	<2	1.34	19.2	4	3	92	1.53
S835816		1.98	<0.001	0.4	0.37	22	10	640	0.8	<2	2.23	0.9	11	2	61	3.49
S835817		2.43	<0.001	<0.2	0.35	5	<10	1220	0.6	<2	3.53	0.5	9	2	5	3.42
S835818		2.59	0.004	1.5	0.33	21	10	590	0.8	<2	1.57	1.8	5	1	25	2.19
S835819		2.53	0.006	0.8	0.32	36	10	700	0.7	<2	2.19	0.6	7	2	21	2.38
S835820		1.40	<0.001	<0.2	0.57	<2	<10	70	<0.5	<2	0.61	<0.5	4	8	7	1.81
S835821		2.49	<0.001	<0.2	0.34	<2	10	530	0.8	<2	1.73	<0.5	6	3	4	3.19
S835822		2.29	<0.001	<0.2	0.30	11	10	2880	0.7	<2	2.63	<0.5	5	1	28	2.17
S835823		2.21	0.001	0.3	0.33	37	10	2170	0.8	<2	3.76	0.5	7	2	93	2.68
S835824		2.41	<0.001	<0.2	0.35	12	10	820	0.9	<2	1.95	<0.5	5	1	30	2.26
S835825		2.09	0.001	0.3	0.45	13	10	660	1.9	<2	1.32	<0.5	6	2	17	2.41
S835826		2.06	0.015	0.6	0.37	32	10	760	1.3	<2	2.30	0.7	12	3	60	3.48
S835827		2.32	<0.001	0.2	0.36	5	10	1600	1.0	<2	1.96	1.1	6	1	11	2.74
S835828		2.37	0.001	0.3	0.32	8	10	1570	0.8	<2	2.12	3.7	6	1	20	2.40
S835829		0.94	0.002	0.2	0.27	6	<10	730	0.5	<2	1.86	6.9	5	2	8	2.42
S835830		1.26	0.002	0.3	0.28	6	<10	1370	0.5	<2	1.98	8.3	5	2	12	2.49
S835831		1.97	0.005	0.3	0.29	12	10	710	0.6	<2	1.80	5.6	5	2	21	2.11
S835832		2.24	0.002	0.3	0.30	13	10	840	0.9	<2	1.54	0.5	6	1	22	2.10
S835833		2.42	<0.001	0.3	0.30	9	<10	1340	0.6	2	2.38	<0.5	4	3	25	2.18
S835834		2.48	<0.001	<0.2	0.32	<2	<10	1500	0.5	<2	2.63	<0.5	6	3	2	2.40
S835835		2.03	<0.001	<0.2	0.32	<2	<10	1580	0.6	<2	2.13	<0.5	5	2	2	2.29
S835836		2.32	<0.001	<0.2	0.34	2	10	1840	0.7	<2	2.18	<0.5	5	2	5	2.32
S835837		1.82	<0.001	<0.2	0.33	5	10	1010	0.7	<2	2.43	<0.5	5	2	15	2.21
S835838		2.08	<0.001	0.3	0.31	10	10	530	0.5	<2	1.58	<0.5	6	2	15	2.53
S835839		2.34	<0.001	0.3	0.28	11	<10	620	0.5	<2	1.61	<0.5	6	2	17	2.68
S835840		1.33	<0.001	<0.2	0.54	<2	<10	70	<0.5	<2	0.57	<0.5	3	10	6	1.85
S835841		2.08	0.001	0.2	0.26	11	<10	1610	0.5	<2	1.85	<0.5	6	4	14	2.88
S835842		2.23	<0.001	0.2	0.28	10	<10	1680	0.6	<2	1.85	<0.5	6	3	25	2.73
S835843		2.40	<0.001	<0.2	0.32	3	10	1700	1.0	<2	2.74	<0.5	5	3	3	2.24
S835844		2.44	<0.001	<0.2	0.35	<2	<10	800	0.6	<2	2.27	<0.5	6	3	5	2.47
S835845		2.55	<0.001	<0.2	0.33	<2	<10	1260	0.6	<2	2.67	<0.5	6	3	11	2.50
S835846		2.72	<0.001	<0.2	0.34	<2	<10	1170	0.6	<2	2.10	<0.5	6	3	4	2.71



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Project: Forrest Kerr

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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
S835813		<10	1	0.27	20	0.31	1255	1	0.02	1	290	590	0.23	2	1	47
S835814		<10	<1	0.26	20	0.35	1285	1	0.03	1	290	539	0.16	3	1	47
S835815		<10	<1	0.29	20	0.49	1790	<1	0.03	1	440	416	0.12	11	2	72
S835816		<10	1	0.31	10	0.92	3370	<1	0.03	2	1250	11	0.01	7	6	131
S835817		<10	1	0.31	10	1.31	4500	<1	0.03	2	1200	5	0.02	<2	7	184
S835818		<10	<1	0.27	10	0.59	1745	1	0.04	1	470	58	0.40	2	3	89
S835819		<10	<1	0.26	10	0.74	2240	1	0.04	<1	680	98	0.35	3	2	92
S835820		<10	<1	0.10	10	0.29	402	<1	0.07	1	640	4	0.05	<2	2	35
S835821		<10	<1	0.29	20	0.70	2190	<1	0.05	1	920	5	0.01	<2	3	105
S835822		<10	<1	0.26	20	0.84	2120	<1	0.04	<1	630	6	0.08	3	2	179
S835823		<10	<1	0.28	20	1.17	2370	<1	0.04	<1	750	8	0.07	8	3	207
S835824		<10	<1	0.29	20	0.66	1720	<1	0.05	<1	850	3	0.05	<2	3	83
S835825		<10	<1	0.34	10	0.53	1110	1	0.07	<1	1280	24	0.35	<2	4	99
S835826		<10	<1	0.30	10	0.97	2600	1	0.05	9	920	38	0.33	4	6	110
S835827		<10	<1	0.30	10	0.76	2210	<1	0.05	<1	850	17	0.04	<2	3	112
S835828		<10	<1	0.28	10	0.76	2600	1	0.04	<1	660	89	0.06	2	3	113
S835829		<10	1	0.26	10	0.70	2750	1	0.03	<1	580	214	0.06	2	2	84
S835830		<10	<1	0.26	10	0.73	2850	1	0.03	1	610	243	0.08	<2	3	93
S835831		<10	1	0.27	10	0.64	2360	1	0.03	1	610	160	0.07	5	2	81
S835832		<10	<1	0.24	<10	0.61	1505	1	0.05	1	620	16	0.28	3	3	99
S835833		<10	<1	0.25	10	0.87	1775	<1	0.04	<1	750	8	0.09	3	3	162
S835834		<10	<1	0.26	20	1.04	2190	1	0.04	<1	830	5	0.03	<2	3	160
S835835		<10	<1	0.28	20	0.82	1855	1	0.04	<1	740	5	0.03	<2	3	150
S835836		<10	<1	0.29	20	0.82	1955	<1	0.04	<1	710	5	0.04	<2	3	150
S835837		<10	<1	0.28	20	0.87	2060	<1	0.04	<1	610	5	0.01	<2	3	168
S835838		<10	<1	0.24	10	0.84	1510	1	0.04	<1	510	8	0.03	<2	2	147
S835839		<10	<1	0.22	20	0.91	1565	1	0.04	1	710	7	0.06	<2	3	152
S835840		<10	<1	0.09	10	0.27	387	<1	0.08	1	630	3	0.05	<2	2	34
S835841		<10	<1	0.21	20	0.99	1745	1	0.05	1	740	7	0.06	2	3	186
S835842		<10	<1	0.23	10	0.86	1775	2	0.05	<1	750	9	0.05	4	3	190
S835843		<10	<1	0.27	20	0.92	2030	<1	0.04	<1	710	6	0.04	<2	3	128
S835844		<10	<1	0.30	20	0.73	2000	<1	0.05	1	920	5	0.01	<2	3	92
S835845		<10	<1	0.27	20	0.85	2260	<1	0.05	<1	930	3	0.02	<2	3	115
S835846		<10	<1	0.27	20	0.87	2030	<1	0.05	<1	990	4	0.02	<2	3	108



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
S835813		<20	<0.01	<10	<10	4	<10	1975
S835814		<20	<0.01	<10	<10	4	<10	1810
S835815		<20	<0.01	<10	<10	7	<10	1680
S835816		<20	0.01	<10	<10	42	<10	237
S835817		<20	0.01	<10	<10	60	<10	211
S835818		<20	<0.01	<10	<10	12	<10	243
S835819		<20	<0.01	<10	<10	11	<10	143
S835820		<20	0.09	<10	<10	47	<10	35
S835821		<20	<0.01	<10	<10	19	<10	287
S835822		<20	<0.01	<10	<10	12	<10	128
S835823		<20	<0.01	<10	<10	16	<10	142
S835824		<20	<0.01	<10	<10	14	<10	77
S835825		<20	<0.01	<10	<10	13	<10	81
S835826		<20	<0.01	<10	<10	15	<10	195
S835827		<20	<0.01	<10	<10	16	<10	224
S835828		<20	<0.01	<10	<10	13	<10	355
S835829		<20	<0.01	<10	<10	14	<10	614
S835830		<20	<0.01	<10	<10	15	<10	725
S835831		<20	<0.01	<10	<10	10	<10	450
S835832		<20	<0.01	<10	<10	15	<10	108
S835833		<20	<0.01	<10	<10	14	<10	97
S835834		<20	<0.01	<10	<10	15	<10	120
S835835		<20	<0.01	<10	<10	14	<10	119
S835836		<20	<0.01	<10	<10	15	<10	116
S835837		<20	<0.01	<10	<10	13	<10	90
S835838		<20	<0.01	<10	<10	12	<10	105
S835839		<20	<0.01	<10	<10	13	<10	107
S835840		<20	0.09	<10	<10	48	<10	32
S835841		<20	<0.01	<10	<10	14	<10	122
S835842		<20	<0.01	<10	<10	12	<10	138
S835843		<20	<0.01	<10	<10	16	<10	138
S835844		<20	<0.01	<10	<10	21	<10	123
S835845		<20	<0.01	<10	<10	20	<10	120
S835846		<20	<0.01	<10	<10	16	<10	143



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CERTIFICATE OF ANALYSIS TR17175832

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Terrace located at 2912 Molitor Street, Terrace, BC, Canada.			
	CRU-31	CRU-QC	LOG-22	LOG-24
	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-ICP21	ME-ICP41		



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CERTIFICATE TR17174031

Project: Forrest Kerr

This report is for 40 Drill Core samples submitted to our lab in Terrace, BC, Canada on 16-AUG-2017.

The following have access to data associated with this certificate:
 CORNELL MCDOWELL

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
LOG-24	Pulp Login - Rcd w/o Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Cu-OG46	Ore Grade Cu - Aqua Regia	ICP-AES
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
Au-GRA21	Au 30g FA-GRAV finish	WST-SIM
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: **ABEN RESOURCES LTD.**
ATTN: ALS GEOCHEMISTRY

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: 28-AUG-2017
 Account: CONBAA

Project: Forrest Kerr

CERTIFICATE OF ANALYSIS TR17174031

Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	Au-GRA21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Recvd Wt. kg	Au ppm	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm
		0.02	0.001	0.05	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
S835847		0.06	0.320		2.0	1.82	29	10	70	<0.5	2	0.78	3.6	12	25	2320
S835848		1.91	0.004		<0.2	1.20	4	<10	580	<0.5	<2	2.64	<0.5	7	2	88
S835849		0.92	0.002		<0.2	1.19	4	<10	80	0.5	<2	3.91	<0.5	6	2	17
S835850		1.19	0.001		<0.2	1.10	2	<10	130	<0.5	<2	4.25	<0.5	6	1	37
S835851		2.75	0.002		<0.2	0.71	3	<10	120	<0.5	<2	3.67	<0.5	6	1	32
S835852		2.06	0.004		<0.2	0.94	4	<10	220	<0.5	<2	3.36	<0.5	8	1	15
S835853		2.21	0.094		1.0	0.62	3	<10	90	<0.5	2	5.69	<0.5	7	1	1030
S835854		2.16	0.026		<0.2	1.17	<2	<10	270	<0.5	2	4.14	<0.5	5	2	129
S835855		2.12	0.759		1.3	1.27	5	<10	120	<0.5	2	2.61	<0.5	8	2	1140
S835856		2.48	2.62		1.8	1.03	2	<10	210	<0.5	<2	7.4	0.7	5	2	1300
S835857		2.63	9.03		7.0	1.07	<2	<10	50	<0.5	2	9.8	0.6	4	1	8140
S835858		2.35	>10.0	14.05	14.7	1.58	<2	<10	40	<0.5	4	8.6	0.9	7	2	>10000
S835859		2.74	>10.0	33.8	28.2	2.01	3	<10	20	<0.5	<2	10.8	1.6	8	1	>10000
S835860		1.42	0.013		<0.2	0.63	<2	<10	80	<0.5	<2	0.70	<0.5	3	6	48
S835861		2.69	4.64		7.3	1.48	<2	<10	30	<0.5	3	9.2	0.8	10	1	>10000
S835862		2.30	1.525		2.4	1.19	4	<10	50	<0.5	3	2.50	<0.5	11	2	3670
S835863		2.53	0.320		0.5	1.40	3	<10	60	<0.5	<2	0.78	3.0	10	2	83
S835864		1.79	0.095		0.2	1.46	<2	<10	610	<0.5	<2	0.53	<0.5	8	2	35
S835865		2.22	0.222		0.2	1.20	<2	<10	720	<0.5	<2	0.74	<0.5	7	2	66
S835866		2.42	0.037		0.3	1.36	<2	<10	710	<0.5	2	0.85	<0.5	5	2	4
S835867		2.09	0.026		0.3	1.65	<2	<10	900	0.5	2	1.21	<0.5	7	2	6
S835868		1.91	0.035		<0.2	0.88	<2	<10	590	<0.5	<2	0.87	<0.5	6	2	6
S835869		2.14	0.607		0.5	0.79	<2	<10	310	<0.5	<2	0.97	<0.5	7	2	344
S835870		1.21	0.005		<0.2	0.72	<2	<10	70	<0.5	<2	0.85	<0.5	4	5	8
S835871		2.38	0.444		1.7	1.05	<2	<10	270	<0.5	<2	2.06	<0.5	7	2	3620
S835872		2.00	0.134		0.3	1.28	<2	<10	520	<0.5	<2	1.20	<0.5	7	2	298
S835873		1.92	0.538		1.2	2.00	4	<10	40	<0.5	4	0.79	<0.5	14	2	759
S835874		2.05	0.182		0.4	2.00	2	<10	110	<0.5	<2	0.60	<0.5	13	2	35
S835875		2.44	0.019		0.5	2.32	3	<10	170	<0.5	2	1.20	<0.5	15	2	20
S835876		1.67	0.088		0.3	1.77	<2	<10	210	<0.5	<2	1.09	<0.5	11	2	9
S835877		1.98	0.013		<0.2	1.83	<2	<10	290	<0.5	2	1.63	<0.5	6	2	3
S835878		2.28	0.009		<0.2	1.56	<2	<10	860	<0.5	2	2.49	<0.5	5	2	15
S835879		1.37	0.048		<0.2	1.67	<2	<10	710	<0.5	4	2.66	<0.5	6	2	5
S835880		1.13	0.047		<0.2	1.74	<2	<10	640	<0.5	<2	2.45	<0.5	7	1	1
S835881		2.18	0.002		<0.2	1.63	<2	<10	230	<0.5	2	2.13	<0.5	7	2	2
S835882		1.39	0.013		<0.2	1.70	<2	<10	290	<0.5	<2	2.43	<0.5	7	2	1
S835883		2.10	0.025		0.2	1.55	<2	<10	190	<0.5	3	1.78	<0.5	9	1	323
S835884		1.66	0.006		<0.2	1.93	<2	<10	330	<0.5	3	1.87	<0.5	11	2	240
S835885		1.73	0.011		<0.2	1.85	<2	<10	520	<0.5	<2	1.82	<0.5	9	2	78
S835886		2.30	0.002		<0.2	1.43	<2	<10	700	<0.5	2	2.58	<0.5	7	2	90



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Project: Forrest Kerr

CERTIFICATE OF ANALYSIS TR17174031

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm
S835847		4.82	<10	<1	0.34	<10	0.55	878	19	0.07	18	690	60	2.87	<2	2
S835848		2.80	<10	1	0.34	20	0.54	2300	<1	0.02	2	1130	6	0.27	<2	3
S835849		3.00	<10	<1	0.36	20	0.61	3050	<1	0.02	1	1020	7	0.51	<2	3
S835850		2.72	<10	<1	0.33	20	0.55	3250	<1	0.02	1	1070	6	0.45	<2	3
S835851		2.52	<10	<1	0.36	20	0.54	2670	<1	0.02	1	1030	6	0.55	<2	3
S835852		2.98	<10	<1	0.35	20	0.57	2560	<1	0.02	1	1110	10	1.12	<2	3
S835853		3.34	<10	1	0.32	20	0.46	4890	1	0.02	1	870	16	1.41	<2	3
S835854		3.05	<10	1	0.23	20	0.76	5190	<1	0.02	<1	990	6	0.10	<2	3
S835855		4.36	<10	1	0.25	10	0.68	3500	<1	0.02	1	940	14	1.30	<2	2
S835856		3.68	<10	<1	0.19	20	0.63	7080	<1	0.01	1	740	20	0.85	<2	2
S835857		5.87	<10	1	0.23	20	0.70	9850	<1	0.01	<1	560	38	1.84	<2	2
S835858		7.51	10	1	0.21	20	0.96	9050	<1	0.01	<1	500	45	3.30	<2	2
S835859		11.10	10	1	0.18	20	1.49	11300	<1	0.01	1	370	67	5.19	<2	2
S835860		2.06	<10	<1	0.10	10	0.31	486	<1	0.09	2	620	2	0.05	<2	2
S835861		7.72	10	1	0.20	20	0.94	9480	<1	0.01	1	560	43	4.08	<2	2
S835862		5.14	<10	1	0.29	10	0.66	3730	<1	0.01	<1	930	21	2.31	<2	2
S835863		5.09	<10	1	0.29	10	0.77	2910	<1	0.01	2	1100	34	1.72	<2	2
S835864		4.60	10	<1	0.29	20	0.90	3030	<1	0.01	2	1170	14	0.21	<2	3
S835865		4.61	<10	<1	0.28	20	0.82	3020	<1	0.01	1	1130	14	0.17	<2	3
S835866		5.14	10	1	0.26	20	0.94	3170	<1	0.03	2	1110	9	0.04	<2	3
S835867		6.32	10	<1	0.26	20	1.25	4420	<1	0.02	2	1120	10	0.05	<2	4
S835868		5.26	<10	<1	0.31	10	0.66	2540	<1	0.02	1	1150	6	0.30	<2	3
S835869		4.82	<10	<1	0.30	10	0.70	3050	<1	0.01	1	940	9	0.53	<2	3
S835870		2.15	<10	<1	0.10	10	0.39	487	<1	0.08	2	590	2	0.06	<2	2
S835871		5.06	<10	<1	0.26	10	0.89	3940	<1	0.02	1	940	11	0.72	<2	3
S835872		5.29	<10	<1	0.30	10	0.85	3360	<1	0.02	2	1080	13	0.28	<2	3
S835873		7.44	10	1	0.28	10	1.17	3810	1	0.01	2	1080	15	2.15	<2	3
S835874		6.32	10	1	0.26	10	1.12	3160	1	0.02	2	1150	12	1.73	<2	3
S835875		6.77	10	1	0.21	20	1.43	4110	1	0.02	2	1230	8	1.35	<2	5
S835876		5.16	10	1	0.22	10	1.05	3270	<1	0.03	1	1090	7	1.16	<2	4
S835877		4.87	10	<1	0.24	20	1.12	3680	<1	0.02	1	1220	4	0.10	<2	5
S835878		4.71	10	<1	0.26	20	1.06	3720	<1	0.02	1	1210	4	0.02	<2	6
S835879		4.83	10	<1	0.26	20	1.05	3750	<1	0.02	1	1230	6	0.06	<2	5
S835880		5.06	10	<1	0.29	20	1.08	3670	<1	0.02	1	1240	6	0.07	<2	5
S835881		4.74	10	<1	0.24	20	1.05	3800	<1	0.02	2	1180	4	0.08	<2	4
S835882		5.02	10	<1	0.27	20	1.06	3990	<1	0.03	1	1270	4	0.01	<2	6
S835883		4.71	10	<1	0.31	20	1.00	3700	<1	0.02	2	1180	12	0.81	<2	3
S835884		4.66	10	<1	0.37	20	1.14	4320	<1	0.02	1	1280	6	0.26	<2	4
S835885		4.70	10	<1	0.31	20	1.14	4110	<1	0.02	1	1230	3	0.01	2	4
S835886		3.92	10	<1	0.32	20	0.90	3870	<1	0.03	1	1220	5	0.02	<2	4



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Project: Forrest Kerr

CERTIFICATE OF ANALYSIS TR17174031

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-OG46
		Sr	Th	Ti	Ti	U	V	W	Zn	Cu
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
		1	20	0.01	10	10	1	10	2	0.001
S835847		64	<20	0.04	<10	<10	29	<10	697	
S835848		95	<20	<0.01	<10	<10	29	<10	100	
S835849		137	<20	<0.01	<10	<10	26	<10	105	
S835850		139	<20	<0.01	<10	<10	24	<10	96	
S835851		189	<20	<0.01	<10	<10	16	<10	89	
S835852		195	<20	<0.01	<10	<10	21	<10	118	
S835853		277	<20	<0.01	<10	<10	14	<10	95	
S835854		196	<20	<0.01	<10	<10	27	<10	124	
S835855		153	<20	<0.01	<10	<10	33	10	127	
S835856		223	<20	<0.01	<10	<10	27	20	145	
S835857		310	<20	<0.01	<10	<10	28	40	151	
S835858		245	<20	<0.01	<10	<10	30	20	212	1.835
S835859		313	<20	<0.01	<10	<10	37	10	331	3.95
S835860		47	<20	0.09	<10	<10	48	<10	37	
S835861		292	<20	<0.01	<10	<10	33	<10	198	1.795
S835862		118	<20	<0.01	<10	<10	29	<10	147	
S835863		65	<20	<0.01	<10	<10	33	<10	620	
S835864		51	<20	<0.01	<10	<10	47	<10	213	
S835865		62	<20	0.01	<10	<10	52	<10	167	
S835866		68	<20	0.01	<10	<10	65	<10	148	
S835867		88	<20	0.01	<10	<10	63	<10	191	
S835868		75	<20	0.02	<10	<10	58	<10	111	
S835869		76	<20	0.01	<10	<10	35	<10	138	
S835870		44	<20	0.09	<10	<10	47	<10	36	
S835871		127	<20	0.01	<10	<10	43	<10	168	
S835872		76	<20	0.02	<10	<10	57	<10	165	
S835873		57	<20	<0.01	<10	<10	54	<10	227	
S835874		53	<20	<0.01	<10	<10	62	<10	165	
S835875		90	<20	<0.01	<10	<10	78	<10	187	
S835876		99	<20	<0.01	<10	<10	63	<10	136	
S835877		97	<20	0.01	<10	<10	76	<10	142	
S835878		143	<20	0.02	<10	<10	74	<10	126	
S835879		215	<20	0.02	<10	<10	71	<10	126	
S835880		169	<20	0.02	<10	<10	75	10	129	
S835881		137	<20	0.02	<10	<10	70	<10	121	
S835882		139	<20	0.02	<10	<10	89	<10	130	
S835883		138	<20	0.01	<10	<10	49	<10	137	
S835884		129	<20	<0.01	<10	<10	54	<10	157	
S835885		129	<20	0.01	<10	<10	69	<10	137	
S835886		181	<20	0.02	<10	<10	76	<10	102	



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CERTIFICATE OF ANALYSIS TR17174031

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Terrace located at 2912 Molitor Street, Terrace, BC, Canada.			
	CRU-31	CRU-QC	LOG-22	LOG-24
	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-GRA21	Au-ICP21	Cu-OG46	ME-ICP41
	ME-OG46			



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 19-JAN-2018
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CERTIFICATE TR17179045

Project: Forrest Kerr

This report is for 125 Drill Core samples submitted to our lab in Terrace, BC, Canada on 21-AUG-2017.

The following have access to data associated with this certificate:

CORNELL MCDOWELL		
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
LOG-23	Pulp Login - Rcvd with Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Cu-OG46	Ore Grade Cu - Aqua Regia	ICP-AES
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: **ABEN RESOURCES LTD.**
ATTN: ALS GEOCHEMISTRY

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 TR17179045

Sample Description	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %
	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
S835887	2.32	0.002	<0.2	1.55	<2	<10	300	<0.5	<2	1.99	<0.5	8	2	6	4.04
S835888	2.32	0.005	<0.2	1.93	<2	<10	160	<0.5	2	1.94	<0.5	8	1	10	5.21
S835889	2.53	1.735	0.7	1.77	<2	<10	350	<0.5	<2	1.26	<0.5	6	2	60	5.09
S835890	0.06	0.306	2.2	1.72	28	<10	70	<0.5	<2	0.74	3.6	11	25	2280	4.75
S835891	2.22	0.097	0.3	2.06	2	<10	140	<0.5	<2	0.98	<0.5	7	2	17	5.32
S835892	2.08	3.53	3.2	1.86	5	<10	50	<0.5	5	2.07	<0.5	18	2	1805	6.85
S835893	1.94	0.160	1.9	1.66	6	<10	40	<0.5	3	1.23	11.4	18	3	1190	6.48
S835894	2.00	0.549	0.8	1.76	3	<10	180	<0.5	5	1.79	2.4	13	2	340	5.16
S835895	2.08	0.005	<0.2	1.23	<2	<10	110	0.5	<2	3.07	<0.5	8	2	8	3.31
S835896	2.91	0.002	<0.2	1.22	<2	<10	290	0.5	<2	3.16	<0.5	8	1	2	3.44
S835897	2.14	0.022	1.2	1.35	<2	<10	880	0.5	<2	3.23	<0.5	8	1	1350	3.66
S835898	2.44	1.500	23.6	1.05	4	<10	20	<0.5	15	3.10	<0.5	23	3	>10000	8.10
S835899	2.54	0.121	0.7	1.87	5	<10	120	<0.5	4	0.72	<0.5	13	2	339	5.99
S835900	1.38	<0.001	<0.2	0.55	<2	<10	90	<0.5	2	0.55	<0.5	3	5	18	1.83
S835901	1.94	0.042	0.4	1.83	<2	<10	160	<0.5	2	1.47	<0.5	7	2	92	4.66
S835902	2.44	0.094	0.2	2.07	<2	<10	130	0.5	<2	0.75	<0.5	8	2	208	5.32
S835903	2.16	0.004	0.2	1.70	<2	<10	570	<0.5	2	2.48	<0.5	7	2	183	4.49
S835904	2.36	0.774	0.6	1.92	<2	<10	840	<0.5	<2	1.58	<0.5	7	2	90	4.70
S835905	2.09	0.057	0.2	1.72	<2	<10	810	<0.5	<2	1.70	<0.5	7	1	99	4.61
S835906	1.53	0.862	0.4	2.02	4	<10	800	<0.5	2	1.12	<0.5	8	1	249	5.48
S835907	1.97	0.024	<0.2	1.91	<2	<10	940	<0.5	2	1.23	<0.5	9	1	216	4.72
S835908	2.80	0.005	<0.2	1.53	<2	<10	440	<0.5	<2	2.30	<0.5	8	2	152	3.78
S835909	1.24	0.010	<0.2	1.56	<2	<10	490	<0.5	<2	2.23	<0.5	7	2	19	4.35
S835910	1.31	0.001	0.2	1.61	<2	<10	500	<0.5	2	3.33	<0.5	9	3	525	4.01
S835911	2.21	0.003	<0.2	1.18	<2	<10	1090	0.5	2	3.72	<0.5	9	1	2	3.46
S835912	2.08	0.050	<0.2	1.11	<2	<10	320	<0.5	<2	3.67	<0.5	9	1	1	3.24
S835913	2.24	0.050	<0.2	1.05	<2	<10	260	<0.5	2	3.70	<0.5	9	1	6	3.19
S835914	2.18	0.017	<0.2	1.01	<2	<10	130	<0.5	<2	3.41	<0.5	9	1	1	3.19
S835915	2.13	0.006	<0.2	1.08	<2	<10	170	0.6	<2	4.60	<0.5	9	1	1	3.30
S835916	2.39	0.009	<0.2	1.13	<2	<10	440	0.6	<2	3.48	<0.5	10	1	1	3.33
S835917	2.41	0.221	<0.2	0.97	<2	<10	1140	0.7	<2	4.59	<0.5	6	1	4	3.14
S835918	1.95	0.007	<0.2	1.36	<2	<10	250	0.7	<2	3.01	<0.5	8	1	3	3.94
S835919	2.41	0.001	<0.2	1.21	<2	<10	550	0.7	2	4.33	<0.5	9	1	2	3.36
S835920	1.72	<0.001	<0.2	0.53	<2	<10	60	<0.5	<2	0.60	<0.5	4	5	5	1.80
S835921	2.48	0.001	<0.2	1.27	<2	<10	340	0.7	<2	3.92	<0.5	8	2	6	3.31
S835922	2.49	0.011	0.2	1.16	5	<10	110	0.6	<2	3.41	<0.5	10	1	48	3.70
S835923	2.07	0.005	<0.2	1.33	<2	<10	670	<0.5	<2	3.19	<0.5	8	2	76	3.43
S835924	2.34	0.006	0.2	1.87	<2	<10	320	<0.5	2	1.57	<0.5	8	1	720	4.71
S835925	2.30	0.051	0.4	2.51	3	<10	80	<0.5	2	1.02	<0.5	14	1	68	7.38
S835926	2.29	0.118	0.3	2.00	5	<10	260	<0.5	<2	0.89	<0.5	11	2	64	5.86



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
S835887		10	<1	0.27	20	0.97	3710	<1	0.02	1	1180	5	<0.01	<2	4	122
S835888		10	<1	0.28	20	1.01	3720	<1	0.01	1	1190	5	0.10	2	3	72
S835889		10	<1	0.23	20	1.00	3440	<1	0.01	1	940	5	0.05	<2	3	89
S835890		<10	<1	0.31	<10	0.53	858	18	0.06	19	680	59	2.84	<2	2	61
S835891		10	1	0.25	20	1.16	3570	<1	0.01	1	1090	4	0.02	<2	3	70
S835892		10	1	0.26	10	0.98	4220	<1	0.01	1	820	21	2.14	<2	3	124
S835893		10	1	0.26	10	0.90	3640	1	0.01	2	870	31	2.67	<2	2	90
S835894		10	<1	0.25	10	0.95	4240	1	0.01	1	1030	27	0.99	<2	3	114
S835895		<10	<1	0.31	20	0.68	3490	<1	0.01	1	1330	4	0.02	<2	3	144
S835896		<10	<1	0.30	20	0.72	3520	<1	0.01	1	1280	3	<0.01	<2	3	173
S835897		<10	<1	0.29	20	0.82	4130	<1	0.01	1	1240	6	0.28	<2	3	196
S835898		<10	1	0.15	10	0.56	3960	3	<0.01	1	270	23	6.17	<2	1	178
S835899		10	<1	0.20	10	1.01	3590	1	0.01	1	940	12	1.68	<2	2	52
S835900		<10	<1	0.09	10	0.27	398	<1	0.06	1	580	2	0.02	<2	1	39
S835901		10	<1	0.25	20	1.01	3610	<1	0.01	2	1170	15	0.08	<2	3	74
S835902		10	<1	0.24	20	1.10	3590	<1	0.01	1	1110	6	0.08	<2	3	59
S835903		10	1	0.23	20	1.12	4610	<1	0.02	1	1190	5	0.02	<2	6	149
S835904		10	<1	0.20	20	1.20	3410	<1	0.02	2	1280	4	0.01	<2	5	95
S835905		10	<1	0.26	20	1.02	3290	<1	0.02	1	1220	5	0.03	<2	4	130
S835906		10	<1	0.22	10	1.15	3920	<1	0.01	<1	1110	9	0.29	<2	3	98
S835907		10	1	0.26	20	1.14	3550	<1	0.02	1	1260	3	0.06	<2	3	92
S835908		10	<1	0.28	20	1.03	3320	<1	0.02	1	1210	3	0.01	<2	4	119
S835909		10	<1	0.20	20	1.08	3830	<1	0.02	<1	1230	5	<0.01	<2	5	123
S835910		10	<1	0.23	20	1.16	4120	<1	0.02	1	1200	3	0.04	<2	5	147
S835911		<10	<1	0.27	20	0.91	2840	<1	0.02	1	1330	<2	0.01	<2	4	162
S835912		<10	<1	0.26	20	0.82	2750	<1	0.02	1	1290	2	<0.01	<2	4	157
S835913		<10	1	0.26	20	0.77	2560	<1	0.02	1	1270	3	<0.01	2	4	152
S835914		<10	<1	0.25	20	0.76	2350	<1	0.02	1	1290	3	<0.01	<2	4	128
S835915		<10	<1	0.28	20	0.84	2980	<1	0.02	1	1310	2	<0.01	<2	4	201
S835916		<10	1	0.28	20	0.87	3460	<1	0.02	1	1310	2	<0.01	<2	4	206
S835917		<10	1	0.34	30	0.74	4270	<1	0.02	1	1130	5	0.01	<2	3	285
S835918		<10	<1	0.30	20	0.92	3530	<1	0.02	1	1310	4	<0.01	<2	4	151
S835919		<10	<1	0.32	20	0.82	3730	<1	0.02	1	1330	2	<0.01	<2	4	212
S835920		<10	<1	0.08	10	0.30	407	<1	0.06	1	600	2	0.03	<2	1	32
S835921		<10	<1	0.32	20	0.83	3430	<1	0.03	1	1320	4	<0.01	<2	4	237
S835922		<10	<1	0.30	10	0.70	3330	1	0.02	1	1300	13	1.67	<2	3	209
S835923		10	<1	0.27	20	0.73	3770	<1	0.02	1	1240	6	0.28	<2	4	220
S835924		10	<1	0.23	20	1.05	3770	<1	0.02	1	1260	6	0.12	2	4	146
S835925		10	<1	0.23	10	1.18	3940	<1	0.01	1	1170	13	1.41	<2	3	92
S835926		10	1	0.23	10	0.99	3580	<1	0.01	1	1020	8	1.05	<2	3	78



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-OG46
		Th	Ti	Ti	U	V	W	Zn	Cu
		ppm	%	ppm	ppm	ppm	ppm	ppm	%
		20	0.01	10	10	1	10	2	0.001
S835887		<20	0.02	<10	<10	71	<10	123	
S835888		<20	<0.01	<10	<10	64	<10	166	
S835889		<20	0.01	<10	<10	53	<10	149	
S835890		<20	0.03	<10	<10	28	<10	682	
S835891		<20	0.01	<10	<10	60	<10	179	
S835892		<20	<0.01	<10	<10	55	10	202	
S835893		<20	<0.01	<10	<10	40	<10	2300	
S835894		<20	<0.01	<10	<10	42	<10	688	
S835895		<20	0.01	<10	<10	40	<10	133	
S835896		<20	0.01	<10	<10	41	<10	135	
S835897		<20	<0.01	<10	<10	36	<10	158	
S835898		<20	<0.01	<10	<10	23	<10	111	1.840
S835899		<20	<0.01	<10	<10	44	<10	158	
S835900		<20	0.08	<10	<10	43	<10	34	
S835901		<20	0.01	<10	<10	59	<10	148	
S835902		<20	<0.01	<10	<10	55	<10	148	
S835903		<20	0.01	<10	<10	69	<10	126	
S835904		<20	0.01	<10	<10	77	<10	141	
S835905		<20	0.01	<10	<10	67	<10	129	
S835906		<20	<0.01	<10	<10	50	<10	155	
S835907		<20	0.01	<10	<10	70	<10	146	
S835908		<20	0.01	<10	<10	66	<10	118	
S835909		<20	0.02	<10	<10	83	<10	120	
S835910		<20	0.01	<10	<10	64	<10	130	
S835911		<20	0.01	<10	<10	51	<10	95	
S835912		<20	0.01	<10	<10	50	<10	86	
S835913		<20	0.02	<10	<10	51	<10	82	
S835914		<20	0.02	<10	<10	51	<10	79	
S835915		<20	0.02	<10	<10	47	<10	92	
S835916		<20	0.01	<10	<10	45	<10	101	
S835917		<20	0.01	<10	<10	43	<10	75	
S835918		<20	0.02	<10	<10	64	<10	109	
S835919		<20	0.02	<10	<10	52	<10	94	
S835920		<20	0.07	<10	<10	45	<10	37	
S835921		<20	0.01	<10	<10	50	<10	97	
S835922		<20	<0.01	<10	<10	29	<10	96	
S835923		<20	0.01	<10	<10	50	<10	116	
S835924		<20	0.01	<10	<10	62	<10	166	
S835925		<20	<0.01	<10	<10	57	<10	208	
S835926		<20	<0.01	<10	<10	49	<10	162	



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Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
LOR		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
S835927		2.39	0.004	<0.2	2.32	2	<10	860	<0.5	2	0.74	<0.5	6	2	25	5.95
S835928		2.67	0.002	<0.2	2.37	<2	<10	520	<0.5	<2	0.82	<0.5	6	2	1	6.27
S835929		1.16	0.053	<0.2	2.29	<2	<10	740	<0.5	<2	0.70	<0.5	8	1	10	6.33
S835930		1.23	0.074	<0.2	2.34	<2	<10	640	<0.5	<2	0.68	<0.5	8	1	10	6.41
S835931		1.84	0.130	<0.2	2.21	<2	<10	640	<0.5	<2	0.79	<0.5	8	1	113	5.68
S835932		2.50	0.362	0.2	1.86	<2	<10	650	<0.5	<2	0.97	<0.5	7	2	167	5.07
S835933		2.15	0.015	<0.2	1.71	<2	<10	310	<0.5	<2	0.91	<0.5	8	2	29	4.69
S835934		1.65	0.001	<0.2	1.63	<2	<10	940	<0.5	2	1.55	<0.5	6	2	14	4.46
S835935		2.16	0.048	<0.2	1.95	<2	<10	880	<0.5	<2	0.98	<0.5	7	1	17	5.13
S835936		1.85	0.019	<0.2	1.82	<2	<10	540	<0.5	<2	2.16	<0.5	7	1	262	4.61
S835937		2.25	0.006	<0.2	1.80	<2	<10	710	<0.5	<2	1.80	<0.5	7	1	88	4.27
S835938		1.60	0.025	<0.2	2.07	2	<10	290	<0.5	<2	1.43	<0.5	9	1	31	4.86
S835939		1.97	0.038	0.3	1.40	2	<10	1140	0.6	<2	2.38	<0.5	10	1	211	4.01
S835940		1.60	0.002	<0.2	0.47	<2	<10	50	<0.5	<2	0.43	<0.5	3	4	2	1.56
S835941		1.99	0.013	<0.2	1.28	<2	<10	1960	<0.5	2	2.45	<0.5	7	1	20	3.35
S835942		1.50	0.011	<0.2	1.19	<2	<10	550	<0.5	<2	4.31	<0.5	7	1	11	3.20
S835943		2.33	0.005	<0.2	1.13	<2	<10	490	0.5	<2	2.74	<0.5	7	1	2	3.19
S835944		2.52	0.033	0.2	1.31	5	<10	980	0.5	<2	4.35	<0.5	7	1	142	3.43
S835945		1.96	0.031	<0.2	0.94	<2	<10	1430	0.5	<2	3.13	<0.5	6	1	11	3.18
S835946		1.74	0.036	0.4	1.18	<2	<10	1430	0.6	<2	3.08	<0.5	8	1	344	3.75
S835947		2.26	0.014	<0.2	1.36	<2	<10	1060	0.7	<2	2.48	0.5	9	1	130	2.98
S835948		2.11	0.013	1.1	0.72	<2	<10	1260	0.5	<2	4.05	<0.5	6	1	1715	2.90
S835949		0.99	0.018	<0.2	1.23	<2	<10	1690	<0.5	<2	2.86	<0.5	8	1	20	4.25
S835950		1.10	0.003	0.2	1.32	<2	<10	1870	<0.5	<2	2.52	<0.5	8	1	4	4.43
S835951		2.49	0.102	<0.2	0.89	<2	<10	790	0.5	<2	2.79	<0.5	6	1	65	2.91
S835952		1.97	<0.001	<0.2	0.92	<2	<10	940	<0.5	<2	3.94	<0.5	5	1	7	2.30
S835953		2.17	<0.001	0.2	1.22	5	<10	590	<0.5	<2	3.25	<0.5	6	2	107	2.69
S835954		2.10	0.005	<0.2	0.91	<2	<10	420	0.5	<2	3.46	<0.5	5	1	1	2.35
S835955		2.58	0.009	<0.2	0.86	<2	<10	190	0.5	<2	3.34	<0.5	5	1	1	2.43
S835956		2.30	0.002	<0.2	0.85	<2	<10	160	0.5	<2	3.11	<0.5	5	1	1	2.42
S835957		2.37	0.002	<0.2	0.62	<2	<10	600	<0.5	<2	3.14	<0.5	5	1	1	2.23
S835958		2.24	0.003	<0.2	0.85	<2	<10	540	0.5	<2	2.98	<0.5	5	1	<1	2.54
S835959		2.12	0.007	<0.2	0.93	<2	<10	450	<0.5	<2	3.40	<0.5	5	1	1	2.51
S835960		0.06	0.318	2.1	1.79	32	<10	70	<0.5	<2	0.77	3.7	14	26	2400	4.89
S835961		2.57	0.001	<0.2	1.03	4	<10	230	<0.5	<2	3.62	2.9	6	1	2	2.49
S835962		1.82	<0.001	<0.2	1.04	<2	<10	140	0.5	<2	3.17	<0.5	6	1	3	2.51
S835963		2.44	0.003	<0.2	1.13	<2	<10	110	0.5	<2	2.62	<0.5	7	1	1	2.72
S835964		2.20	0.001	<0.2	1.01	<2	<10	340	0.5	<2	3.56	<0.5	5	2	1	2.43
S835965		2.54	<0.001	<0.2	1.12	<2	<10	150	0.6	<2	3.25	<0.5	5	1	1	2.56
S835966		2.42	<0.001	0.2	1.26	14	<10	90	0.8	<2	3.33	13.3	6	1	3	2.59



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
S835927		10	<1	0.18	20	1.20	3410	<1	0.01	1	1210	3	0.04	2	4	94
S835928		10	<1	0.16	20	1.26	3510	<1	0.01	1	1010	4	0.01	<2	3	79
S835929		10	<1	0.18	10	1.26	3460	<1	0.01	1	1110	3	0.04	<2	3	75
S835930		10	<1	0.18	20	1.29	3480	<1	0.01	1	1110	<2	0.02	<2	3	68
S835931		10	<1	0.19	10	1.25	3980	<1	0.01	<1	1110	3	0.11	<2	3	77
S835932		10	<1	0.17	10	1.11	3610	<1	0.01	1	1120	3	0.10	<2	4	74
S835933		10	<1	0.19	20	1.04	3520	<1	0.02	2	1220	4	0.04	<2	3	69
S835934		10	<1	0.18	20	1.06	4720	<1	0.02	1	1150	3	0.02	2	4	115
S835935		10	<1	0.17	20	1.13	3740	<1	0.02	1	1180	3	0.05	<2	4	91
S835936		10	1	0.20	20	1.18	4870	<1	0.02	<1	1340	5	0.04	<2	5	182
S835937		10	<1	0.21	20	1.21	4430	<1	0.02	2	1250	6	0.06	<2	4	158
S835938		10	<1	0.22	20	1.33	4250	<1	0.02	2	1250	6	0.03	<2	5	101
S835939		<10	<1	0.35	20	0.87	3400	<1	0.02	2	1190	12	0.30	<2	4	221
S835940		<10	<1	0.08	10	0.25	379	<1	0.05	1	530	2	0.02	<2	1	26
S835941		<10	1	0.30	20	0.75	3620	<1	0.02	<1	1240	6	0.06	<2	3	203
S835942		<10	1	0.34	20	0.70	4530	<1	0.02	1	1290	5	0.02	<2	3	304
S835943		<10	<1	0.36	20	0.65	3620	<1	0.02	1	1380	3	0.01	<2	3	174
S835944		<10	<1	0.34	20	0.81	4860	<1	0.02	<1	1250	8	0.14	<2	3	293
S835945		<10	<1	0.36	20	0.64	3580	<1	0.02	<1	1300	9	0.03	<2	3	259
S835946		<10	1	0.34	20	0.87	3660	<1	0.02	1	1300	8	0.12	<2	3	242
S835947		<10	<1	0.36	20	0.91	2510	<1	0.02	3	1340	6	0.06	<2	3	229
S835948		<10	<1	0.34	20	0.80	3730	<1	0.02	1	1180	7	0.22	<2	3	309
S835949		<10	1	0.30	20	0.82	3890	<1	0.02	1	1190	6	0.04	<2	3	204
S835950		<10	<1	0.30	20	0.78	3560	<1	0.02	1	1210	6	0.05	<2	3	189
S835951		<10	<1	0.32	20	0.65	2360	<1	0.02	2	1260	5	0.03	<2	2	176
S835952		<10	<1	0.30	20	0.61	2500	<1	0.02	<1	1090	6	0.02	<2	2	268
S835953		<10	<1	0.30	20	0.71	2580	<1	0.02	1	1130	6	0.03	<2	2	143
S835954		<10	<1	0.30	20	0.48	2080	<1	0.02	<1	1110	3	<0.01	<2	2	135
S835955		<10	<1	0.31	20	0.47	1860	<1	0.02	1	1140	4	<0.01	<2	2	137
S835956		<10	<1	0.30	20	0.47	1795	<1	0.02	1	1110	2	<0.01	<2	2	123
S835957		<10	<1	0.31	20	0.43	2090	<1	0.02	1	1040	5	0.01	<2	2	189
S835958		<10	<1	0.33	20	0.50	1940	<1	0.02	<1	1190	3	0.01	<2	2	158
S835959		<10	<1	0.30	20	0.52	2000	<1	0.02	<1	1110	4	0.01	<2	2	159
S835960		10	<1	0.33	<10	0.56	913	18	0.06	20	700	63	2.95	<2	2	64
S835961		<10	<1	0.30	20	0.57	2180	<1	0.02	<1	1130	7	0.02	<2	2	144
S835962		<10	<1	0.30	20	0.54	2050	<1	0.03	3	1120	6	<0.01	3	2	141
S835963		<10	<1	0.30	20	0.59	1780	<1	0.03	<1	1190	4	<0.01	<2	2	109
S835964		<10	<1	0.28	20	0.56	2130	<1	0.03	1	1070	5	0.01	<2	2	165
S835965		<10	<1	0.32	20	0.55	2000	<1	0.03	1	1160	7	<0.01	<2	2	126
S835966		<10	<1	0.33	20	0.59	2220	<1	0.04	1	1280	320	0.10	<2	2	123



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-OG46
		Th	Ti	Ti	U	V	W	Zn	Cu
		ppm	%	ppm	ppm	ppm	ppm	ppm	%
		20	0.01	10	10	1	10	2	0.001
S835927		<20	<0.01	<10	<10	73	<10	169	
S835928		<20	<0.01	<10	<10	59	10	150	
S835929		<20	0.01	<10	<10	63	<10	149	
S835930		<20	0.01	<10	<10	65	<10	151	
S835931		<20	0.01	<10	<10	59	<10	163	
S835932		<20	0.01	<10	<10	67	<10	154	
S835933		<20	0.02	<10	<10	73	<10	140	
S835934		<20	0.01	<10	<10	69	<10	132	
S835935		<20	0.01	<10	<10	77	<10	157	
S835936		<20	0.01	<10	<10	71	<10	153	
S835937		<20	0.01	<10	<10	62	<10	146	
S835938		<20	0.01	<10	<10	67	<10	176	
S835939		<20	<0.01	<10	<10	29	<10	155	
S835940		<20	0.07	<10	<10	38	<10	33	
S835941		<20	<0.01	<10	<10	36	<10	149	
S835942		<20	0.01	<10	<10	38	<10	121	
S835943		<20	0.01	<10	<10	37	<10	106	
S835944		<20	<0.01	<10	<10	29	<10	143	
S835945		<20	0.01	<10	<10	53	<10	128	
S835946		<20	0.01	<10	<10	46	<10	150	
S835947		<20	<0.01	<10	<10	29	<10	198	
S835948		<20	0.01	<10	<10	29	<10	93	
S835949		<20	0.02	<10	<10	44	<10	161	
S835950		<20	0.02	<10	<10	47	10	178	
S835951		<20	0.01	<10	<10	40	<10	98	
S835952		<20	<0.01	<10	<10	26	<10	87	
S835953		<20	<0.01	<10	<10	29	<10	113	
S835954		<20	<0.01	<10	<10	35	<10	73	
S835955		<20	0.01	<10	<10	40	<10	64	
S835956		<20	0.01	<10	<10	40	<10	65	
S835957		<20	<0.01	<10	<10	31	<10	55	
S835958		<20	<0.01	<10	<10	38	<10	67	
S835959		<20	<0.01	<10	<10	36	<10	73	
S835960		<20	0.03	<10	<10	29	<10	716	
S835961		<20	<0.01	<10	<10	31	<10	373	
S835962		<20	<0.01	<10	<10	35	<10	77	
S835963		<20	<0.01	<10	<10	38	<10	78	
S835964		<20	<0.01	<10	<10	32	<10	76	
S835965		<20	<0.01	<10	<10	36	<10	83	
S835966		<20	<0.01	<10	<10	30	<10	1625	



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Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
LOR		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
S835967		2.57	0.001	<0.2	1.24	4	<10	260	0.5	<2	3.66	0.9	6	1	2	2.86
S835968		2.29	0.029	<0.2	1.22	30	<10	670	<0.5	<2	4.33	4.3	7	1	2	2.76
S835969		2.36	0.002	<0.2	1.36	5	<10	450	0.5	<2	2.74	0.6	7	1	1	3.12
S835970		1.20	<0.001	<0.2	0.49	<2	<10	50	<0.5	<2	0.41	<0.5	3	4	2	1.53
S835971		2.37	0.023	<0.2	1.20	31	<10	1390	0.5	<2	3.67	1.7	7	1	7	2.73
S835972		2.12	0.006	<0.2	1.12	13	<10	970	0.5	<2	3.43	0.5	7	1	17	2.77
S835973		2.53	0.009	<0.2	1.02	<2	<10	340	<0.5	<2	2.98	<0.5	6	1	2	2.83
S835974		2.14	<0.001	<0.2	1.05	<2	<10	160	<0.5	<2	2.70	<0.5	7	1	2	2.96
S835975		2.37	0.021	<0.2	1.15	5	<10	140	0.5	<2	2.65	<0.5	8	1	2	2.98
S835976		2.39	0.006	<0.2	0.94	<2	<10	250	0.5	<2	3.33	0.6	6	1	2	2.68
S835977		2.38	0.007	<0.2	1.06	3	<10	210	0.6	<2	2.82	<0.5	7	1	2	3.05
S835978		2.07	0.004	0.2	0.85	22	<10	200	0.6	<2	3.46	4.8	7	1	3	2.56
S835979		1.22	0.012	0.3	1.00	39	<10	290	0.5	<2	2.86	3.9	8	1	3	2.43
S835980		1.24	0.009	0.2	0.79	26	<10	520	<0.5	<2	3.52	3.9	6	1	3	2.10
S835981		1.47	0.002	<0.2	0.79	4	<10	640	0.5	<2	4.35	0.7	5	1	4	2.47
S835982		2.26	0.001	<0.2	0.78	<2	<10	160	0.6	<2	2.53	<0.5	7	1	3	3.00
S835983		1.36	0.001	<0.2	0.45	2	<10	410	0.5	<2	4.15	2.0	3	1	2	2.07
S835984		2.64	0.002	<0.2	0.62	<2	<10	280	<0.5	<2	4.64	<0.5	5	1	3	2.22
S835985		2.23	<0.001	<0.2	0.63	2	<10	160	<0.5	<2	2.73	<0.5	5	1	2	2.60
S835986		2.51	0.006	<0.2	0.61	<2	<10	260	<0.5	<2	2.99	<0.5	5	1	1	2.47
S835987		1.70	0.001	<0.2	0.58	<2	<10	100	<0.5	<2	2.70	<0.5	5	1	1	2.56
S835988		1.83	0.001	<0.2	0.63	<2	<10	80	<0.5	<2	2.62	<0.5	6	1	1	2.63
S835989		2.23	<0.001	<0.2	0.69	2	<10	240	<0.5	<2	2.82	<0.5	5	1	1	2.54
S835990		1.34	<0.001	<0.2	0.46	<2	<10	50	<0.5	<2	0.38	<0.5	2	4	3	1.42
S835991		2.50	0.001	<0.2	0.84	2	<10	510	<0.5	<2	3.32	1.9	6	1	16	2.57
S835992		1.98	<0.001	<0.2	0.69	<2	<10	190	<0.5	<2	2.88	<0.5	6	1	2	2.60
S835993		2.16	0.001	<0.2	0.53	<2	<10	620	<0.5	<2	3.31	<0.5	5	1	2	2.46
S835994		2.54	0.018	<0.2	0.54	<2	<10	570	0.5	<2	3.59	<0.5	4	1	3	2.16
S835995		1.82	0.001	<0.2	0.80	2	<10	280	0.6	<2	3.01	<0.5	7	1	1	2.83
S835996		2.35	0.006	<0.2	0.64	<2	<10	1030	0.6	<2	3.47	<0.5	6	1	1	2.77
S835997		2.82	<0.001	<0.2	0.58	<2	<10	870	0.5	<2	2.69	<0.5	6	1	1	2.69
S835998		1.93	<0.001	<0.2	0.38	<2	<10	1970	0.5	<2	2.64	<0.5	4	1	2	2.48
S835999		1.05	<0.001	<0.2	0.66	<2	<10	110	0.5	<2	1.93	<0.5	6	1	1	3.02
S836000		1.01	<0.001	<0.2	0.68	2	<10	90	0.5	2	2.09	<0.5	7	1	1	3.06
S836001		1.77	<0.001	<0.2	0.61	<2	<10	810	0.5	2	3.93	<0.5	6	1	1	2.89
S836002		2.22	<0.001	<0.2	0.50	<2	<10	610	0.5	<2	3.28	<0.5	4	1	1	2.90
S836003		1.70	<0.001	<0.2	0.40	<2	<10	1210	0.5	<2	3.76	<0.5	6	1	1	2.97
S836004		2.59	<0.001	<0.2	0.42	<2	<10	620	0.5	<2	2.80	<0.5	4	1	1	2.78
S836005		2.05	0.001	<0.2	0.61	<2	<10	560	0.7	<2	3.22	<0.5	6	1	1	3.10
S836006		2.05	0.006	<0.2	0.97	<2	<10	400	0.7	2	1.94	2.6	8	1	34	3.03



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		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
S835967		<10	<1	0.31	20	0.67	2290	<1	0.03	1	1330	27	0.01	<2	3	138
S835968		10	<1	0.29	20	0.71	2650	<1	0.03	1	1280	54	0.06	<2	3	195
S835969		10	<1	0.32	20	0.82	2250	<1	0.03	1	1390	36	0.02	<2	3	127
S835970		<10	<1	0.09	10	0.23	373	<1	0.07	2	500	2	0.01	<2	1	27
S835971		<10	<1	0.32	20	0.78	2590	<1	0.03	1	1260	75	0.08	2	3	195
S835972		<10	<1	0.30	20	0.66	2220	<1	0.04	<1	1280	30	0.05	<2	3	130
S835973		<10	<1	0.28	20	0.65	1870	<1	0.03	1	1330	11	0.01	<2	3	107
S835974		<10	<1	0.28	20	0.73	1750	<1	0.03	1	1410	9	<0.01	<2	3	93
S835975		<10	<1	0.29	20	0.82	1735	<1	0.03	2	1370	17	0.01	2	3	109
S835976		<10	<1	0.28	20	0.68	1940	<1	0.03	1	1370	24	0.01	<2	3	128
S835977		<10	<1	0.30	20	0.79	1815	<1	0.04	1	1480	9	<0.01	<2	3	120
S835978		<10	<1	0.31	20	0.54	1945	<1	0.04	1	1390	131	0.05	<2	2	184
S835979		<10	<1	0.30	20	0.63	1865	<1	0.03	2	1340	124	0.08	<2	3	143
S835980		<10	<1	0.26	20	0.52	2020	<1	0.03	1	1190	124	0.06	<2	2	168
S835981		<10	<1	0.28	20	0.55	2460	<1	0.03	1	1230	70	0.02	<2	3	217
S835982		<10	1	0.30	20	0.59	1730	<1	0.04	1	1380	7	<0.01	<2	4	110
S835983		<10	<1	0.30	20	0.37	2110	<1	0.03	1	1180	54	0.01	<2	2	278
S835984		<10	<1	0.27	20	0.43	2440	<1	0.03	1	1180	14	0.01	<2	3	191
S835985		<10	<1	0.29	20	0.37	1525	<1	0.03	1	1290	7	<0.01	<2	3	116
S835986		<10	<1	0.28	20	0.38	1685	<1	0.03	1	1230	12	<0.01	<2	3	152
S835987		<10	<1	0.26	20	0.40	1515	<1	0.04	1	1260	5	<0.01	3	3	145
S835988		<10	<1	0.26	20	0.44	1565	<1	0.04	<1	1320	5	<0.01	2	3	129
S835989		<10	<1	0.29	20	0.45	1650	<1	0.03	<1	1290	10	<0.01	<2	3	182
S835990		<10	<1	0.09	10	0.22	353	<1	0.07	1	450	3	0.04	<2	1	25
S835991		<10	<1	0.29	20	0.50	2000	<1	0.03	<1	1290	95	0.05	3	3	216
S835992		<10	<1	0.29	20	0.39	1580	1	0.03	1	1240	5	0.01	3	3	128
S835993		<10	<1	0.30	20	0.33	1670	<1	0.04	<1	1250	5	0.03	<2	3	182
S835994		<10	<1	0.30	20	0.29	1800	<1	0.04	<1	1200	4	0.04	<2	3	189
S835995		<10	<1	0.32	20	0.59	2070	<1	0.04	1	1460	4	0.03	<2	3	150
S835996		<10	<1	0.33	20	0.73	2350	<1	0.04	1	1350	6	0.03	<2	3	237
S835997		<10	<1	0.30	20	0.75	1780	<1	0.05	1	1400	6	0.02	<2	3	189
S835998		<10	<1	0.30	20	0.58	1600	<1	0.05	<1	1410	3	0.04	<2	3	151
S835999		<10	<1	0.30	20	0.76	1375	<1	0.06	<1	1480	4	<0.01	<2	3	107
S836000		<10	<1	0.30	20	0.76	1525	1	0.06	1	1520	4	<0.01	<2	3	113
S836001		<10	<1	0.30	20	0.82	2350	<1	0.06	<1	1420	4	0.01	<2	4	246
S836002		<10	<1	0.33	20	0.62	2180	<1	0.06	<1	1410	5	0.01	<2	3	232
S836003		<10	1	0.35	20	0.81	2890	<1	0.05	<1	1510	3	0.02	<2	3	238
S836004		<10	1	0.33	20	0.43	1760	<1	0.05	<1	1490	3	0.01	<2	3	190
S836005		<10	<1	0.38	20	0.78	2480	<1	0.06	<1	1610	3	0.01	<2	3	187
S836006		<10	<1	0.37	20	0.64	2800	<1	0.05	2	1580	85	0.13	<2	3	125



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-OG46
		Th	Ti	Ti	U	V	W	Zn	Cu
		ppm	%	ppm	ppm	ppm	ppm	ppm	%
		20	0.01	10	10	1	10	2	0.001
S835967		<20	0.01	<10	<10	41	<10	170	
S835968		<20	0.01	<10	<10	37	<10	369	
S835969		<20	0.01	<10	<10	44	<10	180	
S835970		<20	0.07	<10	<10	38	<10	30	
S835971		<20	0.01	<10	<10	32	<10	252	
S835972		<20	0.01	<10	<10	45	<10	145	
S835973		<20	0.02	<10	<10	52	<10	105	
S835974		<20	0.03	<10	<10	56	<10	107	
S835975		<20	0.02	<10	<10	57	<10	136	
S835976		<20	0.03	<10	<10	54	<10	110	
S835977		<20	0.03	<10	<10	58	<10	105	
S835978		<20	0.02	<10	<10	47	<10	313	
S835979		<20	0.01	<10	<10	35	<10	321	
S835980		<20	0.01	<10	<10	31	<10	295	
S835981		<20	0.02	<10	<10	39	<10	111	
S835982		<20	0.04	<10	<10	62	<10	84	
S835983		<20	0.03	<10	<10	39	<10	128	
S835984		<20	0.03	<10	<10	41	<10	63	
S835985		<20	0.05	<10	<10	49	<10	61	
S835986		<20	0.04	<10	<10	48	<10	72	
S835987		<20	0.05	<10	<10	50	<10	57	
S835988		<20	0.05	<10	<10	52	<10	56	
S835989		<20	0.04	<10	<10	46	<10	79	
S835990		<20	0.07	<10	<10	36	<10	29	
S835991		<20	0.03	<10	<10	40	<10	338	
S835992		<20	0.04	<10	<10	47	<10	65	
S835993		<20	0.04	<10	<10	44	<10	41	
S835994		<20	0.03	<10	<10	39	<10	37	
S835995		<20	0.03	<10	<10	55	<10	68	
S835996		<20	0.03	<10	<10	52	<10	61	
S835997		<20	0.03	<10	<10	55	<10	58	
S835998		<20	0.04	<10	<10	53	<10	35	
S835999		<20	0.05	<10	<10	64	<10	65	
S836000		<20	0.05	<10	<10	64	<10	68	
S836001		<20	0.04	<10	<10	56	<10	61	
S836002		<20	0.04	<10	<10	55	<10	44	
S836003		<20	0.04	<10	<10	49	<10	44	
S836004		<20	0.05	<10	<10	55	<10	31	
S836005		<20	0.03	<10	<10	47	<10	70	
S836006		<20	0.01	<10	<10	35	<10	499	



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
S836007		1.50	0.016	0.8	0.81	<2	<10	300	<0.5	2	2.36	24.9	9	1	81	2.87
S836008		1.66	0.104	1.7	0.94	<2	<10	1110	0.6	5	1.30	3.7	9	1	431	4.04
S836009		2.31	0.029	3.3	1.18	<2	<10	300	<0.5	7	1.29	<0.5	9	2	2350	4.77
S836010		1.05	<0.001	<0.2	0.51	<2	<10	60	<0.5	<2	0.48	<0.5	3	5	5	1.74
S836011		1.97	0.062	5.6	0.84	2	<10	80	0.5	12	1.31	13.7	9	2	5060	5.29



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga ppm 10	Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1
S836007		<10	2	0.32	10	0.63	3730	<1	0.03	3	1190	766	0.52	<2	2	157
S836008		<10	2	0.38	10	0.58	4450	<1	0.04	2	1080	171	0.24	<2	3	128
S836009		<10	1	0.34	10	0.64	4960	<1	0.03	3	1040	90	0.63	<2	2	100
S836010		<10	<1	0.09	10	0.26	421	<1	0.08	1	560	2	0.01	<2	1	30
S836011		<10	3	0.36	10	0.57	5190	<1	0.03	2	960	126	1.06	<2	2	132

***** See Appendix Page for comments regarding this certificate *****



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Sample Description	Method Analyte Units LOR	ME-ICP41 Th ppm	ME-ICP41 Ti %	ME-ICP41 Tl ppm	ME-ICP41 U ppm	ME-ICP41 V ppm	ME-ICP41 W ppm	ME-ICP41 Zn ppm	Cu-OG46 Cu %
		20	0.01	10	10	1	10	2	0.001
S836007		<20	<0.01	<10	<10	14	<10	4190	
S836008		<20	<0.01	<10	<10	16	<10	845	
S836009		<20	<0.01	<10	<10	21	<10	244	
S836010		<20	0.08	<10	<10	43	<10	39	
S836011		<20	<0.01	<10	<10	17	<10	2760	



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CERTIFICATE OF ANALYSIS TR17179045

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Terrace located at 2912 Molitor Street, Terrace, BC, Canada.			
	CRU-31	CRU-QC	LOG-22	LOG-23
	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-ICP21	Cu-OG46	ME-ICP41	ME-OG46



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 19-JAN-2018
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CERTIFICATE TR17179051

Project: Forrest Kerr

This report is for 125 Drill Core samples submitted to our lab in Terrace, BC, Canada on 21-AUG-2017.

The following have access to data associated with this certificate:

DEIRDRE HEFFERNAN	CORNELL MCDOWELL
-------------------	------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
LOG-23	Pulp Login - Rcvd with Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Cu-OG46	Ore Grade Cu - Aqua Regia	ICP-AES
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: **ABEN RESOURCES LTD.**
ATTN: ALS GEOCHEMISTRY

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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Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
S836012		2.12	0.057	1.7	1.55	<2	<10	640	<0.5	4	0.68	18.0	11	3	602	4.52
S836013		2.31	0.012	<0.2	1.12	<2	<10	2590	<0.5	<2	1.91	3.7	8	2	8	3.21
S836014		2.11	0.021	0.9	1.23	<2	<10	890	<0.5	2	0.77	19.6	8	2	30	3.50
S836015		2.17	0.029	0.7	1.48	3	<10	490	<0.5	3	1.05	16.7	10	3	92	3.98
S836016		2.57	0.146	1.2	1.52	<2	<10	1020	<0.5	2	1.53	14.3	10	2	347	4.39
S836017		2.39	0.101	0.6	1.53	<2	<10	840	<0.5	3	1.62	19.9	10	2	59	4.73
S836018		2.41	0.080	1.3	1.64	5	<10	300	<0.5	2	1.28	17.1	12	2	660	4.60
S836019		1.46	0.030	0.2	1.29	<2	<10	1290	<0.5	<2	1.23	3.8	10	2	12	3.98
S836020		1.04	0.040	0.4	1.21	<2	<10	1170	<0.5	<2	1.04	4.1	9	2	11	3.81
S836021		2.15	0.147	2.7	0.85	3	<10	120	<0.5	5	0.52	50.1	7	3	419	2.74
S836022		2.24	0.123	5.9	1.56	2	<10	50	<0.5	11	0.40	10.2	14	3	4890	5.11
S836023		2.78	0.042	6.8	0.65	12	<10	70	<0.5	13	0.44	13.8	6	4	4530	2.36
S836024		2.51	0.030	0.8	0.22	5	<10	190	<0.5	<2	0.95	57.2	2	6	25	1.06
S836025		2.28	0.118	0.5	1.02	4	<10	1470	<0.5	2	1.38	9.8	7	3	11	3.09
S836026		2.59	0.115	0.7	0.65	37	<10	540	<0.5	3	0.44	4.4	7	3	6	1.83
S836027		2.21	0.053	<0.2	1.73	3	<10	670	<0.5	<2	0.76	3.6	10	3	4	4.07
S836028		2.27	0.004	<0.2	1.73	3	<10	2280	<0.5	2	0.58	<0.5	10	3	35	3.94
S836029		2.13	0.023	<0.2	1.56	2	<10	510	<0.5	<2	2.58	<0.5	11	3	7	3.83
S836030		0.06	0.297	2.1	1.82	29	<10	70	<0.5	3	0.79	3.7	12	27	2420	5.01
S836031		2.16	0.019	<0.2	1.49	<2	<10	900	<0.5	2	1.74	<0.5	12	3	3	3.84
S836032		2.27	0.015	<0.2	0.86	2	<10	630	<0.5	<2	2.11	<0.5	7	2	4	2.71
S836033		2.40	0.192	<0.2	0.89	4	<10	1110	<0.5	<2	2.05	<0.5	7	3	12	2.79
S836034		2.27	0.085	<0.2	0.95	2	<10	2260	<0.5	<2	1.78	<0.5	8	3	4	2.94
S836035		2.32	0.083	<0.2	0.95	3	<10	2570	<0.5	<2	2.34	<0.5	8	3	7	3.13
S836036		2.23	0.012	<0.2	1.04	2	<10	2880	<0.5	<2	2.02	<0.5	8	2	6	2.96
S836037		2.40	0.003	<0.2	1.02	<2	<10	1010	<0.5	<2	3.63	<0.5	7	2	2	2.77
S836038		2.59	<0.001	<0.2	0.88	<2	<10	1580	<0.5	<2	3.25	<0.5	6	2	3	2.45
S836039		2.48	0.088	0.5	1.19	<2	<10	390	<0.5	<2	1.01	25.0	8	2	65	3.27
S836040		1.08	<0.001	<0.2	0.55	<2	<10	60	<0.5	<2	0.52	<0.5	3	5	4	1.62
S836041		1.92	0.145	0.7	1.70	<2	<10	350	<0.5	<2	1.26	10.5	11	3	264	4.19
S836042		2.53	0.053	0.3	1.57	<2	<10	450	<0.5	<2	1.27	6.9	10	2	43	3.66
S836043		2.17	0.264	0.5	1.27	<2	<10	410	<0.5	<2	1.61	27.5	8	2	73	2.91
S836044		2.49	0.029	3.0	1.79	3	<10	200	<0.5	19	1.15	23.8	11	2	617	4.64
S836045		2.56	0.009	0.4	1.19	4	<10	690	<0.5	<2	0.98	7.5	7	2	22	3.11
S836046		2.34	0.040	0.4	1.49	<2	<10	640	<0.5	<2	1.29	6.2	8	2	32	3.77
S836047		2.12	0.002	<0.2	1.10	9	<10	670	<0.5	<2	0.93	2.0	6	2	12	2.91
S836048		2.19	0.003	0.2	1.19	3	<10	1270	<0.5	<2	0.55	4.1	8	3	48	3.09
S836049		1.37	0.012	0.3	1.53	5	<10	820	<0.5	<2	0.64	2.6	10	3	113	4.02
S836050		1.38	0.009	0.5	1.50	6	<10	840	<0.5	<2	0.53	2.3	11	3	99	3.87
S836051		2.54	0.032	0.5	1.66	8	<10	340	<0.5	<2	0.49	1.6	11	3	74	4.46



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		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
S836012		<10	5	0.35	10	0.66	4720	<1	0.03	4	1270	180	0.42	<2	3	70
S836013		<10	1	0.40	20	0.52	4250	<1	0.03	3	1360	51	0.10	<2	3	205
S836014		<10	5	0.38	20	0.52	3880	<1	0.03	3	1340	195	0.28	<2	3	81
S836015		<10	3	0.33	10	0.65	4930	<1	0.03	3	1140	75	0.40	<2	2	146
S836016		<10	4	0.36	10	0.76	4450	<1	0.03	4	1160	64	0.27	<2	3	212
S836017		<10	6	0.31	20	0.83	4840	<1	0.03	3	1260	27	0.25	<2	3	148
S836018		<10	3	0.37	10	0.80	4450	<1	0.03	3	1250	68	0.77	<2	3	154
S836019		<10	1	0.36	20	0.55	4090	<1	0.03	3	1340	56	0.22	<2	3	244
S836020		<10	1	0.37	20	0.51	3670	<1	0.03	4	1400	89	0.18	<2	3	154
S836021		<10	10	0.35	10	0.29	2860	<1	0.03	3	1090	191	0.67	<2	2	133
S836022		10	3	0.31	10	0.60	3460	<1	0.03	4	980	193	1.49	<2	2	82
S836023		<10	2	0.33	10	0.18	1335	<1	0.02	2	1030	267	0.95	<2	1	118
S836024		<10	7	0.22	10	0.05	875	<1	0.02	1	810	125	0.36	<2	1	328
S836025		<10	1	0.36	20	0.37	3000	<1	0.03	3	1280	398	0.15	<2	3	171
S836026		<10	<1	0.26	10	0.23	1300	<1	0.02	2	830	238	0.15	3	1	275
S836027		10	<1	0.32	20	0.88	4330	<1	0.03	4	1300	10	0.06	<2	3	106
S836028		10	<1	0.29	20	0.90	4170	<1	0.03	4	1280	4	0.10	<2	3	171
S836029		10	<1	0.25	20	0.90	4940	<1	0.03	4	1240	5	0.01	<2	4	267
S836030		<10	<1	0.34	<10	0.57	932	19	0.07	21	720	64	2.99	2	2	65
S836031		10	<1	0.29	20	0.81	3950	<1	0.03	4	1330	3	0.02	<2	4	295
S836032		<10	<1	0.34	20	0.38	2660	<1	0.02	3	1270	5	0.03	<2	3	215
S836033		<10	<1	0.30	20	0.44	2590	<1	0.02	5	1240	6	0.07	<2	3	218
S836034		<10	<1	0.32	20	0.44	2090	<1	0.02	4	1260	5	0.11	2	3	199
S836035		<10	<1	0.29	20	0.48	2630	<1	0.02	4	1230	5	0.13	<2	4	288
S836036		10	<1	0.36	20	0.44	2340	<1	0.03	4	1330	4	0.13	<2	3	214
S836037		<10	<1	0.34	20	0.43	3190	<1	0.03	3	1230	5	0.03	3	3	216
S836038		<10	<1	0.35	20	0.32	3110	<1	0.03	3	1270	16	0.05	2	3	290
S836039		<10	3	0.29	20	0.44	3120	<1	0.02	3	1170	52	0.38	<2	2	128
S836040		<10	<1	0.09	10	0.26	399	<1	0.07	1	520	4	0.02	2	1	35
S836041		10	<1	0.24	10	0.71	4390	<1	0.02	4	1020	82	0.55	<2	3	153
S836042		10	1	0.32	20	0.61	3830	<1	0.02	4	1210	166	0.54	2	2	162
S836043		10	3	0.26	20	0.53	3620	<1	0.02	4	980	267	0.43	<2	3	206
S836044		10	4	0.26	10	0.77	4410	<1	0.02	4	1070	131	0.91	2	3	175
S836045		<10	1	0.32	20	0.50	2790	<1	0.02	3	1260	57	0.39	<2	3	115
S836046		10	1	0.34	20	0.62	3310	<1	0.02	3	1390	64	0.10	<2	3	183
S836047		<10	<1	0.31	10	0.44	2700	<1	0.02	3	1230	45	0.41	<2	2	93
S836048		10	<1	0.24	20	0.55	3890	<1	0.02	3	1100	29	0.22	<2	3	87
S836049		10	<1	0.20	10	0.72	3400	<1	0.02	4	1160	19	0.27	<2	3	87
S836050		10	<1	0.23	10	0.67	2890	<1	0.02	5	1200	32	0.37	<2	3	70
S836051		10	<1	0.26	10	0.70	2840	<1	0.02	3	1160	32	0.77	<2	3	64



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		Th	Ti	Ti	U	V	W	Zn	Cu
		ppm	%	ppm	ppm	ppm	ppm	ppm	%
		20	0.01	10	10	1	10	2	0.001
S836012		<20	0.01	<10	<10	30	<10	4090	
S836013		<20	0.02	<10	<10	28	<10	874	
S836014		<20	0.02	<10	<10	28	<10	4420	
S836015		<20	<0.01	<10	<10	24	<10	3620	
S836016		<20	0.01	<10	<10	28	<10	2920	
S836017		<20	0.02	<10	<10	31	<10	4550	
S836018		<20	<0.01	<10	<10	27	<10	3440	
S836019		<20	0.01	<10	<10	29	<10	1030	
S836020		<20	0.02	<10	<10	30	<10	1080	
S836021		<20	0.01	<10	<10	20	<10	9740	
S836022		<20	<0.01	<10	<10	27	<10	2420	
S836023		<20	0.01	<10	<10	17	<10	2470	
S836024		<20	0.01	<10	<10	15	<10	5520	
S836025		<20	0.02	<10	<10	28	<10	2340	
S836026		<20	0.01	<10	<10	17	<10	833	
S836027		<20	0.01	<10	<10	35	<10	1090	
S836028		<20	<0.01	<10	<10	37	<10	321	
S836029		<20	0.01	<10	<10	42	<10	269	
S836030		<20	0.03	<10	<10	30	<10	742	
S836031		<20	0.01	<10	<10	43	<10	247	
S836032		<20	0.02	<10	<10	30	<10	119	
S836033		<20	0.03	<10	<10	32	<10	109	
S836034		<20	0.02	<10	<10	38	<10	106	
S836035		<20	0.03	<10	<10	39	<10	109	
S836036		<20	0.02	<10	<10	37	<10	107	
S836037		<20	0.02	<10	<10	29	<10	107	
S836038		<20	0.02	<10	<10	24	<10	151	
S836039		<20	0.02	<10	<10	26	<10	5210	
S836040		<20	0.08	<10	<10	39	<10	43	
S836041		<20	<0.01	<10	<10	29	<10	2430	
S836042		<20	<0.01	<10	<10	27	<10	1675	
S836043		<20	<0.01	<10	<10	26	<10	4410	
S836044		<20	<0.01	<10	<10	33	<10	4830	
S836045		<20	0.01	<10	<10	31	<10	1710	
S836046		<20	0.02	<10	<10	39	<10	1455	
S836047		<20	0.01	<10	<10	30	<10	410	
S836048		<20	<0.01	<10	<10	31	<10	812	
S836049		<20	0.01	<10	<10	41	<10	586	
S836050		<20	0.01	<10	<10	39	<10	614	
S836051		<20	0.01	<10	<10	38	<10	508	



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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
S836052		2.53	0.764	1.6	1.31	2	<10	670	<0.5	<2	3.45	16.5	8	3	192	3.77
S836053		2.34	0.016	0.8	1.55	<2	<10	1600	<0.5	3	0.58	<0.5	6	3	489	4.81
S836054		2.61	0.386	3.5	1.64	2	<10	740	<0.5	10	0.50	0.9	8	4	547	4.60
S836055		2.33	0.405	4.5	1.77	8	<10	80	<0.5	20	0.34	<0.5	8	4	1245	5.00
S836056		2.54	0.415	2.6	1.69	5	<10	80	<0.5	7	0.60	7.2	10	3	1655	5.00
S836057		2.29	0.106	1.0	1.58	4	<10	550	<0.5	2	0.84	13.3	5	4	1015	3.63
S836058		2.41	0.198	1.3	2.51	5	<10	460	<0.5	3	0.86	2.9	9	3	884	6.21
S836059		2.23	0.318	1.5	2.22	4	<10	80	<0.5	5	0.78	<0.5	11	4	856	6.25
S836060		1.22	0.001	<0.2	0.53	<2	<10	60	<0.5	<2	0.47	<0.5	3	5	5	1.64
S836061		2.59	0.255	1.0	2.95	4	<10	110	<0.5	4	0.56	1.5	14	4	144	7.99
S836062		2.52	6.62	6.3	2.93	7	<10	40	<0.5	9	1.35	<0.5	18	2	3650	9.49
S836063		2.44	1.120	1.6	2.70	3	<10	330	<0.5	9	1.35	<0.5	8	3	1640	6.98
S836064		2.53	3.54	6.5	2.09	9	<10	70	<0.5	31	3.93	21.2	15	3	>10000	8.40
S836065		2.51	0.452	5.4	2.32	6	<10	30	<0.5	28	2.29	2.1	21	3	5430	7.84
S836066		2.30	0.186	1.0	1.98	<2	<10	630	<0.5	2	2.32	1.0	7	3	888	4.70
S836067		2.15	0.026	0.5	2.40	4	<10	320	<0.5	2	2.19	<0.5	21	2	254	6.09
S836068		2.16	<0.001	0.3	1.54	<2	<10	430	<0.5	<2	1.68	<0.5	7	3	30	4.11
S836069		1.20	<0.001	<0.2	1.55	<2	<10	1300	<0.5	2	1.34	<0.5	9	3	72	3.91
S836070		1.16	0.001	<0.2	1.63	3	<10	690	<0.5	<2	1.14	<0.5	9	3	96	3.87
S836071		2.48	0.002	<0.2	1.52	4	<10	730	<0.5	<2	1.35	<0.5	9	4	100	3.67
S836072		2.18	<0.001	<0.2	1.62	<2	<10	530	<0.5	<2	1.10	<0.5	9	3	11	3.86
S836073		2.21	0.016	<0.2	1.56	5	<10	450	<0.5	<2	3.36	0.7	9	3	19	3.85
S836074		1.94	0.007	1.1	1.46	9	<10	670	<0.5	2	2.89	<0.5	10	3	10	3.57
S836075		2.22	0.001	<0.2	1.60	2	<10	520	<0.5	<2	1.60	<0.5	10	3	22	3.76
S836076		1.36	0.008	<0.2	1.38	4	<10	460	0.6	<2	2.01	<0.5	8	3	22	4.02
S836077		1.86	0.018	<0.2	1.57	<2	<10	420	<0.5	<2	2.92	0.6	9	3	3	4.11
S836078		2.41	0.042	0.2	1.22	3	<10	1080	0.5	2	2.72	0.7	8	3	27	3.28
S836079		2.08	0.007	<0.2	1.25	2	<10	350	0.5	2	3.54	<0.5	9	3	6	3.35
S836080		1.16	<0.001	<0.2	0.54	<2	<10	60	<0.5	<2	0.51	<0.5	3	5	2	1.69
S836081		2.81	0.002	<0.2	1.44	6	<10	740	<0.5	2	2.98	<0.5	11	3	6	3.20
S836082		1.98	0.006	<0.2	1.55	4	<10	2150	0.5	<2	2.99	1.6	10	2	8	3.49
S836083		2.26	0.008	0.4	2.08	2	<10	420	<0.5	2	1.60	10.2	9	2	442	4.79
S836084		2.33	0.224	0.6	2.17	<2	<10	300	<0.5	3	1.33	19.5	9	3	835	5.16
S836085		2.53	0.604	0.9	1.75	<2	<10	370	<0.5	3	1.61	30.9	10	2	17	3.92
S836086		2.80	0.055	0.4	1.81	2	<10	300	<0.5	<2	1.28	12.6	9	3	58	4.30
S836087		2.43	0.014	0.4	1.97	3	<10	320	<0.5	2	1.39	1.7	15	2	8	4.89
S836088		2.22	0.021	0.3	1.52	3	<10	550	<0.5	2	1.30	9.6	10	2	25	3.47
S836089		1.29	0.011	0.3	1.31	<2	<10	930	<0.5	<2	2.65	8.0	8	2	81	3.24
S836090		1.34	0.006	0.4	1.31	<2	<10	1000	<0.5	<2	2.43	9.2	10	2	112	3.40
S836091		2.34	0.020	<0.2	1.49	<2	<10	1690	<0.5	3	2.22	<0.5	10	2	13	3.52



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		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
S836052		10	3	0.23	20	0.63	4690	<1	0.02	3	1120	72	0.42	<2	6	221
S836053		10	<1	0.20	20	0.70	2750	<1	0.02	4	1180	18	0.18	<2	4	86
S836054		10	<1	0.23	10	0.73	3250	<1	0.02	4	1000	51	0.40	<2	3	84
S836055		10	<1	0.16	10	0.84	3830	<1	0.02	3	760	59	0.77	<2	3	88
S836056		10	<1	0.23	10	0.81	4120	<1	0.02	3	790	57	0.84	<2	3	130
S836057		10	1	0.24	20	0.74	3520	<1	0.02	3	1020	32	0.32	<2	3	90
S836058		10	<1	0.22	10	1.23	5160	<1	0.02	4	980	46	0.53	<2	4	106
S836059		10	<1	0.16	10	1.09	5180	<1	0.02	3	690	136	1.35	<2	3	94
S836060		<10	<1	0.10	10	0.25	412	<1	0.07	1	510	3	0.03	<2	1	32
S836061		10	<1	0.11	10	1.48	6030	<1	0.02	3	630	168	1.36	2	3	70
S836062		10	<1	0.18	10	1.39	7000	1	0.02	4	810	92	3.09	<2	4	141
S836063		10	<1	0.20	10	1.28	6210	<1	0.02	4	960	67	0.89	4	4	162
S836064		10	1	0.13	10	1.02	7710	<1	0.02	2	390	267	4.28	<2	3	189
S836065		10	<1	0.21	10	1.15	6600	1	0.02	3	740	90	3.01	2	3	255
S836066		10	<1	0.25	20	0.92	5390	<1	0.02	3	1040	40	0.37	<2	3	234
S836067		10	<1	0.21	10	1.19	6120	<1	0.02	4	1010	31	0.78	<2	4	258
S836068		10	<1	0.21	20	0.84	4020	<1	0.03	3	1230	14	0.03	<2	4	122
S836069		10	<1	0.23	20	0.85	3950	<1	0.03	4	1250	5	0.16	<2	4	98
S836070		10	<1	0.25	20	0.87	3750	<1	0.03	4	1300	7	0.21	<2	4	81
S836071		10	<1	0.22	10	0.78	3400	<1	0.03	4	1230	4	0.22	<2	4	95
S836072		10	<1	0.23	20	0.83	3190	<1	0.04	4	1280	3	0.02	<2	4	82
S836073		10	<1	0.24	20	0.88	5330	<1	0.04	4	1230	10	0.07	<2	4	204
S836074		10	<1	0.23	20	0.85	4270	<1	0.04	4	1300	7	0.09	<2	5	191
S836075		10	<1	0.23	20	0.87	3510	<1	0.04	4	1300	5	0.07	<2	4	131
S836076		10	<1	0.35	30	0.67	3080	<1	0.04	3	1300	10	0.21	<2	4	162
S836077		10	1	0.25	20	0.82	3970	<1	0.04	3	1220	6	0.06	<2	4	182
S836078		<10	<1	0.29	20	0.62	3030	<1	0.04	3	1170	13	0.13	<2	4	169
S836079		<10	<1	0.30	20	0.67	3640	<1	0.05	3	1190	12	0.02	<2	4	151
S836080		<10	<1	0.10	10	0.26	414	<1	0.08	1	540	2	0.02	<2	1	33
S836081		10	<1	0.29	20	0.79	3650	<1	0.04	4	1340	7	0.02	<2	4	130
S836082		<10	1	0.37	20	0.75	4390	<1	0.05	3	1230	12	0.08	2	3	172
S836083		10	2	0.33	20	1.05	5950	<1	0.03	4	1110	33	0.22	<2	2	128
S836084		10	4	0.33	20	1.09	6040	<1	0.03	4	1190	75	0.38	<2	3	94
S836085		<10	6	0.33	20	0.83	4960	<1	0.03	3	1090	59	0.58	<2	2	183
S836086		10	2	0.31	10	0.88	4990	<1	0.03	3	1110	38	0.58	<2	2	83
S836087		10	1	0.32	20	0.95	5050	<1	0.03	3	1190	29	0.64	<2	2	129
S836088		<10	1	0.34	20	0.70	3860	<1	0.03	3	1230	24	0.41	<2	2	116
S836089		<10	2	0.35	20	0.61	4250	<1	0.03	3	1310	18	0.16	<2	3	157
S836090		<10	2	0.38	20	0.59	3930	<1	0.03	3	1310	31	0.27	<2	3	152
S836091		<10	<1	0.33	20	0.76	4560	<1	0.03	4	1300	7	0.05	<2	3	169



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-OG46
		Th	Ti	Ti	U	V	W	Zn	Cu
		ppm	%	ppm	ppm	ppm	ppm	ppm	%
		20	0.01	10	10	1	10	2	0.001
S836052		<20	0.02	<10	<10	39	<10	3680	
S836053		<20	0.03	<10	<10	49	<10	204	
S836054		<20	0.01	<10	<10	41	<10	286	
S836055		<20	<0.01	<10	<10	37	<10	232	
S836056		<20	<0.01	<10	<10	33	<10	1255	
S836057		<20	<0.01	<10	<10	32	<10	2050	
S836058		<20	0.01	<10	<10	48	<10	657	
S836059		<20	<0.01	<10	<10	39	<10	254	
S836060		<20	0.08	<10	<10	40	<10	33	
S836061		<20	<0.01	<10	<10	58	<10	550	
S836062		<20	<0.01	<10	<10	64	<10	373	
S836063		<20	<0.01	<10	<10	55	<10	354	
S836064		<20	<0.01	<10	<10	39	<10	2790	0.930
S836065		<20	<0.01	<10	<10	49	<10	490	
S836066		<20	<0.01	<10	<10	39	<10	436	
S836067		<20	<0.01	<10	<10	43	<10	390	
S836068		<20	0.01	<10	<10	46	<10	216	
S836069		<20	0.01	<10	<10	43	<10	191	
S836070		<20	0.01	<10	<10	43	<10	196	
S836071		<20	0.01	<10	<10	39	<10	174	
S836072		<20	0.01	<10	<10	46	<10	193	
S836073		<20	0.01	<10	<10	38	<10	235	
S836074		<20	0.01	<10	<10	43	<10	176	
S836075		<20	0.01	<10	<10	46	<10	197	
S836076		<20	0.01	<10	<10	43	<10	147	
S836077		<20	0.01	<10	<10	40	<10	195	
S836078		<20	0.01	<10	<10	38	<10	160	
S836079		<20	0.02	<10	<10	36	<10	142	
S836080		<20	0.08	<10	<10	40	<10	37	
S836081		<20	0.01	<10	<10	37	<10	165	
S836082		<20	0.01	<10	<10	34	<10	556	
S836083		<20	<0.01	<10	<10	30	<10	2770	
S836084		<20	<0.01	<10	<10	34	<10	4990	
S836085		<20	<0.01	<10	<10	25	<10	7540	
S836086		<20	<0.01	<10	<10	27	<10	3010	
S836087		<20	<0.01	<10	<10	28	<10	682	
S836088		<20	<0.01	<10	<10	23	<10	2450	
S836089		<20	0.01	<10	<10	28	<10	1900	
S836090		<20	0.01	<10	<10	30	<10	2110	
S836091		<20	0.01	<10	<10	31	<10	189	



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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
S836092		2.11	0.037	<0.2	1.48	3	<10	1050	<0.5	2	3.16	<0.5	12	3	40	3.84
S836093		1.69	0.005	<0.2	1.61	<2	<10	1320	<0.5	<2	2.52	<0.5	10	3	8	4.31
S836094		2.12	0.036	<0.2	1.42	<2	<10	750	<0.5	<2	3.42	<0.5	9	3	2	3.63
S836095		2.14	0.001	0.2	1.24	<2	<10	1410	<0.5	<2	3.62	<0.5	10	3	143	3.31
S836096		2.43	0.004	<0.2	0.97	<2	<10	250	<0.5	<2	4.01	<0.5	8	3	2	3.05
S836097		2.51	0.001	<0.2	0.78	<2	<10	190	<0.5	<2	4.25	<0.5	7	2	3	2.62
S836098		1.86	0.003	<0.2	0.84	<2	<10	380	<0.5	3	3.27	<0.5	6	3	3	2.54
S836099		2.12	<0.001	<0.2	1.04	2	<10	670	0.5	<2	3.79	<0.5	8	3	2	3.17
S836100		1.32	<0.001	<0.2	0.55	<2	<10	60	<0.5	2	0.53	<0.5	3	6	3	1.74
S836101		2.48	<0.001	<0.2	1.05	<2	<10	170	0.5	<2	4.06	<0.5	9	3	1	2.89
S836102		2.70	<0.001	<0.2	1.05	3	<10	270	0.7	2	5.40	<0.5	7	3	<1	3.38
S836103		2.38	<0.001	0.4	1.31	3	10	300	0.9	<2	3.30	<0.5	7	2	176	4.42
S836104		1.34	<0.001	<0.2	1.04	2	<10	3090	<0.5	<2	8.1	<0.5	5	2	314	3.01
S836105		1.59	0.303	0.3	1.16	4	<10	580	<0.5	4	3.51	<0.5	5	3	156	3.90
S836106		1.47	0.042	<0.2	1.32	<2	<10	1500	<0.5	2	3.42	<0.5	6	3	132	3.44
S836107		1.98	0.041	0.3	1.40	3	<10	550	<0.5	<2	2.01	<0.5	8	3	244	3.66
S836108		2.31	0.002	<0.2	1.52	<2	<10	620	<0.5	2	2.33	<0.5	8	3	1	3.97
S836109		1.02	0.009	0.2	1.94	20	<10	460	<0.5	<2	2.18	<0.5	10	2	18	4.35
S836110		1.07	0.015	<0.2	1.89	18	<10	420	0.5	<2	2.17	<0.5	10	2	19	4.32
S836111		2.47	0.002	<0.2	1.55	3	<10	620	<0.5	<2	1.94	<0.5	8	3	8	3.77
S836112		2.35	0.014	<0.2	1.52	<2	<10	470	0.5	<2	2.25	<0.5	9	3	16	3.96
S836113		2.16	0.005	<0.2	1.26	2	<10	690	<0.5	<2	2.41	<0.5	7	3	6	3.29
S836114		2.22	0.005	<0.2	1.77	3	<10	340	<0.5	<2	1.32	<0.5	10	3	48	4.28
S836115		2.55	<0.001	<0.2	1.80	2	<10	540	<0.5	<2	1.07	<0.5	10	3	41	4.87
S836116		2.17	0.002	<0.2	1.92	4	<10	1230	<0.5	<2	1.42	<0.5	11	3	38	5.06
S836117		2.49	0.010	0.3	1.83	<2	<10	800	<0.5	<2	1.69	15.6	11	3	16	4.38
S836118		2.11	0.003	<0.2	1.61	<2	<10	320	<0.5	<2	2.34	5.5	9	3	17	3.61
S836119		2.24	0.003	<0.2	1.51	<2	<10	320	0.5	<2	3.16	2.3	9	2	15	3.26
S836120		1.27	<0.001	<0.2	0.55	<2	<10	60	<0.5	<2	0.51	<0.5	3	4	2	1.71
S836121		2.56	0.009	<0.2	1.40	3	<10	440	<0.5	2	2.34	<0.5	10	3	285	3.47
S836122		2.17	0.001	<0.2	1.18	2	<10	600	0.6	<2	3.92	<0.5	9	3	20	3.32
S836123		2.67	<0.001	<0.2	1.16	<2	<10	280	0.7	<2	4.68	<0.5	9	3	1	3.34
S836124		2.50	<0.001	<0.2	1.21	2	<10	290	0.7	<2	4.16	<0.5	9	3	<1	3.53
S836125		2.41	0.004	0.2	1.25	10	<10	530	0.5	<2	4.40	<0.5	9	2	6	3.47
S836126		2.23	0.004	<0.2	1.55	7	<10	380	0.6	<2	3.17	<0.5	9	3	14	3.88
S836127		2.14	<0.001	<0.2	1.42	<2	<10	690	0.6	<2	3.62	<0.5	7	2	<1	4.04
S836128		2.18	<0.001	<0.2	1.22	2	<10	740	0.5	<2	3.00	<0.5	8	2	7	3.57
S836129		1.12	0.012	<0.2	1.48	3	<10	750	0.7	<2	2.95	<0.5	8	2	28	3.86
S836130		1.26	0.015	0.2	1.39	<2	<10	690	0.6	<2	2.71	<0.5	8	2	26	3.71
S836131		2.70	0.061	1.0	1.65	25	<10	360	0.5	<2	2.85	<0.5	12	2	101	4.05



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
S836092		<10	1	0.34	20	0.75	4380	<1	0.03	3	1190	12	0.15	<2	3	157
S836093		10	<1	0.31	10	0.83	4390	<1	0.03	3	1170	10	0.15	<2	3	172
S836094		<10	<1	0.30	20	0.80	4450	<1	0.04	3	1210	5	0.03	<2	4	183
S836095		<10	<1	0.34	20	0.71	3600	<1	0.04	4	1320	9	0.07	<2	4	212
S836096		<10	<1	0.32	20	0.52	2610	<1	0.04	3	1270	3	<0.01	<2	4	191
S836097		<10	<1	0.33	20	0.39	2200	<1	0.04	3	1220	3	<0.01	<2	4	164
S836098		<10	<1	0.37	20	0.36	1745	<1	0.04	2	1190	4	0.05	<2	3	131
S836099		<10	1	0.32	20	0.52	2540	<1	0.04	2	1210	6	0.03	<2	4	201
S836100		<10	<1	0.10	10	0.26	416	<1	0.08	1	530	3	0.01	<2	1	35
S836101		<10	<1	0.35	20	0.49	2670	<1	0.04	3	1240	5	<0.01	<2	4	157
S836102		<10	<1	0.36	20	0.49	4130	<1	0.05	3	1210	10	0.01	<2	5	253
S836103		<10	<1	0.42	20	0.62	3090	<1	0.06	3	1260	13	0.02	2	4	193
S836104		<10	<1	0.35	20	0.55	5040	<1	0.02	3	950	11	0.10	<2	3	666
S836105		<10	<1	0.29	20	0.65	3330	1	0.03	3	1090	9	0.07	2	4	179
S836106		10	<1	0.33	20	0.70	3350	<1	0.02	4	1130	6	0.04	2	4	235
S836107		10	<1	0.30	20	0.73	3070	<1	0.03	4	1190	7	0.10	<2	4	127
S836108		10	<1	0.30	20	0.78	4030	<1	0.03	4	1170	3	<0.01	2	4	153
S836109		10	1	0.33	20	0.95	4960	<1	0.02	4	1030	11	0.16	<2	3	163
S836110		10	<1	0.35	20	0.93	4740	<1	0.03	4	1140	10	0.16	3	3	159
S836111		10	<1	0.34	20	0.79	4250	<1	0.03	3	1150	4	0.03	<2	4	117
S836112		10	<1	0.30	20	0.78	4220	<1	0.03	4	1070	6	<0.01	2	4	164
S836113		10	<1	0.34	20	0.62	3440	<1	0.03	3	1170	6	0.06	<2	4	136
S836114		10	<1	0.29	20	0.90	3900	<1	0.03	5	1180	7	0.19	<2	3	90
S836115		10	<1	0.26	20	0.88	3760	<1	0.02	4	1090	6	0.08	<2	3	88
S836116		10	<1	0.28	10	0.98	4330	<1	0.02	3	1080	9	0.17	<2	3	142
S836117		10	3	0.30	20	1.01	4910	<1	0.03	3	1130	12	0.25	2	4	125
S836118		10	2	0.31	20	0.82	4420	<1	0.03	4	1240	23	0.07	<2	4	138
S836119		10	1	0.36	20	0.67	4160	<1	0.03	4	1230	55	0.11	<2	3	146
S836120		<10	<1	0.10	10	0.26	411	<1	0.07	1	510	2	<0.01	<2	1	33
S836121		10	1	0.31	10	0.67	3510	<1	0.02	4	1140	6	0.29	<2	3	150
S836122		<10	1	0.33	20	0.63	3150	<1	0.03	3	1220	7	0.03	2	5	221
S836123		<10	<1	0.30	20	0.69	3250	<1	0.04	4	1260	7	<0.01	<2	6	277
S836124		<10	<1	0.36	20	0.67	3020	<1	0.04	4	1200	8	<0.01	2	5	236
S836125		<10	<1	0.34	20	0.63	3190	1	0.03	4	1200	7	0.51	<2	4	234
S836126		10	<1	0.31	20	0.85	2710	1	0.04	4	1230	7	0.35	<2	5	176
S836127		10	<1	0.34	20	0.86	2900	<1	0.04	4	1170	7	<0.01	<2	5	204
S836128		<10	<1	0.32	20	0.73	2360	<1	0.03	4	1150	5	0.02	<2	4	217
S836129		10	<1	0.37	20	0.72	3020	<1	0.03	3	1210	5	0.20	<2	4	181
S836130		10	<1	0.32	20	0.69	2810	<1	0.03	3	1170	6	0.27	2	3	165
S836131		10	<1	0.34	20	0.80	3640	<1	0.03	4	1160	7	0.70	<2	4	142



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-OG46
		Th	Ti	Ti	U	V	W	Zn	Cu
		ppm	%	ppm	ppm	ppm	ppm	ppm	%
		20	0.01	10	10	1	10	2	0.001
S836092		<20	0.01	<10	<10	30	<10	177	
S836093		<20	0.01	<10	<10	35	<10	192	
S836094		<20	0.01	<10	<10	38	<10	165	
S836095		<20	0.01	<10	<10	35	<10	124	
S836096		<20	0.02	<10	<10	39	<10	85	
S836097		<20	0.02	<10	<10	44	<10	60	
S836098		<20	0.02	<10	<10	36	<10	64	
S836099		<20	0.02	<10	<10	30	<10	81	
S836100		<20	0.08	<10	<10	41	<10	36	
S836101		<20	0.02	<10	<10	31	<10	75	
S836102		<20	0.02	<10	<10	33	<10	68	
S836103		<20	0.03	<10	<10	31	10	81	
S836104		<20	0.01	<10	<10	17	<10	74	
S836105		<20	0.02	<10	<10	36	<10	100	
S836106		<20	0.01	<10	<10	29	<10	112	
S836107		<20	0.01	<10	<10	35	<10	127	
S836108		<20	0.01	<10	<10	33	<10	150	
S836109		<20	<0.01	<10	<10	22	<10	207	
S836110		<20	<0.01	<10	<10	22	<10	198	
S836111		<20	0.01	<10	<10	29	<10	152	
S836112		<20	0.01	<10	<10	26	<10	165	
S836113		<20	0.01	<10	<10	31	<10	128	
S836114		<20	0.01	<10	<10	29	<10	179	
S836115		<20	0.01	<10	<10	32	<10	189	
S836116		<20	0.01	<10	<10	31	<10	230	
S836117		<20	<0.01	<10	<10	30	<10	3830	
S836118		<20	0.01	<10	<10	30	<10	1600	
S836119		<20	<0.01	<10	<10	20	<10	706	
S836120		<20	0.08	<10	<10	41	<10	35	
S836121		<20	0.01	<10	<10	29	<10	133	
S836122		<20	0.02	<10	<10	38	<10	87	
S836123		<20	0.02	<10	<10	47	<10	80	
S836124		<20	0.02	<10	<10	44	<10	77	
S836125		<20	0.01	<10	<10	33	<10	88	
S836126		<20	0.01	<10	<10	34	<10	104	
S836127		<20	0.02	<10	<10	38	<10	85	
S836128		<20	0.01	<10	<10	35	<10	84	
S836129		<20	0.01	<10	<10	31	<10	109	
S836130		<20	0.01	<10	<10	29	<10	99	
S836131		<20	0.01	<10	<10	29	<10	131	



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CERTIFICATE OF ANALYSIS TR17179051

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
S836132		2.33	0.012	0.4	1.79	11	<10	290	0.5	<2	1.63	<0.5	8	2	56	4.05
S836133		2.00	<0.001	<0.2	1.91	<2	<10	950	0.5	<2	2.16	<0.5	8	2	196	4.21
S836134		2.72	0.067	1.4	1.44	37	<10	190	0.8	<2	1.66	<0.5	11	2	277	3.85
S836135		2.53	0.014	<0.2	1.99	<2	<10	330	0.5	<2	2.41	<0.5	7	2	60	4.22
S836136		2.55	0.004	<0.2	1.91	4	<10	600	0.5	<2	3.34	<0.5	8	2	57	4.25



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
S836132		10	1	0.30	20	0.92	3470	<1	0.03	4	1180	4	0.27	3	3	113
S836133		10	<1	0.31	20	1.04	3750	<1	0.03	4	1190	3	0.03	<2	4	144
S836134		<10	<1	0.34	20	0.69	2400	1	0.03	4	1240	12	1.21	<2	3	101
S836135		10	<1	0.29	20	1.09	3320	<1	0.03	4	1140	4	<0.01	<2	4	131
S836136		10	<1	0.31	20	1.03	3620	<1	0.03	3	1150	9	0.37	<2	4	182



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Sample Description	Method Analyte Units LOR	ME-ICP41 Th ppm	ME-ICP41 Ti %	ME-ICP41 Tl ppm	ME-ICP41 U ppm	ME-ICP41 V ppm	ME-ICP41 W ppm	ME-ICP41 Zn ppm	Cu-OG46 Cu %
		20	0.01	10	10	1	10	2	0.001
S836132		<20	<0.01	<10	<10	25	<10	156	
S836133		<20	0.01	<10	<10	36	<10	170	
S836134		<20	<0.01	<10	<10	22	<10	114	
S836135		<20	<0.01	<10	<10	38	<10	161	
S836136		<20	<0.01	<10	<10	41	<10	157	



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CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Terrace located at 2912 Molitor Street, Terrace, BC, Canada.			
	CRU-31	CRU-QC	LOG-22	LOG-23
	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-ICP21	Cu-OG46	ME-ICP41	ME-OG46



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CERTIFICATE TR17179156

Project: Forrest Kerr

This report is for 126 Drill Core samples submitted to our lab in Terrace, BC, Canada on 23-AUG-2017.

The following have access to data associated with this certificate:

CORNELL MCDOWELL		
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: **ABEN RESOURCES LTD.**
ATTN: ALS GEOCHEMISTRY

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 TR17179156

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
S836137		2.49	0.005	0.4	1.64	7	<10	700	0.5	<2	3.11	<0.5	10	2	297	3.68
S836138		2.15	0.008	0.5	1.46	5	<10	780	0.9	<2	2.15	<0.5	10	2	414	3.45
S836139		2.23	0.004	0.2	1.14	<2	<10	1240	0.6	<2	3.56	<0.5	8	1	49	3.02
S836140		1.08	<0.001	<0.2	0.63	<2	<10	90	<0.5	<2	0.66	<0.5	3	4	3	1.76
S836141		2.08	0.003	0.2	0.96	<2	<10	310	0.6	<2	3.95	<0.5	9	2	1	2.91
S836142		2.38	0.005	<0.2	1.00	<2	<10	110	0.6	<2	3.43	<0.5	9	2	1	2.99
S836143		2.42	0.001	<0.2	1.24	<2	<10	350	0.5	<2	3.35	<0.5	9	2	4	3.41
S836144		2.77	<0.001	0.2	1.23	<2	<10	770	0.5	<2	3.65	<0.5	7	2	102	3.50
S836145		2.68	0.001	0.5	1.01	<2	<10	380	0.5	<2	3.39	<0.5	8	2	682	3.10
S836146		2.84	0.001	0.3	0.75	<2	<10	370	0.5	<2	2.74	<0.5	7	2	212	2.98
S836147		2.13	0.007	0.7	1.32	2	<10	660	0.5	2	2.45	<0.5	11	2	773	3.83
S836148		2.41	<0.001	<0.2	1.05	<2	<10	460	0.5	2	3.22	<0.5	9	2	72	3.20
S836149		1.33	0.024	0.6	0.88	4	<10	270	0.6	<2	3.85	<0.5	10	1	49	3.41
S836150		1.20	0.020	0.6	1.03	6	<10	170	0.6	2	3.39	<0.5	12	2	90	3.88
S836151		2.74	0.053	2.1	0.63	12	<10	30	0.7	3	1.01	<0.5	22	1	22	5.50
S836152		2.02	0.038	1.2	0.53	10	<10	70	0.9	2	5.67	<0.5	15	1	18	3.77
S836153		2.39	0.001	<0.2	0.58	<2	<10	700	0.5	<2	3.51	<0.5	5	2	7	2.05
S836154		2.40	0.009	0.2	0.75	<2	<10	2510	0.6	<2	5.01	<0.5	9	1	21	3.55
S836155		2.00	0.002	0.3	0.92	2	<10	500	0.6	<2	3.74	<0.5	11	1	23	3.20
S836156		2.04	0.001	0.2	1.16	2	<10	430	0.6	<2	4.56	0.5	10	2	19	3.46
S836157		2.21	<0.001	0.3	1.32	2	<10	190	0.6	<2	4.61	<0.5	11	2	23	3.67
S836158		2.31	0.002	0.3	1.51	10	<10	380	0.7	2	2.63	1.7	10	2	84	4.18
S836159		2.85	0.071	0.6	0.64	24	<10	20	0.7	2	0.69	<0.5	13	1	115	4.80
S836160		1.06	<0.001	<0.2	0.57	<2	<10	110	<0.5	<2	0.54	<0.5	3	5	3	1.73
S836161		2.40	0.006	<0.2	0.95	5	<10	230	0.6	<2	3.20	<0.5	10	1	85	3.60
S836162		2.27	0.009	0.2	0.50	6	<10	50	0.6	<2	3.14	0.9	10	1	45	4.51
S836163		2.43	0.034	0.4	0.45	22	<10	110	0.8	2	1.83	<0.5	15	1	516	4.23
S836164		2.30	0.006	0.2	0.96	4	<10	300	0.6	<2	3.58	0.6	11	1	208	3.71
S836165		2.24	0.008	0.2	1.30	2	<10	370	0.8	<2	3.24	0.5	12	1	122	3.84
S836166		2.75	0.147	0.7	1.11	13	10	180	1.3	<2	2.83	1.6	14	1	231	3.97
S836167		1.97	0.039	0.4	0.81	5	<10	540	0.8	2	4.21	<0.5	10	1	94	3.39
S836168		2.16	0.001	<0.2	0.66	<2	<10	3090	0.6	<2	5.80	<0.5	7	1	19	3.24
S836169		1.50	0.002	<0.2	0.59	<2	<10	1010	0.6	<2	4.67	<0.5	8	1	33	2.89
S836170		1.63	<0.001	<0.2	0.57	<2	<10	1070	0.6	<2	5.18	<0.5	8	1	8	2.98
S836171		2.15	<0.001	<0.2	0.57	<2	<10	550	0.6	2	4.22	<0.5	7	1	3	2.82
S836172		2.23	<0.001	<0.2	0.38	<2	<10	1650	0.6	<2	4.88	<0.5	6	1	2	2.63
S836173		2.49	<0.001	<0.2	0.48	<2	<10	2110	0.6	<2	5.60	<0.5	8	1	2	2.94
S836174		3.05	0.006	<0.2	0.94	<2	<10	620	0.6	<2	4.32	<0.5	10	1	2	2.99
S836175		2.24	0.002	<0.2	1.24	<2	<10	310	0.6	<2	4.06	<0.5	10	1	10	3.17
S836176		2.65	0.010	0.2	1.48	7	<10	280	0.6	<2	3.00	<0.5	12	1	139	3.59



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
S836137		<10	<1	0.38	10	0.91	3150	<1	0.04	2	1150	9	0.44	3	3	169
S836138		<10	<1	0.47	20	0.70	2140	<1	0.05	1	1240	9	0.32	<2	3	186
S836139		<10	<1	0.40	20	0.70	3310	<1	0.04	1	1090	6	0.13	3	3	242
S836140		<10	<1	0.10	10	0.29	412	<1	0.07	<1	540	<2	0.01	<2	1	47
S836141		<10	<1	0.38	20	0.59	2160	<1	0.04	2	1320	2	<0.01	2	3	234
S836142		<10	<1	0.38	20	0.61	1645	<1	0.05	1	1220	5	<0.01	2	3	201
S836143		<10	<1	0.34	20	0.87	2540	<1	0.04	2	1190	4	<0.01	<2	3	180
S836144		<10	<1	0.36	20	0.90	3210	<1	0.04	2	1140	8	0.02	3	3	171
S836145		<10	<1	0.34	20	0.71	2310	<1	0.04	<1	1140	3	0.07	<2	3	150
S836146		<10	<1	0.39	20	0.51	1635	<1	0.05	<1	1260	4	0.02	<2	3	164
S836147		<10	1	0.34	20	1.07	2740	<1	0.04	1	1250	13	0.12	<2	3	141
S836148		<10	<1	0.39	20	0.74	2370	<1	0.05	1	1250	3	<0.01	<2	3	176
S836149		<10	<1	0.37	10	0.71	3020	3	0.04	<1	1270	15	0.95	<2	2	224
S836150		<10	<1	0.39	10	0.78	3020	4	0.04	2	1350	15	1.13	<2	3	160
S836151		<10	<1	0.37	<10	0.46	1025	4	0.05	3	1420	32	4.32	<2	3	79
S836152		<10	<1	0.43	10	1.03	3640	1	0.04	<1	1080	21	1.17	<2	3	316
S836153		<10	<1	0.36	20	0.40	1900	<1	0.04	1	1010	3	0.03	<2	2	146
S836154		<10	1	0.43	20	1.04	4150	<1	0.04	<1	1170	7	0.11	<2	3	269
S836155		<10	<1	0.34	20	0.80	2590	<1	0.05	<1	1240	9	0.51	<2	3	194
S836156		<10	<1	0.35	10	0.91	2630	<1	0.05	1	1250	20	0.51	<2	3	207
S836157		<10	<1	0.32	20	1.03	2730	<1	0.05	1	1300	6	0.57	<2	4	235
S836158		<10	<1	0.38	20	1.22	2690	<1	0.05	1	1300	7	0.84	2	3	144
S836159		<10	<1	0.36	10	0.53	954	1	0.06	<1	1430	17	3.78	2	2	74
S836160		<10	<1	0.09	10	0.30	405	<1	0.06	1	530	3	0.02	<2	1	35
S836161		<10	<1	0.29	20	0.97	2820	<1	0.05	<1	1310	5	1.03	<2	3	169
S836162		<10	1	0.30	20	1.13	3380	<1	0.04	<1	1200	7	1.71	3	3	170
S836163		<10	1	0.31	20	0.97	2360	2	0.05	1	1280	10	1.38	2	3	121
S836164		<10	<1	0.32	10	0.87	2810	<1	0.05	1	1270	7	0.83	<2	3	187
S836165		<10	<1	0.31	10	0.96	2590	<1	0.05	2	1350	8	0.61	<2	3	195
S836166		<10	<1	0.42	20	0.83	2170	4	0.05	1	1260	16	1.28	<2	4	173
S836167		<10	<1	0.32	20	0.81	2480	1	0.05	<1	1430	8	0.45	2	4	244
S836168		<10	<1	0.31	20	0.99	2670	<1	0.04	<1	1360	5	0.08	2	3	467
S836169		<10	<1	0.31	20	0.70	1830	<1	0.05	<1	1530	4	0.03	<2	3	295
S836170		<10	<1	0.31	20	0.73	2020	<1	0.05	<1	1460	3	0.02	<2	3	328
S836171		<10	<1	0.36	20	0.61	1480	<1	0.05	<1	1460	3	0.01	2	3	237
S836172		<10	<1	0.30	20	0.69	1610	<1	0.05	<1	1470	5	0.04	2	3	323
S836173		<10	<1	0.33	20	1.19	2100	<1	0.05	<1	1350	4	0.05	2	3	415
S836174		<10	<1	0.29	20	0.71	1720	<1	0.05	1	1480	2	0.01	<2	3	265
S836175		<10	<1	0.33	20	0.79	1905	<1	0.05	<1	1510	3	<0.01	3	3	232
S836176		<10	<1	0.29	20	1.00	2090	1	0.04	<1	1480	7	0.72	2	3	179



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
S836137		<20	<0.01	<10	<10	57	<10	124
S836138		<20	<0.01	<10	<10	39	<10	128
S836139		<20	<0.01	<10	<10	25	<10	138
S836140		<20	0.08	<10	<10	41	<10	32
S836141		<20	0.01	<10	<10	50	<10	78
S836142		<20	0.01	<10	<10	55	<10	67
S836143		<20	0.01	<10	<10	48	<10	101
S836144		<20	0.01	<10	<10	46	<10	109
S836145		<20	0.01	<10	<10	50	<10	95
S836146		<20	0.02	<10	<10	54	<10	71
S836147		<20	<0.01	<10	<10	36	<10	162
S836148		<20	0.01	<10	<10	43	<10	110
S836149		<20	<0.01	<10	<10	21	<10	115
S836150		<20	<0.01	<10	<10	25	<10	128
S836151		<20	<0.01	<10	<10	16	<10	88
S836152		<20	<0.01	<10	<10	15	<10	74
S836153		<20	0.01	<10	<10	28	<10	51
S836154		<20	<0.01	<10	<10	27	<10	78
S836155		<20	<0.01	<10	<10	20	<10	113
S836156		<20	<0.01	<10	<10	33	<10	207
S836157		<20	<0.01	<10	<10	36	<10	148
S836158		<20	<0.01	<10	<10	31	<10	418
S836159		<20	<0.01	<10	<10	15	<10	70
S836160		<20	0.08	<10	<10	41	<10	33
S836161		<20	<0.01	<10	<10	25	<10	133
S836162		<20	<0.01	<10	<10	19	<10	293
S836163		<20	<0.01	<10	<10	23	<10	167
S836164		<20	<0.01	<10	<10	30	<10	214
S836165		<20	<0.01	<10	<10	33	<10	217
S836166		<20	<0.01	<10	<10	23	<10	342
S836167		<20	0.01	<10	<10	34	<10	112
S836168		<20	0.02	<10	<10	44	<10	69
S836169		<20	0.03	<10	<10	49	<10	57
S836170		<20	0.03	<10	<10	49	<10	54
S836171		<20	0.03	<10	<10	53	<10	43
S836172		<20	0.04	<10	<10	50	<10	33
S836173		<20	0.04	<10	<10	48	<10	50
S836174		<20	0.01	<10	<10	44	<10	94
S836175		<20	0.01	<10	<10	45	<10	120
S836176		<20	<0.01	<10	<10	32	<10	152



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	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
S836177		2.67	0.004	0.2	1.57	3	<10	400	0.6	<2	3.69	0.5	12	1	280	3.56
S836178		2.22	0.010	0.3	1.67	10	<10	240	0.7	3	2.22	<0.5	15	1	382	4.07
S836179		2.33	0.004	<0.2	0.86	4	<10	420	0.6	<2	4.12	<0.5	10	1	83	3.25
S836180		1.24	<0.001	<0.2	0.54	2	<10	60	<0.5	<2	0.57	<0.5	3	5	3	1.78
S836181		2.12	<0.001	<0.2	0.85	<2	<10	380	0.5	<2	4.38	<0.5	9	1	7	3.02
S836182		2.61	<0.001	<0.2	0.79	<2	<10	130	0.6	<2	4.34	<0.5	7	1	1	2.76
S836183		2.38	0.001	<0.2	0.75	<2	<10	180	0.6	<2	4.75	<0.5	7	1	2	2.79
S836184		2.71	0.003	<0.2	0.85	<2	<10	470	0.6	<2	4.95	<0.5	9	1	2	2.99
S836185		2.30	0.005	0.2	1.16	<2	<10	540	0.7	<2	4.21	<0.5	9	1	47	3.34
S836186		2.97	0.004	0.2	1.87	3	<10	630	0.5	<2	3.35	<0.5	11	1	29	3.97
S836187		2.50	0.002	<0.2	1.23	<2	<10	430	0.6	<2	4.06	<0.5	10	1	3	3.01
S836188		2.46	<0.001	<0.2	0.70	<2	<10	600	0.6	<2	4.59	<0.5	7	1	1	2.81
S836189		1.42	<0.001	<0.2	0.65	2	<10	1090	0.6	<2	4.58	<0.5	7	1	1	2.73
S836190		1.38	<0.001	<0.2	0.71	<2	<10	510	0.7	<2	4.08	<0.5	7	1	2	2.82
S836191		2.44	<0.001	<0.2	0.52	<2	<10	340	0.6	<2	4.95	<0.5	5	2	1	2.88
S836192		2.36	<0.001	<0.2	0.82	<2	<10	1360	0.6	<2	4.77	<0.5	9	2	1	3.18
S836193		2.93	0.007	<0.2	1.19	2	<10	450	0.6	<2	4.92	<0.5	10	2	7	2.92
S836194		2.76	<0.001	<0.2	0.78	<2	<10	180	0.6	<2	4.65	<0.5	9	1	2	3.08
S836195		2.42	<0.001	<0.2	0.71	<2	<10	220	0.6	<2	6.01	<0.5	8	1	1	2.66
S836196		2.28	<0.001	<0.2	0.61	<2	<10	250	0.6	<2	5.15	<0.5	8	1	7	2.95
S836197		2.54	<0.001	0.2	0.59	<2	<10	290	0.6	<2	4.68	<0.5	8	1	4	2.83
S836198		2.54	<0.001	<0.2	0.66	<2	<10	530	0.6	<2	5.26	<0.5	8	1	3	2.86
S836199		2.61	<0.001	<0.2	0.78	2	<10	260	0.6	<2	5.00	<0.5	10	1	2	3.06
S836200		1.63	<0.001	<0.2	0.56	<2	<10	60	<0.5	<2	0.54	<0.5	4	6	4	1.86
S836201		2.43	<0.001	<0.2	0.77	<2	<10	260	0.6	<2	5.01	<0.5	9	2	3	2.96
S836202		2.53	<0.001	<0.2	0.66	2	<10	410	0.6	<2	4.85	<0.5	8	1	2	2.85
S836203		2.56	<0.001	<0.2	0.73	<2	<10	1250	0.7	3	4.30	<0.5	8	1	3	3.08
S836204		2.01	<0.001	0.2	0.67	<2	<10	620	0.6	<2	6.10	<0.5	8	1	3	2.58
S836205		2.29	<0.001	<0.2	0.63	<2	<10	300	0.6	<2	4.36	<0.5	7	1	2	2.74
S836206		2.30	0.002	<0.2	0.83	<2	<10	1230	0.6	<2	4.90	0.6	9	1	24	3.13
S836207		2.49	0.009	0.2	1.94	<2	<10	930	0.6	2	3.34	<0.5	9	2	117	4.47
S836208		2.12	0.021	0.3	2.07	9	<10	210	0.6	<2	2.82	<0.5	17	2	95	5.29
S836209		1.33	0.052	0.4	1.63	<2	<10	420	0.6	3	2.70	6.1	12	1	660	4.61
S836210		1.40	0.017	0.3	1.60	2	<10	250	0.6	<2	2.65	0.7	11	1	196	4.34
S836211		2.35	0.022	0.4	1.49	3	<10	130	0.5	2	3.11	5.3	12	2	130	5.24
S836212		2.31	<0.001	0.2	0.96	<2	<10	1890	0.5	<2	5.05	2.1	9	1	32	3.98
S836213		2.75	0.202	0.3	1.11	<2	<10	950	0.6	<2	3.94	15.2	9	2	119	3.49
S836214		2.16	0.023	0.2	1.33	2	<10	1150	0.6	<2	4.89	1.9	10	1	95	3.90
S836215		2.17	<0.001	0.2	1.22	<2	<10	1590	0.6	<2	4.13	0.6	11	1	44	3.53
S836216		2.69	<0.001	0.2	1.33	2	<10	2200	0.6	<2	5.56	0.8	11	1	40	3.80



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		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
S836177		<10	<1	0.34	20	1.09	2630	1	0.04	1	1520	7	0.53	<2	3	285
S836178		<10	<1	0.35	20	1.14	2220	2	0.05	1	1620	7	0.95	<2	3	180
S836179		<10	<1	0.35	20	0.79	1770	<1	0.06	<1	1600	4	0.27	3	3	275
S836180		<10	<1	0.08	10	0.29	391	<1	0.06	<1	610	2	0.03	<2	1	32
S836181		<10	<1	0.34	20	0.78	1615	<1	0.05	<1	1540	4	0.01	2	3	263
S836182		<10	<1	0.32	20	0.70	1410	<1	0.05	<1	1490	4	<0.01	<2	3	253
S836183		<10	<1	0.32	20	0.59	1495	<1	0.05	<1	1450	5	<0.01	<2	3	268
S836184		<10	<1	0.31	20	0.75	1590	<1	0.05	<1	1470	4	0.01	<2	3	335
S836185		<10	<1	0.33	20	0.83	1865	<1	0.05	<1	1480	5	0.19	<2	3	283
S836186		10	<1	0.32	20	1.22	2710	<1	0.04	<1	1430	6	0.27	3	2	200
S836187		<10	<1	0.33	20	0.84	2150	<1	0.05	1	1460	4	0.01	<2	3	244
S836188		<10	<1	0.31	20	0.58	1630	<1	0.05	<1	1470	3	0.01	<2	3	256
S836189		<10	<1	0.32	20	0.50	1610	<1	0.05	1	1520	4	0.02	<2	3	290
S836190		<10	<1	0.33	20	0.50	1450	<1	0.05	<1	1530	5	0.01	2	3	248
S836191		<10	1	0.35	20	0.57	1780	<1	0.05	<1	1500	4	<0.01	<2	3	325
S836192		<10	<1	0.32	20	0.88	1960	<1	0.05	1	1530	4	0.03	2	3	342
S836193		<10	<1	0.35	20	0.81	1890	<1	0.05	1	1400	5	0.01	4	3	309
S836194		<10	<1	0.35	20	0.70	1545	<1	0.06	<1	1570	5	<0.01	<2	3	305
S836195		<10	1	0.34	20	0.59	1915	<1	0.05	<1	1430	6	<0.01	3	3	321
S836196		<10	<1	0.34	20	0.63	1590	1	0.06	4	1570	10	0.01	<2	3	314
S836197		<10	<1	0.34	20	0.57	1435	<1	0.06	2	1480	8	0.01	<2	3	290
S836198		<10	<1	0.33	20	0.58	1645	<1	0.05	2	1460	7	0.01	<2	3	323
S836199		<10	<1	0.35	20	0.67	1590	<1	0.06	1	1500	5	0.01	2	4	349
S836200		<10	<1	0.09	10	0.27	416	<1	0.07	1	570	4	0.03	2	1	36
S836201		<10	1	0.36	20	0.60	1510	<1	0.06	2	1490	6	0.01	<2	4	346
S836202		<10	<1	0.35	20	0.55	1520	<1	0.05	<1	1420	5	0.01	<2	3	329
S836203		<10	<1	0.36	20	0.49	1360	<1	0.06	2	1560	6	0.03	<2	3	284
S836204		<10	<1	0.30	20	0.52	1835	<1	0.05	2	1380	6	0.02	<2	3	400
S836205		<10	<1	0.34	20	0.52	1490	<1	0.05	1	1440	5	0.01	<2	3	277
S836206		<10	<1	0.36	20	0.63	2180	<1	0.05	2	1450	5	0.06	2	3	330
S836207		<10	<1	0.37	20	1.07	3500	<1	0.05	2	1330	5	0.23	<2	3	255
S836208		10	<1	0.33	20	1.28	3700	1	0.04	1	1440	7	1.07	2	3	192
S836209		<10	1	0.34	20	0.94	2990	<1	0.05	2	1340	3	0.51	<2	3	166
S836210		<10	<1	0.33	20	0.93	2900	<1	0.05	2	1430	3	0.29	<2	3	151
S836211		<10	<1	0.28	10	1.01	3130	6	0.04	2	1020	9	0.97	<2	2	224
S836212		<10	<1	0.32	10	0.93	3560	<1	0.04	1	1200	6	0.13	<2	3	353
S836213		<10	2	0.38	20	0.71	2880	2	0.05	2	1270	5	0.37	<2	3	257
S836214		<10	<1	0.33	10	0.98	4060	<1	0.04	2	1220	7	0.23	2	2	513
S836215		<10	<1	0.33	20	0.97	2830	<1	0.05	2	1320	5	0.06	<2	3	342
S836216		<10	<1	0.31	20	1.27	3530	<1	0.05	2	1260	3	0.14	<2	3	377



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		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
S836177		<20	<0.01	<10	<10	31	<10	200
S836178		<20	<0.01	<10	<10	35	<10	168
S836179		<20	0.03	<10	<10	51	<10	72
S836180		<20	0.08	<10	<10	45	<10	32
S836181		<20	0.03	<10	<10	56	<10	59
S836182		<20	0.03	<10	<10	56	<10	51
S836183		<20	0.04	<10	<10	55	<10	46
S836184		<20	0.03	<10	<10	56	<10	61
S836185		<20	0.02	<10	<10	52	<10	93
S836186		<20	0.01	<10	<10	39	<10	166
S836187		<20	0.01	<10	<10	40	<10	111
S836188		<20	0.03	<10	<10	52	<10	57
S836189		<20	0.03	<10	<10	50	<10	53
S836190		<20	0.03	<10	<10	52	<10	58
S836191		<20	0.03	<10	<10	51	<10	37
S836192		<20	0.02	<10	<10	50	<10	70
S836193		<20	0.01	<10	<10	41	<10	103
S836194		<20	0.05	<10	<10	63	<10	59
S836195		<20	0.04	<10	<10	57	<10	51
S836196		<20	0.05	<10	<10	60	<10	51
S836197		<20	0.04	<10	<10	61	<10	46
S836198		<20	0.04	<10	<10	59	<10	45
S836199		<20	0.04	<10	<10	62	<10	60
S836200		<20	0.08	<10	<10	44	<10	35
S836201		<20	0.04	<10	<10	61	<10	50
S836202		<20	0.04	<10	<10	57	<10	42
S836203		<20	0.05	<10	<10	67	<10	46
S836204		<20	0.03	<10	<10	52	<10	42
S836205		<20	0.03	<10	<10	55	<10	40
S836206		<20	0.02	<10	<10	52	<10	96
S836207		<20	0.01	<10	<10	42	<10	210
S836208		<20	<0.01	<10	<10	40	<10	236
S836209		<20	<0.01	<10	<10	46	<10	1225
S836210		<20	<0.01	<10	<10	46	<10	253
S836211		<20	<0.01	<10	<10	39	<10	906
S836212		<20	<0.01	<10	<10	42	<10	388
S836213		<20	<0.01	<10	<10	39	<10	2280
S836214		<20	<0.01	<10	<10	38	<10	354
S836215		<20	<0.01	<10	<10	46	<10	142
S836216		<20	<0.01	<10	<10	40	<10	173



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		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
S836217		2.13	<0.001	0.2	1.63	2	<10	430	0.8	2	3.32	<0.5	12	1	38	3.89
S836218		2.26	<0.001	<0.2	0.83	2	<10	1120	0.8	<2	4.09	<0.5	13	1	27	5.04
S836219		2.55	<0.001	0.2	0.48	2	<10	1450	0.6	<2	4.80	0.5	11	1	8	4.89
S836220		1.13	<0.001	<0.2	0.57	<2	<10	80	<0.5	<2	0.55	<0.5	5	4	4	1.74
S836221		2.54	<0.001	0.2	0.78	2	<10	790	0.7	<2	4.86	0.5	15	1	6	5.09
S836222		2.33	<0.001	0.3	0.96	2	<10	1870	0.8	<2	4.68	<0.5	14	<1	31	4.76
S836223		2.54	0.002	<0.2	1.66	5	<10	310	0.6	<2	4.41	<0.5	13	1	52	3.76
S836224		2.34	0.002	0.2	1.11	4	<10	440	<0.5	<2	5.06	<0.5	11	1	24	3.10
S836225		2.11	0.003	0.3	0.83	5	<10	80	0.5	<2	5.11	0.5	11	1	7	3.41
S836226		2.53	<0.001	<0.2	1.14	5	<10	80	0.5	<2	3.90	<0.5	11	1	27	3.49
S836227		2.43	0.019	0.3	1.18	4	<10	60	0.6	<2	3.85	9.2	12	1	34	4.08
S836228		2.37	0.005	0.2	2.04	5	<10	150	0.5	<2	3.05	2.8	13	1	9	5.03
S836229		1.32	0.001	<0.2	1.45	3	<10	70	0.6	<2	3.72	1.7	12	1	21	3.73
S836230		1.55	<0.001	<0.2	1.50	2	<10	120	0.6	<2	4.40	3.1	11	1	20	3.62
S836231		2.20	<0.001	<0.2	1.27	2	<10	170	0.6	<2	4.34	<0.5	13	1	28	4.01
S836232		2.40	0.001	0.3	1.73	5	<10	110	0.6	<2	3.07	1.9	13	2	81	4.69
S836233		2.06	0.008	0.3	2.55	4	<10	120	0.5	2	1.35	1.1	15	1	22	6.01
S836234		2.30	0.007	0.2	1.83	7	<10	130	0.7	<2	2.66	1.0	15	1	31	4.75
S836235		2.55	0.005	0.3	1.91	7	<10	150	0.7	<2	3.70	0.7	13	1	30	4.18
S836236		2.06	0.004	0.3	1.43	8	<10	70	0.7	<2	3.31	1.3	13	1	42	4.07
S836237		2.21	0.005	0.3	1.24	8	<10	90	0.7	<2	4.88	3.4	13	1	25	4.31
S836238		2.25	0.004	0.3	0.89	6	<10	180	0.6	<2	3.30	2.5	12	1	25	3.85
S836239		2.40	0.012	0.4	0.66	5	<10	150	0.6	<2	3.35	3.2	11	1	32	4.26
S836240		1.12	<0.001	<0.2	0.60	2	<10	70	<0.5	<2	0.64	<0.5	3	5	4	1.87
S836241		2.36	0.046	0.5	1.53	10	<10	130	0.7	<2	2.81	2.3	15	1	404	4.97
S836242		2.35	0.014	0.2	1.52	5	<10	240	0.5	<2	2.89	1.8	11	2	162	3.90
S836243		2.50	0.004	0.2	2.04	3	<10	630	<0.5	2	3.29	<0.5	10	2	38	4.11
S836244		2.32	0.133	1.1	2.03	14	<10	20	<0.5	2	1.48	<0.5	11	4	1265	6.54
S836245		2.62	0.152	0.5	2.90	20	<10	40	0.5	2	0.66	<0.5	12	7	123	9.13
S836246		2.71	0.523	0.6	1.93	16	<10	60	0.7	2	1.36	3.8	13	6	268	7.05
S836247		1.93	0.027	0.2	2.16	6	<10	50	0.5	<2	0.82	<0.5	10	1	149	5.71
S836248		2.18	0.009	0.4	1.78	6	<10	170	0.5	<2	1.84	0.8	13	2	60	4.85
S836249		2.00	0.070	0.5	1.23	8	<10	50	0.5	<2	2.01	1.2	15	2	280	6.24
S836250		1.15	<0.001	<0.2	0.60	<2	<10	70	<0.5	<2	0.61	<0.5	4	5	4	1.89
S836251		2.27	0.131	0.4	1.70	6	<10	100	0.5	2	1.10	0.5	10	2	87	6.28
S836252		2.38	0.029	0.5	1.66	5	<10	30	<0.5	3	2.17	<0.5	10	2	106	6.04
S836253		2.43	0.019	0.4	1.76	5	<10	80	0.6	<2	2.58	3.3	11	1	48	6.60
S836254		2.28	0.008	0.3	1.45	3	<10	420	0.6	<2	2.02	<0.5	10	2	59	3.97
S836255		2.17	0.090	0.3	1.24	3	<10	350	0.8	<2	2.05	<0.5	7	1	122	3.36
S836256		2.34	0.005	<0.2	1.34	<2	10	460	0.9	<2	1.38	<0.5	7	1	34	3.54



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Project: Forrest Kerr

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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
S836217		<10	<1	0.36	20	1.05	2250	<1	0.05	2	1530	5	0.10	<2	4	207
S836218		<10	<1	0.30	20	1.08	2340	<1	0.06	1	2110	4	0.04	<2	6	280
S836219		<10	<1	0.29	20	1.19	2450	<1	0.06	1	2030	5	0.04	<2	6	302
S836220		<10	<1	0.09	10	0.28	397	<1	0.06	1	560	3	0.07	<2	1	39
S836221		<10	<1	0.34	20	1.08	2260	<1	0.06	1	2200	4	0.02	<2	6	345
S836222		<10	<1	0.30	20	1.18	2610	<1	0.05	1	2040	4	0.06	<2	6	412
S836223		<10	<1	0.28	20	1.00	2440	1	0.05	2	1270	5	0.44	<2	3	221
S836224		<10	<1	0.25	10	0.74	2420	<1	0.04	1	1110	5	0.60	<2	3	273
S836225		<10	<1	0.28	10	0.63	2260	1	0.04	2	1170	9	1.76	<2	2	239
S836226		<10	<1	0.28	10	0.80	2220	<1	0.04	2	1310	7	1.25	<2	3	190
S836227		<10	1	0.30	10	0.82	2930	<1	0.04	1	1250	8	1.87	<2	3	167
S836228		10	1	0.32	10	1.38	3700	<1	0.04	2	1380	5	1.40	<2	3	193
S836229		<10	<1	0.32	10	0.93	2520	<1	0.04	2	1300	6	0.99	<2	3	189
S836230		<10	<1	0.33	10	0.95	2860	<1	0.04	2	1280	6	0.86	<2	3	234
S836231		<10	<1	0.32	10	0.95	2780	<1	0.04	1	1330	5	1.53	<2	3	208
S836232		<10	<1	0.29	10	1.21	3580	<1	0.03	1	1240	8	1.51	<2	3	166
S836233		10	<1	0.35	10	1.76	3440	<1	0.04	2	1470	7	1.68	<2	4	89
S836234		<10	<1	0.30	10	1.59	2980	<1	0.04	2	1390	38	1.63	2	3	178
S836235		<10	<1	0.29	10	1.54	2280	<1	0.04	2	1270	44	1.46	<2	4	203
S836236		<10	<1	0.31	10	1.10	2030	<1	0.04	2	1360	62	2.00	<2	3	170
S836237		<10	<1	0.29	10	1.34	3330	<1	0.04	1	1280	23	1.87	<2	4	250
S836238		<10	<1	0.30	10	0.97	2430	<1	0.04	2	1260	13	1.50	<2	3	164
S836239		<10	<1	0.31	10	1.40	3030	<1	0.03	2	1260	13	1.18	<2	3	273
S836240		<10	<1	0.09	10	0.30	445	<1	0.06	1	540	4	0.02	<2	1	41
S836241		<10	<1	0.33	20	1.23	3160	<1	0.03	2	1310	16	1.52	<2	3	178
S836242		<10	<1	0.31	10	1.13	3130	<1	0.03	1	1270	10	1.03	<2	3	188
S836243		10	<1	0.28	20	1.42	4050	<1	0.03	2	1170	5	0.35	2	3	257
S836244		10	<1	0.27	10	1.23	2870	11	0.02	2	1030	9	2.86	<2	3	95
S836245		10	<1	0.25	10	1.64	3060	1	0.02	7	1130	11	3.44	<2	3	47
S836246		<10	<1	0.30	10	1.40	3140	4	0.03	7	1190	14	2.78	<2	3	107
S836247		<10	<1	0.28	10	1.24	2420	<1	0.03	2	1310	11	0.97	<2	2	58
S836248		<10	<1	0.28	10	1.11	2660	1	0.04	2	1360	10	1.30	<2	3	96
S836249		<10	<1	0.28	10	1.00	3040	3	0.03	3	1140	18	2.46	<2	2	130
S836250		<10	<1	0.10	10	0.28	446	<1	0.07	2	560	4	0.02	<2	1	44
S836251		<10	<1	0.30	10	0.99	2580	1	0.03	2	1170	22	1.98	<2	2	70
S836252		<10	<1	0.29	10	0.97	3090	1	0.02	2	1140	14	1.99	<2	2	147
S836253		<10	<1	0.28	10	1.27	4110	<1	0.03	2	1090	11	1.45	<2	2	209
S836254		<10	<1	0.36	20	0.92	2820	<1	0.04	2	1300	4	0.43	<2	2	135
S836255		<10	<1	0.41	20	0.80	2630	<1	0.05	1	1400	5	0.04	<2	2	155
S836256		<10	<1	0.45	20	0.88	2500	<1	0.05	2	1470	4	0.01	2	3	109



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CERTIFICATE OF ANALYSIS TR17179156

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
S836217		<20	<0.01	<10	<10	57	<10	137
S836218		<20	0.02	<10	<10	67	<10	137
S836219		<20	0.02	<10	<10	72	<10	104
S836220		<20	0.08	<10	<10	41	<10	34
S836221		<20	0.02	<10	<10	69	<10	118
S836222		<20	0.02	<10	<10	58	<10	106
S836223		<20	<0.01	<10	<10	41	<10	130
S836224		<20	<0.01	<10	<10	29	<10	96
S836225		<20	<0.01	<10	<10	23	<10	84
S836226		<20	<0.01	<10	<10	30	<10	118
S836227		<20	<0.01	<10	<10	28	<10	1690
S836228		<20	<0.01	<10	<10	47	<10	630
S836229		<20	<0.01	<10	<10	32	<10	313
S836230		<20	<0.01	<10	<10	32	<10	525
S836231		<20	<0.01	<10	<10	30	<10	130
S836232		<20	<0.01	<10	<10	39	<10	429
S836233		<20	<0.01	<10	<10	59	<10	373
S836234		<20	<0.01	<10	<10	40	<10	276
S836235		<20	<0.01	<10	<10	43	<10	175
S836236		<20	<0.01	<10	<10	36	<10	272
S836237		<20	<0.01	<10	<10	31	<10	644
S836238		<20	<0.01	<10	<10	28	<10	480
S836239		<20	<0.01	<10	<10	25	<10	687
S836240		<20	0.08	<10	<10	42	<10	37
S836241		<20	<0.01	<10	<10	33	<10	469
S836242		<20	<0.01	<10	<10	33	<10	458
S836243		<20	<0.01	<10	<10	39	<10	245
S836244		<20	<0.01	<10	<10	34	<10	157
S836245		<20	<0.01	<10	<10	32	<10	203
S836246		<20	<0.01	<10	<10	32	<10	687
S836247		<20	<0.01	<10	<10	44	<10	166
S836248		<20	<0.01	<10	<10	49	<10	234
S836249		<20	<0.01	<10	<10	30	<10	271
S836250		<20	0.09	<10	<10	44	<10	34
S836251		<20	<0.01	<10	<10	30	<10	181
S836252		<20	<0.01	<10	<10	34	<10	143
S836253		<20	<0.01	<10	<10	39	<10	620
S836254		<20	<0.01	<10	<10	35	<10	153
S836255		<20	<0.01	<10	<10	32	<10	124
S836256		<20	<0.01	<10	<10	30	<10	129



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CERTIFICATE OF ANALYSIS TR17179156

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
S836257		2.00	0.006	0.2	1.99	3	<10	900	0.8	<2	2.16	<0.5	10	1	27	4.64
S836258		1.51	0.011	0.2	2.01	2	<10	520	0.8	<2	2.08	<0.5	8	1	6	4.40
S836259		0.97	0.017	0.3	1.41	3	<10	720	0.8	<2	2.52	0.6	10	1	72	3.97
S836260		1.00	0.012	0.3	1.28	4	<10	430	0.9	<2	2.13	1.1	10	1	64	3.80
S836261		2.48	0.008	0.2	0.53	<2	<10	1020	0.7	<2	1.81	<0.5	6	1	4	2.66
S836262		1.93	0.021	0.2	0.55	6	<10	1290	0.8	<2	1.71	<0.5	9	1	45	2.86



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CERTIFICATE OF ANALYSIS TR17179156

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga ppm 10	Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1
S836257		<10	<1	0.36	20	1.32	3280	<1	0.04	2	1390	5	0.10	<2	3	140
S836258		<10	<1	0.39	20	1.23	2980	<1	0.04	2	1330	3	0.01	<2	3	134
S836259		<10	<1	0.35	20	0.86	2680	<1	0.04	2	1330	6	0.32	<2	3	158
S836260		<10	<1	0.41	20	0.81	2540	<1	0.05	1	1400	7	0.25	<2	3	155
S836261		<10	<1	0.40	20	0.71	2250	<1	0.05	1	1390	4	0.02	<2	2	160
S836262		<10	<1	0.40	20	0.75	2040	<1	0.06	3	1430	5	0.20	<2	3	174



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CERTIFICATE OF ANALYSIS TR17179156

Sample Description	Method Analyte Units LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Ti ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
S836257		<20	<0.01	<10	<10	38	<10	210
S836258		<20	<0.01	<10	<10	40	<10	194
S836259		<20	<0.01	<10	<10	39	<10	239
S836260		<20	<0.01	<10	<10	37	<10	260
S836261		<20	0.01	<10	<10	27	<10	111
S836262		<20	<0.01	<10	<10	20	<10	111



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CERTIFICATE OF ANALYSIS TR17179156

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Terrace located at 2912 Molitor Street, Terrace, BC, 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-ICP21	ME-ICP41		



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CERTIFICATE TR17207166

Project: Forrest Kerr

This report is for 15 Drill Core samples submitted to our lab in Terrace, BC, Canada on 26-SEP-2017.

The following have access to data associated with this certificate:

DEIRDRE HEFFERNAN	CORNELL MCDOWELL
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
PUL-QC	Pulverizing QC Test
CRU-QC	Crushing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: **ABEN RESOURCES LTD.**
ATTN: ALS GEOCHEMISTRY

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: Forrest Kerr

CERTIFICATE OF ANALYSIS TR17207166

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
S836263		2.12	0.017	0.2	0.46	3	<10	1060	0.6	2	3.66	<0.5	5	1	84	2.85
S836264		2.71	0.017	<0.2	0.54	4	10	1430	0.7	<2	2.69	<0.5	8	1	30	3.95
S836265		2.06	0.010	<0.2	0.50	2	<10	1190	0.5	<2	2.29	<0.5	5	1	1	3.53
S836266		2.53	0.315	<0.2	0.50	3	<10	1080	0.5	<2	1.89	<0.5	7	1	16	4.04
S836267		2.15	0.024	<0.2	0.66	2	<10	1630	<0.5	<2	2.16	<0.5	7	1	31	4.07
S836268		2.20	0.004	<0.2	1.67	3	<10	2310	0.5	<2	2.13	<0.5	7	1	3	4.04
S836269		2.09	0.013	<0.2	1.68	4	<10	1540	0.5	2	2.40	<0.5	6	1	13	4.20
S836270		1.21	<0.001	<0.2	0.53	<2	<10	80	<0.5	<2	0.51	<0.5	3	4	3	1.67
S836271		2.37	0.002	<0.2	1.37	2	<10	750	<0.5	<2	3.03	<0.5	6	2	<1	3.63
S836272		2.53	0.009	<0.2	1.63	3	<10	410	0.5	<2	3.21	<0.5	7	2	<1	3.92
S836273		2.32	<0.001	<0.2	1.65	<2	<10	230	0.6	<2	2.61	<0.5	7	2	<1	3.63
S836274		2.49	0.005	<0.2	1.69	2	<10	160	<0.5	2	2.51	<0.5	8	2	<1	3.24
S836275		2.18	<0.001	<0.2	1.56	2	<10	780	<0.5	2	3.62	<0.5	7	2	1	2.81
S836276		2.40	<0.001	<0.2	1.61	3	<10	160	<0.5	<2	2.89	<0.5	9	2	1	2.66
S836277		2.45	<0.001	<0.2	1.71	4	<10	220	0.5	<2	3.31	<0.5	9	2	<1	3.27



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CERTIFICATE OF ANALYSIS TR17207166

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
S836263		<10	<1	0.34	10	1.26	2690	<1	0.05	<1	1140	9	0.27	<2	2	296
S836264		<10	<1	0.34	20	1.15	3130	<1	0.05	1	1290	8	0.16	<2	3	242
S836265		<10	1	0.34	20	0.94	2890	<1	0.04	1	1190	5	0.04	<2	2	185
S836266		<10	<1	0.30	20	0.92	3190	<1	0.04	2	1230	6	0.05	<2	2	160
S836267		<10	1	0.33	20	0.78	3090	<1	0.04	1	1250	5	0.16	<2	2	160
S836268		10	<1	0.33	20	0.92	2700	<1	0.03	1	1270	3	0.06	<2	2	126
S836269		<10	<1	0.34	20	0.85	2760	<1	0.03	1	1120	4	0.05	<2	2	141
S836270		<10	<1	0.09	10	0.25	391	<1	0.06	1	530	3	0.03	<2	1	36
S836271		<10	<1	0.35	20	0.71	2620	<1	0.03	1	1170	5	0.03	<2	2	159
S836272		10	<1	0.32	20	0.92	2760	<1	0.04	1	1190	7	0.02	2	2	165
S836273		<10	1	0.34	20	0.90	2480	<1	0.04	1	1260	7	0.02	<2	2	153
S836274		10	<1	0.26	20	1.02	2150	<1	0.04	1	1320	4	0.01	<2	3	164
S836275		10	<1	0.30	20	0.92	2250	<1	0.05	1	1260	6	0.03	3	3	244
S836276		<10	1	0.32	20	1.08	2030	<1	0.05	1	1400	3	0.01	2	3	180
S836277		10	<1	0.31	20	1.16	2300	<1	0.05	1	1250	7	0.02	3	3	208

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CERTIFICATE OF ANALYSIS TR17207166

Sample Description	Method Analyte Units LOR	ME-ICP41 Th ppm	ME-ICP41 Ti %	ME-ICP41 Tl ppm	ME-ICP41 U ppm	ME-ICP41 V ppm	ME-ICP41 W ppm	ME-ICP41 Zn ppm
		20	0.01	10	10	1	10	2
S836263		<20	<0.01	<10	<10	20	<10	112
S836264		<20	<0.01	<10	<10	37	<10	142
S836265		<20	0.01	<10	<10	40	<10	119
S836266		<20	<0.01	<10	<10	38	<10	155
S836267		<20	0.01	<10	<10	39	<10	131
S836268		<20	0.01	<10	<10	43	<10	140
S836269		<20	0.01	<10	<10	43	<10	126
S836270		<20	0.07	<10	<10	39	<10	34
S836271		<20	0.02	<10	<10	45	<10	94
S836272		<20	0.02	<10	<10	51	<10	98
S836273		<20	0.02	<10	<10	49	<10	99
S836274		<20	0.01	<10	<10	48	<10	84
S836275		<20	0.01	<10	<10	44	<10	67
S836276		<20	0.01	<10	<10	41	<10	79
S836277		<20	0.01	<10	<10	48	<10	101

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CERTIFICATE OF ANALYSIS TR17207166

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Terrace located at 2912 Molitor Street, Terrace, BC, Canada.
CRU-QC PUL-QC WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-ICP21 ME-ICP41



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CERTIFICATE TR17179173

Project: Forrest Kerr

This report is for 125 Drill Core samples submitted to our lab in Terrace, BC, Canada on 23-AUG-2017.

The following have access to data associated with this certificate:

DEIRDRE HEFFERNAN	CORNELL MCDOWELL
-------------------	------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
LOG-24	Pulp Login - Rcd w/o Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Cu-OG46	Ore Grade Cu - Aqua Regia	ICP-AES
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
Au-GRA21	Au 30g FA-GRAV finish	WST-SIM
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: **ABEN RESOURCES LTD.**
ATTN: ALS GEOCHEMISTRY

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.

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Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	Au-GRA21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm
S836278		0.05	0.298		2.0	1.81	30	10	70	<0.5	4	0.77	3.7	11	26	2410
S836279		1.19	0.002		<0.2	1.01	<2	<10	230	<0.5	<2	3.32	<0.5	5	2	37
S836280		1.16	0.001		<0.2	0.97	<2	<10	250	<0.5	<2	2.80	<0.5	5	2	20
S836281		2.16	0.003		<0.2	0.76	<2	<10	1930	<0.5	<2	4.07	<0.5	3	2	10
S836282		2.05	0.002		<0.2	0.98	2	<10	620	0.5	<2	2.99	<0.5	4	2	4
S836283		2.22	0.006		<0.2	0.91	3	<10	140	<0.5	<2	3.04	<0.5	5	2	5
S836284		2.27	0.005		<0.2	0.81	<2	<10	1690	<0.5	<2	3.47	<0.5	5	2	2
S836285		2.24	<0.001		<0.2	0.95	<2	<10	130	<0.5	<2	2.70	<0.5	5	2	16
S836286		2.10	<0.001		<0.2	0.79	<2	<10	280	<0.5	<2	2.83	<0.5	5	2	1
S836287		2.63	<0.001		<0.2	0.95	<2	<10	440	0.5	<2	3.04	<0.5	5	2	2
S836288		2.31	<0.001		<0.2	0.92	2	<10	180	0.5	<2	3.90	<0.5	5	1	36
S836289		2.12	<0.001		<0.2	1.04	2	<10	240	0.5	2	3.95	<0.5	5	1	12
S836290		1.43	<0.001		<0.2	0.62	2	<10	80	<0.5	<2	0.58	<0.5	2	4	3
S836291		2.24	<0.001		<0.2	1.03	2	<10	1020	<0.5	2	3.01	1.2	5	2	10
S836292		2.06	<0.001		<0.2	0.93	2	<10	1530	0.5	<2	4.52	0.8	4	1	5
S836293		2.18	<0.001		<0.2	0.75	3	<10	440	<0.5	2	4.56	<0.5	5	2	5
S836294		2.01	0.002		<0.2	0.79	4	<10	160	<0.5	<2	3.61	0.9	6	2	15
S836295		1.91	0.023		0.4	0.99	7	<10	170	0.5	2	4.13	<0.5	7	3	562
S836296		2.40	0.005		<0.2	0.97	6	<10	590	<0.5	<2	4.49	0.6	5	2	221
S836297		2.25	0.003		<0.2	1.25	<2	<10	860	0.5	<2	2.87	1.5	5	1	158
S836298		1.77	0.003		<0.2	1.51	2	<10	560	<0.5	2	1.38	3.3	5	2	52
S836299		1.16	0.004		<0.2	1.09	<2	<10	1220	<0.5	2	2.68	3.2	4	3	13
S836300		1.14	0.011		<0.2	1.22	<2	<10	470	0.5	2	1.63	2.0	6	2	6
S836301		2.34	0.005		0.5	1.19	2	<10	540	0.5	<2	3.26	11.1	5	2	288
S836302		2.74	0.038		0.3	0.91	5	<10	450	0.6	<2	2.18	2.8	5	2	129
S836303		2.60	2.48		1.7	1.04	5	<10	190	0.5	4	1.79	<0.5	9	2	1285
S836304		2.27	0.255		0.3	0.58	4	<10	1050	<0.5	<2	1.53	<0.5	3	2	179
S836305		2.46	0.273		0.2	0.89	3	<10	2530	<0.5	<2	1.02	<0.5	5	3	121
S836306		2.16	0.023		<0.2	1.06	2	<10	1620	<0.5	<2	0.84	<0.5	5	2	223
S836307		2.68	>10.0	60.9	62.6	0.55	8	<10	10	<0.5	14	0.74	0.5	15	3	>10000
S836308		2.67	>10.0	18.75	41.5	1.48	5	<10	20	<0.5	18	1.09	<0.5	10	2	>10000
S836309		2.42	2.15		2.4	1.73	4	<10	80	<0.5	2	0.69	<0.5	11	3	2760
S836310		1.45	0.002		<0.2	0.59	<2	<10	80	<0.5	<2	0.55	<0.5	3	6	22
S836311		2.78	>10.0	31.6	46.7	1.88	3	<10	10	<0.5	13	1.46	<0.5	20	1	>10000
S836312		2.28	2.38		3.2	1.73	2	<10	130	<0.5	3	1.35	<0.5	14	2	3310
S836313		2.26	>10.0	13.30	14.6	1.76	3	<10	40	<0.5	6	1.94	<0.5	16	2	9550
S836314		2.51	0.353		0.6	1.62	3	<10	280	<0.5	2	1.44	<0.5	8	1	344
S836315		2.19	0.111		1.7	1.59	3	<10	650	<0.5	15	0.98	<0.5	7	2	365
S836316		2.28	0.366		<0.2	1.52	2	<10	370	<0.5	2	1.10	<0.5	5	3	18
S836317		2.20	0.080		<0.2	1.77	3	<10	650	<0.5	<2	1.02	<0.5	5	2	19



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm
S836278		4.93	<10	<1	0.34	<10	0.55	928	20	0.07	20	700	62	2.99	3	2
S836279		2.46	<10	<1	0.31	20	0.55	3000	<1	0.02	<1	1120	5	0.02	3	2
S836280		2.27	<10	<1	0.31	20	0.49	2590	<1	0.02	1	1130	4	0.02	3	2
S836281		1.89	<10	<1	0.36	20	0.43	2820	<1	0.02	<1	1090	6	0.06	2	2
S836282		2.49	<10	<1	0.35	20	0.53	2570	<1	0.02	<1	1130	4	0.03	<2	2
S836283		2.32	<10	1	0.32	20	0.55	2510	<1	0.02	<1	1020	4	0.01	<2	2
S836284		2.15	<10	<1	0.32	20	0.46	2620	<1	0.01	<1	980	7	0.05	2	2
S836285		2.40	<10	<1	0.33	20	0.56	2140	<1	0.02	<1	1010	5	0.01	<2	2
S836286		2.13	<10	1	0.34	20	0.48	2300	<1	0.02	<1	1030	6	0.02	<2	2
S836287		2.42	<10	<1	0.37	20	0.50	2370	<1	0.02	1	1080	7	0.02	<2	2
S836288		2.10	<10	<1	0.38	20	0.50	2750	<1	0.02	<1	1080	6	0.05	<2	2
S836289		2.54	<10	1	0.39	20	0.55	3360	<1	0.02	<1	1150	8	0.24	<2	3
S836290		1.78	<10	<1	0.10	10	0.27	420	<1	0.08	1	550	2	0.03	<2	1
S836291		2.64	<10	<1	0.32	20	0.58	3380	<1	0.03	1	1040	8	0.22	<2	3
S836292		2.52	<10	<1	0.37	20	0.49	4150	<1	0.02	<1	1070	9	0.22	2	3
S836293		2.39	<10	<1	0.34	20	0.48	4230	<1	0.02	1	990	10	0.54	2	3
S836294		2.98	<10	<1	0.25	20	0.57	3810	<1	0.02	1	1040	12	1.37	2	3
S836295		3.58	<10	<1	0.32	20	0.59	4690	<1	0.02	<1	870	17	1.23	2	3
S836296		2.65	<10	<1	0.34	20	0.57	4450	<1	0.02	<1	1030	10	0.58	5	3
S836297		3.10	<10	<1	0.36	20	0.66	4690	<1	0.02	<1	1120	25	0.11	2	2
S836298		4.03	10	<1	0.33	20	0.76	5040	<1	0.02	<1	1090	30	0.08	<2	2
S836299		2.82	<10	<1	0.34	20	0.63	4690	<1	0.02	1	1050	36	0.09	<2	2
S836300		2.96	<10	1	0.37	20	0.66	4370	<1	0.02	1	1210	28	0.05	<2	2
S836301		3.57	<10	2	0.37	20	0.59	4780	<1	0.02	<1	1010	104	0.58	3	2
S836302		3.34	<10	<1	0.34	10	0.44	3440	<1	0.02	1	960	16	0.61	2	2
S836303		4.21	<10	<1	0.35	10	0.49	2910	<1	0.02	<1	1020	15	1.19	5	2
S836304		2.53	<10	<1	0.37	20	0.20	1720	<1	0.02	<1	1030	8	0.26	3	2
S836305		3.47	<10	<1	0.33	20	0.34	1770	<1	0.02	1	1160	5	0.12	2	2
S836306		3.39	<10	<1	0.32	20	0.43	2020	<1	0.02	1	1070	5	0.16	2	2
S836307		11.55	<10	1	0.27	10	0.16	1220	1	0.02	2	270	72	7.55	<2	2
S836308		14.75	10	1	0.29	10	0.36	1980	1	0.02	1	510	34	7.41	5	3
S836309		6.26	10	<1	0.29	10	0.61	2640	<1	0.02	<1	890	13	1.62	2	2
S836310		1.78	<10	<1	0.10	10	0.27	436	<1	0.08	1	520	3	0.05	2	1
S836311		14.25	10	1	0.21	10	1.06	3140	1	0.01	2	410	20	>10.0	3	2
S836312		5.72	10	<1	0.29	10	0.81	3590	<1	0.01	1	1110	14	1.64	2	3
S836313		7.98	10	<1	0.29	10	1.03	4490	1	0.02	1	940	18	3.25	<2	3
S836314		4.80	10	1	0.29	20	0.83	3350	<1	0.01	1	1070	17	0.21	<2	3
S836315		4.80	10	<1	0.25	10	0.79	2890	<1	0.01	1	980	30	0.25	<2	3
S836316		4.73	10	<1	0.22	20	0.88	3040	<1	0.01	1	1050	12	0.03	2	3
S836317		5.51	10	<1	0.20	10	1.08	3410	<1	0.02	<1	1090	15	0.06	2	4



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-OG46
		Sr ppm 1	Th ppm 20	Ti % 0.01	Ti ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2	Cu % 0.001
S836278		64	<20	0.03	<10	<10	29	<10	715	
S836279		105	<20	0.01	<10	<10	25	<10	86	
S836280		86	<20	<0.01	<10	<10	24	<10	79	
S836281		323	<20	<0.01	<10	<10	18	<10	54	
S836282		141	<20	0.01	<10	<10	33	<10	72	
S836283		142	<20	0.01	<10	<10	30	<10	72	
S836284		184	<20	0.01	<10	<10	32	<10	58	
S836285		150	<20	0.01	<10	<10	37	<10	78	
S836286		192	<20	0.01	<10	<10	32	<10	63	
S836287		243	<20	0.01	<10	<10	37	<10	77	
S836288		191	<20	<0.01	<10	<10	27	<10	79	
S836289		210	<20	<0.01	<10	<10	27	<10	110	
S836290		38	<20	0.08	<10	<10	43	<10	34	
S836291		217	<20	<0.01	<10	<10	28	<10	325	
S836292		337	<20	<0.01	<10	<10	28	<10	232	
S836293		257	<20	<0.01	<10	<10	20	<10	143	
S836294		195	<20	<0.01	<10	<10	25	<10	272	
S836295		262	<20	<0.01	<10	<10	31	<10	168	
S836296		209	<20	<0.01	10	<10	23	<10	224	
S836297		183	<20	<0.01	<10	<10	22	<10	432	
S836298		105	<20	<0.01	<10	<10	29	<10	972	
S836299		174	<20	<0.01	<10	<10	24	<10	841	
S836300		118	<20	<0.01	<10	<10	26	<10	561	
S836301		176	<20	<0.01	<10	<10	25	<10	2550	
S836302		161	<20	<0.01	<10	<10	24	<10	685	
S836303		138	<20	<0.01	<10	<10	25	<10	128	
S836304		106	<20	0.01	<10	<10	36	<10	53	
S836305		101	<20	0.01	<10	<10	56	<10	97	
S836306		99	<20	0.01	<10	<10	40	<10	113	
S836307		53	<20	<0.01	<10	<10	32	110	116	3.93
S836308		66	<20	0.01	<10	<10	49	80	219	6.75
S836309		71	<20	<0.01	<10	<10	46	<10	186	
S836310		36	<20	0.08	<10	<10	42	<10	36	
S836311		75	<20	<0.01	<10	<10	36	<10	219	6.08
S836312		88	<20	<0.01	<10	<10	45	<10	210	
S836313		125	<20	<0.01	<10	<10	42	10	219	
S836314		86	<20	<0.01	<10	<10	45	<10	196	
S836315		94	<20	0.01	<10	<10	48	<10	187	
S836316		75	<20	0.01	<10	<10	62	<10	162	
S836317		88	<20	0.02	<10	<10	68	10	204	



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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	Au-GRA21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Recvd Wt. kg	Au ppm	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm
		0.02	0.001	0.05	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
S836318		2.20	0.786		1.3	2.03	5	<10	490	<0.5	7	1.04	<0.5	7	2	819
S836319		2.25	0.316		0.6	1.13	<2	<10	1190	<0.5	<2	1.98	<0.5	4	2	378
S836320		1.55	<0.001		<0.2	0.49	2	<10	70	<0.5	<2	0.45	<0.5	2	6	5
S836321		2.38	0.015		5.5	2.18	<2	<10	190	<0.5	2	1.86	0.7	6	2	>10000
S836322		2.57	0.034		1.0	2.12	<2	<10	580	<0.5	<2	0.91	<0.5	6	2	2000
S836323		2.26	0.033		0.5	2.10	3	<10	690	<0.5	<2	1.04	<0.5	5	1	1355
S836324		1.96	0.107		<0.2	1.76	<2	<10	1700	<0.5	<2	1.67	<0.5	5	2	362
S836325		2.02	0.129		1.5	2.32	<2	<10	450	<0.5	2	2.46	<0.5	5	1	3610
S836326		2.09	0.123		1.0	1.75	2	<10	590	<0.5	2	1.55	<0.5	6	2	2500
S836327		1.54	0.938		0.6	1.27	<2	<10	500	<0.5	2	1.34	<0.5	3	2	903
S836328		2.30	0.287		<0.2	1.50	2	<10	560	<0.5	<2	1.06	<0.5	5	2	87
S836329		2.17	0.187		0.7	1.46	3	<10	270	<0.5	4	1.22	<0.5	8	2	1160
S836330		0.06	0.280		1.8	1.69	29	<10	70	<0.5	3	0.75	3.4	11	24	2260
S836331		2.34	0.544		2.5	1.73	<2	<10	290	<0.5	4	1.22	<0.5	3	2	6520
S836332		2.25	0.030		1.2	1.76	3	<10	620	<0.5	2	1.32	<0.5	4	2	3200
S836333		2.58	0.005		<0.2	1.79	2	<10	680	<0.5	<2	0.71	<0.5	5	2	16
S836334		1.97	0.041		0.3	1.86	<2	<10	450	<0.5	3	0.90	<0.5	9	2	276
S836335		2.40	0.042		<0.2	1.77	2	<10	430	<0.5	<2	0.87	<0.5	5	2	168
S836336		1.98	0.077		<0.2	1.59	<2	<10	1490	<0.5	<2	0.89	<0.5	5	2	432
S836337		1.96	0.380		0.3	1.68	2	<10	510	<0.5	<2	0.95	<0.5	8	2	11
S836338		2.63	0.038		<0.2	2.04	<2	<10	530	<0.5	<2	1.09	<0.5	8	1	6
S836339		0.84	0.506		0.4	1.42	3	<10	450	<0.5	2	0.94	<0.5	5	1	833
S836340		1.05	0.152		0.9	1.59	<2	<10	310	<0.5	3	0.90	<0.5	6	1	1595
S836341		2.19	0.039		<0.2	1.25	<2	<10	720	<0.5	3	1.37	<0.5	6	2	34
S836342		2.37	0.092		<0.2	1.15	2	<10	920	<0.5	3	1.96	<0.5	4	1	11
S836343		2.34	0.459		0.7	1.20	2	<10	810	<0.5	3	1.98	<0.5	4	1	1300
S836344		2.11	0.386		<0.2	1.24	<2	<10	650	<0.5	3	1.61	<0.5	5	2	5
S836345		2.11	0.073		<0.2	1.89	3	<10	400	<0.5	2	1.60	<0.5	5	1	24
S836346		2.14	0.131		<0.2	1.62	2	<10	880	<0.5	2	1.60	<0.5	5	1	6
S836347		2.19	0.046		0.2	1.30	2	<10	970	<0.5	2	1.83	<0.5	5	2	257
S836348		1.81	0.042		0.2	1.64	2	<10	420	<0.5	3	1.49	<0.5	7	1	303
S836349		1.15	0.085		0.2	1.61	<2	<10	460	0.5	2	2.39	<0.5	6	1	483
S836350		1.61	<0.001		<0.2	0.50	<2	<10	50	<0.5	<2	0.43	<0.5	3	5	3
S836351		1.24	0.008		<0.2	1.12	2	<10	1400	0.5	<2	2.85	<0.5	7	1	47
S836352		2.05	0.009		<0.2	1.34	2	<10	1270	0.6	<2	3.40	<0.5	7	1	21
S836353		2.07	0.002		<0.2	1.26	2	<10	240	0.5	<2	3.48	<0.5	7	1	134
S836354		2.17	0.002		<0.2	1.80	<2	<10	660	0.5	<2	1.51	<0.5	8	2	5
S836355		2.59	0.007		<0.2	1.75	<2	<10	920	0.5	<2	1.66	<0.5	8	1	34
S836356		2.40	0.012		<0.2	1.83	<2	<10	1610	<0.5	2	1.48	<0.5	7	1	345
S836357		2.11	0.036		<0.2	1.68	2	<10	1260	0.6	2	1.82	<0.5	6	2	41



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Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
	Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
Units	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
LOR	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	
S836318	5.93	10	<1	0.21	10	1.23	3520	<1	0.02	<1	1090	13	0.32	4	4	
S836319	4.55	<10	<1	0.27	10	0.93	3000	<1	0.02	1	1110	7	0.09	3	3	
S836320	1.60	<10	<1	0.09	10	0.23	382	<1	0.07	1	480	2	0.02	2	1	
S836321	6.51	10	1	0.20	10	1.41	3830	<1	0.02	<1	1060	27	1.40	4	5	
S836322	5.89	10	<1	0.24	10	1.29	3390	<1	0.02	<1	1150	4	0.38	2	4	
S836323	6.07	10	<1	0.25	10	1.20	3070	<1	0.02	<1	1160	6	0.18	<2	4	
S836324	5.84	10	<1	0.25	20	1.03	3400	<1	0.01	1	1060	7	0.09	3	4	
S836325	6.89	10	1	0.18	10	1.48	5110	<1	0.01	1	1000	11	0.50	<2	5	
S836326	4.93	10	<1	0.26	10	1.05	3610	<1	0.01	1	1110	10	0.36	2	4	
S836327	4.38	10	<1	0.24	20	0.73	3190	<1	0.01	1	1100	10	0.14	5	4	
S836328	5.04	10	1	0.22	20	0.83	3460	<1	0.01	1	1100	4	0.04	2	4	
S836329	4.43	10	<1	0.20	20	0.82	3510	<1	0.01	1	1040	8	0.83	3	4	
S836330	4.61	<10	<1	0.32	<10	0.52	866	17	0.08	18	660	56	2.83	4	2	
S836331	4.61	10	<1	0.24	20	0.99	3640	<1	0.02	2	1130	11	0.69	<2	4	
S836332	5.15	10	<1	0.22	20	1.01	3560	<1	0.02	<1	1190	10	0.42	<2	4	
S836333	4.98	10	<1	0.24	10	0.86	2730	<1	0.02	1	1100	6	0.16	<2	3	
S836334	5.21	10	<1	0.26	10	0.89	3380	<1	0.02	<1	1000	8	0.51	<2	3	
S836335	5.07	10	1	0.25	20	0.87	3090	<1	0.02	2	1160	7	0.05	2	4	
S836336	4.90	10	<1	0.21	20	0.81	2890	<1	0.02	2	1140	4	0.09	3	4	
S836337	5.92	10	<1	0.26	20	0.88	3620	1	0.02	1	1120	9	0.59	<2	4	
S836338	6.28	10	<1	0.26	10	1.03	3770	<1	0.02	<1	1170	8	0.44	<2	4	
S836339	4.81	10	<1	0.30	20	0.72	2090	<1	0.02	1	1200	7	0.11	2	3	
S836340	5.23	10	<1	0.28	20	0.83	2330	<1	0.02	<1	1200	8	0.19	2	4	
S836341	5.15	10	1	0.27	20	0.73	2530	1	0.02	<1	1080	9	0.02	<2	3	
S836342	4.71	<10	<1	0.31	20	0.72	2790	<1	0.02	<1	1200	9	0.02	2	4	
S836343	3.98	<10	<1	0.30	20	0.71	2630	<1	0.02	1	1070	11	0.15	<2	3	
S836344	5.29	10	<1	0.27	20	0.70	2560	<1	0.03	<1	1170	7	0.01	<2	4	
S836345	6.43	10	<1	0.25	20	0.99	3050	<1	0.03	1	1150	6	0.01	4	4	
S836346	5.64	10	<1	0.27	20	0.90	2630	<1	0.03	1	1180	8	0.02	<2	4	
S836347	4.56	10	1	0.22	20	0.78	2480	<1	0.02	1	1080	9	0.06	<2	4	
S836348	4.72	10	<1	0.29	20	0.96	2430	<1	0.02	1	1360	7	0.06	<2	3	
S836349	4.27	10	<1	0.27	20	1.08	3740	<1	0.02	1	1200	8	0.08	<2	4	
S836350	1.65	<10	<1	0.10	10	0.24	403	<1	0.07	1	510	<2	0.04	<2	1	
S836351	3.23	<10	<1	0.32	20	0.75	3150	<1	0.02	1	1250	5	0.05	<2	4	
S836352	3.53	<10	<1	0.33	20	0.82	3680	<1	0.02	1	1390	5	0.05	<2	3	
S836353	3.29	<10	<1	0.32	20	0.64	3820	<1	0.02	<1	1220	3	0.03	<2	3	
S836354	5.40	10	<1	0.32	20	0.88	3670	<1	0.02	1	1360	4	0.03	<2	3	
S836355	5.01	10	<1	0.32	20	0.89	3940	<1	0.02	1	1190	6	0.04	<2	3	
S836356	4.81	10	1	0.25	10	1.02	3850	<1	0.01	2	1090	5	0.09	<2	3	
S836357	4.07	<10	<1	0.37	20	0.88	3650	<1	0.02	1	1240	7	0.05	<2	3	



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-OG46
		Sr	Th	Ti	Ti	U	V	W	Zn	Cu
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
		1	20	0.01	10	10	1	10	2	0.001
S836318		79	<20	0.01	<10	<10	64	10	252	
S836319		140	<20	0.02	<10	<10	60	<10	133	
S836320		29	<20	0.07	<10	<10	38	<10	32	
S836321		116	<20	<0.01	<10	<10	44	<10	248	1.050
S836322		73	<20	0.01	<10	<10	63	<10	200	
S836323		88	<20	0.02	<10	<10	66	<10	188	
S836324		168	<20	0.03	<10	<10	70	10	162	
S836325		189	<20	0.01	<10	<10	61	10	198	
S836326		124	<20	0.01	<10	<10	54	<10	158	
S836327		94	<20	0.02	<10	<10	67	<10	125	
S836328		80	<20	0.03	<10	<10	81	<10	154	
S836329		103	<20	0.01	<10	<10	50	<10	140	
S836330		61	<20	0.03	<10	<10	28	<10	665	
S836331		92	<20	<0.01	<10	<10	47	<10	151	
S836332		120	<20	0.02	<10	<10	67	<10	153	
S836333		91	<20	0.01	<10	<10	66	<10	159	
S836334		88	<20	0.01	<10	<10	60	<10	176	
S836335		88	<20	0.02	<10	<10	76	<10	148	
S836336		78	<20	0.02	<10	<10	74	<10	142	
S836337		87	<20	0.02	<10	<10	71	<10	142	
S836338		93	<20	0.02	<10	<10	77	<10	164	
S836339		85	<20	0.03	<10	<10	72	<10	105	
S836340		80	<20	0.03	<10	<10	74	<10	120	
S836341		103	<20	0.04	<10	<10	79	<10	106	
S836342		152	<20	0.04	<10	<10	75	<10	97	
S836343		187	<20	0.02	<10	<10	52	<10	97	
S836344		124	<20	0.05	<10	<10	81	<10	98	
S836345		121	<20	0.04	<10	<10	84	<10	149	
S836346		162	<20	0.04	<10	<10	85	<10	139	
S836347		153	<20	0.03	<10	<10	67	<10	114	
S836348		128	<20	0.02	<10	<10	74	<10	141	
S836349		158	<20	0.01	<10	<10	52	<10	142	
S836350		28	<20	0.07	<10	<10	39	<10	37	
S836351		201	<20	0.01	<10	<10	45	<10	93	
S836352		203	<20	0.01	<10	<10	42	<10	119	
S836353		165	<20	0.01	<10	<10	39	<10	107	
S836354		117	<20	0.02	<10	<10	64	<10	152	
S836355		147	<20	0.02	<10	<10	59	<10	147	
S836356		145	<20	0.01	<10	<10	45	<10	161	
S836357		164	<20	0.01	<10	<10	43	<10	125	



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CERTIFICATE OF ANALYSIS TR17179173

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	Au-GRA21 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm
S836358		1.87	0.019		0.3	2.96	2	<10	920	0.6	3	2.20	<0.5	9	1	69
S836359		0.99	1.070		1.3	2.66	<2	<10	2360	0.6	3	2.10	<0.5	10	1	40
S836360		1.06	0.157		0.2	2.45	2	<10	1760	0.5	<2	2.12	<0.5	9	1	42
S836361		2.25	0.019		<0.2	1.50	<2	<10	1580	0.5	2	2.98	<0.5	7	2	4
S836362		2.66	0.011		<0.2	1.87	<2	<10	290	0.7	<2	2.11	<0.5	9	1	204
S836363		1.90	0.009		<0.2	1.47	2	10	490	0.8	<2	3.89	<0.5	7	1	82
S836364		2.50	0.005		<0.2	1.61	<2	<10	890	0.7	<2	3.12	0.6	8	1	102
S836365		2.11	0.023		0.2	1.87	2	<10	840	0.6	3	2.15	1.6	8	1	110
S836366		2.11	0.023		0.2	1.94	6	<10	480	0.6	<2	1.32	<0.5	8	1	209
S836367		2.59	0.018		<0.2	2.26	5	<10	330	0.5	<2	1.06	<0.5	9	1	84
S836368		1.63	0.001		0.2	2.79	2	<10	810	0.5	<2	1.21	<0.5	12	3	538
S836369		2.20	0.011		0.4	2.32	<2	<10	710	0.5	2	2.09	<0.5	13	2	736
S836370		1.44	<0.001		<0.2	0.62	2	<10	90	<0.5	<2	0.65	<0.5	3	5	4
S836371		1.46	0.009		<0.2	2.22	<2	<10	250	0.5	<2	2.09	<0.5	11	3	148
S836372		2.10	0.013		0.2	2.01	3	<10	280	0.6	2	1.21	<0.5	9	3	29
S836373		1.11	0.008		0.5	2.11	3	<10	610	<0.5	2	1.69	<0.5	7	3	21
S836374		1.02	0.008		0.4	2.28	5	<10	710	<0.5	<2	1.94	<0.5	7	3	75
S836375		1.70	0.012		0.7	2.86	4	<10	600	<0.5	2	3.22	<0.5	11	2	487
S836376		1.89	0.058		4.2	2.72	3	<10	70	<0.5	5	3.48	<0.5	12	2	7640
S836377		1.87	0.043		2.6	2.72	5	<10	120	<0.5	3	2.55	<0.5	11	2	5860
S836378		2.11	0.023		<0.2	1.03	3	<10	1240	0.7	<2	2.89	<0.5	7	1	71
S836379		0.95	0.005		0.2	1.64	<2	<10	1920	<0.5	<2	2.51	<0.5	5	1	301
S836380		0.90	0.017		<0.2	1.63	2	<10	1780	<0.5	3	2.55	<0.5	6	1	301
S836381		2.09	0.007		0.3	1.52	3	<10	650	<0.5	3	1.87	<0.5	6	1	48
S836382		2.01	0.009		0.3	1.55	4	<10	450	<0.5	4	2.10	<0.5	6	2	325
S836383		2.07	0.007		<0.2	1.59	2	<10	620	<0.5	4	2.17	<0.5	4	1	268
S836384		2.32	<0.001		<0.2	1.78	<2	<10	490	<0.5	2	1.88	<0.5	5	1	43
S836385		2.13	0.025		<0.2	1.70	2	<10	420	<0.5	4	1.84	<0.5	5	2	50
S836386		2.38	0.029		<0.2	1.61	<2	<10	600	<0.5	3	2.55	<0.5	4	1	22
S836387		2.18	0.027		<0.2	1.59	2	<10	670	<0.5	<2	2.30	<0.5	5	2	77



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Project: Forrest Kerr

CERTIFICATE OF ANALYSIS TR17179173

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm
S836358		7.40	10	<1	0.32	20	1.65	5550	<1	0.02	1	1250	5	0.04	<2	3
S836359		6.17	10	<1	0.30	20	1.59	5370	<1	0.02	1	1250	4	0.07	<2	4
S836360		5.70	10	1	0.28	20	1.46	5240	<1	0.02	1	1180	5	0.06	<2	3
S836361		3.61	<10	<1	0.29	20	0.84	4950	<1	0.02	1	1100	6	0.05	<2	3
S836362		3.98	<10	1	0.33	20	1.02	5000	<1	0.03	1	1360	6	0.04	<2	3
S836363		3.21	<10	<1	0.36	20	0.83	5560	<1	0.03	1	1430	6	0.04	<2	3
S836364		3.88	<10	<1	0.31	20	1.02	5930	<1	0.03	1	1230	15	0.05	<2	3
S836365		4.20	10	<1	0.31	20	1.04	5250	<1	0.02	1	1270	13	0.06	<2	3
S836366		4.47	10	<1	0.27	20	1.15	4620	<1	0.02	1	1110	10	0.14	<2	2
S836367		4.93	10	<1	0.28	10	1.34	4950	<1	0.02	2	1130	3	0.04	<2	2
S836368		5.94	10	<1	0.26	10	1.75	4310	<1	0.02	5	1250	7	0.16	<2	4
S836369		5.26	10	<1	0.30	20	1.47	5040	<1	0.02	4	1210	11	0.45	<2	4
S836370		1.99	<10	<1	0.09	10	0.33	467	<1	0.07	2	610	3	0.04	<2	2
S836371		4.54	10	1	0.28	20	1.47	4780	<1	0.03	5	1170	4	0.04	<2	4
S836372		4.43	10	<1	0.31	20	1.08	3560	<1	0.03	4	1130	8	0.17	<2	3
S836373		4.80	10	<1	0.24	20	1.17	4260	<1	0.02	3	710	16	0.16	<2	3
S836374		5.25	10	<1	0.23	10	1.25	4260	<1	0.02	3	970	13	0.12	<2	3
S836375		7.03	10	<1	0.17	10	1.62	5900	<1	0.01	3	830	15	0.43	<2	3
S836376		7.72	10	1	0.18	10	1.49	5410	<1	0.02	2	680	20	1.44	<2	3
S836377		7.40	10	<1	0.21	10	1.48	4910	<1	0.02	2	770	20	1.10	<2	3
S836378		3.28	<10	<1	0.37	20	0.57	3090	<1	0.04	1	1410	7	0.10	<2	2
S836379		4.02	10	<1	0.32	20	1.00	4030	<1	0.03	1	1310	7	0.09	<2	4
S836380		4.04	10	<1	0.29	20	1.00	4030	<1	0.03	1	1290	9	0.09	<2	3
S836381		3.71	10	<1	0.30	20	0.85	3090	<1	0.03	1	1230	5	0.22	<2	3
S836382		3.94	10	1	0.26	10	0.85	3170	<1	0.02	1	1150	9	0.36	<2	3
S836383		3.72	10	<1	0.27	20	0.83	3270	1	0.01	6	1130	11	0.04	2	3
S836384		4.24	10	<1	0.22	20	0.91	3510	<1	0.02	2	1130	5	0.03	<2	3
S836385		4.24	10	<1	0.24	10	0.84	3630	<1	0.02	2	1040	10	0.25	2	3
S836386		3.83	10	<1	0.25	20	0.80	3960	<1	0.02	1	1110	6	<0.01	2	3
S836387		3.93	10	<1	0.27	20	0.84	3880	<1	0.02	1	1230	6	0.02	3	3



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-OG46
		Sr	Th	Ti	Tl	U	V	W	Zn	Cu
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
		1	20	0.01	10	10	1	10	2	0.001
S836358		198	<20	0.01	<10	<10	49	<10	223	
S836359		161	<20	0.01	<10	<10	45	<10	234	
S836360		149	<20	<0.01	<10	<10	43	<10	225	
S836361		238	<20	<0.01	<10	<10	33	<10	164	
S836362		170	<20	<0.01	<10	<10	37	<10	207	
S836363		257	<20	<0.01	<10	<10	29	<10	163	
S836364		304	<20	<0.01	<10	<10	32	<10	258	
S836365		222	<20	<0.01	<10	<10	33	<10	483	
S836366		124	<20	<0.01	<10	<10	27	<10	262	
S836367		93	<20	<0.01	<10	<10	37	<10	236	
S836368		95	<20	<0.01	<10	<10	63	<10	269	
S836369		158	<20	<0.01	<10	<10	54	<10	213	
S836370		37	<20	0.09	<10	<10	48	<10	34	
S836371		128	<20	<0.01	<10	<10	47	<10	223	
S836372		109	<20	<0.01	<10	<10	42	<10	168	
S836373		155	<20	<0.01	<10	<10	39	<10	206	
S836374		152	<20	<0.01	<10	<10	46	<10	232	
S836375		231	<20	<0.01	<10	<10	48	<10	291	
S836376		268	<20	<0.01	<10	<10	47	<10	249	
S836377		202	<20	<0.01	<10	<10	44	<10	312	
S836378		249	<20	0.01	<10	<10	45	<10	94	
S836379		178	<20	0.01	<10	<10	45	<10	141	
S836380		181	<20	0.01	<10	<10	45	<10	142	
S836381		135	<20	0.01	<10	<10	44	<10	120	
S836382		163	<20	<0.01	<10	<10	45	<10	114	
S836383		174	<20	0.01	<10	<10	50	<10	116	
S836384		149	<20	0.01	<10	<10	59	<10	127	
S836385		145	<20	0.01	<10	<10	51	<10	118	
S836386		212	<20	0.01	<10	<10	50	<10	118	
S836387		170	<20	0.01	<10	<10	63	<10	123	



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CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Terrace located at 2912 Molitor Street, Terrace, BC, Canada.			
	CRU-31	CRU-QC	LOG-22	LOG-24
	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-GRA21	Au-ICP21	Cu-OG46	ME-ICP41
	ME-OG46			



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CERTIFICATE TR17183887

Project: Forrest Kerr

This report is for 114 Drill Core samples submitted to our lab in Terrace, BC, Canada on 25-AUG-2017.

The following have access to data associated with this certificate:

DEIRDRE HEFFERNAN	CORNELL MCDOWELL
-------------------	------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
LOG-23	Pulp Login - Rcvd with Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Cu-OG46	Ore Grade Cu - Aqua Regia	ICP-AES
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
Au-GRA21	Au 30g FA-GRAV finish	WST-SIM
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: **ABEN RESOURCES LTD.**
ATTN: ALS GEOCHEMISTRY

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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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	Au-GRA21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm
		0.02	0.001	0.05	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
S836388		1.84	0.005		<0.2	2.04	<2	<10	810	<0.5	5	2.62	<0.5	5	2	37
S836389		1.23	0.021		0.2	2.22	<2	<10	470	0.5	4	1.64	<0.5	8	2	396
S836390		1.14	<0.001		<0.2	0.62	<2	<10	70	<0.5	<2	0.58	<0.5	3	4	10
S836391		1.65	0.043		0.4	2.14	2	<10	740	0.5	5	1.91	<0.5	8	1	830
S836392		1.89	0.494		0.6	1.02	14	10	490	1.0	4	4.41	<0.5	12	1	860
S836393		1.97	0.003		<0.2	0.87	<2	<10	1880	<0.5	2	5.19	<0.5	6	1	4
S836394		2.09	0.009		<0.2	1.14	2	<10	130	0.5	<2	2.19	<0.5	7	1	4
S836395		1.77	0.024		<0.2	1.10	<2	<10	370	0.5	2	3.30	<0.5	5	1	1
S836396		2.58	0.009		<0.2	1.37	<2	<10	400	<0.5	<2	2.29	<0.5	6	2	43
S836397		2.62	0.010		0.2	1.76	<2	<10	760	<0.5	2	1.94	<0.5	8	1	294
S836398		2.78	0.939		1.5	1.82	4	<10	40	<0.5	53	1.57	<0.5	11	1	1670
S836399		0.90	0.064		0.5	1.35	<2	<10	60	<0.5	2	1.29	<0.5	12	2	672
S836400		0.97	0.037		0.4	1.49	<2	<10	70	<0.5	3	0.93	<0.5	11	2	219
S836401		2.27	0.015		0.4	1.22	<2	<10	70	<0.5	4	1.63	<0.5	13	1	291
S836402		2.29	0.029		<0.2	1.43	<2	<10	1200	<0.5	3	1.16	<0.5	8	1	457
S836403		2.56	0.009		<0.2	0.93	<2	<10	2780	<0.5	3	2.19	<0.5	5	2	82
S836404		1.85	0.011		<0.2	1.53	<2	<10	780	<0.5	3	2.15	<0.5	7	1	46
S836405		2.39	2.71		1.6	1.32	10	<10	20	<0.5	6	1.88	<0.5	17	2	1210
S836406		1.80	0.409		0.5	1.66	10	<10	40	<0.5	3	1.47	<0.5	14	2	290
S836407		2.11	0.114		0.2	1.55	<2	<10	820	0.5	2	2.22	<0.5	8	1	59
S836408		2.07	0.002		<0.2	1.15	<2	<10	690	<0.5	<2	3.28	<0.5	6	1	5
S836409		2.57	0.015		<0.2	1.56	<2	<10	260	0.5	3	2.28	<0.5	7	2	12
S836410		1.32	<0.001		<0.2	0.47	<2	<10	60	<0.5	<2	0.43	<0.5	2	4	5
S836411		2.45	0.207		0.6	1.94	<2	<10	340	<0.5	3	1.52	<0.5	12	1	573
S836412		2.80	0.002		<0.2	1.70	<2	<10	300	<0.5	2	4.69	<0.5	9	1	69
S836413		2.14	0.016		<0.2	1.51	<2	<10	150	<0.5	<2	2.50	<0.5	8	1	20
S836414		2.55	0.050		<0.2	1.52	<2	<10	170	<0.5	2	2.95	<0.5	8	1	58
S836415		0.06	0.302		1.9	1.72	29	10	70	<0.5	2	0.76	3.7	11	25	2350
S836416		1.39	0.001		0.2	1.89	12	10	620	<0.5	2	3.82	0.9	20	22	68
S836417		1.24	0.001		<0.2	0.78	<2	<10	420	<0.5	<2	1.33	<0.5	5	1	24
S836418		1.55	0.008		<0.2	0.83	<2	<10	420	0.5	<2	1.93	<0.5	4	2	7
S836419		0.89	0.005		<0.2	0.73	<2	<10	700	<0.5	<2	3.20	<0.5	5	1	12
S836420		1.07	0.003		<0.2	0.76	<2	<10	740	<0.5	2	3.65	<0.5	5	2	10
S836421		2.16	0.007		<0.2	0.78	<2	<10	230	<0.5	<2	3.30	<0.5	4	2	3
S836422		1.55	0.025		<0.2	0.71	<2	<10	360	0.5	<2	2.75	<0.5	4	1	1
S836423		2.99	0.003		<0.2	0.60	<2	<10	800	0.5	2	4.00	<0.5	4	1	1
S836424		2.37	0.004		<0.2	0.62	<2	<10	620	0.5	<2	4.08	<0.5	4	2	<1
S836425		2.12	0.001		<0.2	0.40	<2	<10	630	0.5	3	4.26	<0.5	3	1	1
S836426		2.05	<0.001		<0.2	0.53	<2	<10	640	<0.5	2	3.45	<0.5	3	1	1
S836427		2.37	0.001		<0.2	0.83	2	<10	700	<0.5	<2	2.51	<0.5	6	1	<1



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm
S836388		4.92	10	<1	0.24	20	1.11	4250	<1	0.03	1	1340	4	0.04	<2	3
S836389		5.32	10	<1	0.32	20	1.14	3680	<1	0.03	1	1300	5	0.17	<2	3
S836390		1.90	<10	<1	0.10	10	0.30	446	<1	0.07	1	560	5	0.03	<2	1
S836391		5.26	10	1	0.32	20	1.08	3560	<1	0.03	1	1230	5	0.38	2	3
S836392		3.91	<10	<1	0.43	20	0.81	3700	<1	0.05	<1	1140	16	0.47	<2	3
S836393		3.26	<10	1	0.31	20	0.86	3830	<1	0.03	<1	1170	8	0.06	<2	3
S836394		3.97	<10	<1	0.32	20	0.72	2440	<1	0.04	<1	1320	7	<0.01	<2	4
S836395		3.51	<10	<1	0.28	30	0.70	3340	<1	0.04	<1	1160	8	0.01	<2	4
S836396		3.66	10	<1	0.24	20	0.85	3290	<1	0.03	1	1040	6	0.02	2	3
S836397		4.36	10	<1	0.21	20	1.10	3550	<1	0.02	1	1240	3	0.05	2	4
S836398		5.83	10	1	0.20	10	1.06	3660	<1	0.02	<1	890	56	1.85	<2	3
S836399		5.07	<10	<1	0.24	10	0.83	3050	<1	0.02	<1	1070	18	1.99	<2	2
S836400		4.93	<10	1	0.23	10	0.85	2730	<1	0.02	1	1110	12	1.66	<2	2
S836401		4.67	<10	1	0.21	10	0.98	3110	<1	0.03	1	1060	9	0.98	<2	3
S836402		4.57	<10	<1	0.25	20	1.03	3320	<1	0.03	<1	1210	4	0.15	<2	3
S836403		2.89	<10	<1	0.27	20	0.60	2650	<1	0.03	1	1090	3	0.09	<2	2
S836404		3.82	10	<1	0.25	20	0.86	3310	1	0.03	<1	1260	2	0.11	<2	3
S836405		5.81	10	<1	0.16	10	0.72	2940	1	0.01	<1	850	23	3.14	<2	2
S836406		5.19	10	<1	0.20	10	0.90	2600	<1	0.02	1	1070	16	1.93	3	3
S836407		3.90	10	1	0.28	20	0.80	2680	1	0.03	1	1260	6	0.25	<2	3
S836408		3.16	<10	<1	0.26	20	0.63	2880	<1	0.03	1	1160	3	0.02	2	3
S836409		4.22	10	1	0.26	20	0.84	3230	<1	0.04	<1	1220	5	0.01	<2	4
S836410		1.63	<10	<1	0.10	10	0.25	380	1	0.06	3	490	4	0.02	<2	1
S836411		5.09	10	<1	0.25	20	1.06	3100	<1	0.03	<1	1170	9	0.78	<2	3
S836412		3.59	10	<1	0.25	20	1.10	3430	<1	0.03	1	1260	2	0.05	2	3
S836413		4.41	10	<1	0.24	20	0.98	2520	<1	0.03	1	1260	3	<0.01	<2	3
S836414		4.61	10	<1	0.21	20	1.01	3250	<1	0.03	1	1190	5	0.01	<2	3
S836415		4.86	<10	<1	0.33	<10	0.55	893	18	0.06	19	680	60	2.94	2	2
S836416		4.90	10	<1	0.13	10	1.99	2020	1	0.04	36	1480	18	0.29	<2	7
S836417		2.32	<10	<1	0.26	20	0.41	3310	<1	0.01	1	1150	6	0.02	<2	2
S836418		2.68	<10	<1	0.31	20	0.37	2990	<1	0.01	1	1090	8	0.01	<2	2
S836419		2.14	<10	<1	0.27	20	0.40	3080	<1	0.01	1	1060	5	0.01	2	2
S836420		2.19	<10	<1	0.28	20	0.39	3390	<1	0.01	1	1070	5	0.01	<2	2
S836421		2.38	<10	<1	0.29	20	0.51	3130	<1	0.01	1	1070	8	<0.01	2	2
S836422		2.29	<10	<1	0.32	20	0.46	2990	<1	0.01	1	1100	8	0.01	<2	2
S836423		2.57	<10	<1	0.34	20	0.82	3880	<1	0.01	1	1010	8	0.01	2	2
S836424		2.34	<10	<1	0.34	20	0.54	3470	<1	0.01	1	1020	7	0.01	2	2
S836425		1.98	<10	<1	0.35	20	0.62	3580	<1	0.01	<1	1060	7	0.01	3	2
S836426		1.90	<10	<1	0.31	20	0.53	3250	<1	0.01	<1	1050	5	0.01	<2	2
S836427		2.26	<10	<1	0.32	20	0.58	2320	<1	0.01	2	1130	4	0.01	<2	2



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-OG46
		Sr	Th	Ti	Ti	U	V	W	Zn	Cu
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
		1	20	0.01	10	10	1	10	2	0.001
S836388		215	<20	0.01	<10	<10	95	<10	153	
S836389		121	<20	0.01	<10	<10	98	<10	159	
S836390		39	<20	0.09	<10	<10	45	<10	38	
S836391		154	<20	<0.01	<10	<10	68	<10	157	
S836392		352	<20	<0.01	<10	<10	37	<10	94	
S836393		336	<20	0.01	<10	<10	54	<10	75	
S836394		148	<20	0.03	<10	<10	69	10	87	
S836395		213	<20	0.02	<10	<10	60	<10	89	
S836396		131	<20	0.01	<10	<10	59	<10	128	
S836397		116	<20	0.01	<10	<10	70	<10	162	
S836398		100	<20	<0.01	<10	<10	59	<10	178	
S836399		78	<20	<0.01	<10	<10	40	<10	124	
S836400		66	<20	<0.01	<10	<10	42	<10	138	
S836401		145	<20	<0.01	<10	<10	47	<10	151	
S836402		89	<20	<0.01	<10	<10	57	<10	140	
S836403		180	<20	0.01	<10	<10	41	<10	80	
S836404		107	<20	<0.01	<10	<10	52	<10	126	
S836405		113	<20	<0.01	<10	<10	47	<10	149	
S836406		89	<20	<0.01	<10	<10	59	<10	139	
S836407		126	<20	0.01	<10	<10	50	<10	111	
S836408		140	<20	0.01	<10	<10	47	<10	75	
S836409		127	<20	0.02	<10	<10	74	<10	98	
S836410		24	<20	0.07	<10	<10	39	<10	33	
S836411		91	<20	<0.01	<10	<10	64	<10	130	
S836412		150	<20	<0.01	<10	<10	43	<10	116	
S836413		105	<20	0.03	<10	<10	71	<10	101	
S836414		136	<20	0.03	<10	<10	69	<10	103	
S836415		61	<20	0.03	<10	<10	28	<10	685	
S836416		101	<20	0.13	<10	<10	120	<10	311	
S836417		40	<20	0.01	<10	<10	27	<10	78	
S836418		62	<20	0.01	<10	<10	33	<10	74	
S836419		104	<20	0.01	<10	<10	22	<10	72	
S836420		112	<20	0.01	<10	<10	23	<10	75	
S836421		119	<20	0.01	<10	<10	28	<10	76	
S836422		130	<20	0.01	<10	<10	26	<10	66	
S836423		206	<20	0.01	<10	<10	29	<10	71	
S836424		211	<20	0.01	<10	<10	30	<10	57	
S836425		235	<20	0.01	<10	<10	24	<10	42	
S836426		197	<20	0.01	<10	<10	19	<10	55	
S836427		173	<20	0.01	<10	<10	30	<10	77	



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Sample Description	Method	WEI-21	Au-ICP21	Au-GRA21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu
	Units	kg	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.05	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
S836428		2.54	0.002		<0.2	0.68	<2	<10	640	0.5	<2	4.16	<0.5	4	1	<1
S836429		2.56	0.025		<0.2	0.50	<2	<10	1020	0.5	<2	4.17	<0.5	3	2	1
S836430		1.37	<0.001		<0.2	0.47	<2	<10	70	<0.5	<2	0.47	<0.5	2	4	3
S836431		1.96	<0.001		<0.2	0.67	<2	<10	640	0.5	2	3.97	<0.5	4	2	2
S836432		2.18	0.001		<0.2	0.82	<2	<10	260	<0.5	2	3.70	<0.5	6	2	7
S836433		2.11	<0.001		<0.2	0.78	<2	<10	370	0.5	2	4.32	<0.5	4	2	2
S836434		2.73	0.003		<0.2	0.87	<2	<10	240	0.5	2	2.46	<0.5	4	1	1
S836435		2.51	0.003		<0.2	0.70	<2	<10	1980	0.5	<2	4.11	<0.5	3	1	12
S836436		2.12	0.005		<0.2	0.52	<2	<10	2030	<0.5	2	5.89	<0.5	3	1	88
S836437		2.04	<0.001		<0.2	0.72	<2	<10	530	<0.5	<2	5.21	0.5	3	1	146
S836438		2.20	<0.001		<0.2	0.78	<2	<10	210	<0.5	2	2.72	<0.5	5	1	17
S836439		1.13	0.003		<0.2	0.63	2	<10	340	<0.5	<2	3.47	<0.5	5	1	15
S836440		1.10	<0.001		<0.2	0.63	2	<10	290	<0.5	<2	3.09	<0.5	5	1	12
S836441		2.66	<0.001		<0.2	0.78	2	<10	410	<0.5	<2	4.73	0.5	5	1	20
S836442		2.25	0.001		<0.2	0.65	<2	<10	450	<0.5	<2	4.19	<0.5	4	2	26
S836443		2.26	<0.001		<0.2	0.83	<2	<10	320	<0.5	<2	6.10	<0.5	4	1	29
S836444		2.34	0.002		<0.2	0.76	5	<10	300	<0.5	2	7.14	0.5	5	1	25
S836445		2.25	0.004		<0.2	0.58	5	<10	260	<0.5	<2	5.29	1.0	5	1	8
S836446		1.47	0.001		0.2	0.99	3	<10	310	0.5	<2	3.75	<0.5	6	1	15
S836447		1.33	0.002		<0.2	0.84	<2	<10	900	0.6	3	3.56	<0.5	5	1	12
S836448		1.68	<0.001		<0.2	0.76	2	<10	500	0.5	2	4.08	<0.5	4	1	18
S836449		1.71	0.001		<0.2	0.78	2	<10	540	0.6	2	3.99	<0.5	5	1	11
S836450		1.32	<0.001		<0.2	0.52	<2	<10	60	<0.5	<2	0.50	<0.5	3	4	2
S836451		1.65	0.002		<0.2	0.82	3	<10	450	0.5	<2	3.11	<0.5	6	1	10
S836452		1.75	0.002		<0.2	0.94	6	<10	740	0.5	2	3.40	<0.5	5	1	15
S836453		1.99	0.010		<0.2	0.78	7	<10	830	0.6	2	4.28	<0.5	4	1	22
S836454		1.70	0.025		0.7	0.78	5	<10	300	0.5	3	3.35	<0.5	6	1	135
S836455		2.37	0.137		1.2	0.92	11	<10	70	0.6	<2	3.20	0.6	9	1	93
S836456		1.99	0.101		1.3	0.64	9	<10	90	0.6	3	2.61	1.0	9	1	171
S836457		2.37	0.028		0.8	0.49	50	<10	220	<0.5	2	3.73	<0.5	8	2	23
S836458		1.97	0.099		0.9	0.75	43	<10	60	<0.5	3	1.78	<0.5	11	1	41
S836459		1.08	0.081		0.5	1.07	9	<10	50	<0.5	3	0.90	<0.5	11	1	26
S836460		1.15	0.027		0.5	1.10	7	<10	60	<0.5	2	0.93	<0.5	12	2	18
S836461		2.60	>10.0	17.25	24.1	1.30	10	<10	10	<0.5	7	0.95	<0.5	14	2	>10000
S836462		2.59	>10.0	11.15	26.2	1.29	5	<10	10	<0.5	<2	0.54	<0.5	17	1	>10000
S836463		2.18	0.213		1.1	0.36	10	<10	40	<0.5	2	1.20	<0.5	9	3	808
S836464		2.56	0.622		1.6	0.30	30	<10	50	<0.5	3	2.54	<0.5	9	2	699
S836465		1.94	6.28		9.6	0.71	7	<10	30	<0.5	7	0.64	<0.5	23	2	9140
S836466		2.29	0.560		0.6	1.64	3	<10	140	<0.5	<2	0.52	<0.5	13	2	113
S836467		2.60	0.598		0.7	1.49	3	<10	160	<0.5	2	0.73	<0.5	20	1	151



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		Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm
S836428		2.49	<10	<1	0.32	20	0.71	3130	<1	0.01	1	1080	4	0.02	<2	2
S836429		2.15	<10	<1	0.34	20	0.55	3220	<1	0.01	1	980	6	0.02	<2	2
S836430		1.60	<10	<1	0.09	10	0.24	386	<1	0.06	<1	500	3	0.02	<2	1
S836431		2.56	<10	<1	0.34	30	0.47	2850	<1	0.01	1	950	7	0.01	<2	2
S836432		2.16	<10	<1	0.29	20	0.55	2770	<1	0.01	<1	1050	2	<0.01	<2	2
S836433		2.43	<10	<1	0.31	20	0.54	3340	<1	0.01	1	960	7	0.01	<2	2
S836434		3.03	<10	<1	0.30	20	0.55	3050	<1	0.01	1	920	9	<0.01	2	2
S836435		2.79	<10	<1	0.33	20	0.52	3730	<1	0.01	1	900	11	0.06	3	2
S836436		2.61	<10	<1	0.33	20	0.72	3940	<1	0.01	<1	890	12	0.13	<2	2
S836437		2.29	<10	<1	0.31	20	0.55	3490	<1	0.01	2	980	7	0.12	<2	2
S836438		2.35	<10	<1	0.28	20	0.52	2220	<1	0.01	1	940	4	0.16	<2	2
S836439		2.47	<10	<1	0.32	20	0.51	2650	<1	0.01	1	1060	7	0.31	<2	2
S836440		2.40	<10	<1	0.33	20	0.53	2460	<1	0.01	1	1130	6	0.24	<2	2
S836441		2.53	<10	<1	0.31	20	0.55	3100	<1	0.01	<1	1010	8	0.23	2	2
S836442		2.31	<10	<1	0.32	20	0.52	3070	<1	0.01	2	1030	8	0.27	<2	2
S836443		2.35	<10	<1	0.29	20	0.58	3640	<1	0.01	1	960	7	0.17	<2	2
S836444		2.47	<10	<1	0.28	20	0.56	4040	<1	0.01	1	1010	7	0.71	2	2
S836445		2.45	<10	<1	0.29	10	0.49	3210	<1	0.01	1	930	12	0.87	<2	2
S836446		2.69	<10	<1	0.32	20	0.60	2800	<1	0.01	1	1080	8	0.19	<2	2
S836447		2.40	<10	<1	0.36	20	0.53	2400	<1	0.01	<1	1130	6	0.13	<2	2
S836448		2.35	<10	<1	0.33	20	0.61	2780	<1	0.01	1	990	4	0.12	<2	2
S836449		2.38	<10	<1	0.36	20	0.53	2820	<1	0.01	1	1000	9	0.26	<2	2
S836450		1.70	<10	<1	0.09	10	0.26	402	<1	0.06	1	520	3	0.03	<2	1
S836451		2.36	<10	<1	0.32	20	0.51	2330	<1	0.01	1	970	6	0.31	<2	2
S836452		2.51	<10	<1	0.32	20	0.53	2380	<1	0.01	1	1000	10	0.31	2	2
S836453		2.23	<10	<1	0.35	20	0.47	2730	<1	0.01	<1	1020	7	0.20	4	2
S836454		3.29	<10	<1	0.37	10	0.52	3860	<1	0.01	<1	1110	14	0.73	<2	2
S836455		3.66	<10	<1	0.35	10	0.51	3150	2	0.01	1	1080	18	1.34	2	2
S836456		3.97	<10	<1	0.39	20	0.47	3500	1	0.01	2	1090	19	1.27	2	2
S836457		3.29	<10	<1	0.30	10	0.29	2990	<1	0.01	1	880	28	0.85	10	2
S836458		3.97	<10	<1	0.36	10	0.38	2500	<1	0.01	1	990	27	1.59	9	3
S836459		4.48	<10	<1	0.30	10	0.53	1845	<1	0.01	1	1110	15	2.08	2	2
S836460		4.67	<10	<1	0.30	10	0.55	2110	<1	0.01	1	1100	17	2.13	<2	2
S836461		9.06	10	<1	0.20	10	0.73	2120	1	0.01	1	610	92	5.45	4	2
S836462		10.70	<10	1	0.31	10	0.72	2390	1	0.01	1	660	26	6.92	<2	2
S836463		3.95	<10	<1	0.23	10	0.19	1375	<1	0.01	<1	570	16	1.72	<2	2
S836464		2.65	<10	<1	0.23	10	0.20	1780	<1	0.01	1	590	18	1.68	5	2
S836465		5.29	<10	<1	0.25	10	0.35	1860	1	0.01	2	610	12	3.27	<2	2
S836466		5.95	10	<1	0.24	10	0.77	2960	<1	0.01	2	960	10	1.50	<2	2
S836467		5.65	10	<1	0.24	10	0.68	2810	1	0.01	1	1010	8	1.58	<2	2



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-OG46
		Sr ppm 1	Th ppm 20	Ti % 0.01	Ti ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2	Cu % 0.001
S836428		208	<20	0.01	<10	<10	36	<10	70	
S836429		223	<20	0.01	<10	<10	27	<10	47	
S836430		31	<20	0.07	<10	<10	37	<10	32	
S836431		227	<20	0.01	<10	<10	38	<10	56	
S836432		139	<20	0.01	<10	<10	29	<10	76	
S836433		221	<20	0.01	<10	<10	28	<10	72	
S836434		155	<20	0.01	<10	<10	39	<10	86	
S836435		282	<20	0.01	<10	<10	28	<10	77	
S836436		365	<20	<0.01	<10	<10	17	<10	84	
S836437		179	<20	<0.01	<10	<10	15	<10	109	
S836438		111	<20	<0.01	<10	<10	20	<10	117	
S836439		159	<20	<0.01	<10	<10	15	<10	127	
S836440		151	<20	<0.01	<10	<10	15	<10	125	
S836441		177	<20	<0.01	<10	<10	18	<10	143	
S836442		177	<20	<0.01	<10	<10	14	<10	128	
S836443		217	<20	<0.01	<10	<10	18	<10	126	
S836444		201	<20	<0.01	<10	<10	17	<10	136	
S836445		247	<20	<0.01	<10	<10	12	<10	169	
S836446		201	<20	<0.01	<10	<10	21	<10	149	
S836447		196	<20	<0.01	<10	<10	16	<10	93	
S836448		223	<20	<0.01	<10	<10	13	<10	85	
S836449		241	<20	<0.01	<10	<10	13	<10	108	
S836450		30	<20	0.08	<10	<10	40	<10	34	
S836451		211	<20	<0.01	<10	<10	13	<10	82	
S836452		192	<20	<0.01	<10	<10	16	<10	93	
S836453		219	<20	<0.01	<10	<10	12	<10	85	
S836454		200	<20	<0.01	<10	<10	15	<10	143	
S836455		227	<20	<0.01	<10	<10	19	<10	172	
S836456		185	<20	<0.01	<10	<10	13	<10	260	
S836457		181	<20	<0.01	<10	<10	21	<10	79	
S836458		121	<20	<0.01	<10	<10	17	<10	87	
S836459		67	<20	<0.01	<10	<10	27	<10	102	
S836460		68	<20	<0.01	<10	<10	28	<10	108	
S836461		56	<20	<0.01	<10	<10	37	10	138	2.91
S836462		43	<20	<0.01	<10	<10	31	10	149	3.62
S836463		76	<20	<0.01	<10	<10	19	20	59	
S836464		112	<20	<0.01	<10	<10	8	<10	40	
S836465		53	<20	<0.01	<10	<10	20	<10	80	
S836466		52	<20	<0.01	<10	<10	47	<10	172	
S836467		63	<20	<0.01	<10	<10	45	<10	166	



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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	Au-GRA21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Recvd Wt. kg	Au ppm	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm
		0.02	0.001	0.05	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
S836468		2.21	0.050		1.0	1.07	5	<10	60	<0.5	2	0.83	<0.5	24	2	100
S836469		2.19	0.029		1.0	1.81	8	<10	90	<0.5	2	0.60	<0.5	19	2	145
S836470		1.02	<0.001		<0.2	0.55	<2	<10	60	<0.5	<2	0.53	<0.5	3	5	4
S836471		2.28	0.041		2.1	1.22	6	<10	40	<0.5	4	1.26	<0.5	27	2	3020
S836472		2.24	0.535		2.3	1.57	3	<10	120	<0.5	2	1.22	<0.5	14	3	3310
S836473		2.17	1.380		1.3	1.30	2	<10	240	<0.5	<2	1.35	<0.5	12	3	578
S836474		2.32	1.605		0.8	1.54	3	<10	320	<0.5	3	1.19	<0.5	9	3	690
S836475		2.24	0.409		0.4	1.42	4	<10	950	0.6	<2	2.49	<0.5	5	1	113
S836476		2.27	0.022		1.7	1.60	2	<10	60	0.5	<2	3.19	<0.5	8	1	3510
S836477		1.59	0.022		1.8	1.15	<2	<10	60	0.5	2	3.99	<0.5	10	1	1835
S836478		1.79	0.004		<0.2	0.94	<2	<10	1600	0.5	<2	4.62	<0.5	4	2	74
S836479		0.97	0.011		0.5	1.47	3	<10	210	0.5	<2	5.68	<0.5	7	1	160
S836480		0.98	0.013		0.6	1.47	6	<10	180	0.5	3	5.83	<0.5	8	1	317
S836481		1.88	<0.001		<0.2	1.14	<2	<10	2120	<0.5	<2	5.97	<0.5	4	2	11
S836482		2.73	<0.001		<0.2	1.19	<2	<10	1040	<0.5	<2	2.76	<0.5	5	1	7
S836483		1.90	<0.001		<0.2	1.15	<2	<10	950	<0.5	<2	2.60	<0.5	4	2	82
S836484		2.30	<0.001		<0.2	1.11	7	<10	520	<0.5	<2	3.27	<0.5	5	2	98
S836485		1.90	0.135		0.3	1.48	2	<10	100	<0.5	2	2.63	<0.5	8	2	90
S836486		2.05	<0.001		<0.2	1.74	<2	<10	1830	<0.5	2	1.95	<0.5	5	1	80
S836487		1.55	0.005		0.3	1.36	3	<10	570	0.5	2	1.62	<0.5	7	1	128
S836488		2.37	0.002		<0.2	1.65	<2	<10	2120	<0.5	<2	2.91	<0.5	7	2	2
S836489		2.43	0.006		<0.2	1.53	<2	<10	430	<0.5	<2	1.86	<0.5	8	2	1
S836490		1.11	<0.001		<0.2	0.52	<2	<10	100	<0.5	<2	0.49	<0.5	3	4	4
S836491		2.15	0.006		<0.2	1.41	3	<10	1440	<0.5	2	1.29	<0.5	8	2	1
S836492		2.35	0.037		<0.2	1.33	<2	<10	1530	<0.5	<2	2.57	<0.5	8	2	26
S836493		2.46	0.006		<0.2	1.29	3	<10	330	<0.5	<2	2.17	<0.5	7	2	1
S836494		2.16	0.007		<0.2	1.34	<2	<10	120	<0.5	<2	2.05	<0.5	7	2	<1
S836495		2.38	0.002		<0.2	1.53	2	<10	1430	0.5	<2	2.18	<0.5	7	2	<1
S836496		2.57	0.007		<0.2	1.51	3	<10	340	<0.5	2	1.75	<0.5	7	2	1
S836497		2.05	0.013		<0.2	1.59	<2	<10	660	<0.5	2	1.46	<0.5	8	2	60
S836498		2.41	0.017		<0.2	1.57	<2	<10	400	<0.5	<2	1.40	<0.5	9	2	2
S836499		1.01	0.026		<0.2	1.39	<2	<10	410	<0.5	<2	1.95	<0.5	8	2	<1
S836500		0.96	0.008		<0.2	1.36	<2	<10	820	<0.5	<2	2.11	<0.5	8	2	<1
S836501		2.36	0.001		<0.2	1.69	<2	<10	880	<0.5	2	2.24	<0.5	9	2	<1



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		Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm
S836468		5.31	<10	<1	0.32	10	0.47	2440	3	0.01	1	1000	17	2.68	<2	2
S836469		7.03	10	<1	0.29	10	0.78	3060	2	0.01	1	960	17	2.37	<2	2
S836470		1.86	<10	<1	0.10	10	0.28	448	<1	0.07	1	540	3	0.04	<2	1
S836471		5.21	<10	<1	0.29	10	0.51	2490	4	0.01	2	860	17	2.53	<2	2
S836472		5.05	10	<1	0.32	10	0.68	2960	<1	0.01	2	1040	12	1.34	2	3
S836473		4.04	10	<1	0.28	10	0.61	2660	1	0.01	1	880	6	0.76	<2	3
S836474		4.68	10	<1	0.28	10	0.71	3240	<1	0.01	1	930	5	0.70	<2	3
S836475		2.74	<10	<1	0.49	20	0.61	2790	<1	0.03	1	1100	14	0.18	<2	2
S836476		4.37	<10	<1	0.38	10	0.81	3610	<1	0.02	1	980	35	1.40	<2	1
S836477		3.13	<10	<1	0.36	10	0.57	3430	<1	0.02	<1	720	17	1.05	3	1
S836478		1.90	<10	<1	0.35	20	0.40	3200	<1	0.02	2	600	8	0.18	<2	1
S836479		3.35	<10	<1	0.34	20	0.75	4630	1	0.02	<1	970	42	0.52	3	1
S836480		3.43	<10	<1	0.32	20	0.78	4700	1	0.02	1	950	49	0.60	3	1
S836481		2.29	<10	<1	0.33	20	0.61	4570	<1	0.02	1	910	6	0.06	3	2
S836482		2.19	<10	<1	0.34	20	0.60	2510	<1	0.02	1	1050	4	0.04	<2	1
S836483		2.10	<10	<1	0.34	20	0.57	2320	<1	0.02	1	1010	4	0.05	2	1
S836484		2.28	<10	<1	0.31	20	0.50	2560	<1	0.02	1	980	3	0.22	4	2
S836485		3.82	<10	<1	0.30	10	0.76	3200	<1	0.02	1	920	5	0.97	3	1
S836486		3.80	10	<1	0.32	20	0.94	3240	<1	0.02	1	1130	3	0.16	3	2
S836487		3.37	<10	<1	0.39	20	0.66	2670	<1	0.02	1	1210	8	0.42	<2	2
S836488		3.84	10	<1	0.26	20	1.14	3450	<1	0.03	1	1340	5	0.06	<2	3
S836489		4.23	10	<1	0.21	20	1.11	2510	<1	0.04	1	1340	4	0.01	<2	3
S836490		1.68	<10	<1	0.09	10	0.26	399	<1	0.07	1	500	3	0.03	<2	1
S836491		4.53	10	<1	0.20	20	0.96	2010	<1	0.04	2	1230	5	0.04	<2	3
S836492		4.12	10	<1	0.20	20	0.94	2760	<1	0.04	1	1210	7	0.05	<2	3
S836493		3.69	10	<1	0.20	20	0.95	2370	<1	0.04	2	1240	6	0.01	<2	3
S836494		3.66	10	<1	0.19	20	0.99	2550	<1	0.04	1	1340	7	0.01	<2	4
S836495		3.95	10	<1	0.29	20	1.04	3000	<1	0.04	2	1400	8	0.04	2	3
S836496		4.39	10	<1	0.20	20	1.04	3300	<1	0.03	1	1310	4	0.01	2	3
S836497		4.56	10	<1	0.20	20	1.10	3450	<1	0.03	1	1240	16	0.06	<2	3
S836498		4.04	10	<1	0.20	20	1.14	3620	<1	0.03	1	1280	5	0.02	<2	3
S836499		3.76	10	<1	0.21	20	1.04	3030	<1	0.03	2	1260	3	0.01	2	3
S836500		3.70	10	<1	0.21	20	1.02	3060	<1	0.03	1	1290	4	0.02	<2	3
S836501		4.26	10	<1	0.16	20	1.33	3690	<1	0.03	1	1250	2	0.02	2	4



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		Sr	Th	Ti	Tl	U	V	W	Zn	Cu
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
		1	20	0.01	10	10	1	10	2	0.001
S836468		67	<20	<0.01	<10	<10	31	<10	111	
S836469		49	<20	<0.01	<10	<10	43	<10	172	
S836470		32	<20	0.09	<10	<10	44	<10	40	
S836471		73	<20	<0.01	<10	<10	34	<10	103	
S836472		87	<20	<0.01	<10	<10	42	<10	131	
S836473		79	<20	<0.01	<10	<10	39	<10	108	
S836474		92	<20	<0.01	<10	<10	43	<10	131	
S836475		198	<20	<0.01	<10	<10	26	<10	114	
S836476		217	<20	<0.01	<10	<10	21	<10	129	
S836477		286	<20	<0.01	<10	<10	13	<10	84	
S836478		269	<20	<0.01	<10	<10	16	<10	68	
S836479		317	<20	<0.01	<10	<10	18	<10	128	
S836480		319	<20	<0.01	<10	<10	18	<10	132	
S836481		327	<20	<0.01	<10	<10	20	<10	83	
S836482		170	<20	<0.01	<10	<10	22	<10	87	
S836483		149	<20	<0.01	<10	<10	21	<10	83	
S836484		157	<20	<0.01	<10	<10	20	<10	80	
S836485		140	<20	<0.01	<10	<10	24	<10	113	
S836486		150	<20	<0.01	<10	<10	33	<10	141	
S836487		137	<20	<0.01	<10	<10	25	<10	132	
S836488		232	<20	0.01	<10	<10	73	<10	151	
S836489		123	<20	0.03	<10	<10	97	<10	135	
S836490		31	<20	0.08	<10	<10	39	<10	33	
S836491		111	<20	0.04	<10	<10	90	<10	124	
S836492		173	<20	0.03	<10	<10	74	<10	110	
S836493		142	<20	0.03	<10	<10	76	<10	101	
S836494		116	<20	0.03	<10	<10	79	<10	102	
S836495		173	<20	0.02	<10	<10	80	<10	119	
S836496		124	<20	0.03	<10	<10	86	<10	142	
S836497		115	<20	0.03	<10	<10	83	<10	170	
S836498		91	<20	0.02	<10	<10	88	<10	181	
S836499		95	<20	0.03	<10	<10	88	<10	155	
S836500		115	<20	0.02	<10	<10	85	<10	151	
S836501		106	<20	0.02	<10	<10	94	<10	227	



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Project: Forrest Kerr

CERTIFICATE OF ANALYSIS TR17183887

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Terrace located at 2912 Molitor Street, Terrace, BC, Canada.			
	CRU-31	CRU-QC	LOG-22	LOG-23
	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-GRA21	Au-ICP21	Cu-OG46	ME-ICP41
	ME-OG46			



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 This copy reported on
 19-JAN-2018
 Account: CONBAA

CERTIFICATE TR17183888

Project: Forrest Kerr

This report is for 114 Drill Core samples submitted to our lab in Terrace, BC, Canada on 25-AUG-2017.

The following have access to data associated with this certificate:

DEIRDRE HEFFERNAN	CORNELL MCDOWELL
-------------------	------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
LOG-23	Pulp Login - Rcvd with Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Zn-OG46	Ore Grade Zn - Aqua Regia	ICP-AES
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: **ABEN RESOURCES LTD.**
ATTN: ALS GEOCHEMISTRY

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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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
S836502		1.89	0.363	0.6	1.89	2	<10	600	<0.5	2	1.41	7.8	10	2	966	4.51
S836503		2.46	0.055	<0.2	1.83	<2	<10	890	<0.5	3	2.57	<0.5	9	2	16	4.04
S836504		2.46	0.010	<0.2	1.84	<2	<10	330	<0.5	<2	3.17	<0.5	9	1	3	4.00
S836505		2.33	0.663	0.3	1.93	<2	<10	560	<0.5	<2	1.18	11.0	10	1	15	4.34
S836506		2.40	1.350	1.4	1.84	2	<10	220	<0.5	2	1.42	60.6	9	2	38	4.91
S836507		1.96	0.306	<0.2	1.45	<2	<10	340	<0.5	<2	1.87	3.3	7	2	141	4.23
S836508		2.30	0.093	0.3	1.55	<2	<10	700	<0.5	<2	1.25	8.8	8	2	18	4.18
S836509		2.27	0.076	<0.2	1.67	<2	<10	340	<0.5	3	1.84	4.9	8	1	13	4.11
S836510		0.07	0.307	2.1	1.82	31	10	70	<0.5	<2	0.75	3.8	11	25	2370	4.97
S836511		2.39	2.96	3.7	1.56	3	<10	80	<0.5	12	1.86	53.7	7	2	2160	5.26
S836512		2.39	0.507	0.2	1.58	2	<10	560	<0.5	2	2.37	1.1	7	1	50	4.59
S836513		2.26	0.015	0.2	1.84	<2	10	1380	0.6	2	3.27	<0.5	8	1	88	4.98
S836514		2.58	0.012	0.4	1.35	3	<10	710	0.6	3	4.18	<0.5	9	1	72	3.83
S836515		2.21	0.006	<0.2	1.26	<2	<10	880	0.5	<2	3.47	<0.5	7	1	8	3.33
S836516		2.05	0.004	<0.2	1.14	<2	<10	170	0.5	<2	2.76	<0.5	7	1	2	3.18
S836517		2.44	0.007	<0.2	1.23	<2	<10	950	0.5	<2	3.58	<0.5	7	1	4	3.43
S836518		2.50	0.002	<0.2	1.48	2	<10	140	<0.5	<2	2.19	<0.5	8	1	8	3.67
S836519		2.14	0.039	1.0	1.42	6	<10	420	0.5	<2	2.34	<0.5	9	1	11	3.64
S836520		0.06	0.296	2.0	1.64	30	10	70	<0.5	2	0.71	3.4	12	23	2230	4.76
S836521		3.04	0.001	0.3	0.31	49	<10	90	0.7	2	3.55	0.5	14	2	47	3.81
S836522		2.29	<0.001	0.2	0.33	57	<10	490	<0.5	<2	5.20	<0.5	14	2	145	4.80
S836523		2.49	<0.001	0.2	0.32	53	<10	400	0.6	<2	5.07	0.5	18	4	96	4.55
S836524		1.56	0.001	0.4	0.30	40	<10	150	0.6	<2	6.12	0.5	21	8	82	4.52
S836525		2.16	0.001	0.3	0.30	29	<10	290	0.5	2	5.56	0.5	20	8	81	4.32
S836526		2.89	0.001	0.3	0.31	33	<10	230	0.5	<2	5.05	<0.5	20	6	56	4.20
S836527		2.17	<0.001	0.2	0.29	14	<10	280	<0.5	<2	5.11	<0.5	19	3	34	4.87
S836528		1.93	0.002	0.3	0.36	20	<10	260	0.7	2	5.52	<0.5	17	2	68	4.29
S836529		2.17	<0.001	<0.2	0.38	<2	<10	1100	0.6	2	5.25	<0.5	17	1	141	4.68
S836530		0.96	<0.001	<0.2	0.49	<2	<10	60	<0.5	<2	0.51	<0.5	3	4	3	1.67
S836531		1.96	<0.001	0.2	0.33	20	<10	970	0.6	<2	5.58	<0.5	14	2	105	4.46
S836532		2.09	0.001	0.3	0.33	29	<10	850	0.6	<2	5.87	<0.5	17	3	111	4.67
S836533		2.45	0.001	<0.2	0.34	<2	<10	940	0.5	<2	5.25	<0.5	19	1	160	5.06
S836534		2.47	0.002	<0.2	0.35	<2	<10	1240	0.5	<2	5.18	<0.5	16	1	155	4.84
S836535		2.22	<0.001	<0.2	0.35	<2	<10	1570	0.5	<2	5.35	<0.5	14	1	156	4.54
S836536		1.95	<0.001	0.3	0.34	24	<10	1040	0.5	<2	4.94	<0.5	19	9	156	4.94
S836537		2.24	<0.001	0.3	0.32	31	<10	120	0.5	<2	4.86	0.6	18	11	80	4.56
S836538		1.11	0.001	0.5	0.27	61	<10	170	0.5	<2	6.03	0.5	22	6	61	4.49
S836539		0.70	0.003	0.5	0.23	40	<10	360	<0.5	2	7.0	<0.5	16	5	66	4.47
S836540		0.58	<0.001	0.3	0.26	22	<10	830	0.5	2	6.04	0.6	11	5	83	3.95
S836541		1.26	<0.001	<0.2	0.26	13	<10	670	0.5	<2	6.04	0.6	10	3	44	4.24



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
S836502		10	1	0.17	20	1.44	4060	<1	0.02	2	1190	64	0.39	3	4	103
S836503		10	<1	0.23	20	1.43	4390	<1	0.03	1	1240	7	0.03	2	4	141
S836504		10	<1	0.17	20	1.50	4930	<1	0.02	1	1210	3	0.01	<2	4	140
S836505		10	1	0.22	20	1.43	4280	<1	0.02	1	1340	13	0.15	2	3	84
S836506		10	5	0.18	20	1.30	4360	<1	0.02	2	1260	56	0.86	<2	5	95
S836507		10	<1	0.17	20	1.02	3860	<1	0.02	1	1160	7	0.07	<2	4	96
S836508		10	1	0.19	20	1.11	3360	<1	0.02	1	1180	6	0.12	2	4	92
S836509		10	1	0.20	20	1.19	4210	<1	0.02	1	1220	6	0.07	<2	4	122
S836510		10	<1	0.35	<10	0.55	902	22	0.06	19	700	61	2.96	2	2	61
S836511		10	8	0.14	10	1.05	4100	<1	0.02	<1	980	133	1.38	2	4	124
S836512		10	<1	0.21	20	1.05	4130	<1	0.02	1	1190	11	0.19	<2	4	137
S836513		10	<1	0.31	30	1.20	4880	<1	0.04	1	1280	9	0.06	<2	5	210
S836514		10	<1	0.35	30	0.93	4120	<1	0.04	1	1210	15	0.41	2	3	273
S836515		<10	<1	0.30	20	1.00	3230	<1	0.04	1	1300	7	0.03	2	4	193
S836516		<10	<1	0.25	20	0.89	2550	<1	0.03	1	1200	8	0.01	2	3	173
S836517		<10	<1	0.24	20	0.94	3070	<1	0.03	1	1120	8	0.02	<2	3	217
S836518		10	<1	0.20	20	1.07	2570	<1	0.03	1	1220	4	<0.01	3	3	104
S836519		10	<1	0.25	20	0.93	2820	<1	0.03	1	1230	11	0.21	<2	3	126
S836520		<10	<1	0.31	<10	0.51	827	16	0.05	17	650	54	2.80	3	2	57
S836521		<10	<1	0.25	<10	1.04	945	3	0.01	26	1270	13	1.93	4	5	218
S836522		<10	<1	0.20	<10	1.78	1215	1	0.02	34	1640	7	0.35	4	8	351
S836523		<10	<1	0.22	<10	1.73	1165	2	0.02	54	1310	13	0.55	6	7	326
S836524		<10	<1	0.23	<10	2.12	1130	2	0.02	70	1130	12	0.34	4	7	423
S836525		<10	<1	0.22	<10	2.06	1080	1	0.02	91	1060	8	0.25	3	6	400
S836526		<10	<1	0.22	<10	1.80	988	1	0.03	64	930	10	0.33	3	7	335
S836527		<10	<1	0.19	<10	1.77	1095	1	0.04	14	750	3	0.23	3	9	284
S836528		<10	<1	0.31	<10	1.67	1060	1	0.03	17	1180	6	0.41	<2	9	307
S836529		<10	<1	0.31	<10	1.65	1085	<1	0.02	14	1840	2	0.22	2	8	295
S836530		<10	<1	0.09	10	0.25	367	<1	0.05	1	520	<2	0.02	<2	1	32
S836531		<10	<1	0.26	<10	1.81	1085	1	0.02	28	1400	6	0.23	2	8	331
S836532		<10	<1	0.25	<10	1.93	1155	1	0.03	30	1370	8	0.34	2	7	351
S836533		<10	<1	0.26	10	1.75	1070	<1	0.03	15	1660	2	0.14	<2	7	287
S836534		<10	<1	0.27	10	1.81	1015	<1	0.03	17	1640	2	0.10	<2	7	286
S836535		<10	<1	0.26	10	1.82	976	<1	0.04	16	1520	2	0.07	<2	7	311
S836536		<10	<1	0.22	<10	2.05	1010	1	0.04	85	1300	9	0.27	3	6	341
S836537		<10	<1	0.19	<10	2.01	1085	1	0.05	113	1170	11	0.33	2	6	290
S836538		<10	<1	0.19	<10	2.19	1155	2	0.04	121	950	13	0.58	4	6	363
S836539		<10	<1	0.16	<10	2.48	1330	2	0.04	65	1100	11	0.60	3	6	414
S836540		<10	<1	0.18	<10	2.13	1110	1	0.04	41	1330	5	0.23	4	6	377
S836541		<10	<1	0.17	<10	1.99	1380	1	0.04	23	770	8	0.42	2	6	341



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Zn-OG46
		Th	Ti	Ti	U	V	W	Zn	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm	%
		20	0.01	10	10	1	10	2	0.001
S836502		<20	0.01	<10	<10	83	<10	1780	
S836503		<20	0.02	<10	<10	82	<10	288	
S836504		<20	0.02	<10	<10	82	<10	269	
S836505		<20	0.02	<10	<10	83	<10	2680	
S836506		<20	0.02	<10	<10	89	<10	>10000	1.450
S836507		<20	0.03	<10	<10	83	<10	875	
S836508		<20	0.02	<10	<10	81	<10	2280	
S836509		<20	0.01	<10	<10	77	<10	1380	
S836510		<20	0.04	<10	<10	29	<10	698	
S836511		<20	0.02	<10	<10	77	10	>10000	1.355
S836512		<20	0.02	<10	<10	81	<10	434	
S836513		<20	0.02	<10	<10	71	<10	221	
S836514		<20	0.01	<10	<10	48	<10	140	
S836515		<20	0.03	<10	<10	69	<10	98	
S836516		<20	0.03	<10	<10	67	<10	83	
S836517		<20	0.02	<10	<10	69	<10	90	
S836518		<20	0.02	<10	<10	76	<10	108	
S836519		<20	0.01	<10	<10	59	<10	106	
S836520		<20	0.03	<10	<10	27	<10	669	
S836521		<20	<0.01	<10	<10	13	<10	108	
S836522		<20	<0.01	<10	<10	37	<10	84	
S836523		<20	<0.01	<10	<10	32	<10	103	
S836524		<20	<0.01	<10	<10	22	<10	83	
S836525		<20	<0.01	<10	<10	23	<10	73	
S836526		<20	<0.01	<10	<10	25	<10	75	
S836527		<20	<0.01	<10	<10	38	<10	67	
S836528		<20	<0.01	<10	<10	24	<10	52	
S836529		<20	<0.01	<10	<10	31	<10	71	
S836530		<20	0.07	<10	<10	40	<10	33	
S836531		<20	<0.01	<10	<10	24	<10	69	
S836532		<20	<0.01	<10	<10	27	<10	80	
S836533		<20	<0.01	<10	<10	46	<10	87	
S836534		<20	<0.01	<10	<10	43	<10	77	
S836535		<20	<0.01	<10	<10	42	<10	73	
S836536		<20	<0.01	<10	<10	35	<10	76	
S836537		<20	<0.01	<10	<10	31	<10	92	
S836538		<20	<0.01	<10	<10	18	<10	75	
S836539		<20	<0.01	<10	<10	20	<10	92	
S836540		<20	<0.01	<10	<10	22	<10	109	
S836541		<20	<0.01	<10	<10	20	<10	106	



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Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
LOR		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
S836542		2.13	<0.001	0.2	0.36	18	<10	220	0.7	<2	3.24	<0.5	13	3	18	3.95
S836543		2.33	<0.001	0.2	0.31	9	<10	50	0.5	<2	3.87	<0.5	16	1	20	4.47
S836544		2.55	<0.001	<0.2	0.34	7	<10	360	0.6	<2	3.68	<0.5	10	1	16	3.94
S836545		2.61	<0.001	<0.2	0.35	11	<10	330	0.6	<2	3.17	<0.5	10	2	20	3.66
S836546		2.76	<0.001	<0.2	0.36	9	<10	510	0.6	<2	2.90	<0.5	9	2	18	3.86
S836547		2.56	<0.001	<0.2	0.28	10	<10	630	0.5	<2	2.28	<0.5	8	2	14	3.24
S836548		2.58	0.001	0.2	0.36	16	<10	240	0.6	<2	3.68	<0.5	12	2	22	4.13
S836549		2.26	0.001	0.2	0.30	12	<10	330	0.5	<2	4.10	<0.5	10	1	13	3.77
S836550		1.08	<0.001	<0.2	0.53	<2	<10	60	<0.5	<2	0.50	<0.5	2	4	3	1.65
S836551		2.34	0.001	<0.2	0.35	15	<10	180	0.7	<2	3.18	<0.5	11	2	22	3.80
S836552		2.22	0.003	<0.2	0.33	12	<10	190	0.5	3	4.68	<0.5	13	2	21	3.81
S836553		2.77	0.001	<0.2	0.32	9	<10	130	0.6	2	5.42	<0.5	13	2	20	4.21
S836554		2.74	0.001	<0.2	0.35	5	<10	350	0.6	3	4.03	<0.5	11	2	17	3.81
S836555		2.75	0.001	<0.2	0.34	2	<10	200	0.5	<2	4.40	<0.5	12	2	23	3.83
S836556		2.59	<0.001	<0.2	0.35	<2	<10	990	0.6	2	3.79	<0.5	10	2	20	3.43
S836557		2.51	0.001	0.3	0.35	3	<10	710	0.7	3	3.59	<0.5	14	3	24	3.94
S836558		2.75	<0.001	<0.2	0.37	4	<10	920	0.5	2	5.92	0.5	10	6	23	4.54
S836559		1.10	0.001	<0.2	0.34	12	<10	370	0.7	2	4.55	<0.5	13	3	21	4.06
S836560		1.54	0.002	<0.2	0.34	12	<10	460	0.6	2	5.65	0.5	11	3	23	4.24
S836561		2.71	<0.001	<0.2	0.36	6	<10	430	0.6	2	4.03	<0.5	12	2	22	3.93
S836562		1.42	0.001	<0.2	0.38	9	<10	330	0.6	2	4.11	<0.5	12	2	23	3.67
S836563		2.27	0.001	<0.2	0.34	23	<10	100	0.6	2	4.54	<0.5	16	1	22	4.05
S836564		2.46	<0.001	<0.2	0.35	13	<10	240	0.6	3	3.39	<0.5	12	2	20	3.89
S836565		2.62	<0.001	<0.2	0.33	16	<10	360	0.6	<2	2.53	<0.5	9	3	18	3.64
S836566		2.58	0.001	<0.2	0.34	22	<10	140	0.6	4	2.84	0.6	9	4	19	3.57
S836567		2.83	0.001	<0.2	0.33	26	<10	70	0.7	2	2.87	0.6	9	4	21	3.77
S836568		2.56	<0.001	<0.2	0.36	19	<10	110	0.7	<2	2.72	<0.5	10	3	19	3.89
S836569		2.56	0.001	0.2	0.36	16	<10	420	0.7	2	3.22	<0.5	11	3	26	3.70
S836570		1.32	<0.001	<0.2	0.48	<2	<10	60	<0.5	3	0.44	<0.5	2	4	3	1.65
S836571		2.32	<0.001	<0.2	0.29	8	<10	410	0.5	4	3.52	<0.5	7	6	16	3.66
S836572		2.75	0.001	<0.2	0.34	18	<10	190	0.6	2	3.19	0.5	10	2	18	3.90
S836573		2.41	0.002	<0.2	0.33	18	<10	320	0.5	2	4.86	<0.5	14	10	25	4.56
S836574		2.74	<0.001	<0.2	0.40	13	<10	310	0.6	<2	2.01	<0.5	11	3	17	3.82
S836575		2.44	<0.001	<0.2	0.38	11	<10	260	0.6	2	1.83	<0.5	11	2	20	3.85
S836576		2.98	<0.001	<0.2	0.39	15	<10	150	0.6	3	2.34	<0.5	11	3	17	4.19
S836577		2.47	<0.001	<0.2	0.37	18	<10	180	0.6	<2	3.29	0.6	9	3	17	3.82
S836578		2.82	<0.001	<0.2	0.37	9	<10	120	0.6	2	2.68	<0.5	12	4	19	3.69
S836579		1.30	0.001	0.2	0.37	16	<10	90	0.6	2	3.39	<0.5	14	5	22	3.97
S836580		2.14	0.002	<0.2	0.38	9	<10	300	0.6	<2	3.75	<0.5	12	3	20	3.87
S836581		1.73	<0.001	<0.2	0.39	12	<10	230	0.7	<2	3.02	<0.5	14	4	19	4.15



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
S836542		<10	<1	0.22	<10	1.01	899	2	0.06	11	780	15	0.87	3	7	188
S836543		<10	<1	0.21	<10	1.04	1080	2	0.06	5	830	9	2.21	<2	6	196
S836544		<10	<1	0.21	<10	0.94	987	1	0.06	7	750	6	0.65	2	6	201
S836545		<10	<1	0.21	<10	0.89	922	1	0.07	9	800	12	0.47	<2	7	174
S836546		<10	<1	0.20	<10	0.76	757	1	0.07	7	690	6	0.38	2	5	175
S836547		<10	<1	0.17	<10	0.63	660	1	0.06	6	410	5	0.29	<2	4	139
S836548		<10	<1	0.21	<10	0.85	858	2	0.07	10	980	9	0.74	4	6	202
S836549		<10	<1	0.18	<10	0.83	976	2	0.06	7	720	8	0.66	2	5	197
S836550		<10	<1	0.09	10	0.26	392	<1	0.06	<1	500	2	0.02	<2	1	31
S836551		<10	<1	0.21	<10	0.76	767	2	0.07	10	840	13	0.75	<2	6	191
S836552		<10	<1	0.19	<10	0.99	1070	1	0.06	10	870	13	1.26	<2	6	229
S836553		<10	1	0.19	<10	1.09	1305	1	0.06	7	880	11	1.11	<2	6	249
S836554		<10	<1	0.22	<10	0.98	1130	1	0.07	6	950	7	0.61	<2	6	222
S836555		<10	1	0.21	<10	0.95	1160	1	0.06	9	1050	5	0.82	<2	7	202
S836556		<10	<1	0.22	<10	0.81	1015	1	0.07	6	930	<2	0.28	<2	6	210
S836557		<10	<1	0.21	<10	0.78	892	1	0.08	11	930	9	0.43	<2	7	198
S836558		<10	<1	0.24	10	1.35	1490	<1	0.06	11	1410	2	0.04	<2	8	249
S836559		<10	<1	0.21	<10	0.93	994	1	0.06	10	940	13	0.60	<2	6	245
S836560		<10	<1	0.21	<10	1.14	1260	1	0.06	9	880	10	0.59	<2	6	269
S836561		<10	<1	0.22	<10	1.04	1050	1	0.08	7	970	7	0.59	<2	8	225
S836562		<10	<1	0.22	<10	1.03	1015	2	0.07	8	990	9	0.66	<2	8	225
S836563		<10	<1	0.21	<10	1.17	1245	2	0.07	3	920	10	1.72	<2	6	237
S836564		<10	<1	0.19	<10	0.84	786	2	0.07	11	820	14	0.79	<2	7	192
S836565		<10	<1	0.18	<10	0.76	602	2	0.08	13	780	14	0.72	<2	7	161
S836566		<10	<1	0.19	<10	0.82	664	2	0.08	18	760	19	1.05	<2	8	157
S836567		<10	<1	0.18	<10	0.85	622	2	0.08	23	740	22	1.03	<2	8	158
S836568		<10	<1	0.19	<10	0.73	563	2	0.08	15	890	13	0.83	<2	7	159
S836569		<10	<1	0.19	<10	0.94	769	1	0.07	10	920	7	0.58	<2	7	175
S836570		<10	<1	0.09	10	0.23	374	<1	0.06	<1	510	<2	0.02	<2	1	27
S836571		<10	<1	0.16	10	1.08	884	1	0.06	9	630	5	0.56	<2	6	178
S836572		<10	1	0.19	<10	0.89	833	2	0.07	8	810	10	1.01	<2	6	170
S836573		<10	<1	0.17	<10	1.46	1145	1	0.07	18	740	8	0.41	<2	10	229
S836574		<10	<1	0.20	<10	0.58	532	2	0.10	9	780	9	0.49	<2	5	147
S836575		<10	<1	0.20	<10	0.60	514	1	0.10	6	820	8	0.39	<2	5	145
S836576		<10	<1	0.19	<10	0.73	646	1	0.09	8	700	11	0.79	<2	7	147
S836577		<10	<1	0.18	<10	0.88	762	2	0.08	13	860	17	0.80	<2	8	176
S836578		<10	<1	0.20	<10	0.78	766	1	0.08	9	820	8	0.69	<2	7	161
S836579		<10	<1	0.19	<10	0.88	853	2	0.09	14	850	14	0.85	2	8	200
S836580		<10	<1	0.20	<10	0.93	920	1	0.08	13	770	10	0.68	<2	8	221
S836581		<10	<1	0.19	<10	0.89	769	1	0.09	18	810	11	0.67	<2	8	196



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Zn-OG46
		Th	Ti	Ti	U	V	W	Zn	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm	%
		20	0.01	10	10	1	10	2	0.001
S836542		<20	<0.01	<10	<10	17	<10	71	
S836543		<20	<0.01	<10	<10	18	<10	47	
S836544		<20	<0.01	<10	<10	20	<10	63	
S836545		<20	<0.01	<10	<10	20	<10	66	
S836546		<20	<0.01	<10	<10	21	<10	77	
S836547		<20	<0.01	<10	<10	19	<10	62	
S836548		<20	<0.01	<10	<10	19	<10	75	
S836549		<20	<0.01	<10	<10	17	<10	59	
S836550		<20	0.08	<10	<10	38	<10	36	
S836551		<20	<0.01	<10	<10	18	<10	70	
S836552		<20	<0.01	<10	<10	17	<10	53	
S836553		<20	<0.01	<10	<10	20	<10	60	
S836554		<20	<0.01	<10	<10	21	<10	62	
S836555		<20	<0.01	<10	<10	23	<10	52	
S836556		<20	<0.01	<10	<10	24	<10	55	
S836557		<20	<0.01	<10	<10	27	<10	68	
S836558		<20	0.02	<10	<10	63	<10	38	
S836559		<20	<0.01	<10	<10	25	<10	61	
S836560		<20	<0.01	<10	<10	26	<10	62	
S836561		<20	<0.01	<10	<10	21	<10	64	
S836562		<20	<0.01	<10	<10	20	<10	67	
S836563		<20	<0.01	<10	<10	16	<10	52	
S836564		<20	<0.01	<10	<10	17	<10	82	
S836565		<20	<0.01	<10	<10	16	<10	81	
S836566		<20	<0.01	<10	<10	15	<10	99	
S836567		<20	<0.01	<10	<10	15	<10	99	
S836568		<20	<0.01	<10	<10	19	<10	89	
S836569		<20	<0.01	<10	<10	20	<10	62	
S836570		<20	0.07	<10	<10	39	<10	32	
S836571		<20	<0.01	<10	<10	22	<10	61	
S836572		<20	<0.01	<10	<10	20	<10	82	
S836573		<20	<0.01	<10	<10	30	<10	77	
S836574		<20	<0.01	<10	<10	21	<10	79	
S836575		<20	<0.01	<10	<10	22	<10	77	
S836576		<20	<0.01	<10	<10	26	<10	88	
S836577		<20	<0.01	<10	<10	20	<10	78	
S836578		<20	<0.01	<10	<10	21	<10	67	
S836579		<20	<0.01	<10	<10	22	<10	69	
S836580		<20	<0.01	<10	<10	21	<10	67	
S836581		<20	<0.01	<10	<10	26	<10	89	



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Sample Description	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %
	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
S836582	2.51	<0.001	<0.2	0.40	18	<10	290	0.6	<2	3.37	0.5	11	5	22	3.65
S836583	2.98	<0.001	<0.2	0.41	20	<10	100	0.7	<2	3.98	<0.5	11	4	20	3.87
S836584	2.34	<0.001	<0.2	0.50	6	<10	130	0.6	2	3.86	<0.5	11	11	24	4.10
S836585	2.79	<0.001	<0.2	0.37	9	<10	150	0.5	2	2.97	<0.5	13	2	22	3.84
S836586	2.77	0.002	<0.2	0.42	9	<10	90	0.6	3	4.02	<0.5	19	1	19	4.30
S836587	2.24	0.001	<0.2	0.51	11	<10	240	0.6	<2	3.32	<0.5	13	4	18	3.88
S836588	2.28	<0.001	<0.2	0.60	10	<10	60	0.6	2	4.38	<0.5	12	14	24	4.14
S836589	2.93	0.002	<0.2	0.63	7	<10	440	0.6	3	4.13	<0.5	12	4	63	4.17
S836590	1.38	<0.001	<0.2	0.45	<2	<10	50	<0.5	<2	0.42	<0.5	3	4	3	1.60
S836591	2.52	<0.001	<0.2	0.79	18	<10	220	0.7	<2	3.08	<0.5	12	5	21	4.05
S836592	2.52	<0.001	<0.2	0.76	14	<10	290	0.6	3	3.98	<0.5	11	6	18	3.93
S836593	2.85	0.001	<0.2	1.09	12	<10	240	0.6	<2	4.10	0.5	16	34	31	4.63
S836594	2.17	0.001	<0.2	1.08	11	<10	350	0.5	2	4.84	<0.5	16	27	27	4.46
S836595	2.60	0.002	<0.2	0.50	17	<10	90	0.6	<2	4.39	0.9	14	3	24	4.19
S836596	2.83	0.001	<0.2	0.80	18	<10	190	0.7	2	3.63	<0.5	12	2	18	4.27
S836597	2.61	<0.001	<0.2	0.69	20	<10	150	0.6	2	3.73	0.6	10	4	20	3.59
S836598	2.64	<0.001	<0.2	1.14	21	<10	150	0.7	<2	3.11	0.5	14	18	25	4.36
S836599	1.34	<0.001	<0.2	1.40	17	<10	50	0.5	<2	5.60	<0.5	20	44	40	5.69
S836600	1.08	<0.001	<0.2	1.37	21	<10	50	0.5	<2	5.10	<0.5	20	39	33	5.62
S836601	2.33	<0.001	<0.2	1.26	13	<10	150	0.6	<2	3.00	<0.5	15	17	26	4.53
S836602	2.78	0.001	<0.2	1.39	15	<10	90	0.7	<2	1.74	<0.5	12	11	27	4.15
S836603	2.88	<0.001	<0.2	1.41	6	<10	240	0.7	<2	2.03	<0.5	11	12	21	3.95
S836604	2.22	0.002	<0.2	1.21	10	<10	400	0.6	<2	3.17	<0.5	13	4	21	4.16
S836605	2.76	<0.001	0.2	1.09	12	<10	310	0.6	<2	3.04	<0.5	9	6	16	4.10
S836606	2.39	<0.001	<0.2	1.05	14	<10	310	0.6	<2	3.10	<0.5	11	4	19	4.09
S836607	2.16	<0.001	<0.2	1.14	13	<10	180	0.6	<2	2.57	<0.5	13	8	21	4.12
S836608	2.42	0.001	<0.2	0.77	12	<10	200	0.6	<2	3.49	<0.5	11	3	20	4.21
S836609	2.48	0.001	0.2	0.72	30	<10	280	0.6	<2	4.52	0.6	9	4	22	3.84
S836610	1.77	<0.001	<0.2	0.50	<2	<10	80	<0.5	2	0.61	<0.5	4	5	5	1.83
S836611	2.40	0.003	0.3	1.36	20	<10	150	0.6	<2	4.74	<0.5	14	9	71	4.62
S836612	2.16	<0.001	<0.2	1.15	16	<10	120	0.6	<2	2.19	<0.5	10	7	20	3.82
S836613	2.12	<0.001	<0.2	1.11	22	<10	70	0.7	<2	2.21	<0.5	11	8	29	3.93
S836614	2.87	<0.001	<0.2	0.95	20	<10	200	0.6	<2	2.77	<0.5	9	7	19	3.84
S836615	2.40	<0.001	<0.2	0.91	26	<10	60	0.7	<2	2.60	<0.5	9	7	24	3.76



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
S836582		<10	<1	0.19	<10	0.93	580	2	0.09	18	740	15	0.73	<2	8	185
S836583		<10	<1	0.21	<10	0.84	662	1	0.09	18	950	15	0.71	<2	7	245
S836584		<10	<1	0.20	<10	1.07	877	1	0.09	16	900	3	0.32	<2	8	208
S836585		<10	1	0.20	<10	0.79	794	1	0.07	6	800	6	0.93	<2	6	175
S836586		<10	<1	0.23	<10	1.09	1105	1	0.08	5	1120	9	1.30	<2	7	210
S836587		<10	<1	0.20	<10	0.83	757	1	0.08	11	820	8	0.82	<2	7	204
S836588		<10	<1	0.17	<10	1.20	1050	1	0.08	19	880	10	0.45	<2	9	239
S836589		<10	1	0.20	10	1.16	935	1	0.07	14	1080	7	0.51	<2	7	232
S836590		<10	<1	0.08	10	0.23	361	<1	0.05	1	510	<2	0.03	<2	1	25
S836591		<10	<1	0.19	<10	0.84	763	2	0.08	12	840	14	0.84	<2	7	208
S836592		<10	<1	0.19	<10	0.98	950	1	0.07	8	840	11	0.69	<2	7	218
S836593		<10	<1	0.17	<10	1.35	951	1	0.06	28	850	10	0.48	<2	11	204
S836594		<10	<1	0.18	<10	1.42	1070	1	0.06	22	830	7	0.48	<2	10	247
S836595		<10	<1	0.19	<10	1.02	1015	2	0.07	8	930	13	1.68	<2	7	223
S836596		<10	<1	0.20	<10	0.99	979	1	0.07	8	950	8	1.06	<2	7	204
S836597		<10	<1	0.18	<10	0.84	715	2	0.07	14	770	16	0.72	<2	7	224
S836598		<10	<1	0.17	<10	1.08	631	2	0.06	26	660	14	0.62	2	8	187
S836599		<10	<1	0.14	<10	1.87	1315	1	0.05	38	900	7	0.35	<2	14	293
S836600		<10	<1	0.14	<10	1.83	1275	1	0.05	35	1110	6	0.38	<2	12	269
S836601		<10	<1	0.18	<10	1.02	794	2	0.07	18	910	10	0.69	3	8	202
S836602		<10	<1	0.20	<10	0.78	460	1	0.07	16	620	9	0.40	2	6	162
S836603		<10	<1	0.19	<10	0.82	564	1	0.08	13	650	5	0.26	<2	6	186
S836604		<10	<1	0.20	<10	0.93	932	1	0.06	10	940	7	0.60	<2	6	227
S836605		<10	<1	0.18	<10	0.90	779	1	0.06	13	790	12	0.66	3	7	197
S836606		<10	<1	0.19	<10	0.88	834	2	0.06	11	850	10	0.73	2	7	202
S836607		<10	<1	0.18	<10	0.79	744	2	0.06	12	700	10	0.70	<2	6	190
S836608		<10	<1	0.20	<10	0.96	987	2	0.06	8	870	10	1.27	2	6	211
S836609		<10	<1	0.19	<10	0.88	875	2	0.05	14	760	20	0.90	2	6	304
S836610		<10	<1	0.08	10	0.27	377	<1	0.05	<1	610	<2	0.06	<2	1	35
S836611		<10	<1	0.18	<10	1.39	1150	1	0.04	19	1520	12	0.77	3	7	292
S836612		<10	<1	0.20	<10	0.77	479	1	0.07	16	830	11	0.59	<2	7	183
S836613		<10	<1	0.20	<10	0.80	477	2	0.07	22	1000	14	0.77	3	8	181
S836614		<10	<1	0.18	<10	0.88	550	2	0.06	20	1130	15	0.79	3	7	191
S836615		<10	<1	0.19	<10	0.81	478	2	0.07	30	660	18	0.85	5	8	187



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Zn-OG46
		Th	Ti	Ti	U	V	W	Zn	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm	%
		20	0.01	10	10	1	10	2	0.001
S836582		<20	<0.01	<10	<10	20	<10	81	
S836583		<20	<0.01	<10	<10	18	<10	74	
S836584		<20	<0.01	<10	<10	30	<10	86	
S836585		<20	<0.01	<10	<10	20	<10	79	
S836586		<20	<0.01	<10	<10	25	<10	62	
S836587		<20	<0.01	<10	<10	21	<10	69	
S836588		<20	<0.01	<10	<10	32	<10	74	
S836589		<20	<0.01	<10	<10	23	<10	82	
S836590		<20	0.07	<10	<10	38	<10	31	
S836591		<20	<0.01	<10	<10	23	<10	82	
S836592		<20	<0.01	<10	<10	26	<10	75	
S836593		<20	<0.01	<10	<10	41	<10	78	
S836594		<20	<0.01	<10	<10	36	<10	78	
S836595		<20	<0.01	<10	<10	19	<10	102	
S836596		<20	<0.01	<10	<10	23	<10	87	
S836597		<20	<0.01	<10	<10	18	<10	97	
S836598		<20	<0.01	<10	<10	29	<10	95	
S836599		<20	<0.01	<10	<10	58	<10	78	
S836600		<20	<0.01	<10	<10	55	<10	76	
S836601		<20	<0.01	<10	<10	31	<10	82	
S836602		<20	<0.01	<10	<10	29	<10	85	
S836603		<20	<0.01	<10	<10	30	<10	81	
S836604		<20	<0.01	<10	<10	26	<10	84	
S836605		<20	<0.01	<10	<10	24	<10	72	
S836606		<20	<0.01	<10	<10	26	<10	82	
S836607		<20	<0.01	<10	<10	25	<10	85	
S836608		<20	<0.01	<10	<10	22	<10	77	
S836609		<20	<0.01	<10	<10	19	<10	120	
S836610		<20	0.07	<10	<10	43	<10	33	
S836611		<20	<0.01	<10	<10	51	<10	110	
S836612		<20	<0.01	<10	<10	24	<10	100	
S836613		<20	<0.01	<10	<10	23	<10	103	
S836614		<20	<0.01	<10	<10	20	<10	101	
S836615		<20	<0.01	<10	<10	18	<10	106	



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CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Terrace located at 2912 Molitor Street, Terrace, BC, Canada.		
	CRU-31	CRU-QC	LOG-22
	PUL-31	PUL-QC	SPL-21
			LOG-23
			WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.		
	Au-ICP21	ME-ICP41	ME-OG46
			Zn-OG46



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 19-JAN-2018
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CERTIFICATE TR17183889

Project: Forrest Kerr

This report is for 114 Drill Core samples submitted to our lab in Terrace, BC, Canada on 25-AUG-2017.

The following have access to data associated with this certificate:

DEIRDRE HEFFERNAN	CORNELL MCDOWELL
-------------------	------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: **ABEN RESOURCES LTD.**
ATTN: ALS GEOCHEMISTRY

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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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
S836616		2.04	<0.001	<0.2	0.91	22	<10	320	0.7	<2	2.61	0.6	9	6	22	3.75
S836617		2.63	0.001	<0.2	0.92	20	<10	100	0.5	<2	2.90	<0.5	12	3	21	4.24
S836618		2.37	0.002	0.3	0.86	26	10	280	0.7	2	3.38	0.5	9	5	21	3.75
S836619		1.35	0.001	<0.2	0.96	15	<10	230	0.6	<2	3.94	<0.5	11	4	18	4.23
S836620		1.15	0.001	<0.2	0.97	15	<10	150	0.6	<2	2.70	<0.5	13	8	22	4.36
S836621		1.91	0.003	0.2	0.88	11	<10	210	0.6	<2	3.15	<0.5	11	4	35	3.98
S836622		1.71	0.003	0.2	0.59	8	<10	130	0.6	2	1.79	<0.5	12	2	22	3.78
S836623		2.47	0.009	0.2	0.39	8	<10	20	0.5	<2	0.43	<0.5	13	1	29	3.76
S836624		2.23	0.001	<0.2	0.49	5	<10	260	<0.5	<2	3.19	<0.5	11	1	41	3.38
S836625		1.91	0.001	<0.2	0.43	10	<10	480	<0.5	2	4.82	<0.5	10	1	20	4.03
S836626		2.10	0.006	0.2	0.42	15	<10	90	0.6	<2	2.69	<0.5	15	2	47	3.83
S836627		2.06	0.002	<0.2	0.45	3	<10	190	0.5	<2	3.99	<0.5	11	1	17	3.90
S836628		2.02	<0.001	<0.2	0.36	4	<10	640	<0.5	<2	4.10	<0.5	8	2	24	3.39
S836629		2.19	0.001	<0.2	0.57	2	<10	940	0.6	<2	3.66	<0.5	12	1	10	4.12
S836630		1.57	<0.001	<0.2	0.65	<2	<10	130	<0.5	<2	0.68	<0.5	4	4	7	1.94
S836631		2.30	<0.001	<0.2	1.00	<2	10	940	0.7	<2	4.68	0.5	17	5	26	4.87
S836632		1.83	0.005	<0.2	0.78	8	10	120	0.7	<2	5.13	<0.5	22	22	54	4.52
S836633		2.13	0.003	<0.2	2.61	<2	<10	490	0.7	<2	7.7	<0.5	36	124	101	6.60
S836634		2.12	0.001	<0.2	1.68	2	<10	560	0.6	<2	7.9	<0.5	28	78	89	5.72
S836635		1.27	<0.001	<0.2	0.67	<2	10	80	0.9	3	4.68	<0.5	31	57	109	6.14
S836636		1.18	0.003	<0.2	0.49	19	10	150	0.7	<2	4.90	<0.5	27	40	67	4.22
S836637		1.48	0.003	<0.2	0.40	19	<10	90	0.6	<2	6.11	<0.5	19	11	44	4.93
S836638		2.42	0.001	<0.2	0.40	17	10	640	0.6	<2	5.08	<0.5	23	14	76	4.90
S836639		1.35	0.006	0.2	0.39	39	<10	70	0.6	2	5.36	<0.5	24	10	71	4.24
S836640		1.32	<0.001	0.2	0.38	27	10	30	0.6	<2	5.46	<0.5	21	11	60	4.31
S836641		2.52	<0.001	0.2	0.38	28	<10	30	0.5	<2	5.08	<0.5	24	18	57	4.30
S836642		2.18	<0.001	<0.2	0.37	44	10	20	0.5	2	5.55	0.5	22	22	49	4.53
S836643		2.45	<0.001	<0.2	1.40	31	<10	70	0.5	<2	4.84	0.5	24	62	52	4.70
S836644		2.14	<0.001	0.3	0.89	37	10	70	0.6	<2	4.31	0.8	26	28	65	4.39
S836645		2.48	<0.001	0.2	0.38	47	10	270	0.6	<2	6.75	<0.5	19	9	82	3.86
S836646		2.69	<0.001	<0.2	0.33	49	<10	190	0.5	<2	7.9	<0.5	20	14	47	4.17
S836647		2.77	<0.001	<0.2	0.37	41	10	530	0.6	<2	6.85	1.9	19	12	56	4.08
S836648		2.13	<0.001	0.2	0.36	51	<10	230	0.6	<2	5.88	<0.5	20	7	72	3.84
S836649		2.24	<0.001	<0.2	0.36	45	10	130	0.6	<2	6.46	<0.5	20	12	67	3.94
S836650		1.33	<0.001	<0.2	0.56	<2	<10	90	<0.5	2	0.57	<0.5	4	4	6	1.82
S836651		1.97	0.002	<0.2	0.36	38	10	80	0.5	<2	5.52	<0.5	22	15	56	4.51
S836652		2.29	<0.001	<0.2	0.41	25	<10	60	0.7	2	5.53	<0.5	13	5	80	4.18
S836653		2.32	<0.001	<0.2	0.39	44	10	30	0.6	<2	5.32	<0.5	17	7	70	3.80
S836654		2.69	<0.001	0.2	0.39	65	10	570	0.8	<2	6.06	<0.5	18	7	57	4.04
S836655		2.39	<0.001	<0.2	0.46	18	<10	370	0.7	<2	2.55	<0.5	9	3	35	3.20



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		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
S836616		<10	<1	0.23	<10	0.79	552	2	0.07	24	740	18	0.80	3	7	188
S836617		<10	<1	0.22	<10	0.84	623	1	0.04	13	660	15	1.66	2	6	181
S836618		<10	<1	0.26	<10	0.92	724	2	0.06	17	760	23	0.85	3	7	219
S836619		<10	<1	0.24	<10	1.07	951	2	0.05	12	830	18	0.87	<2	7	206
S836620		<10	<1	0.25	<10	0.96	730	2	0.06	16	930	16	1.43	2	7	173
S836621		<10	<1	0.25	<10	1.08	1085	1	0.05	16	1130	11	0.83	2	6	158
S836622		<10	<1	0.28	<10	0.76	804	2	0.06	6	760	6	0.85	<2	5	167
S836623		<10	<1	0.26	<10	0.14	91	3	0.04	8	780	10	3.53	<2	1	136
S836624		<10	<1	0.23	10	1.14	958	1	0.05	4	890	5	0.70	2	4	155
S836625		<10	<1	0.25	10	1.58	1375	1	0.04	7	1130	5	0.33	<2	4	243
S836626		<10	<1	0.26	<10	0.94	970	2	0.05	12	1040	10	1.13	<2	4	160
S836627		<10	<1	0.27	10	1.43	1150	1	0.05	3	1060	4	0.58	<2	4	216
S836628		<10	<1	0.23	10	1.30	1455	1	0.04	7	880	5	0.37	3	4	161
S836629		<10	<1	0.30	10	1.17	1055	1	0.06	3	1140	5	0.27	<2	5	200
S836630		<10	<1	0.09	10	0.31	397	<1	0.08	1	600	6	0.07	<2	2	46
S836631		<10	1	0.32	10	1.54	1150	<1	0.09	9	1370	7	0.03	3	10	222
S836632		<10	<1	0.21	10	2.12	1160	2	0.06	46	1330	16	0.95	2	10	246
S836633		10	<1	0.12	10	3.63	1285	<1	0.05	63	2200	3	0.20	<2	27	283
S836634		10	<1	0.08	10	2.50	1225	<1	0.05	40	1930	5	0.30	<2	21	322
S836635		<10	<1	0.18	10	2.57	1040	<1	0.06	104	2090	5	0.22	<2	15	185
S836636		<10	<1	0.19	10	2.08	911	1	0.07	106	1220	9	0.56	2	10	189
S836637		<10	<1	0.22	<10	2.49	967	1	0.06	103	860	11	0.44	3	7	280
S836638		<10	<1	0.20	<10	2.33	944	<1	0.06	134	1120	11	0.35	2	9	312
S836639		<10	<1	0.23	<10	2.21	1005	1	0.06	113	1080	15	0.51	2	7	301
S836640		<10	<1	0.20	<10	2.25	1035	1	0.06	113	1010	10	0.37	2	8	297
S836641		<10	<1	0.18	<10	2.25	887	1	0.06	175	960	11	0.56	3	8	299
S836642		<10	<1	0.17	<10	2.57	965	<1	0.06	189	860	10	0.20	3	9	340
S836643		<10	<1	0.14	10	2.96	968	<1	0.06	261	900	7	0.16	2	10	285
S836644		<10	<1	0.20	<10	2.16	755	1	0.06	187	1130	16	0.75	2	8	283
S836645		<10	<1	0.23	<10	2.66	1150	<1	0.06	86	1030	10	0.30	<2	8	391
S836646		<10	<1	0.19	<10	3.08	1200	<1	0.06	140	770	8	0.34	3	8	407
S836647		<10	<1	0.22	<10	2.63	1155	<1	0.06	94	900	8	0.25	2	8	382
S836648		<10	1	0.22	<10	2.29	986	1	0.06	97	1080	12	0.39	3	7	366
S836649		<10	<1	0.21	<10	2.68	1160	1	0.06	104	900	10	0.38	3	8	365
S836650		<10	<1	0.10	10	0.28	394	<1	0.08	1	560	2	0.07	<2	2	39
S836651		<10	<1	0.18	10	2.39	1060	<1	0.06	145	1040	12	0.58	3	8	296
S836652		<10	<1	0.24	<10	1.98	889	<1	0.07	55	1280	7	0.37	<2	8	356
S836653		<10	<1	0.24	<10	1.92	805	1	0.07	87	1170	10	0.46	2	8	306
S836654		<10	<1	0.25	<10	2.09	976	1	0.05	94	1020	11	0.44	3	6	308
S836655		<10	<1	0.32	<10	0.75	818	<1	0.05	22	1080	10	0.29	2	6	145



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
S836616		<20	<0.01	<10	<10	19	<10	103
S836617		<20	<0.01	<10	<10	23	<10	86
S836618		<20	<0.01	<10	<10	20	<10	89
S836619		<20	<0.01	<10	<10	26	<10	92
S836620		<20	<0.01	<10	<10	27	<10	80
S836621		<20	<0.01	<10	<10	23	<10	99
S836622		<20	<0.01	<10	<10	21	<10	78
S836623		<20	<0.01	<10	<10	8	<10	26
S836624		<20	0.01	<10	<10	33	<10	47
S836625		<20	0.01	<10	<10	31	<10	62
S836626		<20	<0.01	<10	<10	18	<10	83
S836627		<20	0.02	<10	<10	36	<10	54
S836628		<20	<0.01	<10	<10	19	<10	70
S836629		<20	0.02	<10	<10	43	<10	62
S836630		<20	0.08	<10	<10	46	<10	31
S836631		<20	0.05	<10	<10	94	<10	67
S836632		<20	0.01	<10	<10	62	<10	87
S836633		<20	<0.01	<10	<10	174	<10	92
S836634		<20	<0.01	<10	<10	160	<10	79
S836635		<20	<0.01	<10	<10	105	<10	97
S836636		<20	<0.01	<10	<10	52	<10	80
S836637		<20	<0.01	<10	<10	33	<10	95
S836638		<20	<0.01	<10	<10	39	<10	83
S836639		<20	<0.01	<10	<10	24	<10	61
S836640		<20	<0.01	<10	<10	26	<10	62
S836641		<20	<0.01	<10	<10	33	<10	77
S836642		<20	<0.01	<10	<10	36	<10	100
S836643		<20	<0.01	<10	<10	67	<10	106
S836644		<20	<0.01	<10	<10	42	<10	127
S836645		<20	<0.01	<10	<10	21	<10	59
S836646		<20	<0.01	<10	<10	25	<10	40
S836647		<20	<0.01	<10	<10	23	<10	170
S836648		<20	<0.01	<10	<10	19	<10	58
S836649		<20	<0.01	<10	<10	24	<10	59
S836650		<20	0.07	<10	<10	43	<10	33
S836651		<20	<0.01	<10	<10	37	<10	72
S836652		<20	<0.01	<10	<10	22	<10	77
S836653		<20	<0.01	<10	<10	22	<10	71
S836654		<20	<0.01	<10	<10	18	<10	78
S836655		<20	<0.01	<10	<10	15	<10	122



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	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
LOR		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
S836656		2.57	<0.001	0.2	0.37	46	<10	400	0.7	<2	4.42	0.6	15	5	63	3.50
S836657		2.67	<0.001	0.3	0.38	56	<10	140	0.6	<2	2.77	<0.5	11	3	48	3.32
S836658		2.52	<0.001	<0.2	0.35	69	<10	70	<0.5	<2	5.36	<0.5	12	2	38	3.73
S836659		1.27	<0.001	<0.2	0.41	88	<10	50	0.7	<2	4.71	<0.5	14	1	38	3.69
S836660		1.45	<0.001	<0.2	0.38	81	<10	50	0.6	<2	4.94	<0.5	12	1	34	3.45
S836661		2.43	<0.001	0.2	0.42	41	<10	110	0.7	<2	4.62	<0.5	18	6	69	3.84
S836662		2.17	0.002	0.3	0.41	39	10	360	0.8	<2	5.52	<0.5	21	7	76	4.52
S836663		2.50	<0.001	0.4	0.39	34	10	370	0.7	<2	6.00	<0.5	21	8	67	4.53
S836664		2.85	<0.001	0.4	0.38	11	10	600	0.7	<2	6.90	1.0	19	5	263	4.97
S836665		2.69	<0.001	0.3	0.48	8	10	720	0.9	2	5.82	0.9	22	3	220	4.69
S836666		2.55	<0.001	<0.2	0.53	10	10	510	0.9	<2	5.13	<0.5	24	4	140	5.16
S836667		2.41	<0.001	0.4	0.40	27	<10	360	0.8	2	4.11	<0.5	18	5	66	3.90
S836668		3.03	<0.001	0.6	0.37	34	<10	410	0.8	2	5.65	0.6	21	7	91	4.02
S836669		2.72	<0.001	0.6	0.37	28	<10	240	0.8	2	4.79	0.6	18	9	66	3.84
S836670		1.11	0.003	<0.2	0.61	<2	<10	70	<0.5	<2	0.64	<0.5	3	5	3	1.96
S836671		2.67	<0.001	0.4	0.33	52	<10	110	0.6	2	4.55	<0.5	15	5	58	3.44
S836672		2.67	<0.001	0.3	0.31	68	<10	100	0.6	<2	5.40	<0.5	11	2	29	3.24
S836673		2.64	<0.001	0.3	0.28	66	<10	70	0.5	<2	5.68	<0.5	9	2	27	2.99
S836674		2.47	<0.001	<0.2	0.27	37	<10	50	<0.5	<2	6.13	0.5	10	2	29	2.99
S836675		2.75	<0.001	0.3	0.31	38	<10	40	0.6	<2	6.9	0.5	15	2	38	3.17
S836676		2.34	<0.001	0.2	0.42	24	<10	100	0.8	<2	5.37	<0.5	16	2	28	3.70
S836677		2.71	<0.001	0.2	0.39	31	<10	180	0.8	2	5.30	<0.5	15	2	33	3.22
S836678		2.46	0.002	<0.2	0.43	18	<10	500	1.0	<2	4.48	<0.5	12	2	26	2.59
S836679		1.26	<0.001	0.2	0.38	15	<10	620	0.6	<2	4.44	<0.5	8	1	25	2.54
S836680		1.28	<0.001	<0.2	0.39	16	<10	870	0.7	<2	4.28	<0.5	7	2	27	2.45
S836681		3.06	0.001	0.3	0.42	45	<10	70	0.9	<2	4.64	<0.5	12	2	41	2.96
S836682		2.54	<0.001	0.4	0.37	34	10	410	0.7	<2	7.1	0.6	18	5	56	4.28
S836683		2.55	0.003	0.3	0.41	42	<10	210	0.9	2	3.64	0.5	14	2	49	3.13
S836684		2.40	<0.001	0.3	0.33	22	<10	270	0.7	<2	7.6	0.8	16	5	56	4.13
S836685		2.45	<0.001	0.4	0.36	30	<10	70	0.7	<2	3.40	<0.5	10	2	25	3.27
S836686		2.65	<0.001	0.4	0.40	37	<10	140	0.7	<2	3.52	0.9	17	4	49	3.27
S836687		2.66	<0.001	0.5	0.34	26	<10	350	0.6	<2	5.67	0.8	20	13	68	4.12
S836688		2.52	<0.001	0.6	0.37	38	<10	170	0.7	<2	5.38	1.5	20	7	110	4.13
S836689		2.26	0.001	0.8	0.37	129	<10	60	0.7	<2	4.64	2.0	20	7	76	3.99
S836690		1.06	<0.001	<0.2	0.58	<2	<10	80	<0.5	2	0.59	<0.5	4	5	5	1.80
S836691		2.69	<0.001	0.3	0.39	104	<10	130	1.0	<2	4.39	0.7	16	4	51	3.35
S836692		2.52	<0.001	0.3	0.44	33	<10	310	1.0	<2	4.83	<0.5	15	2	89	3.50
S836693		2.60	<0.001	0.3	0.42	15	<10	460	0.8	<2	6.29	<0.5	19	2	74	3.88
S836694		2.53	<0.001	<0.2	0.43	20	<10	370	0.7	2	4.65	<0.5	11	3	24	2.87
S836695		2.79	<0.001	0.3	0.37	52	<10	50	0.6	<2	4.62	<0.5	11	2	29	3.22



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
S836656		<10	<1	0.26	10	1.29	1545	1	0.05	42	1100	16	0.64	3	6	235
S836657		<10	<1	0.28	10	0.48	1295	1	0.05	17	1190	27	1.93	8	4	136
S836658		<10	<1	0.26	10	0.37	2480	1	0.04	8	1050	38	2.65	13	6	215
S836659		<10	<1	0.31	10	0.33	1620	1	0.04	11	1140	33	2.39	11	6	222
S836660		<10	<1	0.29	10	0.32	1665	<1	0.04	10	1090	30	2.21	10	6	224
S836661		<10	<1	0.28	<10	1.08	1185	1	0.06	81	1180	17	0.89	6	8	226
S836662		<10	<1	0.26	<10	1.67	1105	1	0.06	101	1210	16	0.51	3	9	301
S836663		<10	<1	0.25	<10	1.88	1110	1	0.06	94	1210	13	0.43	<2	10	304
S836664		<10	<1	0.25	10	2.19	1480	1	0.05	63	1500	10	0.33	2	9	383
S836665		<10	<1	0.32	10	1.82	1405	<1	0.06	32	2240	8	0.41	<2	11	338
S836666		<10	<1	0.33	10	1.69	1225	<1	0.06	41	2360	7	0.44	2	11	323
S836667		<10	<1	0.26	<10	1.33	1060	1	0.05	55	1100	13	0.65	4	8	245
S836668		<10	<1	0.27	<10	1.93	1340	1	0.05	77	1210	15	0.45	5	8	340
S836669		<10	<1	0.25	<10	1.65	1220	1	0.05	85	1140	13	0.54	6	8	282
S836670		<10	<1	0.09	10	0.33	439	1	0.07	1	610	2	0.03	<2	2	39
S836671		<10	<1	0.23	<10	0.97	1750	4	0.05	36	1250	23	1.51	7	6	245
S836672		<10	<1	0.25	10	0.19	2530	<1	0.05	4	1160	35	2.25	14	7	271
S836673		<10	<1	0.24	10	0.15	2180	1	0.04	3	1080	59	2.13	10	6	270
S836674		<10	1	0.23	10	0.12	2160	2	0.04	4	1090	51	2.68	11	6	286
S836675		<10	1	0.26	10	0.17	2750	1	0.05	5	1090	64	2.59	11	7	330
S836676		<10	1	0.32	10	0.27	2390	1	0.06	5	1340	40	1.46	8	8	319
S836677		<10	<1	0.32	10	0.30	2050	1	0.05	5	1220	24	1.12	6	7	301
S836678		<10	<1	0.38	10	0.29	1460	<1	0.05	4	1150	10	0.47	2	6	340
S836679		<10	<1	0.31	10	0.28	1310	<1	0.04	2	1130	19	0.35	3	5	299
S836680		<10	<1	0.33	10	0.27	1290	1	0.04	3	1150	21	0.28	6	5	307
S836681		<10	<1	0.34	10	0.54	1590	1	0.04	16	1200	24	1.41	7	6	264
S836682		<10	1	0.27	<10	2.10	1840	1	0.06	59	1180	15	0.52	3	8	420
S836683		<10	<1	0.33	<10	0.95	1660	2	0.05	21	1200	18	1.10	4	6	198
S836684		<10	<1	0.24	<10	2.09	1930	1	0.05	53	1130	15	0.54	2	7	417
S836685		<10	<1	0.31	10	0.50	1280	1	0.04	16	1160	20	1.67	7	6	201
S836686		<10	<1	0.32	10	1.05	977	1	0.04	49	1280	19	1.24	8	6	207
S836687		<10	<1	0.22	<10	2.12	1230	1	0.05	132	1130	11	0.32	4	8	325
S836688		<10	<1	0.25	<10	1.73	1350	2	0.05	68	1470	26	0.68	5	9	298
S836689		<10	<1	0.28	<10	1.45	1380	4	0.05	84	1240	49	1.45	11	7	252
S836690		<10	<1	0.09	10	0.29	422	<1	0.07	2	630	8	0.03	2	1	39
S836691		<10	<1	0.31	<10	0.88	1660	1	0.04	36	1210	21	1.20	7	6	279
S836692		<10	<1	0.36	10	0.81	1630	1	0.04	13	1310	13	0.74	6	7	326
S836693		<10	<1	0.33	10	1.15	1600	1	0.04	9	1350	10	0.55	3	8	392
S836694		<10	1	0.36	10	0.26	1450	<1	0.04	3	1200	12	0.58	5	7	312
S836695		<10	<1	0.32	10	0.17	2140	1	0.04	5	1230	27	2.07	9	6	274



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
S836656		<20	<0.01	<10	<10	14	<10	186
S836657		<20	<0.01	<10	<10	12	<10	104
S836658		<20	<0.01	<10	<10	15	<10	102
S836659		<20	<0.01	<10	<10	12	<10	233
S836660		<20	<0.01	<10	<10	11	<10	201
S836661		<20	<0.01	<10	<10	20	<10	86
S836662		<20	<0.01	<10	<10	24	<10	87
S836663		<20	<0.01	<10	<10	28	<10	83
S836664		<20	<0.01	<10	<10	38	<10	152
S836665		<20	<0.01	<10	<10	45	<10	185
S836666		<20	<0.01	<10	<10	48	<10	124
S836667		<20	<0.01	<10	<10	23	<10	92
S836668		<20	<0.01	<10	<10	19	<10	80
S836669		<20	<0.01	<10	<10	22	<10	85
S836670		<20	0.08	<10	<10	47	<10	31
S836671		<20	<0.01	<10	<10	20	<10	90
S836672		<20	<0.01	<10	<10	13	<10	106
S836673		<20	<0.01	<10	<10	11	<10	149
S836674		<20	<0.01	<10	<10	10	<10	193
S836675		<20	<0.01	<10	<10	13	<10	172
S836676		<20	<0.01	<10	<10	19	<10	130
S836677		<20	<0.01	<10	<10	14	<10	105
S836678		<20	0.01	<10	<10	22	<10	46
S836679		<20	<0.01	<10	<10	12	<10	68
S836680		<20	<0.01	<10	<10	16	<10	62
S836681		<20	<0.01	<10	<10	11	<10	86
S836682		<20	<0.01	<10	<10	18	<10	79
S836683		<20	<0.01	<10	<10	11	<10	90
S836684		<20	<0.01	<10	<10	15	<10	76
S836685		<20	<0.01	<10	<10	10	<10	58
S836686		<20	<0.01	<10	<10	12	<10	112
S836687		<20	<0.01	<10	<10	24	<10	78
S836688		<20	<0.01	<10	<10	24	<10	156
S836689		<20	<0.01	<10	<10	18	<10	187
S836690		<20	0.08	<10	<10	44	<10	36
S836691		<20	<0.01	<10	<10	12	<10	129
S836692		<20	<0.01	<10	<10	12	<10	77
S836693		<20	<0.01	<10	<10	19	<10	85
S836694		<20	0.01	<10	<10	21	<10	48
S836695		<20	<0.01	<10	<10	16	<10	64



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Project: Forrest Kerr

CERTIFICATE OF ANALYSIS TR17183889

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
S836696		2.57	<0.001	0.6	0.30	122	<10	40	0.6	<2	5.83	0.5	12	2	46	2.84
S836697		2.66	<0.001	0.5	0.29	158	<10	60	0.5	<2	5.12	<0.5	11	2	45	2.63
S836698		2.77	<0.001	1.2	0.40	59	<10	220	0.8	<2	4.32	0.5	13	1	51	2.94
S836699		1.47	0.002	0.6	0.38	24	<10	220	0.7	<2	3.75	0.5	11	1	47	2.98
S836700		1.25	0.002	0.5	0.37	23	<10	160	0.7	2	3.53	0.6	12	2	40	2.83
S836701		2.13	0.003	0.4	0.34	12	<10	170	0.6	<2	3.88	0.5	9	2	35	2.78
S836702		1.90	0.004	0.3	0.42	23	<10	50	0.8	<2	2.95	0.5	12	2	41	2.87
S836703		3.15	0.001	0.3	0.38	24	<10	20	0.8	<2	1.40	0.6	9	1	20	2.98
S836704		2.77	0.018	0.4	0.42	24	10	60	0.8	2	2.67	0.7	20	1	64	3.03
S836705		2.63	0.002	0.2	0.41	21	<10	100	0.7	<2	3.72	0.5	13	2	50	2.96
S836706		2.55	<0.001	0.2	0.34	3	<10	450	0.6	<2	3.65	<0.5	6	1	25	2.08
S836707		2.82	<0.001	<0.2	0.36	2	<10	550	0.6	2	3.51	<0.5	6	1	42	2.22
S836708		2.40	0.001	0.4	0.33	10	<10	70	0.8	2	3.11	<0.5	8	1	14	2.59
S836709		2.40	<0.001	0.2	0.33	5	<10	510	0.6	<2	3.51	<0.5	6	1	7	1.88
S836710		0.99	<0.001	<0.2	0.47	<2	<10	80	<0.5	<2	0.45	<0.5	3	3	2	1.56
S836711		2.53	<0.001	<0.2	0.34	3	<10	360	0.7	2	3.20	<0.5	5	1	4	1.93
S836712		2.84	<0.001	0.5	0.34	5	<10	70	0.7	<2	3.43	0.7	7	1	8	2.35
S836713		2.29	<0.001	0.6	0.33	3	<10	60	0.7	2	3.38	1.2	7	1	8	2.69
S836714		2.89	<0.001	<0.2	0.35	2	<10	830	0.6	<2	3.22	<0.5	5	1	6	2.17
S836715		2.41	<0.001	0.2	0.35	<2	<10	150	0.6	<2	3.61	<0.5	6	1	7	2.35
S836716		2.31	<0.001	<0.2	0.35	<2	<10	1730	0.6	<2	3.44	<0.5	5	1	7	2.08
S836717		2.26	<0.001	2.4	0.37	3	<10	1970	0.7	<2	3.32	0.5	4	1	54	1.96
S836718		2.35	<0.001	<0.2	0.36	<2	<10	1550	0.6	<2	3.18	<0.5	4	1	9	2.12
S836719		1.46	<0.001	0.2	0.37	3	<10	1170	0.6	<2	2.91	<0.5	4	1	24	2.07
S836720		1.34	<0.001	<0.2	0.35	2	<10	1220	0.6	<2	2.97	<0.5	5	1	11	2.12
S836721		2.73	0.003	1.1	0.35	4	<10	80	0.5	<2	3.07	<0.5	6	1	7	2.44
S836722		2.63	0.065	0.3	0.35	9	<10	100	<0.5	2	2.32	<0.5	9	1	9	3.98
S836723		2.36	0.011	0.5	0.40	6	<10	310	0.6	<2	2.86	<0.5	7	1	25	2.24
S836724		2.40	0.064	0.3	0.48	10	10	400	0.9	<2	2.39	<0.5	8	1	146	3.78
S836725		2.88	0.086	0.3	0.37	15	<10	30	<0.5	<2	1.89	<0.5	10	1	120	4.95
S836726		2.61	0.087	0.3	0.47	6	<10	240	0.5	<2	3.07	<0.5	7	1	451	4.48
S836727		2.78	0.009	<0.2	0.46	2	<10	600	<0.5	<2	2.74	<0.5	7	1	10	3.82
S836728		2.31	0.032	<0.2	0.46	3	<10	990	<0.5	<2	3.08	<0.5	7	1	16	4.06
S836729		2.54	0.009	<0.2	0.43	<2	<10	760	0.5	2	3.53	<0.5	7	1	11	3.77



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CERTIFICATE OF ANALYSIS TR17183889

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
S836696		<10	1	0.25	<10	0.26	2570	2	0.04	5	1110	40	2.16	8	5	350
S836697		<10	<1	0.25	<10	0.12	2430	2	0.04	4	1150	38	2.62	12	5	262
S836698		<10	<1	0.34	10	0.56	2310	2	0.04	8	1290	23	0.89	4	6	283
S836699		<10	<1	0.32	<10	0.90	1940	1	0.04	9	1190	34	0.68	3	5	260
S836700		<10	<1	0.31	<10	0.82	1680	1	0.04	11	1130	32	0.78	3	5	255
S836701		<10	<1	0.29	<10	1.06	1490	1	0.04	10	1050	17	0.68	<2	4	1555
S836702		<10	<1	0.34	<10	0.80	1190	2	0.04	14	1190	17	1.39	2	5	243
S836703		<10	<1	0.28	<10	0.30	673	3	0.05	2	1140	18	2.86	2	2	259
S836704		<10	<1	0.30	<10	0.69	1140	3	0.03	9	1230	26	1.89	2	5	196
S836705		<10	<1	0.30	10	0.92	1325	2	0.03	15	1140	22	1.21	<2	5	191
S836706		<10	<1	0.30	20	0.51	1480	1	0.02	<1	940	15	0.46	<2	3	238
S836707		<10	<1	0.30	20	0.58	1855	<1	0.02	<1	1040	21	0.37	<2	3	213
S836708		<10	<1	0.26	10	0.46	1420	2	0.02	<1	920	23	1.66	<2	2	190
S836709		<10	<1	0.28	20	0.42	1550	<1	0.02	<1	950	19	0.49	<2	2	191
S836710		<10	<1	0.09	10	0.23	368	<1	0.05	<1	480	2	0.02	<2	1	30
S836711		<10	<1	0.29	20	0.37	1455	1	0.02	<1	980	52	0.61	<2	2	173
S836712		<10	<1	0.29	20	0.22	1200	4	0.03	<1	1000	58	1.96	<2	2	236
S836713		<10	<1	0.28	10	0.25	1175	5	0.03	<1	990	56	1.99	<2	2	235
S836714		<10	<1	0.31	20	0.44	1630	<1	0.03	<1	980	10	0.23	<2	2	168
S836715		<10	<1	0.31	20	0.39	1855	1	0.03	<1	970	16	0.96	<2	2	198
S836716		<10	<1	0.32	20	0.41	1885	<1	0.03	<1	950	13	0.14	<2	2	205
S836717		<10	<1	0.34	20	0.39	1950	<1	0.03	<1	1010	41	0.12	<2	2	234
S836718		<10	<1	0.35	20	0.41	2030	<1	0.03	<1	980	12	0.07	<2	2	212
S836719		<10	<1	0.35	20	0.40	1975	<1	0.03	<1	1040	26	0.08	2	2	201
S836720		<10	<1	0.34	20	0.40	2000	<1	0.03	<1	1040	17	0.08	<2	2	202
S836721		<10	<1	0.32	20	0.40	1665	2	0.03	<1	980	23	1.09	<2	2	187
S836722		<10	<1	0.34	10	0.71	2780	<1	0.01	<1	1230	10	1.49	<2	3	202
S836723		<10	<1	0.33	20	0.49	1660	2	0.04	<1	990	67	0.72	<2	2	181
S836724		<10	<1	0.39	10	0.82	3130	<1	0.05	1	1200	13	0.64	<2	5	207
S836725		<10	<1	0.35	10	0.71	2790	1	0.01	<1	1320	13	2.09	<2	3	162
S836726		<10	<1	0.40	20	0.99	3740	1	0.02	<1	1250	8	0.66	<2	4	181
S836727		<10	<1	0.38	20	0.88	3410	<1	0.02	<1	1320	6	0.40	<2	4	170
S836728		<10	<1	0.36	20	0.99	3960	<1	0.01	<1	1180	7	0.31	<2	4	179
S836729		<10	<1	0.42	20	0.98	4300	<1	0.02	<1	1200	7	0.39	<2	5	199



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
S836696		<20	<0.01	<10	<10	10	<10	144
S836697		<20	<0.01	<10	<10	10	<10	85
S836698		<20	<0.01	<10	<10	12	<10	92
S836699		<20	<0.01	<10	<10	12	<10	207
S836700		<20	<0.01	<10	<10	11	<10	160
S836701		<20	<0.01	<10	<10	9	<10	93
S836702		<20	<0.01	<10	<10	10	<10	65
S836703		<20	<0.01	<10	<10	6	<10	42
S836704		<20	<0.01	<10	<10	13	<10	85
S836705		<20	<0.01	<10	<10	13	<10	99
S836706		<20	<0.01	<10	<10	6	<10	54
S836707		<20	<0.01	<10	<10	9	<10	87
S836708		<20	<0.01	<10	<10	7	<10	58
S836709		<20	<0.01	<10	<10	5	<10	70
S836710		<20	0.07	<10	<10	37	<10	30
S836711		<20	<0.01	<10	<10	5	<10	83
S836712		<20	<0.01	<10	<10	5	<10	126
S836713		<20	<0.01	<10	<10	7	<10	232
S836714		<20	<0.01	<10	<10	7	<10	97
S836715		<20	<0.01	<10	<10	6	<10	79
S836716		<20	<0.01	<10	<10	8	<10	86
S836717		<20	<0.01	<10	<10	7	<10	124
S836718		<20	<0.01	<10	<10	7	<10	81
S836719		<20	<0.01	<10	<10	7	<10	105
S836720		<20	<0.01	<10	<10	7	<10	100
S836721		<20	<0.01	<10	<10	7	<10	71
S836722		<20	<0.01	<10	<10	10	<10	105
S836723		<20	<0.01	<10	<10	9	<10	73
S836724		<20	<0.01	<10	<10	28	<10	141
S836725		<20	<0.01	<10	<10	11	<10	108
S836726		<20	<0.01	<10	<10	18	<10	112
S836727		<20	<0.01	<10	<10	15	<10	91
S836728		<20	<0.01	<10	<10	17	<10	113
S836729		<20	<0.01	<10	<10	12	<10	125



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CERTIFICATE OF ANALYSIS TR17183889

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Terrace located at 2912 Molitor Street, Terrace, BC, 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-ICP21	ME-ICP41		



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CERTIFICATE TR17185224

Project: Forrest Kerr

This report is for 100 Drill Core samples submitted to our lab in Terrace, BC, Canada on 28-AUG-2017.

The following have access to data associated with this certificate:

DEIRDRE HEFFERNAN	CORNELL MCDOWELL
-------------------	------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
LOG-22d	Sample login - Rcd w/o BarCode dup
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: **ABEN RESOURCES LTD.**
ATTN: ALS GEOCHEMISTRY

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 TR17185224

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
S836730		1.14	<0.001	<0.2	0.52	<2	<10	50	<0.5	<2	0.49	<0.5	2	5	2	1.71
S836731		2.87	0.037	<0.2	0.41	3	<10	290	0.5	2	3.57	<0.5	8	1	20	3.58
S836732		2.74	0.001	<0.2	0.63	<2	<10	1180	<0.5	<2	2.58	<0.5	4	1	69	3.34
S836733		2.65	0.002	<0.2	0.53	<2	<10	1280	<0.5	<2	2.67	<0.5	5	1	42	3.03
S836734		2.81	0.013	<0.2	0.61	<2	<10	650	0.5	<2	2.02	<0.5	7	1	1	3.63
S836735		2.63	0.001	<0.2	0.48	<2	<10	1130	0.5	<2	2.98	<0.5	5	1	2	3.11
S836736		2.44	0.007	<0.2	0.38	<2	<10	810	0.5	3	3.10	<0.5	5	1	8	3.37
S836737		2.47	0.014	<0.2	0.39	<2	<10	1390	0.6	<2	4.73	<0.5	6	1	37	3.62
S836738		2.44	0.001	<0.2	0.32	2	<10	1870	0.5	<2	5.33	<0.5	5	<1	3	3.60
S836739		1.28	<0.001	<0.2	0.37	<2	<10	1130	0.5	<2	2.57	<0.5	5	1	2	3.59
S836740		1.41	0.001	<0.2	0.34	<2	<10	830	0.5	<2	1.92	<0.5	6	1	1	3.45
S836741		2.14	0.022	<0.2	0.41	2	<10	230	0.5	3	2.81	<0.5	6	1	5	3.70
S836742		2.85	0.032	<0.2	0.37	3	<10	1160	0.6	<2	2.43	<0.5	4	1	5	3.59
S836743		2.56	0.014	<0.2	1.17	2	<10	900	0.5	<2	1.87	<0.5	6	1	7	4.25
S836744		2.86	0.024	<0.2	0.45	3	<10	790	0.5	<2	2.91	<0.5	5	1	19	3.76
S836745		2.65	0.002	<0.2	0.37	2	<10	1380	0.6	<2	3.19	<0.5	3	1	2	3.21
S836746		2.93	0.005	<0.2	0.36	2	<10	660	0.5	<2	1.96	<0.5	5	1	3	3.19
S836747		2.02	0.049	<0.2	0.56	3	<10	240	<0.5	2	1.59	<0.5	3	2	157	3.24
S836748		2.88	0.629	1.0	0.45	17	<10	30	<0.5	3	0.95	<0.5	9	1	290	4.38
S836749		2.81	0.083	<0.2	0.55	10	<10	50	<0.5	2	2.37	<0.5	8	2	5	4.44
S836750		1.08	<0.001	<0.2	0.52	<2	<10	60	<0.5	<2	0.47	<0.5	3	5	3	1.68
S836751		2.87	0.003	<0.2	0.97	2	<10	250	<0.5	<2	2.20	<0.5	5	2	1	4.37
S836752		2.50	0.051	<0.2	0.90	5	<10	60	<0.5	2	1.65	<0.5	7	2	71	5.20
S836753		1.91	0.023	<0.2	1.24	5	<10	170	<0.5	<2	1.06	<0.5	9	2	45	4.94
S836754		2.32	0.006	<0.2	1.65	2	<10	390	<0.5	<2	1.33	<0.5	6	2	46	4.99
S836755		2.77	0.004	<0.2	0.75	<2	<10	770	<0.5	<2	1.82	<0.5	4	2	25	3.76
S836756		1.95	0.038	0.2	0.68	5	<10	140	<0.5	<2	2.12	<0.5	7	1	117	5.19
S836757		1.83	0.015	<0.2	1.10	2	<10	700	<0.5	<2	1.77	<0.5	5	1	99	5.24
S836758		2.06	0.022	<0.2	1.21	3	<10	300	<0.5	2	1.56	<0.5	8	1	198	5.98
S836759		1.21	0.004	<0.2	1.78	5	<10	280	<0.5	2	1.93	<0.5	10	1	13	6.04
S836760		1.32	0.003	<0.2	1.88	3	<10	160	<0.5	2	2.12	<0.5	12	2	16	6.49
S836761		2.58	0.002	<0.2	0.88	<2	<10	660	<0.5	<2	2.76	<0.5	5	3	12	4.20
S836762		2.32	0.048	<0.2	1.36	2	<10	530	<0.5	<2	1.51	<0.5	7	2	4	4.07
S836763		2.49	0.011	<0.2	1.97	2	<10	280	<0.5	<2	1.03	<0.5	9	2	32	5.32
S836764		2.73	0.005	<0.2	1.92	8	<10	130	<0.5	3	1.19	<0.5	11	2	8	5.87
S836765		2.22	0.005	<0.2	1.87	6	<10	140	<0.5	<2	2.07	<0.5	10	2	42	5.52
S836766		2.44	0.040	0.2	2.01	9	<10	170	<0.5	<2	2.54	<0.5	10	2	40	6.06
S836767		3.06	<0.001	<0.2	1.43	3	<10	660	<0.5	2	1.86	<0.5	6	3	2	3.81
S836768		2.50	<0.001	<0.2	1.18	2	<10	380	<0.5	<2	2.16	<0.5	5	2	1	3.49
S836769		2.67	<0.001	<0.2	1.11	2	<10	460	<0.5	<2	2.43	<0.5	5	2	1	3.36



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
S836730		<10	<1	0.08	10	0.27	410	<1	0.05	<1	530	2	0.03	<2	1	30
S836731		<10	<1	0.40	20	0.99	3920	<1	0.02	<1	1020	7	0.47	<2	4	214
S836732		<10	<1	0.34	20	0.80	3730	<1	0.01	<1	960	4	0.12	<2	4	141
S836733		<10	<1	0.37	20	0.75	3480	<1	0.01	1	990	7	0.14	<2	3	134
S836734		<10	<1	0.37	20	0.81	3410	<1	0.01	<1	1070	5	0.31	<2	3	108
S836735		<10	<1	0.35	20	0.92	3530	<1	0.01	<1	970	6	0.26	<2	4	165
S836736		<10	<1	0.36	20	0.97	3560	<1	0.02	<1	1000	8	0.37	<2	3	149
S836737		<10	<1	0.35	20	1.47	4470	<1	0.01	<1	860	9	0.27	<2	3	221
S836738		<10	<1	0.32	10	1.83	4510	<1	0.02	1	810	9	0.16	2	2	238
S836739		<10	<1	0.37	20	0.97	3260	<1	0.03	1	1080	6	0.24	2	3	129
S836740		<10	<1	0.34	20	0.80	3080	1	0.03	1	1100	6	0.31	<2	3	111
S836741		<10	<1	0.37	20	0.94	3500	<1	0.02	<1	1010	8	0.66	<2	3	141
S836742		<10	<1	0.37	20	0.90	3190	<1	0.03	1	1120	5	0.25	3	3	126
S836743		<10	<1	0.34	20	1.10	3560	<1	0.02	1	1230	3	0.09	<2	4	99
S836744		<10	<1	0.35	20	0.90	3650	<1	0.03	1	1140	5	0.32	<2	4	156
S836745		<10	<1	0.37	20	0.80	3100	<1	0.03	<1	1170	5	0.18	<2	3	143
S836746		<10	<1	0.36	20	0.60	2750	<1	0.03	1	1210	5	0.38	2	3	119
S836747		<10	<1	0.31	10	0.60	2320	1	0.02	1	1050	6	0.91	<2	2	83
S836748		<10	<1	0.31	10	0.34	1365	4	0.02	1	1050	12	3.39	<2	1	64
S836749		<10	<1	0.32	10	0.70	2900	2	0.02	<1	1050	7	1.68	<2	2	102
S836750		<10	<1	0.10	10	0.26	408	<1	0.07	<1	540	2	0.04	<2	1	30
S836751		<10	<1	0.28	20	0.87	2840	<1	0.02	<1	1110	4	0.84	<2	3	113
S836752		<10	<1	0.28	10	0.83	2970	2	0.02	1	1110	6	1.42	<2	2	79
S836753		10	<1	0.27	10	0.82	2610	<1	0.01	<1	1060	4	0.95	<2	3	71
S836754		10	<1	0.26	10	1.13	3170	<1	0.01	1	990	2	0.46	<2	3	73
S836755		<10	<1	0.30	10	0.80	2950	<1	0.02	<1	1030	3	0.35	<2	3	93
S836756		<10	<1	0.33	10	0.98	3230	<1	0.03	<1	1020	5	1.15	3	3	100
S836757		<10	<1	0.34	20	1.05	3410	<1	0.02	1	1080	3	0.30	<2	4	94
S836758		10	<1	0.29	10	1.12	3640	<1	0.02	1	1040	3	0.68	<2	3	80
S836759		10	1	0.33	10	1.36	3960	<1	0.02	1	1050	5	0.85	<2	4	94
S836760		10	<1	0.28	10	1.44	4140	<1	0.02	<1	1040	4	1.07	<2	4	95
S836761		<10	<1	0.38	20	1.02	4160	<1	0.02	1	1030	2	0.45	3	4	137
S836762		10	1	0.29	10	1.07	3410	<1	0.01	1	1100	3	0.45	<2	4	96
S836763		10	<1	0.28	10	1.31	3370	<1	0.01	1	1170	2	0.78	3	4	60
S836764		10	<1	0.31	10	1.13	3220	1	0.02	1	1210	6	1.47	<2	3	69
S836765		10	<1	0.27	10	1.10	3480	<1	0.01	1	1030	5	1.18	4	3	87
S836766		10	1	0.30	10	1.19	3560	1	0.02	2	1060	6	1.58	<2	3	114
S836767		10	<1	0.31	20	0.94	2940	<1	0.01	1	1220	3	0.28	2	3	102
S836768		<10	<1	0.31	20	0.90	3020	<1	0.02	1	1100	5	0.34	<2	3	107
S836769		<10	<1	0.33	20	0.84	3060	<1	0.02	1	1070	3	0.21	<2	3	115



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
S836730		<20	0.08	<10	<10	41	<10	35
S836731		<20	<0.01	<10	<10	14	<10	73
S836732		<20	0.01	<10	<10	24	<10	84
S836733		<20	<0.01	<10	<10	20	<10	68
S836734		<20	<0.01	<10	<10	20	<10	102
S836735		<20	<0.01	<10	<10	16	<10	82
S836736		<20	<0.01	<10	<10	15	<10	87
S836737		<20	<0.01	<10	<10	15	<10	120
S836738		<20	<0.01	<10	<10	15	<10	129
S836739		<20	<0.01	<10	<10	15	<10	107
S836740		<20	<0.01	<10	<10	12	<10	95
S836741		<20	<0.01	<10	<10	12	<10	92
S836742		<20	<0.01	<10	<10	14	<10	92
S836743		<20	<0.01	<10	<10	25	<10	126
S836744		<20	<0.01	<10	<10	14	<10	87
S836745		<20	<0.01	<10	<10	18	<10	72
S836746		<20	<0.01	<10	<10	13	<10	62
S836747		<20	<0.01	<10	<10	13	<10	61
S836748		<20	<0.01	<10	<10	10	<10	43
S836749		<20	<0.01	<10	<10	16	<10	68
S836750		<20	0.08	<10	<10	40	<10	34
S836751		<20	<0.01	<10	<10	25	<10	86
S836752		<20	<0.01	<10	<10	25	<10	98
S836753		<20	<0.01	<10	<10	33	<10	110
S836754		<20	<0.01	<10	<10	38	<10	124
S836755		<20	<0.01	<10	<10	21	<10	82
S836756		<20	<0.01	<10	<10	20	<10	105
S836757		<20	<0.01	<10	<10	29	<10	129
S836758		<20	<0.01	<10	<10	31	<10	131
S836759		<20	<0.01	<10	<10	39	<10	147
S836760		<20	<0.01	<10	<10	41	<10	152
S836761		<20	<0.01	<10	<10	20	<10	95
S836762		<20	<0.01	<10	<10	33	<10	124
S836763		<20	<0.01	<10	<10	41	<10	162
S836764		<20	<0.01	<10	<10	46	<10	136
S836765		<20	<0.01	<10	<10	42	<10	127
S836766		<20	<0.01	<10	<10	47	<10	134
S836767		<20	0.01	<10	<10	39	<10	114
S836768		<20	0.01	<10	<10	34	<10	100
S836769		<20	0.01	<10	<10	35	<10	90



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Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
S836770		0.06	0.326	2.0	1.80	33	<10	60	<0.5	2	0.77	3.5	11	26	2330	4.75
S836771		2.67	0.001	<0.2	0.89	2	<10	590	<0.5	<2	1.93	<0.5	5	3	4	3.38
S836772		2.06	0.003	<0.2	1.09	2	<10	460	<0.5	<2	1.47	<0.5	6	2	14	3.65
S836773		2.41	<0.001	<0.2	0.88	2	<10	560	<0.5	<2	2.08	<0.5	5	3	2	3.60
S836774		2.60	0.014	<0.2	0.88	6	<10	100	<0.5	<2	2.06	<0.5	8	2	6	4.00
S836775		2.58	0.013	<0.2	0.79	7	<10	80	<0.5	<2	1.60	<0.5	11	1	6	4.95
S836776		2.63	0.034	<0.2	0.30	6	<10	120	<0.5	2	1.14	<0.5	8	1	3	5.52
S836777		2.69	0.037	<0.2	0.30	6	<10	280	<0.5	2	3.05	<0.5	7	1	9	4.05
S836778		2.70	0.001	<0.2	0.32	<2	<10	570	<0.5	<2	2.33	<0.5	5	1	6	3.06
S836779		2.51	0.068	<0.2	0.54	2	<10	590	<0.5	<2	2.01	<0.5	8	1	3	3.30
S836780		1.02	<0.001	<0.2	0.53	<2	<10	70	<0.5	<2	0.52	<0.5	2	4	4	1.65
S836781		2.14	0.015	<0.2	0.33	<2	<10	340	<0.5	<2	2.56	<0.5	7	1	4	3.32
S836782		2.58	0.007	<0.2	0.78	2	<10	260	<0.5	<2	1.67	<0.5	8	1	1	4.03
S836783		2.24	0.001	<0.2	1.50	3	<10	610	<0.5	<2	1.80	<0.5	7	1	2	4.53
S836784		2.59	0.012	<0.2	1.73	3	<10	100	<0.5	2	1.61	<0.5	7	1	<1	4.16
S836785		2.51	0.009	<0.2	0.89	<2	<10	130	<0.5	<2	3.22	<0.5	5	1	1	2.75
S836786		2.22	0.017	<0.2	1.23	3	<10	90	<0.5	<2	2.28	<0.5	6	2	17	3.31
S836787		2.43	0.065	<0.2	0.62	2	<10	250	<0.5	<2	2.32	<0.5	7	1	18	3.38
S836788		2.34	0.033	<0.2	1.73	5	<10	120	<0.5	<2	1.44	<0.5	9	2	5	4.98
S836789		1.10	0.078	0.2	1.19	13	<10	160	<0.5	3	0.95	<0.5	10	1	16	4.35
S836790		1.44	0.044	<0.2	1.37	7	<10	170	<0.5	2	0.85	<0.5	9	2	2	4.46
S836791		2.92	0.058	<0.2	1.75	4	<10	160	<0.5	<2	0.76	<0.5	9	2	1	5.12
S836792		2.57	0.096	0.5	1.74	7	<10	190	<0.5	<2	1.76	<0.5	5	2	927	5.04
S836793		2.39	0.051	<0.2	2.04	2	<10	190	<0.5	<2	2.04	<0.5	11	1	14	5.32
S836794		2.81	0.004	<0.2	0.96	2	<10	220	<0.5	<2	3.03	<0.5	6	1	54	3.37
S836795		2.39	0.002	<0.2	1.63	2	<10	410	0.5	2	3.53	<0.5	9	1	10	4.38
S836796		2.41	0.012	<0.2	1.52	<2	<10	230	0.5	<2	2.13	<0.5	7	1	61	3.73
S836797		3.02	0.020	<0.2	1.98	6	<10	120	0.6	2	2.63	<0.5	9	1	135	5.03
S836798		3.05	0.072	0.3	2.26	12	<10	180	0.5	2	1.43	<0.5	10	2	189	5.61
S836799		2.75	0.003	<0.2	2.07	<2	<10	250	0.5	<2	2.12	<0.5	8	2	61	4.88
S836800		1.15	<0.001	<0.2	0.56	2	<10	140	<0.5	<2	0.53	<0.5	3	4	3	1.65
S836801		2.46	0.008	<0.2	2.48	3	<10	340	0.6	<2	1.70	<0.5	10	2	47	5.69
S836802		2.20	0.026	<0.2	1.72	5	<10	470	<0.5	2	2.50	<0.5	8	2	7	4.45
S836803		2.71	<0.001	<0.2	1.45	<2	<10	500	0.5	<2	2.01	<0.5	8	2	1	4.12
S836804		2.54	0.001	<0.2	1.50	2	<10	170	0.6	<2	2.23	<0.5	8	2	<1	4.21
S836805		2.38	0.004	<0.2	1.35	<2	<10	230	0.6	<2	3.12	<0.5	6	2	<1	3.94
S836806		2.61	0.015	<0.2	1.33	2	<10	150	0.6	<2	4.09	<0.5	7	2	<1	4.02
S836807		2.54	0.013	<0.2	1.07	2	<10	110	0.6	<2	4.02	<0.5	5	2	<1	3.45
S836808		2.41	0.001	<0.2	1.25	<2	<10	150	0.7	<2	3.51	<0.5	8	2	<1	3.90
S836809		1.20	0.013	<0.2	1.06	<2	<10	2520	0.7	<2	3.93	<0.5	6	2	<1	3.67



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
S836770		<10	1	0.34	<10	0.55	892	17	0.06	18	700	59	2.96	2	2	64
S836771		<10	<1	0.35	20	0.86	3090	<1	0.02	1	1070	4	0.47	<2	3	105
S836772		<10	<1	0.32	10	0.86	2770	<1	0.02	1	1070	3	0.47	<2	3	77
S836773		<10	<1	0.34	10	0.82	3000	<1	0.02	1	1080	3	0.43	<2	3	112
S836774		<10	<1	0.30	10	0.74	2580	1	0.02	2	1020	6	1.16	<2	3	109
S836775		<10	<1	0.27	10	0.85	2620	1	0.02	2	1010	6	1.66	<2	3	87
S836776		<10	<1	0.27	10	0.79	2640	1	0.02	1	1030	6	1.87	<2	3	62
S836777		<10	<1	0.31	10	0.91	2820	1	0.03	<1	1080	8	0.68	2	4	133
S836778		<10	<1	0.35	20	0.71	2510	<1	0.03	1	1100	2	0.07	2	3	101
S836779		<10	<1	0.33	20	0.64	2280	<1	0.03	1	1150	5	0.40	<2	4	104
S836780		<10	<1	0.09	10	0.26	395	<1	0.06	1	510	3	0.03	<2	1	34
S836781		<10	<1	0.32	20	0.68	2710	<1	0.03	1	1100	2	0.36	2	4	91
S836782		<10	<1	0.29	10	0.77	2630	<1	0.03	1	1090	2	0.93	<2	4	68
S836783		10	<1	0.30	10	1.17	3060	<1	0.02	<1	1210	2	0.38	<2	4	87
S836784		10	<1	0.30	10	1.15	2580	<1	0.02	1	1170	2	0.22	2	3	75
S836785		<10	<1	0.26	10	0.65	2300	<1	0.02	<1	900	3	0.37	2	3	115
S836786		10	<1	0.24	10	0.83	2310	<1	0.02	1	1060	3	0.52	2	3	78
S836787		<10	<1	0.28	10	0.73	2690	<1	0.02	1	1020	4	0.76	<2	3	87
S836788		10	<1	0.24	10	1.15	2540	2	0.02	1	1150	4	0.83	2	3	62
S836789		10	<1	0.26	10	0.80	1945	1	0.02	1	1150	8	1.45	<2	3	53
S836790		10	<1	0.24	10	0.88	1955	<1	0.01	1	1170	6	1.20	3	3	45
S836791		10	<1	0.21	10	0.99	2250	<1	0.01	1	1180	4	1.12	3	3	38
S836792		10	<1	0.26	10	1.03	2430	1	0.01	1	1050	3	0.92	<2	3	70
S836793		10	1	0.30	20	1.29	2460	<1	0.02	1	1250	5	0.75	3	3	107
S836794		<10	1	0.25	20	0.72	2070	<1	0.02	<1	1280	3	0.19	2	5	128
S836795		10	<1	0.28	20	1.07	2670	<1	0.03	2	1240	3	0.21	3	4	143
S836796		10	1	0.36	20	1.08	2160	<1	0.03	1	1290	2	0.11	<2	4	100
S836797		10	<1	0.32	20	1.37	2690	<1	0.03	1	1260	3	0.52	2	3	121
S836798		10	<1	0.29	20	1.40	2400	1	0.02	1	1050	3	1.11	3	3	69
S836799		10	1	0.25	20	1.57	2510	<1	0.02	1	1170	2	0.20	3	4	89
S836800		<10	<1	0.10	10	0.28	411	<1	0.06	2	510	2	0.03	<2	1	37
S836801		10	<1	0.29	20	1.84	2400	<1	0.03	2	1260	3	0.23	<2	4	88
S836802		10	<1	0.28	10	1.24	2460	<1	0.02	1	990	2	0.33	<2	3	103
S836803		<10	<1	0.33	20	1.30	2220	<1	0.03	1	1290	2	0.02	3	4	90
S836804		<10	<1	0.32	20	1.24	2240	<1	0.04	<1	1240	4	0.01	2	4	100
S836805		<10	<1	0.31	20	1.09	2440	<1	0.04	1	1190	5	0.01	<2	4	119
S836806		<10	<1	0.35	20	1.15	2800	<1	0.04	1	1180	6	0.01	4	4	175
S836807		<10	<1	0.31	20	0.93	2470	<1	0.05	1	1130	5	0.01	<2	5	167
S836808		<10	<1	0.33	20	1.15	2450	<1	0.05	1	1170	5	0.01	2	5	148
S836809		<10	<1	0.30	20	0.96	2340	<1	0.04	1	1130	6	0.07	2	4	241



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
S836770		<20	0.03	<10	<10	29	<10	675
S836771		<20	<0.01	<10	<10	23	<10	80
S836772		<20	<0.01	<10	<10	23	<10	100
S836773		<20	<0.01	<10	<10	21	<10	82
S836774		<20	<0.01	<10	<10	23	<10	85
S836775		<20	<0.01	<10	<10	24	<10	95
S836776		<20	<0.01	<10	<10	15	<10	100
S836777		<20	<0.01	<10	<10	12	<10	112
S836778		<20	<0.01	<10	<10	16	<10	93
S836779		<20	<0.01	<10	<10	26	<10	96
S836780		<20	0.08	<10	<10	40	<10	33
S836781		<20	<0.01	<10	<10	17	<10	70
S836782		<20	<0.01	<10	<10	26	<10	97
S836783		<20	<0.01	<10	<10	34	<10	150
S836784		<20	<0.01	<10	<10	35	<10	146
S836785		<20	<0.01	<10	<10	20	<10	78
S836786		<20	<0.01	<10	<10	28	<10	99
S836787		<20	<0.01	<10	<10	18	<10	95
S836788		<20	<0.01	<10	<10	45	<10	139
S836789		<20	<0.01	<10	<10	40	<10	107
S836790		<20	<0.01	<10	<10	45	<10	115
S836791		<20	<0.01	<10	<10	63	<10	130
S836792		<20	<0.01	<10	<10	42	<10	121
S836793		<20	<0.01	<10	<10	42	<10	134
S836794		<20	0.01	<10	<10	47	<10	67
S836795		<20	0.01	<10	<10	52	<10	117
S836796		<20	0.01	<10	<10	44	<10	98
S836797		<20	0.01	<10	<10	53	<10	129
S836798		<20	<0.01	<10	<10	45	<10	139
S836799		<20	<0.01	<10	<10	49	<10	114
S836800		<20	0.08	<10	<10	39	<10	36
S836801		<20	<0.01	<10	<10	54	<10	143
S836802		<20	0.01	<10	<10	44	<10	104
S836803		<20	0.01	<10	<10	55	<10	97
S836804		<20	0.01	<10	<10	63	<10	102
S836805		<20	0.02	<10	<10	61	<10	92
S836806		<20	0.02	<10	<10	64	<10	94
S836807		<20	0.02	<10	<10	62	<10	71
S836808		<20	0.02	<10	<10	64	<10	91
S836809		<20	0.02	<10	<10	59	<10	85



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %
S836810		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
S836811		1.43	0.036	<0.2	0.90	<2	<10	3640	0.6	<2	5.22	<0.5	6	3	3	3.60
S836812		2.51	0.015	<0.2	1.26	<2	<10	280	0.7	<2	3.17	<0.5	8	2	<1	4.32
S836813		2.60	<0.001	<0.2	0.90	<2	<10	570	0.6	2	2.66	<0.5	9	2	1	3.95
S836814		2.74	0.011	<0.2	0.46	<2	<10	1900	0.6	<2	3.13	<0.5	6	1	78	3.37
S836815		2.35	0.012	<0.2	0.81	2	<10	1000	0.5	2	2.72	<0.5	9	1	186	5.05
S836816		2.43	0.004	<0.2	1.39	<2	<10	1210	0.5	<2	2.36	<0.5	7	1	51	4.22
S836817		2.69	0.006	<0.2	1.14	<2	<10	820	0.6	<2	2.24	<0.5	8	2	3	3.66
S836818		2.60	0.004	<0.2	1.92	<2	<10	540	0.8	<2	3.37	<0.5	10	1	10	5.27
S836819		2.35	0.004	<0.2	1.81	<2	<10	270	0.6	<2	2.62	<0.5	8	2	1	4.96
S836820		2.59	0.005	<0.2	1.58	<2	<10	260	0.6	2	2.29	<0.5	9	2	2	4.25
S836821		1.10	<0.001	<0.2	0.51	<2	<10	70	<0.5	<2	0.47	<0.5	3	4	3	1.66
S836822		2.56	0.005	<0.2	0.93	<2	<10	170	0.5	3	2.77	<0.5	7	2	<1	4.18
S836823		2.68	0.032	<0.2	0.35	<2	<10	1690	0.5	2	6.31	<0.5	6	1	<1	4.18
S836824		3.00	0.002	<0.2	1.18	<2	<10	170	0.5	<2	2.85	<0.5	8	2	<1	4.04
S836825		2.54	0.008	<0.2	1.30	<2	<10	340	0.5	3	2.61	<0.5	9	2	6	4.46
S836826		2.47	0.048	0.2	0.87	4	<10	650	0.5	<2	2.79	<0.5	6	1	60	4.16
S836827		2.47	0.038	0.2	1.41	15	<10	330	<0.5	2	2.40	<0.5	9	2	76	4.72
S836828		2.30	0.002	<0.2	1.25	<2	<10	560	<0.5	2	1.83	<0.5	6	2	41	4.78
S836829		2.15	0.020	<0.2	0.63	3	<10	900	<0.5	<2	2.52	<0.5	7	1	185	4.39
S836829		1.10	0.047	<0.2	0.32	<2	<10	290	<0.5	<2	2.40	<0.5	5	2	417	3.20



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		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
S836810		<10	<1	0.30	20	0.85	2910	<1	0.04	<1	1010	7	0.11	<2	4	281
S836811		<10	<1	0.31	20	1.15	2550	<1	0.06	<1	1210	13	0.02	4	5	141
S836812		<10	<1	0.29	20	1.05	2190	<1	0.05	<1	1200	5	0.03	<2	5	110
S836813		<10	<1	0.34	20	0.93	2180	<1	0.05	<1	1210	7	0.07	<2	4	136
S836814		<10	<1	0.33	20	1.19	2980	<1	0.03	1	1070	3	0.29	<2	3	115
S836815		<10	<1	0.30	20	1.11	2340	<1	0.03	<1	1260	5	0.05	2	4	108
S836816		<10	<1	0.29	20	1.07	2160	<1	0.04	1	1220	2	0.04	<2	4	115
S836817		10	<1	0.32	20	1.68	3120	<1	0.04	<1	1160	7	0.03	<2	4	145
S836818		10	<1	0.26	20	1.50	2620	<1	0.04	1	1150	4	0.02	2	4	101
S836819		<10	<1	0.27	20	1.21	2160	<1	0.05	1	1260	5	0.06	<2	4	88
S836820		<10	<1	0.08	10	0.25	390	<1	0.07	1	530	3	0.03	<2	1	32
S836821		<10	<1	0.31	20	0.87	2210	<1	0.04	<1	1250	4	0.02	<2	4	100
S836822		<10	<1	0.31	20	1.60	3730	<1	0.04	<1	1040	7	0.05	<2	3	273
S836823		<10	<1	0.30	20	0.94	2130	<1	0.04	<1	1210	6	0.02	<2	4	116
S836824		<10	<1	0.30	20	1.00	2400	<1	0.04	<1	1210	3	0.04	<2	4	105
S836825		<10	<1	0.33	20	0.91	2420	<1	0.03	<1	1180	4	0.30	3	3	140
S836826		<10	<1	0.29	20	1.00	2190	<1	0.03	<1	1160	4	0.67	<2	2	76
S836827		<10	<1	0.29	20	0.95	2020	<1	0.03	<1	1280	3	0.08	<2	2	66
S836828		<10	<1	0.33	20	0.88	2290	1	0.03	<1	1200	3	0.25	<2	2	100
S836829		<10	<1	0.32	20	0.68	1740	1	0.04	<1	1060	5	0.30	<2	2	97



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
S836810		<20	0.02	<10	<10	55	<10	78
S836811		<20	0.02	<10	<10	65	<10	104
S836812		<20	0.01	<10	<10	63	<10	86
S836813		<20	0.01	<10	<10	49	<10	61
S836814		<20	<0.01	<10	<10	33	<10	131
S836815		<20	0.01	<10	<10	53	<10	127
S836816		<20	0.01	<10	<10	49	<10	102
S836817		<20	0.01	<10	<10	50	<10	154
S836818		<20	0.01	<10	<10	61	<10	131
S836819		<20	0.01	<10	<10	59	<10	121
S836820		<20	0.07	<10	<10	40	<10	34
S836821		<20	0.02	<10	<10	65	<10	90
S836822		<20	0.01	<10	<10	48	<10	90
S836823		<20	0.02	<10	<10	62	<10	102
S836824		<20	0.02	<10	<10	61	<10	121
S836825		<20	<0.01	<10	<10	25	<10	111
S836826		<20	<0.01	<10	<10	33	<10	114
S836827		<20	0.01	<10	<10	42	<10	112
S836828		<20	<0.01	<10	<10	23	<10	115
S836829		<20	<0.01	<10	<10	22	<10	77



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CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Terrace located at 2912 Molitor Street, Terrace, BC, Canada.		
	CRU-31	CRU-QC	LOG-22
	PUL-31	PUL-QC	SPL-21
			LOG-22d
			WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.		
	Au-ICP21	ME-ICP41	



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 This copy reported on
 19-JAN-2018
 Account: CONBAA

CERTIFICATE TR17185225

Project: Forrest Kerr

This report is for 104 Drill Core samples submitted to our lab in Terrace, BC, Canada on 28-AUG-2017.

The following have access to data associated with this certificate:

DEIRDRE HEFFERNAN	CORNELL MCDOWELL
-------------------	------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Zn-OG46	Ore Grade Zn - Aqua Regia	ICP-AES
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: **ABEN RESOURCES LTD.**
ATTN: ALS GEOCHEMISTRY

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 TR17185225

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
LOR		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
S836830		1.30	0.036	<0.2	0.30	<2	<10	390	<0.5	<2	2.15	<0.5	6	1	217	2.84
S836831		2.46	<0.001	<0.2	0.33	<2	<10	360	<0.5	<2	2.86	<0.5	4	1	16	2.21
S836832		2.35	0.022	<0.2	1.06	3	<10	320	<0.5	<2	1.79	<0.5	7	1	99	3.96
S836833		2.59	0.048	<0.2	1.00	8	<10	250	<0.5	<2	1.36	<0.5	7	1	59	4.18
S836834		2.67	0.045	<0.2	0.86	4	<10	170	<0.5	<2	1.52	<0.5	6	1	226	3.89
S836835		2.46	0.002	<0.2	0.37	<2	<10	510	<0.5	<2	2.27	<0.5	4	2	102	2.37
S836836		2.41	0.123	<0.2	0.41	<2	<10	390	<0.5	<2	1.97	<0.5	4	1	94	2.63
S836837		2.32	0.151	<0.2	0.72	3	<10	230	<0.5	<2	1.99	<0.5	6	1	200	3.50
S836838		2.23	0.019	<0.2	0.41	2	<10	470	<0.5	<2	1.95	1.0	5	1	198	2.73
S836839		2.69	0.025	<0.2	0.46	4	<10	390	<0.5	<2	2.03	<0.5	5	1	242	3.15
S836840		1.38	<0.001	<0.2	0.50	<2	<10	60	<0.5	<2	0.49	<0.5	3	4	3	1.46
S836841		2.60	0.006	<0.2	0.54	<2	<10	150	<0.5	<2	1.63	<0.5	5	1	80	3.39
S836842		2.35	0.045	<0.2	1.33	2	<10	200	<0.5	<2	1.89	<0.5	7	2	29	3.97
S836843		2.39	0.022	<0.2	1.04	3	<10	240	<0.5	<2	2.08	<0.5	6	1	43	3.76
S836844		2.80	0.019	<0.2	1.49	<2	<10	110	<0.5	<2	2.26	<0.5	5	1	34	4.27
S836845		2.46	0.102	0.4	1.93	2	<10	250	<0.5	2	1.25	<0.5	6	1	696	5.08
S836846		2.13	0.001	<0.2	1.31	<2	<10	460	<0.5	<2	1.94	<0.5	4	2	8	4.00
S836847		2.40	0.018	<0.2	2.72	5	<10	360	<0.5	<2	0.61	<0.5	10	3	39	7.59
S836848		2.10	0.002	<0.2	1.89	<2	<10	580	<0.5	<2	0.81	<0.5	8	3	5	5.49
S836849		1.21	<0.001	<0.2	1.70	<2	<10	650	<0.5	<2	1.17	<0.5	9	3	2	4.54
S836850		1.23	<0.001	<0.2	1.61	<2	<10	660	<0.5	<2	1.17	<0.5	6	3	2	4.44
S836851		2.37	0.030	<0.2	1.88	<2	<10	690	<0.5	<2	0.74	<0.5	9	2	45	5.22
S836852		2.20	<0.001	<0.2	1.71	<2	<10	960	<0.5	<2	0.91	<0.5	9	2	119	5.61
S836853		2.65	0.124	1.4	1.31	<2	<10	700	<0.5	<2	1.92	<0.5	9	2	1520	5.25
S836854		2.78	0.004	<0.2	0.36	<2	<10	680	0.6	<2	4.37	<0.5	6	1	5	2.31
S836855		2.41	<0.001	<0.2	0.34	<2	<10	1000	0.6	<2	4.11	<0.5	4	1	1	1.98
S836856		1.50	<0.001	<0.2	0.33	<2	<10	200	0.5	<2	3.18	<0.5	4	2	<1	1.97
S836857		2.66	<0.001	<0.2	0.35	3	<10	100	0.7	<2	3.79	<0.5	6	2	3	2.09
S836858		2.40	<0.001	<0.2	0.37	2	<10	100	0.7	<2	3.63	<0.5	4	2	1	2.09
S836859		2.53	<0.001	<0.2	0.54	<2	<10	140	0.5	<2	3.61	<0.5	7	2	1	2.48
S836860		1.28	<0.001	<0.2	0.53	<2	<10	70	<0.5	<2	0.52	<0.5	2	4	2	1.60
S836861		2.46	<0.001	<0.2	0.60	<2	<10	150	0.5	<2	4.01	<0.5	7	2	2	2.44
S836862		2.65	<0.001	<0.2	0.53	<2	<10	70	0.5	<2	2.97	<0.5	7	2	1	2.38
S836863		2.33	<0.001	<0.2	0.53	<2	<10	70	0.6	<2	3.28	<0.5	7	2	1	2.38
S836864		2.56	<0.001	<0.2	0.67	<2	<10	90	0.6	<2	3.00	<0.5	9	3	1	2.43
S836865		2.19	<0.001	<0.2	0.59	2	<10	80	0.6	<2	2.96	<0.5	9	2	1	2.58
S836866		2.39	<0.001	<0.2	0.64	<2	<10	170	0.5	<2	3.38	<0.5	8	2	1	2.36
S836867		2.47	<0.001	<0.2	0.58	<2	<10	80	0.5	2	3.09	<0.5	7	3	3	2.43
S836868		2.38	<0.001	<0.2	0.59	<2	<10	80	0.5	<2	3.71	<0.5	8	2	1	2.47
S836869		1.31	0.001	<0.2	0.68	2	<10	240	0.5	<2	3.65	<0.5	8	3	3	2.60



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
S836830		<10	<1	0.30	20	0.60	1545	<1	0.04	1	1010	3	0.22	<2	2	82
S836831		<10	<1	0.27	20	0.48	1685	<1	0.04	<1	940	3	0.01	<2	2	88
S836832		<10	<1	0.23	20	0.84	1960	<1	0.03	<1	870	2	0.24	<2	2	65
S836833		<10	<1	0.25	10	0.79	1800	1	0.03	<1	900	2	0.38	<2	2	68
S836834		<10	<1	0.27	10	0.71	1790	1	0.03	1	870	<2	0.45	<2	2	49
S836835		<10	<1	0.31	20	0.52	1615	1	0.03	1	950	<2	0.13	<2	2	102
S836836		<10	<1	0.29	20	0.57	1600	2	0.03	<1	930	2	0.16	<2	2	83
S836837		<10	<1	0.25	20	0.65	1865	2	0.03	<1	880	<2	0.40	<2	2	55
S836838		<10	<1	0.27	20	0.64	1465	1	0.03	<1	910	3	0.17	<2	2	98
S836839		<10	<1	0.28	20	0.65	1835	2	0.03	1	900	2	0.36	<2	2	83
S836840		<10	<1	0.08	10	0.24	357	<1	0.06	1	470	3	0.02	<2	1	32
S836841		<10	<1	0.29	20	0.59	1680	1	0.03	1	970	2	0.10	<2	2	72
S836842		10	<1	0.23	10	0.97	2020	<1	0.03	1	1140	2	0.28	<2	2	67
S836843		<10	<1	0.26	20	1.06	2180	<1	0.04	1	1180	2	0.21	<2	2	97
S836844		10	<1	0.24	20	1.05	2230	<1	0.03	<1	1140	<2	0.22	<2	2	65
S836845		10	<1	0.24	10	1.12	2210	3	0.02	2	1080	<2	0.42	<2	2	46
S836846		10	<1	0.19	10	0.87	2610	<1	0.01	1	1040	2	0.09	<2	2	58
S836847		10	<1	0.16	10	1.52	3930	<1	0.02	5	790	2	0.14	<2	4	34
S836848		10	<1	0.19	10	1.31	3950	<1	0.02	7	950	<2	0.02	<2	4	43
S836849		10	1	0.17	20	1.30	4190	<1	0.02	5	900	2	0.02	<2	5	57
S836850		10	<1	0.18	10	1.27	4230	<1	0.01	5	880	3	0.02	<2	5	62
S836851		10	<1	0.22	20	1.32	4270	<1	0.02	5	1010	3	0.06	<2	4	56
S836852		10	<1	0.21	10	1.32	4190	<1	0.02	6	980	2	0.09	<2	4	62
S836853		10	1	0.22	10	1.26	4210	<1	0.02	3	870	4	0.35	<2	4	85
S836854		<10	<1	0.30	20	0.62	2530	<1	0.03	1	1150	3	0.02	<2	4	152
S836855		<10	<1	0.29	20	0.66	2100	<1	0.03	1	1060	3	0.02	<2	3	164
S836856		<10	<1	0.28	20	0.40	1400	<1	0.04	1	1090	2	0.01	<2	3	109
S836857		<10	<1	0.29	20	0.55	1720	1	0.03	3	1180	4	<0.01	<2	4	143
S836858		<10	<1	0.30	20	0.50	1545	<1	0.03	2	1220	4	0.01	<2	4	126
S836859		<10	<1	0.28	20	0.74	1985	<1	0.02	4	1140	3	0.01	<2	4	124
S836860		<10	<1	0.10	10	0.26	403	<1	0.06	1	540	2	0.02	<2	1	32
S836861		<10	<1	0.28	20	0.73	2330	<1	0.03	5	1140	5	<0.01	2	4	151
S836862		<10	<1	0.28	20	0.65	1530	<1	0.03	4	1200	4	<0.01	<2	4	93
S836863		<10	<1	0.27	20	0.86	1700	<1	0.03	4	1160	4	<0.01	2	4	104
S836864		<10	<1	0.28	20	1.00	1610	<1	0.03	5	1100	4	<0.01	2	4	103
S836865		<10	<1	0.29	20	0.94	1605	<1	0.03	5	1290	4	<0.01	<2	5	105
S836866		<10	<1	0.26	20	0.86	1910	<1	0.03	4	1130	4	<0.01	<2	4	111
S836867		<10	<1	0.26	20	0.85	1650	<1	0.03	4	1120	3	<0.01	<2	4	93
S836868		<10	<1	0.27	20	1.02	1960	<1	0.03	4	1130	3	<0.01	<2	4	124
S836869		<10	<1	0.27	20	1.03	1950	<1	0.03	5	1190	4	0.01	<2	4	129



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Zn-OG46
		Th	Ti	Ti	U	V	W	Zn	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm	%
		20	0.01	10	10	1	10	2	0.001
S836830		<20	<0.01	<10	<10	22	<10	68	
S836831		<20	0.01	<10	<10	32	<10	46	
S836832		<20	<0.01	<10	<10	40	<10	99	
S836833		<20	<0.01	<10	<10	32	<10	109	
S836834		<20	<0.01	<10	<10	25	<10	98	
S836835		<20	<0.01	<10	<10	16	<10	68	
S836836		<20	<0.01	<10	<10	28	<10	60	
S836837		<20	<0.01	<10	<10	28	<10	91	
S836838		<20	<0.01	<10	<10	21	<10	210	
S836839		<20	<0.01	<10	<10	17	<10	77	
S836840		<20	0.07	<10	<10	35	<10	32	
S836841		<20	<0.01	<10	<10	27	<10	74	
S836842		<20	<0.01	<10	<10	28	<10	106	
S836843		<20	<0.01	<10	<10	22	<10	93	
S836844		<20	<0.01	<10	<10	29	<10	100	
S836845		<20	<0.01	<10	<10	34	<10	113	
S836846		<20	<0.01	<10	<10	36	<10	125	
S836847		<20	0.01	<10	<10	60	<10	255	
S836848		<20	<0.01	<10	<10	52	<10	221	
S836849		<20	<0.01	<10	<10	49	<10	214	
S836850		<20	<0.01	<10	<10	46	<10	204	
S836851		<20	<0.01	<10	<10	41	<10	221	
S836852		<20	<0.01	<10	<10	39	<10	201	
S836853		<20	<0.01	<10	<10	32	<10	176	
S836854		<20	0.01	<10	<10	26	<10	51	
S836855		<20	0.02	<10	<10	29	<10	30	
S836856		<20	0.02	<10	<10	38	<10	21	
S836857		<20	0.03	<10	<10	38	<10	32	
S836858		<20	0.03	<10	<10	42	<10	27	
S836859		<20	0.03	<10	<10	41	<10	63	
S836860		<20	0.08	<10	<10	39	<10	33	
S836861		<20	0.03	<10	<10	41	<10	69	
S836862		<20	0.03	<10	<10	43	<10	60	
S836863		<20	0.03	<10	<10	43	<10	59	
S836864		<20	0.03	<10	<10	43	<10	84	
S836865		<20	0.03	<10	<10	50	<10	73	
S836866		<20	0.03	<10	<10	42	<10	79	
S836867		<20	0.03	<10	<10	44	<10	69	
S836868		<20	0.03	<10	<10	42	<10	75	
S836869		<20	0.03	<10	<10	46	<10	83	



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
S836870		1.25	0.004	<0.2	0.77	<2	<10	280	0.6	<2	3.83	<0.5	9	3	1	2.86
S836871		2.79	0.004	<0.2	0.85	<2	<10	60	0.5	<2	3.17	<0.5	11	3	2	3.16
S836872		2.43	<0.001	<0.2	0.59	2	<10	120	0.5	<2	3.21	<0.5	8	3	2	2.62
S836873		2.19	<0.001	<0.2	0.55	<2	<10	530	0.5	<2	2.66	<0.5	6	2	2	2.48
S836874		2.72	0.002	<0.2	0.58	<2	<10	350	0.5	<2	2.54	<0.5	8	2	1	2.51
S836875		2.08	<0.001	<0.2	0.41	<2	<10	150	0.5	<2	2.64	<0.5	7	2	1	2.50
S836876		2.36	<0.001	<0.2	0.31	2	<10	1130	<0.5	<2	3.53	<0.5	7	2	4	2.46
S836877		2.72	<0.001	<0.2	0.35	2	<10	600	0.5	<2	3.40	<0.5	7	2	1	2.55
S836878		1.68	<0.001	<0.2	0.34	<2	<10	100	0.5	<2	2.86	<0.5	6	3	2	2.59
S836879		2.23	<0.001	<0.2	0.49	<2	<10	110	0.5	<2	2.48	<0.5	7	3	2	2.69
S836880		1.02	<0.001	<0.2	0.50	<2	<10	50	<0.5	<2	0.47	<0.5	3	4	2	1.66
S836881		2.37	<0.001	<0.2	0.39	<2	<10	190	<0.5	<2	3.04	<0.5	7	2	2	2.71
S836882		2.52	0.007	<0.2	0.73	<2	<10	330	<0.5	<2	2.92	<0.5	10	3	2	2.94
S836883		2.49	0.004	<0.2	0.45	<2	<10	160	<0.5	<2	3.33	<0.5	7	3	21	2.69
S836884		2.69	0.019	<0.2	0.31	<2	<10	340	<0.5	<2	2.92	<0.5	6	4	3	2.40
S836885		2.51	0.013	<0.2	0.32	<2	<10	600	<0.5	2	2.98	<0.5	7	2	1	2.79
S836886		2.46	0.023	1.7	1.36	2	<10	270	<0.5	<2	1.51	70.8	11	4	1825	4.91
S836887		2.20	0.029	0.2	0.67	13	<10	810	0.5	<2	2.74	<0.5	12	2	110	4.36
S836888		2.24	0.014	<0.2	0.90	2	<10	930	<0.5	<2	1.66	<0.5	9	3	288	4.51
S836889		1.00	0.025	0.7	2.16	<2	<10	290	<0.5	3	1.37	<0.5	12	6	634	6.16
S836890		1.12	0.013	0.4	1.61	<2	<10	310	<0.5	<2	1.37	<0.5	9	5	444	5.14
S836891		2.68	0.014	<0.2	0.33	3	<10	490	<0.5	<2	1.95	<0.5	8	2	53	2.82
S836892		2.40	0.002	<0.2	0.56	<2	<10	330	<0.5	<2	2.38	<0.5	8	3	3	2.65
S836893		2.30	0.004	<0.2	0.76	<2	<10	270	<0.5	<2	1.85	<0.5	9	3	2	2.78
S836894		2.69	0.007	<0.2	0.55	<2	<10	280	<0.5	<2	2.60	<0.5	9	3	25	2.93
S836895		2.24	0.008	<0.2	0.38	<2	<10	300	<0.5	<2	3.27	<0.5	8	3	<1	2.89
S836896		2.64	0.011	<0.2	0.64	<2	<10	320	<0.5	<2	2.67	<0.5	9	5	4	3.17
S836897		2.68	0.125	<0.2	0.49	<2	<10	290	<0.5	<2	1.84	<0.5	9	3	37	3.25
S836898		2.11	0.158	0.3	0.66	6	<10	250	<0.5	2	1.95	<0.5	14	3	19	4.20
S836899		1.25	0.007	<0.2	0.30	<2	<10	530	<0.5	<2	2.76	<0.5	7	3	28	2.95
S836900		1.33	0.015	<0.2	0.35	<2	<10	660	<0.5	2	2.43	<0.5	8	2	17	2.89
S836901		2.35	0.007	<0.2	0.31	<2	<10	400	0.5	<2	2.40	<0.5	6	2	2	2.69
S836902		2.48	0.010	<0.2	0.28	<2	<10	1610	<0.5	<2	3.00	<0.5	7	7	2	3.41
S836903		2.56	0.002	<0.2	0.33	<2	<10	1070	0.5	<2	1.53	<0.5	7	3	8	3.08
S836904		2.44	0.001	<0.2	0.39	<2	<10	1560	0.6	<2	2.57	<0.5	5	2	4	2.26
S836905		2.06	0.005	<0.2	0.42	<2	<10	590	0.6	3	1.61	<0.5	7	3	87	2.94
S836906		2.08	0.027	<0.2	0.35	2	<10	1920	0.5	2	3.55	<0.5	8	3	33	3.37
S836907		2.74	0.002	<0.2	0.47	<2	<10	700	<0.5	<2	2.35	<0.5	8	5	7	3.08
S836908		2.14	0.020	0.3	0.52	3	<10	670	0.6	<2	2.04	<0.5	9	5	44	3.38
S836909		2.36	0.008	<0.2	0.44	3	<10	1550	<0.5	2	3.43	<0.5	9	8	4	3.62



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
S836870		<10	<1	0.30	20	1.12	2050	<1	0.03	6	1330	4	0.01	<2	5	134
S836871		<10	<1	0.28	20	1.27	1920	<1	0.03	8	1450	3	0.01	<2	6	115
S836872		<10	<1	0.26	20	1.13	1700	<1	0.03	5	1210	3	0.01	2	5	136
S836873		<10	<1	0.26	20	1.00	1515	<1	0.02	4	1110	3	0.01	3	4	127
S836874		<10	<1	0.28	20	1.05	1505	<1	0.03	5	1190	3	0.01	3	4	108
S836875		<10	<1	0.29	20	1.01	1575	<1	0.03	3	1190	3	<0.01	<2	4	111
S836876		<10	<1	0.26	20	0.98	1980	<1	0.02	3	1130	3	0.03	<2	4	143
S836877		<10	<1	0.28	20	1.07	2170	<1	0.02	3	1190	4	0.01	<2	4	147
S836878		<10	<1	0.29	20	0.98	1895	<1	0.03	2	1230	4	<0.01	<2	4	136
S836879		<10	<1	0.29	20	0.80	1765	<1	0.02	4	1140	4	<0.01	<2	4	108
S836880		<10	<1	0.09	10	0.26	397	<1	0.06	1	550	2	0.02	<2	1	28
S836881		<10	<1	0.27	20	0.83	1990	<1	0.02	3	1170	5	<0.01	<2	4	122
S836882		<10	<1	0.29	20	1.08	2290	<1	0.02	6	1370	4	0.01	<2	4	123
S836883		<10	<1	0.28	20	0.86	2310	<1	0.02	4	1180	4	<0.01	<2	4	119
S836884		<10	<1	0.27	20	0.69	2090	<1	0.01	3	1120	3	0.01	<2	3	113
S836885		<10	<1	0.31	20	0.74	3030	<1	0.02	4	1240	3	0.02	<2	4	123
S836886		10	2	0.22	10	1.21	4240	<1	0.01	5	1030	10	0.85	3	4	65
S836887		<10	<1	0.33	20	1.13	3770	1	0.02	5	1040	7	0.31	<2	4	126
S836888		<10	<1	0.28	20	1.12	3510	<1	0.02	4	1080	2	0.07	<2	4	85
S836889		10	<1	0.27	20	1.71	4110	<1	0.02	11	1490	4	0.08	<2	6	69
S836890		10	<1	0.27	20	1.34	3500	<1	0.01	8	1270	3	0.06	<2	5	67
S836891		<10	<1	0.28	10	0.86	2410	<1	0.02	3	1020	4	0.08	<2	3	87
S836892		<10	<1	0.25	20	1.00	2120	<1	0.02	5	1110	4	0.01	<2	3	113
S836893		<10	<1	0.25	20	1.01	2090	<1	0.01	6	1090	2	0.01	<2	3	85
S836894		<10	<1	0.23	20	1.07	2710	<1	0.01	5	1050	2	0.01	<2	4	111
S836895		<10	<1	0.22	10	1.23	3200	<1	0.01	4	980	2	0.01	<2	4	127
S836896		<10	<1	0.24	20	1.13	3020	<1	0.01	6	1110	2	0.01	<2	5	104
S836897		<10	<1	0.26	20	0.83	2910	<1	0.02	4	1030	2	0.03	<2	4	74
S836898		<10	<1	0.24	10	1.06	3860	<1	0.01	4	810	5	0.39	<2	3	82
S836899		<10	<1	0.27	10	0.73	3340	<1	0.01	2	750	4	0.05	<2	3	106
S836900		<10	<1	0.28	10	0.67	3070	<1	0.02	2	770	3	0.08	<2	3	96
S836901		<10	<1	0.30	20	0.47	2540	<1	0.02	3	870	3	0.01	<2	3	85
S836902		<10	<1	0.28	10	0.83	3600	<1	0.02	2	690	4	0.04	<2	3	127
S836903		<10	<1	0.32	20	0.53	2720	<1	0.02	1	780	3	0.03	<2	2	79
S836904		<10	<1	0.35	20	0.62	2550	<1	0.03	1	810	5	0.05	<2	3	115
S836905		<10	<1	0.34	20	0.61	2400	<1	0.02	1	940	5	0.07	<2	3	81
S836906		<10	<1	0.28	10	1.08	3540	<1	0.02	3	510	6	0.13	2	4	140
S836907		<10	<1	0.26	20	1.01	3040	<1	0.01	3	810	2	0.03	<2	4	93
S836908		<10	<1	0.32	10	0.85	2870	<1	0.02	3	930	4	0.21	<2	4	92
S836909		<10	<1	0.26	10	0.92	3240	<1	0.02	3	930	4	0.17	<2	5	135



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Zn-OG46
		Th	Ti	Ti	U	V	W	Zn	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm	%
		20	0.01	10	10	1	10	2	0.001
S836870		<20	0.03	<10	<10	52	<10	93	
S836871		<20	0.04	<10	<10	60	<10	106	
S836872		<20	0.03	<10	<10	50	<10	82	
S836873		<20	0.03	<10	<10	46	<10	75	
S836874		<20	0.03	<10	<10	48	<10	85	
S836875		<20	0.03	<10	<10	50	<10	65	
S836876		<20	0.03	<10	<10	45	<10	68	
S836877		<20	0.03	<10	<10	45	<10	71	
S836878		<20	0.03	<10	<10	48	<10	72	
S836879		<20	0.04	<10	<10	50	<10	80	
S836880		<20	0.08	<10	<10	41	<10	32	
S836881		<20	0.03	<10	<10	47	<10	72	
S836882		<20	0.03	<10	<10	45	<10	137	
S836883		<20	0.02	<10	<10	42	<10	93	
S836884		<20	0.02	<10	<10	34	<10	75	
S836885		<20	0.01	<10	<10	25	<10	142	
S836886		<20	<0.01	<10	<10	44	<10	>10000	1.170
S836887		<20	<0.01	<10	<10	25	<10	215	
S836888		<20	<0.01	<10	<10	37	<10	197	
S836889		<20	<0.01	<10	<10	83	<10	295	
S836890		<20	<0.01	<10	<10	61	<10	222	
S836891		<20	<0.01	<10	<10	21	<10	136	
S836892		<20	0.02	<10	<10	39	<10	109	
S836893		<20	0.01	<10	<10	39	<10	146	
S836894		<20	0.01	<10	<10	35	<10	163	
S836895		<20	0.01	<10	<10	33	<10	142	
S836896		<20	0.01	<10	<10	44	<10	156	
S836897		<20	0.01	<10	<10	32	<10	156	
S836898		<20	<0.01	<10	<10	18	<10	214	
S836899		<20	<0.01	<10	<10	18	<10	157	
S836900		<20	<0.01	<10	<10	20	<10	146	
S836901		<20	0.01	<10	<10	28	<10	95	
S836902		<20	0.01	<10	<10	26	<10	158	
S836903		<20	<0.01	<10	<10	19	<10	141	
S836904		<20	0.01	<10	<10	17	<10	128	
S836905		<20	<0.01	<10	<10	16	<10	162	
S836906		<20	<0.01	<10	<10	17	<10	157	
S836907		<20	0.01	<10	<10	35	<10	191	
S836908		<20	<0.01	<10	<10	23	<10	175	
S836909		<20	0.01	<10	<10	33	<10	158	



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
S836910		1.25	<0.001	<0.2	0.52	<2	<10	60	<0.5	<2	0.54	<0.5	2	4	2	1.59
S836911		2.50	<0.001	<0.2	0.50	2	<10	410	<0.5	2	2.79	<0.5	8	13	7	3.30
S836912		2.13	<0.001	<0.2	0.76	2	<10	430	<0.5	<2	2.86	<0.5	9	16	2	3.25
S836913		2.33	<0.001	<0.2	0.28	2	<10	1640	<0.5	2	3.27	<0.5	7	8	3	3.15
S836914		1.98	0.007	<0.2	0.65	2	<10	440	<0.5	<2	3.13	<0.5	8	11	9	3.06
S836915		2.19	0.039	0.2	1.12	<2	<10	190	<0.5	3	1.78	<0.5	9	14	64	3.38
S836916		2.34	0.005	<0.2	0.85	2	<10	150	0.5	<2	2.20	<0.5	9	10	3	3.04
S836917		2.67	<0.001	0.2	0.52	<2	<10	270	0.6	<2	2.55	1.7	7	6	30	2.53
S836918		2.31	<0.001	<0.2	0.58	2	<10	260	0.6	<2	2.83	0.5	8	7	4	2.62
S836919		1.32	<0.001	<0.2	0.46	2	<10	170	0.6	<2	3.29	<0.5	7	6	3	2.73
S836920		1.28	<0.001	<0.2	0.48	2	<10	150	0.6	<2	2.52	<0.5	6	6	4	2.72
S836921		2.11	0.001	<0.2	0.30	4	<10	160	<0.5	<2	2.24	<0.5	6	5	3	2.88
S836922		2.49	<0.001	<0.2	0.33	2	<10	1590	<0.5	2	3.67	<0.5	7	6	3	2.62
S836923		2.41	<0.001	<0.2	0.29	2	<10	750	<0.5	<2	3.17	<0.5	6	5	3	2.50
S836924		2.35	<0.001	0.3	0.29	2	<10	280	<0.5	<2	4.05	10.1	6	5	73	2.43
S836925		2.49	<0.001	<0.2	0.29	3	<10	260	<0.5	<2	3.51	<0.5	7	8	3	2.66
S836926		2.27	<0.001	<0.2	0.34	3	<10	300	<0.5	<2	2.97	<0.5	7	6	2	2.88
S836927		2.70	0.002	<0.2	0.31	3	<10	360	<0.5	<2	2.83	<0.5	6	6	3	2.69
S836928		2.46	<0.001	<0.2	0.38	2	<10	400	0.6	<2	3.13	<0.5	5	5	2	2.37
S836929		2.39	0.005	<0.2	0.34	<2	<10	530	0.5	2	3.90	<0.5	4	5	4	2.25
S836930		1.08	<0.001	<0.2	0.54	<2	<10	60	<0.5	<2	0.53	<0.5	3	4	3	1.76
S836931		2.35	0.011	<0.2	0.39	<2	<10	630	0.6	<2	3.32	<0.5	5	4	3	2.34
S836932		2.16	<0.001	<0.2	0.41	2	<10	860	0.6	2	3.76	<0.5	4	5	5	2.35
S836933		2.04	0.002	<0.2	0.35	2	<10	980	<0.5	2	3.77	<0.5	6	4	9	2.42



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		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
S836910		<10	<1	0.09	10	0.26	408	<1	0.06	1	490	3	0.02	<2	1	31
S836911		<10	<1	0.22	20	0.83	2810	<1	0.01	5	1000	2	0.02	<2	5	82
S836912		<10	<1	0.21	20	0.86	2770	<1	0.01	5	980	2	0.01	<2	5	83
S836913		<10	<1	0.26	20	0.81	2490	<1	0.02	3	1030	3	0.04	<2	4	104
S836914		<10	<1	0.21	20	0.95	3300	<1	0.01	3	1010	3	0.02	<2	5	96
S836915		<10	<1	0.23	20	1.20	3200	<1	0.02	5	1000	4	0.06	<2	5	77
S836916		<10	<1	0.30	20	1.08	2350	<1	0.02	5	1110	4	0.01	<2	5	94
S836917		<10	<1	0.29	20	0.68	1925	<1	0.03	3	1080	11	0.02	<2	5	96
S836918		<10	<1	0.31	20	0.77	1855	<1	0.03	4	1100	21	0.01	<2	4	106
S836919		<10	<1	0.28	20	1.00	2080	<1	0.03	3	1100	6	0.01	<2	4	129
S836920		<10	<1	0.30	20	0.89	1670	<1	0.03	3	1110	6	0.01	<2	4	113
S836921		<10	<1	0.25	20	0.67	1345	<1	0.03	1	1010	5	0.01	<2	4	89
S836922		<10	<1	0.27	20	1.08	2290	<1	0.03	2	970	6	0.04	<2	4	153
S836923		<10	<1	0.25	20	0.99	1975	<1	0.02	2	950	5	0.02	2	4	124
S836924		<10	<1	0.23	20	0.69	2180	<1	0.02	1	920	9	0.06	<2	4	122
S836925		<10	<1	0.21	20	0.75	1900	<1	0.03	2	1000	6	0.01	<2	5	118
S836926		<10	<1	0.26	20	0.88	1780	<1	0.03	3	1060	7	0.01	<2	5	127
S836927		<10	<1	0.25	20	0.79	1690	<1	0.03	2	1090	7	0.01	<2	5	114
S836928		<10	<1	0.31	20	0.58	1740	<1	0.03	1	1050	6	0.01	<2	4	145
S836929		<10	<1	0.30	20	0.38	2010	<1	0.02	2	1020	5	0.02	<2	4	148
S836930		<10	<1	0.10	10	0.27	431	<1	0.07	1	540	2	0.02	<2	1	33
S836931		<10	<1	0.33	20	0.46	1955	<1	0.03	2	1060	5	0.02	<2	4	140
S836932		<10	<1	0.35	20	0.35	2040	<1	0.02	1	1130	4	0.03	<2	4	130
S836933		<10	<1	0.31	20	0.53	2330	<1	0.02	2	1030	3	0.03	<2	4	118



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CERTIFICATE OF ANALYSIS TR17185225

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Zn-OG46
		Th	Ti	Ti	U	V	W	Zn	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm	%
		20	0.01	10	10	1	10	2	0.001
S836910		<20	0.07	<10	<10	38	<10	34	
S836911		<20	0.02	<10	<10	47	<10	156	
S836912		<20	0.02	<10	<10	52	<10	166	
S836913		<20	0.03	<10	<10	47	<10	102	
S836914		<20	0.02	<10	<10	47	<10	159	
S836915		<20	0.01	<10	<10	51	<10	221	
S836916		<20	0.02	<10	<10	56	<10	171	
S836917		<20	0.02	<10	<10	46	<10	242	
S836918		<20	0.02	<10	<10	54	<10	147	
S836919		<20	0.03	<10	<10	56	<10	100	
S836920		<20	0.03	<10	<10	61	<10	90	
S836921		<20	0.05	<10	<10	61	<10	62	
S836922		<20	0.03	<10	<10	55	<10	89	
S836923		<20	0.03	<10	<10	49	<10	85	
S836924		<20	0.03	<10	<10	46	<10	979	
S836925		<20	0.04	<10	<10	56	<10	81	
S836926		<20	0.04	<10	<10	60	<10	78	
S836927		<20	0.04	<10	<10	58	<10	79	
S836928		<20	0.03	<10	<10	47	<10	55	
S836929		<20	0.03	<10	<10	39	<10	34	
S836930		<20	0.09	<10	<10	44	<10	35	
S836931		<20	0.03	<10	<10	39	<10	49	
S836932		<20	0.03	<10	<10	34	<10	46	
S836933		<20	0.02	<10	<10	31	<10	53	



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CERTIFICATE OF ANALYSIS TR17185225

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Terrace located at 2912 Molitor Street, Terrace, BC, Canada.		
	CRU-31	CRU-QC	LOG-22
	PUL-QC	SPL-21	WEI-21
			PUL-31
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.		
	Au-ICP21	ME-ICP41	ME-OG46
			Zn-OG46



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 19-JAN-2018
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CERTIFICATE TR17188181

Project: Forrest Kerr

This report is for 150 Drill Core samples submitted to our lab in Terrace, BC, Canada on 30-AUG-2017.

The following have access to data associated with this certificate:

DEIRDRE HEFFERNAN	CORNELL MCDOWELL
-------------------	------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
LOG-24	Pulp Login - Rcd w/o Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: **ABEN RESOURCES LTD.**
ATTN: ALS GEOCHEMISTRY

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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Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
LOR		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
S836934		2.33	1.155	4.7	0.50	13	<10	80	<0.5	7	3.33	3.2	18	4	4700	5.23
S836935		2.32	0.026	0.3	0.41	3	<10	800	0.5	<2	3.98	<0.5	7	4	35	2.72
S836936		2.50	0.009	<0.2	0.41	2	<10	790	0.5	<2	4.30	<0.5	7	4	16	2.95
S836937		2.49	0.001	<0.2	0.60	2	<10	320	<0.5	<2	4.77	<0.5	9	7	5	2.99
S836938		2.18	0.006	0.2	0.41	<2	<10	210	0.8	2	3.02	<0.5	3	2	4	2.20
S836939		1.05	0.001	<0.2	0.42	<2	<10	70	0.9	2	3.60	<0.5	3	2	1	2.33
S836940		1.11	<0.001	<0.2	0.44	2	<10	50	1.0	<2	3.26	<0.5	3	2	1	2.43
S836941		2.45	0.001	<0.2	0.45	2	<10	200	0.8	<2	4.04	<0.5	4	1	2	2.38
S836942		2.36	<0.001	<0.2	0.42	<2	<10	550	0.8	<2	4.61	<0.5	2	1	1	1.56
S836943		2.65	<0.001	<0.2	0.44	<2	<10	830	1.1	<2	3.08	<0.5	2	1	7	1.54
S836944		2.28	0.002	<0.2	0.40	<2	<10	740	0.9	<2	2.53	<0.5	1	1	8	1.39
S836945		2.49	0.002	<0.2	0.41	2	<10	100	1.0	<2	1.99	<0.5	1	1	5	1.40
S836946		2.41	0.002	0.2	0.40	2	<10	60	0.9	<2	3.27	<0.5	3	1	2	2.19
S836947		2.39	<0.001	<0.2	0.41	2	<10	860	0.8	<2	4.00	<0.5	5	1	1	2.30
S836948		2.54	<0.001	<0.2	0.43	<2	<10	600	0.8	<2	3.83	<0.5	3	1	5	2.19
S836949		2.76	<0.001	<0.2	0.44	2	<10	110	0.9	2	3.51	<0.5	4	1	2	2.30
S836950		0.94	<0.001	<0.2	0.55	<2	<10	60	<0.5	<2	0.51	<0.5	3	4	2	1.69
S836951		2.36	0.004	<0.2	0.42	2	<10	290	0.8	<2	3.88	<0.5	3	1	1	2.14
S836952		2.54	0.003	<0.2	0.40	3	<10	1240	0.8	<2	5.25	<0.5	3	1	2	1.96
S836953		2.55	0.003	<0.2	0.42	<2	<10	830	0.9	<2	4.66	<0.5	2	1	1	1.86
S836954		2.52	0.003	<0.2	0.39	3	<10	100	0.8	<2	4.40	<0.5	4	1	1	2.08
S836955		2.57	0.001	<0.2	0.39	2	<10	310	0.7	<2	3.43	<0.5	4	2	1	2.13
S836956		2.19	0.003	<0.2	0.39	3	<10	70	0.8	2	3.68	<0.5	3	1	1	2.13
S836957		2.66	<0.001	<0.2	0.43	3	<10	240	0.7	<2	4.20	<0.5	3	1	1	2.16
S836958		2.24	<0.001	<0.2	0.40	2	<10	350	0.8	<2	4.25	<0.5	2	1	4	2.11
S836959		2.22	0.007	0.4	0.63	2	<10	2750	0.8	<2	4.18	2.3	5	1	50	3.09
S836960		2.53	<0.001	<0.2	0.58	2	<10	60	<0.5	<2	0.62	<0.5	3	7	3	1.72
S836961		2.63	0.006	<0.2	0.50	2	<10	130	0.6	<2	3.91	<0.5	7	2	2	2.53
S836962		2.44	0.001	<0.2	0.38	2	<10	160	0.8	<2	4.44	<0.5	4	3	1	2.46
S836963		2.52	0.016	0.3	0.59	<2	<10	130	0.8	2	2.51	4.2	7	2	12	2.87
S836964		1.60	0.012	<0.2	0.84	2	<10	330	0.7	<2	2.43	<0.5	11	3	1	3.03
S836965		2.37	0.012	<0.2	0.74	2	<10	270	0.5	<2	3.83	<0.5	9	3	1	2.79
S836966		2.37	<0.001	<0.2	0.65	<2	<10	190	0.6	<2	2.89	<0.5	8	3	2	3.37
S836967		2.17	0.003	<0.2	0.70	2	<10	210	0.6	<2	2.50	<0.5	8	3	5	2.89
S836968		2.37	0.001	<0.2	0.70	3	<10	130	0.6	<2	2.36	<0.5	8	4	7	2.76
S836969		1.30	<0.001	<0.2	0.83	2	<10	50	0.5	<2	2.72	<0.5	9	5	1	3.05
S836970		1.41	0.001	<0.2	0.84	2	<10	50	<0.5	<2	2.34	<0.5	11	4	1	2.97
S836971		2.19	0.001	<0.2	0.75	<2	<10	210	0.6	2	2.48	<0.5	9	4	<1	2.70
S836972		2.45	<0.001	<0.2	0.60	<2	<10	100	0.5	<2	3.34	<0.5	7	13	1	2.57
S836973		2.69	0.002	<0.2	0.90	<2	<10	110	0.6	<2	2.36	<0.5	8	7	2	2.69



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
S836934		<10	<1	0.30	20	0.76	3740	3	0.01	4	780	16	1.24	<2	5	101
S836935		<10	<1	0.37	10	0.58	2920	<1	0.02	2	1150	7	0.17	<2	5	107
S836936		<10	<1	0.34	20	0.43	2730	<1	0.02	2	1120	5	0.13	<2	5	111
S836937		<10	<1	0.31	20	0.51	2640	<1	0.02	5	1180	4	0.01	<2	5	116
S836938		<10	<1	0.33	20	0.38	1905	<1	0.04	1	540	22	0.01	<2	3	103
S836939		<10	<1	0.35	20	0.41	2200	<1	0.04	1	650	4	<0.01	<2	3	107
S836940		<10	<1	0.36	20	0.38	2030	<1	0.05	1	660	6	<0.01	<2	3	101
S836941		<10	<1	0.37	20	0.49	2440	<1	0.04	<1	930	5	0.01	<2	3	127
S836942		<10	<1	0.36	20	0.27	2230	<1	0.04	<1	900	5	0.02	2	2	160
S836943		<10	<1	0.36	20	0.33	1455	<1	0.04	<1	950	4	0.02	<2	2	137
S836944		<10	<1	0.34	20	0.19	1190	<1	0.04	1	860	4	0.02	<2	2	100
S836945		<10	<1	0.34	20	0.17	930	<1	0.04	<1	850	4	0.01	<2	2	87
S836946		<10	<1	0.31	20	0.24	1370	<1	0.05	1	980	7	<0.01	<2	3	107
S836947		<10	<1	0.31	20	0.48	1715	<1	0.05	1	990	8	0.02	<2	3	176
S836948		<10	<1	0.32	20	0.27	1620	<1	0.05	1	1030	6	0.02	<2	3	137
S836949		<10	<1	0.32	20	0.29	1565	<1	0.06	1	1030	7	0.01	<2	3	126
S836950		<10	<1	0.10	10	0.27	424	<1	0.07	1	520	<2	0.02	<2	1	33
S836951		<10	<1	0.31	20	0.28	1740	<1	0.05	<1	1000	7	0.01	<2	3	146
S836952		<10	<1	0.30	20	0.23	2090	<1	0.05	1	960	6	0.04	<2	3	185
S836953		<10	<1	0.32	20	0.13	1780	<1	0.05	1	1000	8	0.02	<2	2	183
S836954		<10	<1	0.29	20	0.36	1765	<1	0.05	1	1050	8	<0.01	2	3	160
S836955		<10	<1	0.28	20	0.25	1330	<1	0.05	1	970	7	0.01	<2	3	131
S836956		<10	<1	0.29	20	0.27	1490	<1	0.05	<1	1010	7	<0.01	<2	2	122
S836957		<10	<1	0.31	20	0.29	1825	<1	0.05	1	1010	10	0.01	<2	3	139
S836958		<10	<1	0.31	20	0.20	1845	<1	0.05	<1	990	15	0.01	<2	3	130
S836959		<10	<1	0.31	20	0.27	2270	<1	0.05	1	1030	500	0.10	<2	3	136
S836960		<10	<1	0.09	10	0.30	428	<1	0.05	1	550	3	0.02	<2	1	39
S836961		<10	<1	0.28	20	0.51	1650	<1	0.04	1	1040	11	<0.01	<2	3	115
S836962		<10	<1	0.30	20	0.28	1780	<1	0.05	1	800	12	0.01	<2	3	122
S836963		<10	<1	0.30	10	0.40	1645	<1	0.05	2	790	125	0.03	<2	3	72
S836964		<10	<1	0.26	20	0.69	1655	<1	0.05	4	900	9	0.01	<2	4	69
S836965		<10	<1	0.26	20	0.62	2060	<1	0.05	3	1060	10	0.01	<2	3	90
S836966		<10	<1	0.26	20	0.57	1695	<1	0.05	3	1040	9	0.01	<2	3	92
S836967		<10	<1	0.26	20	0.71	2050	<1	0.05	2	990	15	0.01	3	3	82
S836968		<10	<1	0.26	20	0.75	1985	<1	0.05	3	1100	20	<0.01	<2	3	79
S836969		<10	<1	0.21	20	0.78	2070	<1	0.05	4	1160	7	<0.01	<2	4	77
S836970		<10	<1	0.20	20	0.80	1975	<1	0.05	4	1090	4	<0.01	<2	4	62
S836971		<10	<1	0.24	20	0.60	1805	<1	0.05	2	1100	5	0.01	<2	4	73
S836972		<10	<1	0.23	20	0.48	1985	<1	0.04	3	1040	5	<0.01	3	3	89
S836973		<10	<1	0.28	20	0.67	1825	<1	0.05	3	930	3	0.01	2	3	78



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
S836934		<20	<0.01	<10	<10	18	<10	432
S836935		<20	0.01	<10	<10	19	<10	105
S836936		<20	0.02	<10	<10	42	<10	105
S836937		<20	0.03	<10	<10	56	<10	93
S836938		<20	0.02	<10	<10	33	<10	46
S836939		<20	0.02	<10	<10	38	<10	38
S836940		<20	0.03	<10	<10	38	<10	40
S836941		<20	0.01	<10	<10	35	<10	72
S836942		<20	0.01	<10	<10	28	<10	20
S836943		<20	0.01	<10	<10	31	<10	22
S836944		<20	0.01	<10	<10	32	<10	13
S836945		<20	0.01	<10	<10	35	<10	12
S836946		<20	0.03	<10	<10	43	<10	18
S836947		<20	0.03	<10	<10	45	<10	30
S836948		<20	0.03	<10	<10	43	<10	18
S836949		<20	0.03	<10	<10	45	<10	21
S836950		<20	0.09	<10	<10	42	<10	35
S836951		<20	0.03	<10	<10	42	<10	21
S836952		<20	0.03	<10	<10	39	<10	22
S836953		<20	0.02	<10	<10	42	<10	11
S836954		<20	0.03	<10	<10	46	<10	25
S836955		<20	0.03	<10	<10	47	<10	17
S836956		<20	0.03	<10	<10	44	<10	16
S836957		<20	0.03	<10	<10	44	<10	19
S836958		<20	0.03	<10	<10	45	<10	18
S836959		<20	0.04	<10	<10	51	<10	370
S836960		<20	0.08	<10	<10	42	<10	35
S836961		<20	0.04	<10	<10	50	<10	60
S836962		<20	0.04	<10	<10	49	<10	34
S836963		<20	0.03	<10	<10	41	<10	609
S836964		<20	0.03	<10	<10	52	<10	112
S836965		<20	0.03	<10	<10	50	<10	86
S836966		<20	0.04	<10	<10	64	<10	81
S836967		<20	0.02	<10	<10	45	<10	119
S836968		<20	0.02	<10	<10	52	<10	125
S836969		<20	0.03	<10	<10	66	<10	148
S836970		<20	0.03	<10	<10	64	<10	152
S836971		<20	0.03	<10	<10	64	<10	112
S836972		<20	0.03	<10	<10	53	<10	92
S836973		<20	0.02	<10	<10	52	<10	138



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Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
LOR		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
S836974		2.65	<0.001	<0.2	0.75	<2	<10	110	0.5	<2	2.87	<0.5	7	1	10	2.71
S836975		1.56	0.001	<0.2	0.66	<2	<10	2020	0.5	<2	2.70	<0.5	8	2	34	2.83
S836976		0.06	0.332	2.0	1.73	27	<10	60	<0.5	3	0.74	3.7	12	25	2280	4.64
S836977		1.92	0.002	0.3	0.34	<2	<10	1040	<0.5	<2	2.99	4.8	5	1	216	2.11
S836978		1.68	0.112	<0.2	0.32	<2	<10	210	<0.5	<2	5.12	<0.5	7	1	9	2.47
S836979		2.61	<0.001	<0.2	0.34	<2	<10	920	<0.5	<2	3.87	<0.5	5	1	9	2.32
S836980		2.57	<0.001	<0.2	0.59	<2	<10	80	<0.5	<2	0.78	<0.5	4	9	4	1.72
S836981		2.25	<0.001	0.3	0.32	<2	<10	1100	<0.5	<2	3.53	<0.5	4	1	234	1.83
S836982		2.93	<0.001	<0.2	0.35	<2	<10	710	<0.5	<2	3.79	<0.5	4	1	159	2.29
S836983		2.29	<0.001	<0.2	0.33	<2	<10	2380	0.5	<2	4.64	<0.5	3	1	60	1.87
S836984		2.47	<0.001	<0.2	0.38	<2	<10	410	0.5	<2	4.29	<0.5	4	1	9	2.34
S836985		2.72	<0.001	<0.2	0.39	<2	<10	620	0.6	<2	3.78	<0.5	3	<1	13	2.05
S836986		2.74	<0.001	<0.2	0.41	<2	<10	920	0.7	<2	3.28	<0.5	4	1	10	2.15
S836987		2.50	<0.001	<0.2	0.38	<2	<10	1830	0.6	<2	2.98	<0.5	5	1	16	2.11
S836988		3.05	<0.001	<0.2	0.34	<2	<10	2180	0.6	<2	4.02	<0.5	5	<1	15	2.07
S836989		1.45	<0.001	<0.2	0.39	<2	<10	2550	0.6	<2	4.61	<0.5	5	1	2	2.23
S836990		1.22	<0.001	<0.2	0.34	<2	<10	2720	0.6	<2	4.32	<0.5	6	1	4	2.14
S836991		2.82	<0.001	<0.2	0.33	<2	<10	2050	0.5	<2	3.67	<0.5	4	<1	5	1.96
S836992		2.53	0.042	0.2	0.32	<2	<10	280	0.6	2	3.83	<0.5	7	<1	33	2.08
S836993		2.31	0.010	0.2	0.34	<2	<10	570	0.5	<2	2.62	<0.5	7	1	9	2.38
S836994		2.57	0.004	0.2	0.38	2	<10	1690	0.6	<2	3.62	<0.5	6	<1	2	2.30
S836995		2.44	0.002	<0.2	0.37	<2	<10	1250	0.6	<2	4.32	<0.5	5	1	1	2.38
S836996		2.45	0.005	<0.2	0.34	<2	<10	2310	0.6	<2	4.55	2.8	5	1	5	1.95
S836997		2.62	0.003	<0.2	0.38	<2	<10	920	0.6	<2	4.40	<0.5	5	1	2	2.22
S836998		2.73	0.001	<0.2	0.39	<2	<10	2220	0.6	<2	3.70	<0.5	5	<1	21	2.18
S836999		2.32	<0.001	<0.2	0.30	<2	<10	1870	0.5	<2	3.85	<0.5	5	<1	214	1.89
S837000		2.24	<0.001	<0.2	0.63	<2	<10	250	<0.5	<2	1.00	<0.5	4	3	4	1.73
S837001		2.84	0.005	0.2	0.29	2	<10	1040	0.5	<2	4.69	<0.5	6	<1	199	2.11
S837002		2.40	<0.001	<0.2	0.37	<2	<10	1830	0.6	<2	4.38	<0.5	4	<1	11	1.94
S837003		2.46	<0.001	<0.2	0.35	<2	<10	850	0.5	<2	3.66	<0.5	4	1	2	1.97
S837004		2.47	<0.001	<0.2	0.30	<2	<10	1070	<0.5	<2	4.38	<0.5	4	1	7	1.76
S837005		2.91	<0.001	<0.2	0.31	<2	<10	2070	<0.5	<2	4.92	<0.5	4	1	9	1.92
S837006		2.52	0.001	<0.2	0.31	<2	<10	2460	0.5	<2	5.87	0.6	5	1	6	2.14
S837007		2.90	<0.001	<0.2	0.30	<2	<10	2400	<0.5	<2	5.10	1.1	4	1	22	1.85
S837008		2.45	<0.001	<0.2	0.33	<2	<10	600	0.5	<2	3.61	<0.5	4	<1	2	2.13
S837009		1.25	<0.001	<0.2	0.27	<2	<10	2800	<0.5	<2	8.3	<0.5	3	<1	39	1.85
S837010		1.19	<0.001	<0.2	0.31	<2	<10	3070	0.5	<2	6.08	<0.5	3	1	28	1.95
S837011		2.59	<0.001	<0.2	0.34	<2	<10	2200	0.5	<2	4.42	0.5	3	<1	11	2.01
S837012		2.98	0.005	<0.2	0.35	<2	<10	2150	0.7	<2	4.19	0.6	6	<1	9	2.20
S837013		2.50	0.030	0.4	0.31	<2	<10	390	0.7	<2	4.66	2.6	7	<1	11	2.23



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
S836974		<10	<1	0.26	20	0.53	1910	1	0.05	<1	1090	3	0.01	2	3	74
S836975		<10	<1	0.27	20	0.29	1645	<1	0.03	3	1480	2	0.05	3	4	77
S836976		<10	<1	0.32	<10	0.52	893	17	0.06	18	680	58	2.79	<2	2	59
S836977		<10	<1	0.25	20	0.18	1755	<1	0.02	1	1380	49	0.17	<2	2	103
S836978		<10	<1	0.25	10	0.69	2410	<1	0.02	1	1310	10	0.45	2	2	189
S836979		<10	<1	0.27	20	0.45	2150	<1	0.02	1	1450	3	0.02	2	3	124
S836980		<10	<1	0.09	10	0.32	431	<1	0.06	3	580	2	0.04	<2	1	36
S836981		<10	<1	0.27	20	0.31	1785	<1	0.02	<1	1390	4	0.05	<2	2	122
S836982		<10	<1	0.29	20	0.63	2080	<1	0.02	<1	1440	4	0.03	<2	3	135
S836983		<10	<1	0.27	20	0.28	2260	<1	0.02	<1	1370	<2	0.06	<2	2	192
S836984		<10	<1	0.29	20	0.44	2210	<1	0.02	<1	1550	2	0.01	<2	3	151
S836985		<10	<1	0.31	20	0.36	2030	<1	0.01	<1	1520	<2	0.02	<2	3	128
S836986		<10	<1	0.33	20	0.37	1825	<1	0.01	<1	1570	<2	0.03	<2	3	140
S836987		<10	<1	0.32	20	0.47	1755	<1	0.01	<1	1490	2	0.05	<2	3	139
S836988		<10	<1	0.29	20	0.80	2210	<1	0.01	1	1300	2	0.09	<2	3	256
S836989		<10	<1	0.32	20	0.59	2480	<1	0.01	<1	1360	<2	0.07	<2	3	207
S836990		<10	<1	0.29	20	0.56	2370	<1	0.01	<1	1380	<2	0.08	2	3	213
S836991		<10	<1	0.28	20	0.44	2010	<1	0.02	<1	1360	<2	0.05	<2	3	145
S836992		<10	<1	0.28	10	0.79	2410	<1	0.01	<1	1290	7	0.42	<2	2	183
S836993		<10	<1	0.29	10	0.54	1730	<1	0.01	<1	1350	4	0.19	<2	3	159
S836994		<10	<1	0.31	20	0.53	2180	<1	0.01	<1	1520	3	0.12	<2	3	167
S836995		<10	<1	0.30	20	0.61	2420	<1	0.02	1	1510	2	0.03	<2	3	184
S836996		<10	<1	0.29	20	0.47	2460	<1	0.02	<1	1420	2	0.08	<2	3	203
S836997		<10	<1	0.32	20	0.45	2380	<1	0.02	<1	1490	2	0.03	<2	3	212
S836998		<10	<1	0.33	20	0.47	2210	<1	0.02	<1	1480	4	0.07	<2	3	212
S836999		<10	<1	0.29	10	0.44	2110	<1	0.01	1	1370	3	0.11	2	3	192
S837000		<10	<1	0.11	10	0.36	487	<1	0.04	1	580	3	0.03	<2	2	47
S837001		<10	<1	0.26	10	0.79	2360	<1	0.02	<1	1290	6	0.17	<2	2	271
S837002		<10	<1	0.28	10	0.48	1765	<1	0.02	<1	1230	6	0.07	<2	3	257
S837003		<10	<1	0.29	20	0.51	1590	<1	0.02	<1	1480	6	0.02	<2	2	174
S837004		<10	<1	0.26	10	0.29	1620	<1	0.02	<1	1360	3	0.03	<2	2	181
S837005		<10	<1	0.27	20	0.43	1805	<1	0.02	<1	1330	5	0.05	2	3	220
S837006		<10	<1	0.27	10	0.85	2440	<1	0.02	<1	1230	23	0.06	2	3	265
S837007		<10	<1	0.27	10	0.49	1965	<1	0.02	<1	1190	26	0.06	<2	3	198
S837008		<10	<1	0.29	10	0.33	1740	<1	0.02	<1	1410	8	0.01	2	3	165
S837009		<10	<1	0.25	10	0.32	2420	<1	0.02	<1	1220	15	0.07	<2	3	314
S837010		<10	<1	0.28	10	0.31	2130	<1	0.02	<1	1300	9	0.08	<2	3	256
S837011		<10	<1	0.29	10	0.55	1930	<1	0.02	1	1410	18	0.06	2	3	226
S837012		<10	<1	0.31	10	0.52	2200	<1	0.02	<1	1420	31	0.10	<2	3	210
S837013		<10	<1	0.28	10	0.47	2260	2	0.02	<1	1350	139	0.33	2	2	222



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		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
S836974		<20	<0.01	<10	<10	60	<10	92
S836975		<20	0.06	<10	<10	41	<10	61
S836976		<20	0.03	<10	<10	28	<10	677
S836977		<20	0.01	<10	<10	20	<10	670
S836978		<20	0.01	<10	<10	20	<10	58
S836979		<20	0.02	<10	<10	30	<10	43
S836980		<20	0.07	<10	<10	40	<10	33
S836981		<20	0.02	<10	<10	29	<10	32
S836982		<20	0.01	<10	<10	33	<10	40
S836983		<20	0.02	<10	<10	30	<10	21
S836984		<20	0.02	<10	<10	40	<10	28
S836985		<20	0.02	<10	<10	31	<10	23
S836986		<20	0.01	<10	<10	29	<10	30
S836987		<20	0.01	<10	<10	21	<10	38
S836988		<20	<0.01	<10	<10	11	<10	63
S836989		<20	0.01	<10	<10	20	<10	60
S836990		<20	0.01	<10	<10	18	<10	53
S836991		<20	0.01	<10	<10	21	<10	32
S836992		<20	<0.01	<10	<10	10	<10	50
S836993		<20	<0.01	<10	<10	17	<10	59
S836994		<20	0.01	<10	<10	23	<10	48
S836995		<20	0.01	<10	<10	28	<10	45
S836996		<20	0.01	<10	<10	22	<10	169
S836997		<20	0.01	<10	<10	31	<10	31
S836998		<20	0.01	<10	<10	25	<10	42
S836999		<20	<0.01	<10	<10	15	<10	36
S837000		<20	0.06	<10	<10	40	<10	36
S837001		<20	<0.01	<10	<10	13	<10	49
S837002		<20	0.01	<10	<10	26	<10	39
S837003		<20	0.02	<10	<10	32	<10	33
S837004		<20	0.02	<10	<10	30	<10	21
S837005		<20	0.01	<10	<10	30	<10	26
S837006		<20	0.01	<10	<10	25	<10	75
S837007		<20	0.01	<10	<10	29	<10	116
S837008		<20	0.02	<10	<10	34	<10	35
S837009		<20	0.01	<10	<10	27	<10	39
S837010		<20	0.01	<10	<10	30	<10	37
S837011		<20	0.01	<10	<10	25	<10	79
S837012		<20	<0.01	<10	<10	17	<10	105
S837013		<20	<0.01	<10	<10	11	<10	373



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	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
LOR		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
S837014		2.84	0.201	0.8	0.33	4	<10	110	0.8	<2	4.17	15.8	10	<1	34	1.96
S837015		2.62	0.018	<0.2	0.34	<2	<10	1000	0.6	<2	4.16	3.0	5	<1	5	2.04
S837016		2.74	0.101	0.3	0.32	<2	<10	300	0.7	<2	3.89	3.5	8	<1	5	2.15
S837017		2.46	0.025	0.2	0.32	<2	<10	370	0.7	<2	5.15	<0.5	8	<1	5	2.24
S837018		2.99	0.005	0.2	0.32	<2	<10	670	0.6	<2	5.75	<0.5	8	<1	11	2.52
S837019		2.25	<0.001	<0.2	0.36	<2	<10	2490	0.5	<2	4.35	<0.5	9	1	33	3.39
S837020		1.95	<0.001	<0.2	0.54	<2	<10	70	<0.5	<2	0.56	<0.5	3	3	3	1.53
S837021		2.43	<0.001	<0.2	0.34	<2	<10	1630	0.5	<2	3.87	<0.5	8	1	2	2.73
S837022		2.92	<0.001	<0.2	0.30	<2	<10	1530	<0.5	<2	5.48	<0.5	9	1	13	2.87
S837023		2.60	0.003	<0.2	0.32	2	<10	560	<0.5	<2	4.16	<0.5	10	1	20	3.21
S837024		2.56	0.002	<0.2	0.40	<2	<10	620	<0.5	<2	2.29	<0.5	12	1	3	3.25
S837025		2.59	0.051	0.8	0.45	11	<10	30	0.6	3	1.62	1.7	16	2	192	4.04
S837026		2.42	0.038	0.6	0.33	16	<10	10	0.5	2	0.74	1.6	10	1	94	3.33
S837027		2.40	0.042	0.7	0.30	19	<10	20	<0.5	3	0.49	1.1	9	1	433	3.33
S837028		2.68	0.092	0.7	0.31	15	<10	20	<0.5	2	0.44	0.8	9	2	188	2.86
S837029		1.50	0.067	0.8	0.27	16	<10	10	<0.5	<2	0.67	1.4	10	2	74	3.62
S837030		0.95	0.080	0.6	0.28	18	<10	20	<0.5	2	0.37	1.0	10	2	105	3.24
S837031		2.56	0.075	1.5	0.36	25	<10	20	<0.5	3	1.12	<0.5	15	1	1510	5.61
S837032		2.73	0.009	<0.2	0.43	6	<10	80	<0.5	<2	2.13	<0.5	10	2	25	4.42
S837033		2.79	0.007	<0.2	0.34	3	<10	400	<0.5	<2	2.56	<0.5	9	2	27	3.58
S837034		2.44	0.002	<0.2	0.36	2	<10	560	<0.5	<2	3.71	<0.5	9	3	18	3.67
S837035		2.65	0.047	0.5	0.35	13	<10	100	0.5	<2	4.08	<0.5	11	<1	232	3.99
S837036		2.52	0.010	<0.2	0.36	2	<10	460	0.5	<2	3.38	<0.5	7	1	434	2.99
S837037		2.57	0.050	0.3	0.40	7	<10	130	0.7	<2	3.43	<0.5	10	<1	55	3.15
S837038		2.08	0.010	<0.2	0.34	<2	<10	240	0.5	<2	3.57	<0.5	7	1	135	2.85
S837039		2.45	0.020	<0.2	0.38	8	<10	280	0.6	<2	3.52	<0.5	10	1	171	3.43
S837040		1.79	<0.001	<0.2	0.61	<2	<10	190	<0.5	<2	0.82	<0.5	4	5	3	1.69
S837041		2.34	0.004	<0.2	0.33	<2	<10	1010	0.5	<2	3.99	<0.5	8	<1	71	3.61
S837042		2.95	0.004	<0.2	0.33	<2	<10	770	0.5	<2	4.17	<0.5	8	<1	52	3.18
S837043		2.59	0.009	<0.2	0.30	5	<10	140	<0.5	<2	3.52	<0.5	13	1	239	3.61
S837044		2.30	<0.001	<0.2	0.33	<2	<10	2220	<0.5	<2	4.05	<0.5	6	1	11	2.75
S837045		2.61	<0.001	<0.2	0.32	<2	<10	1110	<0.5	<2	3.21	<0.5	7	<1	225	3.42
S837046		2.69	0.024	<0.2	0.43	4	<10	470	0.6	<2	3.41	<0.5	10	2	348	3.55
S837047		2.61	0.005	<0.2	0.58	<2	<10	650	0.5	<2	4.71	<0.5	9	1	4	3.09
S837048		2.57	0.007	<0.2	1.21	<2	<10	440	0.6	<2	4.12	<0.5	13	3	2	3.71
S837049		1.24	0.002	<0.2	1.65	<2	<10	280	0.7	<2	4.47	<0.5	15	3	2	3.94
S837050		1.30	0.004	<0.2	1.61	<2	<10	370	0.6	<2	4.48	<0.5	14	3	2	3.77
S837051		2.28	0.020	<0.2	1.99	<2	<10	1050	0.6	<2	5.23	<0.5	14	3	5	3.97
S837052		2.48	0.094	0.5	2.50	4	<10	350	0.6	<2	2.83	<0.5	14	6	859	5.63
S837053		2.76	0.001	<0.2	2.41	3	<10	940	0.5	2	2.80	<0.5	13	7	118	4.77



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		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
S837014		<10	<1	0.29	10	0.52	1945	2	0.02	<1	1320	605	0.62	<2	2	217
S837015		<10	<1	0.31	20	0.37	2000	<1	0.02	<1	1450	35	0.08	<2	3	196
S837016		<10	<1	0.29	10	0.39	1975	1	0.02	<1	1460	89	0.49	<2	3	166
S837017		<10	<1	0.29	10	0.50	2520	4	0.01	<1	1300	12	0.38	<2	3	253
S837018		<10	<1	0.27	10	1.05	2660	1	0.02	<1	1130	8	0.20	3	3	331
S837019		<10	<1	0.30	10	1.07	3040	<1	0.02	1	1050	4	0.08	<2	3	281
S837020		<10	<1	0.08	10	0.27	404	<1	0.05	1	480	4	0.01	<2	1	30
S837021		<10	<1	0.28	20	0.64	2470	<1	0.02	1	1230	4	0.04	2	3	290
S837022		<10	<1	0.26	10	0.85	3230	<1	0.02	<1	1180	5	0.04	<2	3	339
S837023		<10	<1	0.26	10	1.05	2870	<1	0.02	1	1120	3	0.30	<2	4	197
S837024		<10	<1	0.29	20	1.05	2280	<1	0.03	2	1270	2	0.31	<2	4	139
S837025		<10	<1	0.34	10	0.59	1325	1	0.02	2	1320	42	2.55	2	2	93
S837026		<10	<1	0.26	<10	0.22	203	4	0.01	1	1000	39	3.40	<2	1	83
S837027		<10	<1	0.25	<10	0.12	109	4	0.01	1	1040	49	3.59	2	1	60
S837028		<10	<1	0.25	10	0.09	138	4	0.01	<1	980	53	3.08	<2	1	52
S837029		<10	<1	0.22	<10	0.17	319	4	0.01	1	930	55	3.81	<2	1	54
S837030		<10	<1	0.23	<10	0.07	98	5	0.01	1	930	50	3.55	<2	1	50
S837031		<10	<1	0.28	10	0.56	1280	2	0.01	2	1210	37	4.30	<2	2	72
S837032		<10	<1	0.27	10	1.22	2930	<1	0.03	2	1310	6	1.11	<2	3	90
S837033		<10	<1	0.27	10	1.14	3090	<1	0.03	1	1130	3	0.33	<2	4	98
S837034		<10	<1	0.32	10	1.17	3450	<1	0.02	2	1200	4	0.37	<2	4	149
S837035		<10	<1	0.32	10	1.05	3240	1	0.02	<1	1210	25	1.01	<2	3	161
S837036		<10	<1	0.32	10	0.86	2540	1	0.02	<1	1170	9	0.34	<2	3	147
S837037		<10	<1	0.34	10	0.89	2550	1	0.02	<1	1110	11	1.02	<2	3	149
S837038		<10	<1	0.30	10	0.82	2550	<1	0.02	<1	1200	11	0.45	<2	3	149
S837039		<10	<1	0.34	10	1.00	2540	2	0.02	<1	1110	7	0.56	<2	3	168
S837040		<10	<1	0.10	10	0.31	439	<1	0.05	<1	580	3	0.02	<2	1	48
S837041		<10	<1	0.31	10	1.16	3290	<1	0.01	1	1040	4	0.22	<2	4	193
S837042		<10	1	0.32	10	1.14	3250	<1	0.02	<1	1150	5	0.33	<2	4	199
S837043		<10	<1	0.29	10	1.04	2530	<1	0.02	<1	980	8	0.89	<2	3	186
S837044		<10	<1	0.35	10	1.16	2970	<1	0.02	<1	1050	4	0.09	<2	3	228
S837045		<10	<1	0.31	10	0.99	3190	<1	0.01	<1	900	4	0.23	<2	4	167
S837046		<10	<1	0.30	10	0.89	2150	<1	0.02	1	1160	11	0.44	<2	4	167
S837047		<10	<1	0.28	20	0.74	2300	<1	0.02	<1	1240	4	0.02	<2	4	239
S837048		<10	1	0.27	20	1.17	2160	<1	0.02	4	1350	3	0.01	<2	5	213
S837049		10	<1	0.28	20	1.37	2450	<1	0.02	4	1500	2	0.01	<2	5	205
S837050		10	<1	0.26	20	1.28	2340	<1	0.02	4	1410	2	0.01	<2	5	209
S837051		10	<1	0.27	20	1.55	3480	<1	0.02	4	1340	3	0.03	<2	4	306
S837052		10	<1	0.21	20	2.14	4130	<1	0.02	7	1240	5	0.68	<2	4	192
S837053		10	<1	0.23	20	2.26	4110	<1	0.02	6	1240	3	0.11	<2	4	201



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
S837014		<20	<0.01	<10	<10	9	<10	2110
S837015		<20	0.01	<10	<10	21	<10	391
S837016		<20	<0.01	<10	<10	15	<10	403
S837017		<20	<0.01	<10	<10	15	<10	54
S837018		<20	<0.01	<10	<10	21	<10	88
S837019		<20	0.01	<10	<10	35	<10	114
S837020		<20	0.06	<10	<10	35	<10	35
S837021		<20	<0.01	<10	<10	24	<10	90
S837022		<20	0.01	<10	<10	37	<10	120
S837023		<20	0.01	<10	<10	34	<10	115
S837024		<20	<0.01	<10	<10	22	<10	147
S837025		<20	<0.01	<10	<10	16	<10	306
S837026		<20	<0.01	<10	<10	7	<10	141
S837027		<20	<0.01	<10	<10	4	<10	90
S837028		<20	<0.01	<10	<10	4	<10	67
S837029		<20	<0.01	<10	<10	4	<10	109
S837030		<20	<0.01	<10	<10	4	<10	75
S837031		<20	<0.01	<10	<10	16	<10	99
S837032		<20	<0.01	<10	<10	30	<10	165
S837033		<20	<0.01	<10	<10	25	<10	140
S837034		<20	<0.01	<10	<10	17	<10	127
S837035		<20	<0.01	<10	<10	15	<10	122
S837036		<20	<0.01	<10	<10	23	<10	61
S837037		<20	<0.01	<10	<10	15	<10	98
S837038		<20	<0.01	<10	<10	12	<10	115
S837039		<20	<0.01	<10	<10	19	<10	109
S837040		<20	0.06	<10	<10	38	<10	34
S837041		<20	<0.01	<10	<10	19	<10	108
S837042		<20	<0.01	<10	<10	14	<10	90
S837043		<20	<0.01	<10	<10	16	<10	90
S837044		<20	<0.01	<10	<10	16	<10	89
S837045		<20	<0.01	<10	<10	17	<10	90
S837046		<20	0.01	<10	<10	38	<10	157
S837047		<20	0.01	<10	<10	39	<10	83
S837048		<20	0.01	<10	<10	57	<10	119
S837049		<20	<0.01	<10	<10	47	<10	152
S837050		<20	<0.01	<10	<10	48	<10	148
S837051		<20	<0.01	<10	<10	48	<10	172
S837052		<20	<0.01	<10	<10	56	<10	257
S837053		<20	<0.01	<10	<10	55	<10	335



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		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
S837054		2.61	0.001	<0.2	2.51	3	<10	710	0.6	<2	2.51	<0.5	14	5	51	4.92
S837055		3.24	0.106	1.1	0.73	24	<10	10	0.6	<2	3.60	3.1	22	1	319	7.42
S837056		2.53	0.122	1.0	0.42	19	10	10	0.6	<2	2.89	4.2	23	1	657	5.95
S837057		2.79	0.029	0.2	0.70	12	<10	120	0.7	<2	2.29	1.0	17	1	123	6.07
S837058		2.59	0.004	<0.2	2.10	<2	<10	950	0.6	<2	2.57	<0.5	13	4	138	5.22
S837059		2.74	0.008	<0.2	1.82	<2	<10	540	0.5	<2	2.31	<0.5	13	7	96	4.56
S837060		1.04	<0.001	<0.2	0.51	<2	<10	60	<0.5	<2	0.49	<0.5	3	4	4	1.69
S837061		2.56	<0.001	<0.2	2.02	<2	<10	770	0.5	<2	2.74	<0.5	9	2	20	4.49
S837062		2.72	0.010	<0.2	1.60	4	<10	200	0.5	<2	1.73	<0.5	12	2	18	5.04
S837063		2.68	0.039	0.6	0.36	10	<10	70	0.5	<2	1.97	<0.5	15	3	214	4.87
S837064		2.70	0.118	1.0	0.67	13	<10	90	0.6	3	1.57	<0.5	17	7	1290	5.69
S837065		2.74	0.176	0.7	1.89	18	<10	40	0.5	4	2.97	4.9	23	15	1210	7.52
S837066		2.84	0.160	<0.2	2.42	<2	<10	510	0.6	2	4.76	12.3	11	22	22	4.59
S837067		2.55	0.203	<0.2	2.77	<2	<10	1000	0.5	2	5.15	22.8	13	25	45	4.29
S837068		2.47	0.004	<0.2	2.50	2	<10	540	0.5	<2	6.65	4.8	13	24	13	3.96
S837069		1.51	0.052	<0.2	2.54	<2	<10	310	0.5	<2	3.56	4.3	13	24	7	4.45
S837070		1.31	0.069	<0.2	2.28	<2	<10	490	0.5	<2	4.48	3.7	12	22	6	4.19
S837071		2.51	0.768	0.4	2.35	<2	<10	980	0.6	2	3.45	17.9	11	22	88	4.24
S837072		2.63	0.108	0.2	2.37	<2	<10	700	0.5	<2	3.41	4.9	12	24	53	4.00
S837073		2.60	0.034	<0.2	2.60	<2	<10	680	0.5	<2	3.40	4.8	12	22	7	4.54
S837074		2.54	0.003	<0.2	2.03	2	<10	400	<0.5	2	3.02	21.1	11	20	17	3.60
S837075		2.70	0.014	0.2	1.79	<2	<10	800	<0.5	<2	4.22	13.7	12	21	54	3.37
S837076		2.08	0.084	<0.2	1.26	<2	<10	690	0.5	<2	3.75	2.3	11	19	29	3.27
S837077		2.21	0.101	<0.2	1.21	<2	<10	290	0.5	<2	4.32	<0.5	11	18	7	3.30
S837078		2.42	0.238	<0.2	1.57	<2	<10	660	0.5	<2	3.04	4.7	11	25	27	3.48
S837079		2.33	0.095	0.2	2.05	<2	<10	1140	0.5	<2	4.29	10.9	10	11	52	3.93
S837080		1.35	<0.001	<0.2	0.47	<2	<10	50	<0.5	<2	0.44	<0.5	3	4	3	1.54
S837081		2.31	0.004	<0.2	2.81	3	<10	460	<0.5	<2	2.34	<0.5	13	15	146	5.63
S837082		2.55	0.022	0.4	2.69	3	<10	340	0.5	2	2.20	1.3	13	14	942	5.67
S837083		2.72	0.409	0.7	2.39	3	<10	320	0.5	2	2.15	29.5	12	13	646	5.19



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		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	
S837054		10	<1	0.22	20	2.27	3720	<1	0.02	5	1320	7	0.38	<2	5	157
S837055		<10	<1	0.26	10	1.46	3470	3	0.02	5	1110	18	6.25	2	4	169
S837056		<10	<1	0.28	10	1.16	3040	4	0.02	5	1230	20	4.46	6	3	123
S837057		<10	<1	0.27	10	1.77	3370	1	0.02	6	1450	9	2.21	2	4	113
S837058		10	<1	0.27	20	2.18	4370	<1	0.02	7	1360	4	0.27	<2	5	131
S837059		10	<1	0.27	20	1.88	3710	<1	0.02	6	1340	2	0.13	<2	4	120
S837060		<10	<1	0.09	10	0.26	415	<1	0.07	2	560	<2	0.03	<2	1	30
S837061		10	<1	0.29	20	1.99	3870	<1	0.02	2	1090	2	0.13	<2	3	158
S837062		10	<1	0.23	20	1.90	3390	<1	0.02	5	1170	6	1.00	<2	3	99
S837063		<10	<1	0.26	10	1.08	2270	1	0.02	6	1120	9	2.60	<2	3	100
S837064		<10	<1	0.26	10	1.27	2440	1	0.02	11	1190	7	2.49	<2	4	82
S837065		10	<1	0.23	10	2.10	4220	1	0.02	11	1090	8	2.66	<2	4	158
S837066		10	1	0.32	20	2.11	4040	<1	0.02	11	1240	6	0.13	<2	5	252
S837067		10	1	0.19	20	2.51	3990	<1	0.02	10	1140	3	0.21	<2	5	286
S837068		10	<1	0.19	20	2.33	3800	<1	0.03	11	1110	5	0.05	<2	5	253
S837069		10	<1	0.29	20	2.17	3470	<1	0.03	11	1190	3	0.04	<2	5	194
S837070		10	<1	0.28	20	1.95	3750	<1	0.02	10	1220	5	0.04	<2	4	262
S837071		10	1	0.25	20	1.98	3410	<1	0.01	13	1180	4	0.13	<2	4	230
S837072		10	<1	0.18	20	2.05	3220	<1	0.01	11	1130	2	0.08	<2	5	163
S837073		10	<1	0.20	20	2.10	3560	<1	0.01	11	1170	2	0.05	2	5	173
S837074		10	2	0.18	10	1.67	2850	<1	0.02	11	1120	3	0.20	<2	4	141
S837075		10	1	0.16	10	1.55	2850	<1	0.01	12	1150	3	0.15	<2	4	211
S837076		<10	<1	0.25	10	1.08	2250	<1	0.01	12	1180	4	0.05	<2	4	232
S837077		<10	<1	0.24	10	1.15	2310	<1	0.02	12	1190	4	0.05	<2	5	240
S837078		10	<1	0.21	10	1.42	2160	<1	0.01	13	1190	2	0.05	<2	5	174
S837079		10	1	0.22	20	1.73	3910	<1	0.01	7	1170	4	0.16	<2	4	224
S837080		<10	<1	0.08	10	0.24	389	<1	0.06	1	500	2	0.02	<2	1	29
S837081		10	<1	0.19	20	2.30	3590	<1	0.01	8	1240	3	0.38	<2	4	177
S837082		10	<1	0.25	20	2.30	3560	<1	0.01	8	1360	5	0.72	<2	4	147
S837083		10	1	0.24	20	2.27	3470	<1	0.01	8	1280	8	0.71	<2	4	148



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
S837054		<20	<0.01	<10	<10	57	<10	363
S837055		<20	<0.01	<10	<10	25	<10	257
S837056		<20	<0.01	<10	<10	19	<10	325
S837057		<20	<0.01	<10	<10	35	<10	302
S837058		<20	<0.01	<10	<10	60	<10	309
S837059		<20	<0.01	<10	<10	44	<10	237
S837060		<20	0.08	<10	<10	41	<10	33
S837061		<20	<0.01	<10	<10	32	<10	265
S837062		<20	<0.01	<10	<10	34	<10	244
S837063		<20	<0.01	<10	<10	22	<10	144
S837064		<20	<0.01	<10	<10	43	<10	190
S837065		<20	<0.01	<10	<10	41	<10	1080
S837066		<20	0.01	<10	<10	50	<10	2630
S837067		<20	<0.01	<10	<10	50	<10	4370
S837068		<20	<0.01	<10	<10	53	<10	1420
S837069		<20	0.01	<10	<10	51	<10	1330
S837070		<20	0.01	<10	<10	47	<10	1110
S837071		<20	0.01	<10	<10	46	<10	2880
S837072		<20	<0.01	<10	<10	52	<10	1325
S837073		<20	0.01	<10	<10	53	<10	1310
S837074		<20	0.01	<10	<10	51	<10	3950
S837075		<20	0.01	<10	<10	56	<10	2270
S837076		<20	0.01	<10	<10	71	<10	484
S837077		<20	0.02	<10	<10	68	<10	209
S837078		<20	0.01	<10	<10	74	<10	813
S837079		<20	<0.01	<10	<10	43	<10	2180
S837080		<20	0.07	<10	<10	38	<10	36
S837081		<20	<0.01	<10	<10	59	<10	305
S837082		<20	<0.01	<10	<10	56	<10	518
S837083		<20	<0.01	<10	<10	44	<10	5040



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CERTIFICATE OF ANALYSIS TR17188181

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Terrace located at 2912 Molitor Street, Terrace, BC, Canada.			
	CRU-31	CRU-QC	LOG-22	LOG-24
	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-ICP21	ME-ICP41		



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 19-JAN-2018
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CERTIFICATE TR17188182

Project: Forrest Kerr

This report is for 150 Drill Core samples submitted to our lab in Terrace, BC, Canada on 30-AUG-2017.

The following have access to data associated with this certificate:

DEIRDRE HEFFERNAN	CORNELL MCDOWELL
-------------------	------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
LOG-24	Pulp Login - Rcd w/o Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: **ABEN RESOURCES LTD.**
ATTN: ALS GEOCHEMISTRY

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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Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
LOR		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
S837084		2.58	0.279	0.7	1.20	4	<10	160	0.6	4	3.86	7.5	11	6	661	4.45
S837085		3.07	0.001	<0.2	0.38	<2	<10	1130	0.5	<2	2.83	<0.5	5	1	34	2.75
S837086		2.83	0.005	<0.2	0.90	<2	<10	1800	0.5	2	2.53	<0.5	8	1	56	3.65
S837087		2.63	0.006	<0.2	1.60	2	<10	820	<0.5	<2	2.43	<0.5	8	1	198	3.90
S837088		2.75	0.014	<0.2	1.82	2	<10	900	0.5	<2	2.56	<0.5	9	1	154	4.52
S837089		2.45	0.008	0.2	1.76	<2	<10	400	<0.5	2	2.47	<0.5	9	1	345	4.81
S837090		0.07	0.301	2.0	1.70	32	<10	70	<0.5	2	0.76	3.7	11	25	2330	4.71
S837091		2.61	0.008	0.3	1.50	6	<10	30	0.5	2	3.47	<0.5	11	1	205	5.36
S837092		2.61	0.005	0.2	1.58	5	<10	70	0.5	2	3.76	<0.5	9	2	280	4.60
S837093		2.85	0.031	0.2	1.59	4	<10	190	0.6	2	2.30	<0.5	10	2	360	4.72
S837094		1.96	0.058	0.2	1.46	6	<10	40	0.7	2	3.81	4.4	13	2	57	4.52
S837095		2.42	0.013	0.2	1.45	7	<10	40	0.8	3	2.28	0.5	13	2	58	5.29
S837096		2.86	0.108	0.3	1.49	7	<10	60	0.6	3	2.97	13.6	11	2	100	4.57
S837097		2.77	0.037	0.2	1.35	7	<10	320	0.7	2	3.24	2.3	11	2	83	3.74
S837098		1.81	0.002	<0.2	1.47	4	<10	250	0.6	2	4.95	<0.5	12	3	20	3.65
S837099		1.70	0.013	0.3	1.87	15	<10	70	0.7	<2	1.26	1.6	13	2	150	5.19
S837100		1.20	0.034	0.3	1.89	13	<10	50	0.7	<2	2.90	5.6	12	2	181	5.12
S837101		2.68	0.243	2.3	0.55	10	<10	10	<0.5	5	0.61	<0.5	17	2	159	5.72
S837102		3.10	0.292	2.0	0.78	9	<10	20	<0.5	5	1.68	<0.5	13	2	290	7.06
S837103		2.61	0.007	0.3	1.69	5	<10	100	<0.5	2	1.29	0.6	10	3	22	5.51
S837104		2.86	0.021	0.2	1.82	4	<10	390	<0.5	<2	1.38	<0.5	8	4	82	5.45
S837105		3.00	0.027	0.3	1.40	3	<10	260	<0.5	<2	1.32	<0.5	9	2	181	4.98
S837106		2.79	0.022	0.4	1.75	4	<10	210	<0.5	<2	1.10	<0.5	10	2	834	5.30
S837107		2.64	0.035	0.3	1.78	<2	<10	550	<0.5	3	1.53	0.6	7	2	361	4.84
S837108		2.74	0.097	0.6	1.64	6	<10	60	<0.5	2	0.91	<0.5	9	1	118	5.89
S837109		3.07	0.151	0.2	1.80	<2	<10	580	0.5	2	1.30	0.6	7	2	190	5.12
S837110		1.36	<0.001	<0.2	0.45	<2	<10	50	<0.5	<2	0.42	<0.5	3	4	3	1.52
S837111		2.75	0.133	0.6	1.64	2	<10	120	<0.5	2	2.17	36.2	8	2	815	5.01
S837112		3.14	5.06	3.1	1.74	28	<10	10	<0.5	4	0.98	5.6	11	2	1290	10.70
S837113		2.27	0.009	<0.2	1.95	2	<10	1180	<0.5	<2	1.57	<0.5	9	3	207	4.63
S837114		2.65	0.007	<0.2	1.24	<2	<10	1890	<0.5	<2	2.44	<0.5	8	2	74	3.39
S837115		3.01	0.010	<0.2	1.63	<2	<10	220	<0.5	<2	1.55	<0.5	10	2	4	3.76
S837116		2.43	0.002	<0.2	1.69	<2	<10	1270	<0.5	<2	1.25	<0.5	9	2	60	4.19
S837117		2.44	0.006	<0.2	1.64	<2	<10	450	<0.5	<2	2.10	<0.5	8	3	20	3.98
S837118		2.96	0.007	<0.2	1.51	<2	<10	450	0.5	<2	2.13	<0.5	10	2	1	3.75
S837119		1.27	0.014	<0.2	1.08	<2	<10	400	0.5	<2	2.18	<0.5	9	1	3	3.23
S837120		1.29	0.015	<0.2	1.11	<2	<10	1050	<0.5	<2	2.16	<0.5	9	1	10	3.27
S837121		2.76	0.003	0.2	0.65	<2	<10	560	<0.5	2	2.84	6.8	8	1	48	2.81
S837122		2.50	0.002	<0.2	0.39	<2	<10	440	<0.5	<2	2.72	2.4	6	1	22	2.92
S837123		3.11	<0.001	<0.2	0.34	2	<10	1150	<0.5	<2	3.19	0.5	6	1	37	2.68



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
S837084		<10	1	0.28	20	1.95	3440	<1	0.01	5	1190	10	0.77	<2	3	193
S837085		<10	<1	0.30	20	0.77	2120	<1	0.01	1	1280	4	0.09	<2	3	132
S837086		<10	<1	0.27	20	0.95	3000	<1	0.02	1	1190	4	0.09	<2	3	191
S837087		<10	<1	0.23	20	1.16	3130	<1	0.02	1	1260	4	0.08	<2	3	166
S837088		10	<1	0.26	20	1.28	3360	<1	0.01	2	1250	4	0.12	<2	3	174
S837089		<10	<1	0.25	20	1.22	3270	<1	0.01	2	1260	5	0.57	<2	2	177
S837090		<10	<1	0.31	<10	0.54	901	17	0.05	17	690	61	2.85	<2	2	61
S837091		<10	<1	0.30	10	1.09	3350	1	0.01	1	1220	13	1.95	<2	2	234
S837092		<10	<1	0.25	10	1.16	3740	<1	0.01	2	1110	8	1.05	<2	2	215
S837093		<10	<1	0.33	20	1.22	3380	<1	0.01	2	1310	7	0.83	<2	3	152
S837094		<10	<1	0.30	10	1.08	3750	1	0.01	4	1310	14	1.60	<2	3	186
S837095		<10	<1	0.29	10	0.99	3050	1	<0.01	3	1420	20	2.84	<2	3	150
S837096		<10	1	0.27	10	1.11	3480	2	<0.01	2	1170	18	1.78	<2	3	165
S837097		<10	<1	0.28	10	1.07	3380	<1	0.01	3	1220	14	0.82	<2	3	199
S837098		<10	<1	0.25	20	1.11	3760	<1	0.01	5	1200	9	0.68	<2	4	212
S837099		<10	<1	0.26	10	1.40	2800	<1	<0.01	4	1340	14	1.79	2	3	81
S837100		10	<1	0.24	10	1.35	3580	<1	0.01	4	1240	14	1.34	3	3	116
S837101		<10	<1	0.23	<10	0.29	876	1	<0.01	2	1010	52	5.82	<2	1	43
S837102		<10	<1	0.22	<10	0.78	2460	1	<0.01	2	870	61	5.20	<2	1	76
S837103		<10	<1	0.25	10	1.17	2910	<1	0.01	2	1170	15	1.66	<2	2	60
S837104		10	<1	0.26	10	1.34	3230	<1	0.01	2	1300	6	0.67	<2	3	71
S837105		10	<1	0.25	10	1.12	2760	1	0.02	3	1140	12	0.72	<2	2	69
S837106		10	<1	0.23	20	1.23	2640	<1	0.02	2	1210	38	0.96	<2	2	57
S837107		10	<1	0.25	20	1.19	3190	<1	0.01	1	1170	27	0.35	<2	2	98
S837108		<10	<1	0.23	10	0.97	2380	<1	0.02	2	1140	69	1.71	<2	2	64
S837109		10	<1	0.28	20	1.20	2920	<1	0.02	3	1210	12	0.33	<2	2	103
S837110		<10	<1	0.08	10	0.22	364	<1	0.06	1	480	<2	0.03	<2	1	26
S837111		10	2	0.26	20	1.30	3780	<1	0.02	2	1190	41	0.88	<2	2	131
S837112		10	<1	0.23	10	0.95	2130	3	0.01	2	930	258	7.32	4	2	69
S837113		10	<1	0.25	20	1.23	3520	<1	0.02	1	1270	14	0.18	<2	3	122
S837114		<10	<1	0.30	20	1.08	3410	<1	0.02	2	1210	6	0.09	<2	2	166
S837115		10	<1	0.26	20	1.10	2740	<1	0.02	2	1310	2	0.01	<2	3	103
S837116		10	<1	0.29	20	1.17	2710	<1	0.02	2	1330	10	0.06	<2	3	90
S837117		10	<1	0.33	20	1.13	3020	<1	0.02	2	1280	6	0.02	<2	3	125
S837118		10	<1	0.28	20	1.22	3260	<1	0.02	3	1320	4	0.01	<2	3	126
S837119		<10	<1	0.31	20	0.80	2670	<1	0.03	2	1360	7	0.02	<2	3	119
S837120		<10	<1	0.32	20	0.81	2660	<1	0.02	1	1330	6	0.03	<2	3	139
S837121		<10	<1	0.31	20	0.67	2700	<1	0.02	<1	1300	148	0.14	<2	3	153
S837122		<10	<1	0.31	20	0.69	2480	<1	0.02	<1	1290	80	0.05	<2	3	97
S837123		<10	<1	0.32	20	0.83	2530	<1	0.02	<1	1320	19	0.06	<2	3	126



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
S837084		<20	<0.01	<10	<10	31	<10	1425
S837085		<20	0.02	<10	<10	34	<10	62
S837086		<20	0.01	<10	<10	32	<10	146
S837087		<20	0.01	<10	<10	40	<10	168
S837088		<20	0.01	<10	<10	43	<10	178
S837089		<20	0.01	<10	<10	38	<10	181
S837090		<20	0.03	<10	<10	28	<10	707
S837091		<20	<0.01	<10	<10	31	<10	177
S837092		<20	<0.01	<10	<10	33	<10	194
S837093		<20	<0.01	<10	<10	38	<10	220
S837094		<20	<0.01	<10	<10	33	<10	785
S837095		<20	<0.01	<10	<10	29	<10	246
S837096		<20	<0.01	<10	<10	26	<10	2520
S837097		<20	<0.01	<10	<10	27	<10	506
S837098		<20	<0.01	<10	<10	30	<10	196
S837099		<20	<0.01	<10	<10	36	<10	364
S837100		<20	<0.01	<10	<10	37	<10	948
S837101		<20	<0.01	<10	<10	8	<10	57
S837102		<20	<0.01	<10	<10	15	<10	120
S837103		<20	<0.01	<10	<10	33	<10	205
S837104		<20	<0.01	<10	<10	37	<10	186
S837105		<20	<0.01	<10	<10	30	<10	175
S837106		<20	<0.01	<10	<10	36	<10	187
S837107		<20	<0.01	<10	<10	32	<10	289
S837108		<20	<0.01	<10	<10	28	<10	199
S837109		<20	<0.01	<10	<10	35	<10	262
S837110		<20	0.07	<10	<10	36	<10	31
S837111		<20	<0.01	<10	<10	31	<10	4930
S837112		<20	<0.01	<10	<10	29	<10	700
S837113		<20	<0.01	<10	<10	44	<10	230
S837114		<20	0.01	<10	<10	36	<10	139
S837115		<20	0.01	<10	<10	52	<10	144
S837116		<20	0.01	<10	<10	50	<10	188
S837117		<20	0.01	<10	<10	53	<10	153
S837118		<20	0.01	<10	<10	44	<10	172
S837119		<20	0.01	<10	<10	43	<10	160
S837120		<20	0.01	<10	<10	43	<10	161
S837121		<20	0.01	<10	<10	35	<10	1130
S837122		<20	0.02	<10	<10	38	<10	448
S837123		<20	0.01	<10	<10	36	<10	128



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Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
S837124		2.80	0.004	<0.2	0.88	<2	<10	890	<0.5	<2	3.20	<0.5	7	2	1	2.90
S837125		2.74	0.015	<0.2	0.92	<2	<10	240	<0.5	<2	3.09	<0.5	8	1	<1	2.80
S837126		2.16	<0.001	<0.2	0.93	<2	<10	230	<0.5	<2	3.45	<0.5	8	2	1	2.75
S837127		2.67	0.001	<0.2	1.16	<2	<10	190	<0.5	<2	2.53	<0.5	9	1	3	3.10
S837128		2.49	0.010	<0.2	1.17	2	<10	1170	<0.5	<2	3.10	2.6	8	1	38	3.03
S837129		2.97	0.006	<0.2	1.19	<2	<10	580	<0.5	<2	2.72	<0.5	8	1	5	3.00
S837130		1.60	<0.001	<0.2	0.54	<2	<10	130	<0.5	<2	0.49	<0.5	3	4	2	1.57
S837131		2.55	0.034	0.8	1.91	<2	<10	460	<0.5	3	1.85	24.9	9	2	323	4.14
S837132		2.23	0.114	<0.2	2.06	<2	<10	700	<0.5	<2	1.50	<0.5	9	1	3	4.55
S837133		2.70	0.019	<0.2	1.86	2	<10	1090	0.5	<2	2.25	3.0	10	1	70	4.42
S837134		2.75	0.023	<0.2	1.57	2	<10	1490	<0.5	<2	2.46	12.1	8	2	186	4.34
S837135		2.69	0.199	1.0	1.32	8	<10	10	<0.5	4	1.66	<0.5	12	1	234	7.16
S837136		2.33	0.003	<0.2	2.06	<2	<10	360	<0.5	<2	1.29	<0.5	9	1	179	5.53
S837137		2.81	0.006	<0.2	1.98	<2	<10	670	0.5	<2	1.34	<0.5	9	1	3	4.42
S837138		2.66	0.016	<0.2	1.20	3	<10	220	<0.5	<2	1.51	<0.5	7	2	1	3.10
S837139		1.49	0.018	<0.2	1.26	3	<10	370	<0.5	<2	1.87	<0.5	8	1	1	3.26
S837140		1.29	0.014	<0.2	1.24	<2	<10	490	<0.5	2	1.99	<0.5	8	1	<1	3.40
S837141		2.54	0.012	<0.2	0.97	<2	<10	530	<0.5	<2	1.28	<0.5	7	1	5	2.68
S837142		3.07	0.002	<0.2	1.12	3	<10	360	<0.5	<2	1.34	<0.5	8	1	2	3.37
S837143		2.48	0.011	<0.2	1.27	<2	<10	130	<0.5	<2	1.27	<0.5	7	1	<1	3.67
S837144		3.17	0.022	<0.2	1.22	<2	<10	330	<0.5	<2	1.72	<0.5	8	1	1	3.25
S837145		2.90	0.008	<0.2	1.30	2	<10	800	<0.5	<2	2.51	<0.5	8	1	<1	3.65
S837146		2.61	0.013	<0.2	1.14	<2	<10	730	0.5	2	2.62	<0.5	7	1	<1	3.18
S837147		2.55	0.017	<0.2	1.25	<2	<10	320	<0.5	2	2.45	<0.5	7	1	<1	2.71
S837148		3.05	0.121	<0.2	1.18	<2	<10	170	<0.5	<2	2.11	<0.5	7	1	<1	3.30
S837149		2.81	0.007	<0.2	1.09	2	<10	400	<0.5	<2	1.91	<0.5	8	1	1	3.16
S837150		1.38	<0.001	<0.2	0.51	<2	<10	60	<0.5	<2	0.47	<0.5	3	4	2	1.60
S837151		2.60	0.010	<0.2	1.00	4	<10	1210	0.6	<2	1.07	<0.5	6	1	1	3.16
S837152		2.93	0.006	<0.2	1.20	2	<10	2120	0.5	<2	2.61	<0.5	9	2	13	4.41
S837153		2.04	0.151	1.3	1.05	6	<10	30	0.5	3	2.70	<0.5	18	2	24	4.82
S837154		2.12	0.228	1.0	1.94	12	<10	60	<0.5	<2	1.61	<0.5	12	1	28	6.10
S837155		2.52	0.010	<0.2	1.88	4	<10	240	0.5	<2	1.71	<0.5	5	1	2	4.38
S837156		2.85	0.034	0.2	2.10	4	<10	660	<0.5	2	1.66	<0.5	8	1	22	5.53
S837157		2.64	0.019	<0.2	1.32	2	<10	660	<0.5	<2	2.58	<0.5	9	1	1	3.69
S837158		2.99	0.013	<0.2	0.92	<2	<10	710	0.6	<2	3.20	<0.5	8	1	1	2.87
S837159		1.04	0.006	<0.2	0.57	2	<10	1590	0.5	<2	4.79	<0.5	4	<1	<1	2.23
S837160		1.24	0.002	<0.2	0.54	3	<10	1560	0.5	<2	4.22	<0.5	4	1	<1	2.08
S837161		3.12	0.014	0.2	0.92	11	<10	280	0.8	<2	1.64	<0.5	6	<1	21	2.77
S837162		2.44	0.004	<0.2	0.70	<2	<10	420	0.8	<2	3.84	<0.5	13	2	2	3.10
S837163		2.63	0.007	<0.2	0.53	3	<10	840	0.6	<2	2.71	<0.5	5	1	2	2.76



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
S837124		<10	<1	0.28	20	0.79	2350	<1	0.02	<1	1150	6	0.03	<2	3	193
S837125		<10	<1	0.29	20	0.79	2090	<1	0.03	<1	1210	4	0.01	<2	3	149
S837126		<10	<1	0.28	20	0.75	2230	<1	0.03	<1	1190	5	0.01	<2	3	178
S837127		<10	<1	0.29	20	0.89	1980	<1	0.03	<1	1220	111	0.01	<2	3	138
S837128		10	<1	0.27	20	0.89	2540	<1	0.02	1	1220	265	0.07	<2	3	164
S837129		<10	<1	0.31	20	0.88	2510	<1	0.03	1	1190	14	0.03	<2	3	183
S837130		<10	1	0.09	10	0.26	397	<1	0.07	3	500	2	0.02	<2	1	32
S837131		10	2	0.29	20	1.28	3130	<1	0.02	1	1260	555	0.30	<2	3	114
S837132		10	<1	0.29	20	1.36	3270	<1	0.02	3	1230	8	0.02	<2	3	122
S837133		10	<1	0.31	20	1.30	3650	<1	0.02	1	1310	160	0.11	<2	3	176
S837134		10	1	0.30	20	1.19	3690	<1	0.02	2	1270	459	0.19	<2	3	163
S837135		<10	<1	0.25	10	1.05	2850	<1	0.02	2	950	76	3.64	<2	2	100
S837136		10	<1	0.27	20	1.25	3080	<1	0.02	2	1320	6	0.07	<2	3	72
S837137		10	<1	0.29	20	1.23	2870	<1	0.02	3	1380	4	0.02	<2	3	91
S837138		<10	1	0.27	20	0.73	2160	<1	0.03	2	1270	3	0.01	<2	3	107
S837139		<10	<1	0.29	20	0.82	2650	<1	0.03	<1	1270	4	0.01	<2	3	128
S837140		10	<1	0.26	20	0.85	2780	<1	0.02	1	1260	6	0.01	<2	3	138
S837141		<10	<1	0.28	20	0.59	1770	<1	0.02	2	1250	4	0.02	2	2	91
S837142		<10	<1	0.24	20	0.71	1875	<1	0.03	1	1290	2	0.01	<2	3	91
S837143		<10	<1	0.25	20	0.80	2030	<1	0.03	2	1270	2	0.01	<2	3	79
S837144		<10	<1	0.25	20	0.82	2210	<1	0.03	<1	1220	2	0.01	<2	3	99
S837145		10	<1	0.25	20	0.91	2590	<1	0.03	<1	1220	4	0.04	<2	3	155
S837146		<10	<1	0.26	20	0.74	2470	<1	0.02	2	1160	7	0.02	<2	3	190
S837147		<10	<1	0.27	20	0.80	2520	<1	0.03	<1	1200	3	0.01	<2	3	193
S837148		<10	<1	0.28	20	0.76	2340	<1	0.03	1	1290	3	0.01	<2	3	140
S837149		<10	<1	0.29	20	0.70	2000	<1	0.03	1	1220	4	0.01	<2	2	132
S837150		<10	<1	0.09	10	0.24	384	<1	0.08	<1	510	2	0.03	<2	1	29
S837151		<10	<1	0.32	20	0.56	1405	<1	0.02	1	1420	5	0.03	<2	2	88
S837152		<10	<1	0.31	20	0.60	2610	<1	0.02	1	1190	7	0.13	<2	2	156
S837153		<10	<1	0.28	10	0.51	2170	<1	0.02	4	970	20	2.46	<2	2	100
S837154		10	<1	0.25	10	0.96	2440	1	0.02	1	970	18	2.30	<2	2	65
S837155		10	<1	0.30	20	0.91	2680	<1	0.02	<1	1320	4	0.34	<2	2	73
S837156		10	<1	0.25	20	1.11	3170	<1	0.02	1	1260	4	0.21	<2	3	107
S837157		10	<1	0.27	20	0.90	3140	<1	0.03	<1	1240	4	0.02	<2	3	180
S837158		<10	<1	0.30	20	0.60	2530	<1	0.02	<1	1380	7	0.02	<2	3	266
S837159		<10	<1	0.29	20	0.42	3200	<1	0.02	<1	1120	6	0.04	<2	2	279
S837160		<10	<1	0.28	20	0.43	2470	<1	0.02	<1	1120	6	0.04	<2	2	270
S837161		<10	<1	0.34	20	0.55	1510	<1	0.02	1	1450	5	0.05	<2	3	106
S837162		<10	<1	0.33	20	0.49	2240	<1	0.02	2	1330	6	0.01	<2	4	198
S837163		<10	<1	0.32	20	0.51	1715	<1	0.02	<1	1360	9	0.03	<2	3	168



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
S837124		<20	0.02	<10	<10	46	<10	92
S837125		<20	0.02	<10	<10	48	<10	85
S837126		<20	0.02	<10	<10	48	<10	84
S837127		<20	0.02	<10	<10	55	<10	213
S837128		<20	0.02	<10	<10	47	<10	331
S837129		<20	0.01	<10	<10	47	<10	159
S837130		<20	0.07	<10	<10	37	<10	35
S837131		<20	0.01	<10	<10	47	<10	3740
S837132		<20	<0.01	<10	<10	46	<10	212
S837133		<20	0.01	<10	<10	46	<10	607
S837134		<20	0.01	<10	<10	48	<10	1730
S837135		<20	<0.01	<10	<10	28	<10	146
S837136		<20	0.01	<10	<10	68	<10	182
S837137		<20	0.01	<10	<10	52	<10	171
S837138		<20	0.01	<10	<10	42	<10	94
S837139		<20	0.02	<10	<10	50	<10	111
S837140		<20	0.02	<10	<10	50	<10	114
S837141		<20	0.02	<10	<10	38	<10	77
S837142		<20	0.02	<10	<10	48	<10	86
S837143		<20	0.02	<10	<10	49	<10	94
S837144		<20	0.02	<10	<10	46	<10	96
S837145		<20	0.02	<10	<10	44	<10	109
S837146		<20	0.02	<10	<10	40	<10	79
S837147		<20	0.01	<10	<10	41	<10	95
S837148		<20	0.02	<10	<10	50	<10	89
S837149		<20	0.02	<10	<10	55	<10	72
S837150		<20	0.07	<10	<10	39	<10	32
S837151		<20	0.02	<10	<10	61	<10	70
S837152		<20	0.03	<10	<10	82	<10	92
S837153		<20	0.01	<10	<10	47	<10	81
S837154		<20	<0.01	<10	<10	34	<10	144
S837155		<20	<0.01	<10	<10	35	<10	129
S837156		<20	0.01	<10	<10	46	<10	169
S837157		<20	0.02	<10	<10	49	<10	120
S837158		<20	0.02	<10	<10	47	<10	73
S837159		<20	0.02	<10	<10	42	<10	42
S837160		<20	0.02	<10	<10	40	<10	38
S837161		<20	0.02	<10	<10	44	<10	77
S837162		<20	0.04	<10	<10	92	<10	49
S837163		<20	0.03	<10	<10	65	<10	39



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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
S837164		3.00	0.002	<0.2	1.15	<2	<10	720	0.7	<2	3.94	<0.5	10	2	2	3.20
S837165		2.96	0.002	<0.2	0.94	<2	<10	190	0.7	<2	5.24	<0.5	8	1	3	2.87
S837166		2.64	<0.001	<0.2	1.19	<2	<10	540	0.7	<2	3.89	<0.5	10	1	2	3.23
S837167		2.82	0.001	<0.2	1.60	<2	<10	540	0.6	<2	3.45	<0.5	10	1	38	3.39
S837168		2.63	0.001	<0.2	1.17	<2	<10	170	0.7	<2	3.32	<0.5	9	1	4	3.22
S837169		2.65	0.013	<0.2	1.38	<2	<10	140	0.9	<2	4.35	<0.5	10	1	53	3.49
S837170		1.44	<0.001	<0.2	0.52	<2	<10	70	<0.5	<2	0.49	<0.5	3	4	3	1.55
S837171		2.26	0.008	<0.2	1.42	<2	<10	460	0.8	<2	2.92	<0.5	9	1	152	3.46
S837172		2.98	0.016	<0.2	1.67	4	<10	320	0.7	<2	3.57	<0.5	9	1	419	4.06
S837173		2.32	0.016	0.3	1.56	3	<10	310	0.7	<2	2.51	<0.5	9	1	515	4.12
S837174		2.97	0.014	<0.2	1.54	<2	<10	350	0.9	<2	2.21	<0.5	9	1	308	4.72
S837175		3.05	0.015	0.3	2.33	<2	<10	410	0.5	<2	1.74	<0.5	10	1	446	5.71
S837176		2.78	0.011	<0.2	2.16	5	<10	210	0.6	<2	2.02	<0.5	9	1	616	5.67
S837177		2.93	0.028	0.8	1.77	9	<10	90	0.5	<2	2.17	<0.5	11	1	1680	5.40
S837178		2.78	0.008	0.5	1.88	4	<10	490	0.7	<2	2.00	<0.5	10	1	644	5.02
S837179		2.39	0.037	0.2	1.91	6	<10	310	0.7	<2	1.79	<0.5	11	1	134	5.20
S837180		3.30	0.050	0.4	1.52	14	<10	80	0.7	<2	1.22	<0.5	12	1	527	5.38
S837181		3.05	0.066	0.4	0.50	21	<10	50	<0.5	2	1.15	<0.5	11	1	22	5.11
S837182		2.82	0.014	<0.2	0.44	9	<10	120	<0.5	2	0.95	<0.5	8	1	21	4.96
S837183		2.70	0.015	<0.2	0.84	6	<10	80	<0.5	2	2.03	<0.5	7	2	6	4.52
S837184		2.83	0.023	<0.2	0.38	11	<10	30	<0.5	<2	1.11	<0.5	10	1	12	4.46
S837185		2.39	0.034	0.2	0.41	6	<10	110	<0.5	<2	1.66	<0.5	8	1	16	4.13
S837186		2.85	0.007	0.2	0.35	17	<10	100	<0.5	<2	1.47	<0.5	8	1	65	4.40
S837187		1.08	0.015	0.5	0.46	9	<10	30	<0.5	2	1.28	<0.5	10	1	601	6.19
S837188		1.75	0.015	0.4	0.46	8	<10	50	<0.5	<2	1.22	<0.5	9	1	527	6.21
S837189		2.61	0.015	0.3	0.35	11	<10	60	<0.5	<2	1.17	<0.5	11	2	127	4.95
S837190		1.37	<0.001	<0.2	0.55	<2	<10	60	<0.5	<2	0.55	<0.5	3	5	3	1.71
S837191		2.51	0.011	0.2	0.36	8	<10	70	<0.5	<2	0.83	<0.5	10	2	13	4.32
S837192		3.09	0.011	<0.2	0.34	10	<10	90	<0.5	<2	0.85	<0.5	9	2	15	4.48
S837193		2.81	0.073	0.5	0.35	29	<10	50	<0.5	3	0.49	<0.5	11	1	138	4.80
S837194		2.77	0.131	0.8	0.25	16	<10	20	<0.5	3	0.69	<0.5	12	3	339	6.20
S837195		2.20	0.019	0.3	0.30	10	<10	30	<0.5	2	1.30	<0.5	9	2	76	5.03
S837196		2.55	0.027	<0.2	0.25	8	<10	30	<0.5	<2	0.85	<0.5	7	4	9	3.65
S837197		2.73	0.004	<0.2	0.28	8	<10	50	<0.5	<2	0.56	<0.5	8	3	4	3.77
S837198		3.01	0.001	<0.2	0.40	7	<10	90	<0.5	<2	0.80	<0.5	8	3	7	3.61
S837199		1.38	0.027	0.3	0.52	11	<10	90	<0.5	<2	0.96	<0.5	10	1	18	4.41
S837200		1.39	0.026	0.3	0.44	12	<10	40	<0.5	<2	1.03	<0.5	9	1	21	3.92
S837201		2.68	0.015	<0.2	0.36	17	<10	70	<0.5	2	1.57	<0.5	7	1	39	2.96
S837202		2.36	0.006	<0.2	0.38	5	<10	330	<0.5	<2	1.46	<0.5	7	1	1	3.66
S837203		2.49	0.007	<0.2	0.37	7	<10	390	<0.5	<2	1.39	<0.5	8	1	1	3.63



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
S837164		<10	<1	0.31	20	0.97	2590	<1	0.02	1	1340	3	0.02	<2	4	190
S837165		<10	1	0.30	20	0.83	2730	<1	0.03	<1	1230	4	0.01	<2	3	229
S837166		<10	<1	0.30	20	0.96	2260	<1	0.03	<1	1340	4	0.02	<2	4	189
S837167		10	<1	0.29	20	1.21	2490	<1	0.02	<1	1330	3	0.02	<2	3	178
S837168		<10	<1	0.30	20	0.97	2130	<1	0.03	<1	1340	3	0.01	<2	4	160
S837169		<10	<1	0.32	20	0.90	2690	<1	0.03	<1	1390	3	0.09	<2	3	185
S837170		<10	<1	0.09	10	0.25	380	<1	0.06	1	500	3	0.02	<2	1	31
S837171		<10	<1	0.32	20	0.80	2230	<1	0.02	<1	1350	6	0.36	<2	2	125
S837172		<10	<1	0.30	20	0.98	3060	<1	0.02	2	1320	5	0.48	<2	3	186
S837173		<10	<1	0.32	20	0.96	2500	<1	0.03	2	1340	4	0.67	<2	3	109
S837174		10	<1	0.33	20	0.87	2260	<1	0.03	1	1170	3	0.49	<2	3	118
S837175		10	<1	0.28	20	1.41	2950	<1	0.03	<1	1360	2	0.54	<2	4	81
S837176		10	<1	0.29	20	1.37	3120	<1	0.03	2	1350	3	0.62	<2	4	78
S837177		10	<1	0.24	10	1.22	2860	<1	0.02	1	1240	4	1.23	<2	3	83
S837178		<10	<1	0.26	10	1.45	3050	<1	0.02	1	1370	2	0.41	<2	4	96
S837179		10	<1	0.28	10	1.51	2830	<1	0.02	3	1370	4	0.72	<2	4	89
S837180		<10	<1	0.30	10	1.14	2410	<1	0.02	1	1290	7	1.65	<2	3	65
S837181		<10	<1	0.32	10	0.60	1850	6	0.01	<1	1200	34	3.15	<2	2	72
S837182		<10	<1	0.33	20	0.75	2290	5	0.02	1	1230	5	1.49	<2	2	84
S837183		<10	<1	0.33	20	0.91	2720	2	0.01	<1	1220	5	0.87	<2	3	142
S837184		<10	<1	0.31	10	0.59	1960	3	0.01	1	1150	5	2.09	<2	2	81
S837185		<10	<1	0.36	10	0.73	2400	1	0.02	<1	1110	4	1.31	<2	3	127
S837186		<10	<1	0.34	10	0.73	2700	<1	0.01	1	1210	7	1.29	<2	2	101
S837187		<10	<1	0.31	10	0.74	3050	2	0.01	<1	1050	12	2.44	<2	2	88
S837188		<10	<1	0.29	10	0.76	3390	1	0.01	<1	1140	6	1.96	<2	3	82
S837189		<10	<1	0.34	10	0.69	2900	1	0.01	1	1180	8	1.63	<2	2	85
S837190		<10	<1	0.10	10	0.27	408	<1	0.06	1	540	3	0.02	<2	1	32
S837191		<10	<1	0.34	10	0.61	2420	2	0.01	<1	1180	13	1.40	<2	2	80
S837192		<10	<1	0.31	20	0.71	2490	1	0.02	1	1150	12	1.02	<2	2	77
S837193		<10	<1	0.32	10	0.59	1905	2	0.01	1	1040	14	1.92	<2	2	55
S837194		<10	<1	0.23	10	0.54	2060	5	0.01	1	710	36	3.13	<2	2	55
S837195		<10	<1	0.28	10	0.66	2340	1	0.01	1	1010	17	2.08	<2	2	96
S837196		<10	<1	0.24	10	0.41	1630	<1	<0.01	1	830	16	1.89	<2	2	75
S837197		<10	<1	0.27	10	0.42	1895	<1	<0.01	1	900	8	1.53	<2	2	52
S837198		<10	<1	0.28	10	0.46	2070	<1	0.01	1	1030	6	1.10	<2	2	59
S837199		<10	<1	0.31	10	0.56	2250	2	0.01	2	1090	10	1.87	<2	2	65
S837200		<10	<1	0.29	10	0.48	1975	1	0.01	<1	1070	7	1.92	<2	2	70
S837201		<10	<1	0.35	10	0.47	1925	<1	0.01	<1	1040	4	0.87	<2	3	95
S837202		<10	<1	0.39	20	0.54	2560	<1	0.01	<1	1100	6	0.71	<2	3	74
S837203		<10	<1	0.38	20	0.54	2580	<1	0.01	1	1090	6	0.66	<2	3	77



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
S837164		<20	0.01	<10	<10	53	<10	92
S837165		<20	0.01	<10	<10	50	<10	67
S837166		<20	0.02	<10	<10	54	<10	89
S837167		<20	0.01	<10	<10	44	<10	127
S837168		<20	0.01	<10	<10	55	<10	70
S837169		<20	0.01	<10	<10	43	<10	84
S837170		<20	0.07	<10	<10	37	<10	35
S837171		<20	0.01	<10	<10	35	<10	108
S837172		<20	<0.01	<10	<10	29	<10	134
S837173		<20	<0.01	<10	<10	29	<10	121
S837174		<20	0.01	<10	<10	43	<10	106
S837175		<20	<0.01	<10	<10	52	<10	162
S837176		<20	<0.01	<10	<10	52	<10	166
S837177		<20	<0.01	<10	<10	46	<10	147
S837178		<20	<0.01	<10	<10	52	<10	173
S837179		<20	<0.01	<10	<10	52	<10	178
S837180		<20	<0.01	<10	<10	36	<10	140
S837181		<20	<0.01	<10	<10	15	<10	76
S837182		<20	<0.01	<10	<10	21	<10	111
S837183		<20	<0.01	<10	<10	27	<10	104
S837184		<20	<0.01	<10	<10	16	<10	80
S837185		<20	<0.01	<10	<10	14	<10	83
S837186		<20	<0.01	<10	<10	14	<10	112
S837187		<20	<0.01	<10	<10	17	<10	124
S837188		<20	<0.01	<10	<10	19	<10	147
S837189		<20	<0.01	<10	<10	14	<10	128
S837190		<20	0.08	<10	<10	41	<10	36
S837191		<20	<0.01	<10	<10	13	<10	113
S837192		<20	<0.01	<10	<10	16	<10	128
S837193		<20	<0.01	<10	<10	13	<10	120
S837194		<20	<0.01	<10	<10	13	<10	164
S837195		<20	<0.01	<10	<10	13	<10	100
S837196		<20	<0.01	<10	<10	10	<10	67
S837197		<20	<0.01	<10	<10	11	<10	90
S837198		<20	<0.01	<10	<10	16	<10	84
S837199		<20	<0.01	<10	<10	18	<10	99
S837200		<20	<0.01	<10	<10	14	<10	77
S837201		<20	<0.01	<10	<10	11	<10	71
S837202		<20	<0.01	<10	<10	14	<10	77
S837203		<20	<0.01	<10	<10	14	<10	83



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %
S837204		2.87	0.013	<0.2	0.37	5	<10	250	<0.5	<2	1.39	<0.5	8	1	3	4.00
S837205		2.75	0.012	0.2	0.33	9	<10	60	<0.5	2	1.49	<0.5	9	2	4	4.08
S837206		2.57	0.022	<0.2	0.32	7	<10	100	<0.5	<2	1.60	<0.5	7	3	6	3.71
S837207		2.64	0.041	<0.2	0.35	5	<10	140	<0.5	<2	1.43	<0.5	8	2	4	3.68
S837208		2.37	0.003	<0.2	0.34	3	<10	820	<0.5	2	1.34	<0.5	5	2	4	3.24
S837209		2.77	<0.001	<0.2	0.31	<2	<10	1000	<0.5	<2	1.59	<0.5	5	2	8	2.74
S837210		1.60	<0.001	<0.2	0.55	<2	<10	60	<0.5	<2	0.48	<0.5	3	5	4	1.75
S837211		2.81	<0.001	<0.2	0.33	2	<10	2200	<0.5	<2	2.21	<0.5	5	2	5	3.06
S837212		2.90	0.002	<0.2	0.34	3	<10	730	<0.5	<2	2.23	<0.5	5	4	1	3.20
S837213		2.41	0.016	<0.2	0.34	2	<10	380	0.5	3	2.34	<0.5	6	1	<1	3.97
S837214		2.54	0.016	<0.2	0.33	4	<10	180	<0.5	<2	2.11	<0.5	7	1	1	3.84
S837215		2.68	0.024	<0.2	0.37	6	<10	170	<0.5	<2	1.85	<0.5	6	1	1	4.10
S837216		2.27	0.010	<0.2	0.31	2	<10	210	<0.5	<2	2.18	<0.5	6	1	<1	3.65
S837217		2.76	0.028	<0.2	0.76	2	<10	90	<0.5	3	2.04	<0.5	8	1	1	4.73
S837218		3.03	0.326	1.1	0.87	4	<10	130	<0.5	2	2.69	<0.5	7	1	817	4.07
S837219		1.54	0.064	<0.2	0.77	3	<10	90	0.5	2	3.17	<0.5	7	1	5	3.52
S837220		1.06	0.049	<0.2	0.83	3	<10	130	<0.5	<2	3.89	<0.5	7	1	5	3.75
S837221		2.89	0.061	<0.2	1.10	<2	<10	340	<0.5	3	2.14	<0.5	7	1	1	3.87
S837222		2.61	0.004	<0.2	1.21	<2	<10	280	<0.5	<2	2.64	<0.5	8	1	1	3.73
S837223		0.07	0.276	1.9	1.74	29	10	70	<0.5	2	0.75	3.7	12	24	2320	4.73
S837224		1.34	0.002	<0.2	1.47	<2	<10	850	0.7	2	7.5	<0.5	24	24	93	5.40
S837225		1.63	0.003	<0.2	1.31	<2	<10	840	1.0	2	5.56	<0.5	23	24	113	5.36
S837226		2.07	0.001	<0.2	1.68	<2	<10	500	0.8	2	5.63	<0.5	22	10	118	5.32
S837227		2.29	0.001	<0.2	2.36	<2	<10	910	1.2	<2	5.66	<0.5	33	11	128	6.58
S837228		2.44	0.001	<0.2	2.33	<2	<10	1090	0.9	<2	6.99	<0.5	33	14	118	6.37
S837229		2.41	0.003	<0.2	2.42	2	<10	710	1.4	4	5.43	<0.5	37	14	132	7.29
S837230		1.41	<0.001	<0.2	0.49	<2	<10	50	<0.5	<2	0.47	<0.5	3	4	2	1.58
S837231		2.11	0.004	<0.2	1.89	<2	<10	820	0.8	<2	9.1	<0.5	29	65	75	5.77
S837232		2.23	0.001	<0.2	1.75	<2	<10	710	0.9	3	9.7	<0.5	27	68	86	5.27
S837233		2.61	<0.001	<0.2	1.77	2	<10	1110	0.8	2	5.91	<0.5	26	12	113	5.67



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Project: Forrest Kerr

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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
S837204		<10	<1	0.37	20	0.57	2560	<1	0.01	<1	1050	10	0.88	<2	3	77
S837205		<10	<1	0.33	10	0.58	2380	<1	0.01	1	970	7	1.55	<2	3	97
S837206		<10	1	0.31	10	0.63	2120	<1	0.01	<1	1010	5	1.34	<2	3	88
S837207		<10	<1	0.35	10	0.59	2140	<1	0.01	<1	1020	6	0.92	<2	3	87
S837208		<10	<1	0.34	10	0.57	2180	<1	0.01	1	1050	4	0.32	<2	3	80
S837209		<10	<1	0.32	20	0.56	2080	<1	0.01	1	1020	3	0.05	<2	3	94
S837210		<10	<1	0.09	10	0.26	409	<1	0.06	<1	520	2	0.02	<2	1	50
S837211		<10	<1	0.33	10	0.66	2320	<1	0.01	<1	980	3	0.14	<2	3	170
S837212		<10	<1	0.33	20	0.64	2610	<1	0.01	1	1070	5	0.21	<2	3	144
S837213		<10	<1	0.35	20	0.78	3170	<1	0.01	<1	1140	7	0.35	<2	3	109
S837214		<10	<1	0.34	20	0.71	2770	<1	0.02	<1	1110	6	0.76	<2	3	86
S837215		<10	<1	0.33	10	0.72	2540	<1	0.02	<1	1130	5	0.97	<2	3	99
S837216		<10	1	0.33	10	0.75	2610	<1	0.02	<1	1060	4	0.77	<2	2	115
S837217		<10	1	0.30	10	0.78	3070	<1	0.01	<1	1130	4	1.07	<2	2	93
S837218		<10	<1	0.32	10	0.68	2740	<1	0.02	<1	1140	5	1.12	<2	3	130
S837219		<10	<1	0.34	20	0.55	2600	<1	0.02	<1	1150	4	0.89	<2	2	125
S837220		<10	<1	0.34	20	0.57	3030	<1	0.02	<1	1040	5	0.93	<2	2	125
S837221		10	<1	0.33	20	0.84	2770	<1	0.02	<1	1320	2	0.44	<2	3	107
S837222		<10	<1	0.30	20	0.77	2770	<1	0.01	1	1150	4	0.77	2	3	130
S837223		10	<1	0.32	10	0.54	908	17	0.06	18	680	58	2.80	<2	2	62
S837224		10	<1	0.17	20	2.36	1510	<1	0.02	26	1950	4	0.04	<2	12	461
S837225		10	<1	0.27	20	1.76	1285	<1	0.02	22	2180	5	0.11	<2	12	287
S837226		10	<1	0.21	20	1.71	1310	<1	0.03	10	2320	4	0.10	<2	9	360
S837227		10	1	0.25	20	2.66	1120	<1	0.02	24	2860	5	0.04	<2	14	426
S837228		10	<1	0.16	20	2.74	1315	<1	0.02	23	2780	5	0.05	<2	14	512
S837229		10	<1	0.25	20	2.75	1190	1	0.02	30	3270	6	0.05	<2	18	407
S837230		<10	<1	0.08	10	0.25	375	<1	0.06	1	500	3	0.02	<2	1	30
S837231		10	1	0.18	20	3.54	1440	<1	0.01	37	2060	4	0.04	<2	19	594
S837232		10	<1	0.20	20	3.04	1465	<1	0.01	42	2040	4	0.06	<2	17	641
S837233		10	<1	0.21	20	2.55	1215	<1	0.01	14	2220	4	0.22	<2	12	426



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
S837204		<20	<0.01	<10	<10	13	<10	92
S837205		<20	<0.01	<10	<10	13	<10	76
S837206		<20	<0.01	<10	<10	11	<10	86
S837207		<20	<0.01	<10	<10	14	<10	105
S837208		<20	<0.01	<10	<10	15	<10	79
S837209		<20	<0.01	<10	<10	15	<10	71
S837210		<20	0.08	<10	<10	41	<10	35
S837211		<20	<0.01	<10	<10	17	<10	74
S837212		<20	<0.01	<10	<10	14	<10	71
S837213		<20	<0.01	<10	<10	14	<10	120
S837214		<20	<0.01	<10	<10	12	<10	108
S837215		<20	<0.01	<10	<10	12	<10	103
S837216		<20	<0.01	<10	<10	10	<10	99
S837217		<20	<0.01	<10	<10	19	<10	129
S837218		<20	<0.01	<10	<10	21	<10	92
S837219		<20	<0.01	<10	<10	19	<10	91
S837220		<20	<0.01	<10	<10	20	<10	92
S837221		<20	<0.01	<10	<10	27	<10	119
S837222		<20	<0.01	<10	<10	25	<10	103
S837223		<20	0.03	<10	<10	28	<10	682
S837224		<20	0.01	<10	<10	117	<10	73
S837225		<20	0.01	<10	<10	92	<10	84
S837226		<20	<0.01	<10	<10	101	<10	89
S837227		<20	0.01	<10	<10	159	<10	84
S837228		<20	0.01	<10	<10	181	<10	85
S837229		<20	0.01	<10	<10	176	<10	116
S837230		<20	0.07	<10	<10	39	<10	32
S837231		<20	<0.01	<10	<10	118	<10	74
S837232		<20	<0.01	<10	<10	103	<10	67
S837233		<20	<0.01	<10	<10	106	<10	94



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CERTIFICATE OF ANALYSIS TR17188182

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Terrace located at 2912 Molitor Street, Terrace, BC, Canada.			
	CRU-31	CRU-QC	LOG-22	LOG-24
	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-ICP21	ME-ICP41		



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 19-JAN-2018
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CERTIFICATE TR17188183

Project: Forrest Kerr

This report is for 150 Drill Core samples submitted to our lab in Terrace, BC, Canada on 30-AUG-2017.

The following have access to data associated with this certificate:

DEIRDRE HEFFERNAN	CORNELL MCDOWELL
-------------------	------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
LOG-24	Pulp Login - Rcd w/o Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Zn-OG46	Ore Grade Zn - Aqua Regia	ICP-AES
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: **ABEN RESOURCES LTD.**
ATTN: ALS GEOCHEMISTRY

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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Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
S837234		2.55	0.001	<0.2	1.69	2	<10	1210	0.8	4	7.7	<0.5	23	17	94	5.18
S837235		2.46	0.001	<0.2	1.71	<2	10	580	0.9	2	5.76	<0.5	30	13	123	6.36
S837236		2.49	0.001	0.2	1.40	3	10	510	0.9	<2	5.50	<0.5	30	9	115	6.27
S837237		2.53	0.001	0.2	0.50	3	10	1560	0.9	<2	7.1	<0.5	21	3	95	5.27
S837238		2.37	0.002	0.2	0.94	4	<10	490	0.7	<2	6.00	<0.5	27	5	105	5.97
S837239		1.07	0.002	<0.2	0.60	5	<10	720	0.6	2	5.77	<0.5	25	6	98	5.75
S837240		1.14	0.001	0.3	0.61	6	<10	610	0.6	<2	6.26	<0.5	27	4	102	5.70
S837241		1.85	<0.001	<0.2	0.58	3	10	1030	0.8	<2	5.65	<0.5	25	7	106	5.36
S837242		1.41	<0.001	0.2	0.46	4	<10	690	0.8	2	6.6	<0.5	26	7	104	5.94
S837243		1.56	<0.001	0.4	0.44	8	10	590	0.8	<2	6.5	<0.5	22	3	117	5.01
S837244		2.51	0.002	0.2	0.48	4	10	710	0.9	<2	6.57	<0.5	18	3	87	5.30
S837245		2.65	0.001	0.5	0.44	10	10	340	0.6	<2	7.9	<0.5	27	11	107	5.42
S837246		2.18	0.001	0.4	0.49	15	10	200	0.8	<2	7.5	0.9	26	14	106	5.44
S837247		1.93	<0.001	0.2	0.46	6	10	550	0.7	<2	6.54	<0.5	17	3	77	4.82
S837248		2.30	<0.001	0.4	0.44	15	10	300	0.7	2	7.0	<0.5	29	21	93	5.47
S837249		2.40	<0.001	0.4	0.40	13	<10	600	0.7	<2	4.11	<0.5	14	4	42	3.85
S837250		1.40	<0.001	<0.2	0.53	<2	<10	80	<0.5	<2	0.54	<0.5	3	5	2	1.57
S837251		1.71	0.003	0.4	0.40	13	10	370	0.7	<2	4.04	1.0	17	6	73	4.23
S837252		1.26	0.002	0.6	0.40	38	10	180	0.7	<2	6.17	0.6	27	11	95	4.15
S837253		2.37	<0.001	0.3	0.35	20	10	520	0.5	<2	6.64	<0.5	22	4	113	4.40
S837254		2.20	<0.001	0.2	0.45	7	<10	180	0.5	2	6.65	<0.5	18	5	74	4.67
S837255		2.17	0.001	0.3	0.42	11	<10	690	<0.5	<2	7.3	<0.5	16	6	67	4.26
S837256		2.20	<0.001	0.2	0.23	4	<10	290	<0.5	<2	18.7	<0.5	10	3	56	3.02
S837257		2.49	0.001	0.3	0.38	25	<10	230	0.7	<2	6.51	<0.5	18	5	80	4.08
S837258		2.63	0.006	0.4	0.39	26	<10	270	0.7	<2	5.50	<0.5	18	8	78	4.01
S837259		1.30	0.002	0.3	0.38	19	<10	610	0.6	<2	5.60	<0.5	19	7	104	4.47
S837260		1.48	0.001	0.4	0.39	21	<10	590	0.6	<2	5.53	<0.5	21	6	108	4.45
S837261		2.22	0.002	0.4	0.39	17	<10	680	0.6	<2	5.13	<0.5	22	7	110	4.38
S837262		2.34	<0.001	0.3	0.37	25	10	460	0.6	<2	5.84	0.5	19	8	65	3.87
S837263		1.82	<0.001	0.2	0.35	33	10	540	0.6	<2	5.11	0.6	18	8	52	3.78
S837264		2.83	0.001	0.5	0.34	26	<10	920	0.6	<2	6.21	<0.5	18	9	57	3.78
S837265		2.36	0.003	0.6	0.39	28	<10	360	0.7	<2	3.91	<0.5	13	3	41	3.22
S837266		2.63	<0.001	0.2	0.40	13	<10	1110	0.7	<2	4.23	<0.5	10	2	29	2.89
S837267		2.62	<0.001	0.2	0.38	<2	<10	1630	0.5	<2	3.73	<0.5	5	1	6	2.21
S837268		2.07	0.002	0.2	0.41	13	<10	70	0.8	<2	3.17	<0.5	9	1	30	2.79
S837269		1.62	<0.001	0.2	0.35	10	<10	40	0.7	<2	2.43	<0.5	7	1	12	2.47
S837270		1.71	<0.001	<0.2	0.54	<2	<10	70	<0.5	<2	0.49	<0.5	3	5	5	1.61
S837271		2.12	<0.001	<0.2	0.35	5	<10	20	0.5	<2	4.41	<0.5	6	1	11	2.61
S837272		2.28	0.001	<0.2	0.39	2	<10	40	0.6	<2	3.74	<0.5	7	1	11	3.17
S837273		2.34	<0.001	0.2	0.30	3	<10	30	<0.5	<2	5.22	<0.5	6	1	7	2.78



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
S837234		10	<1	0.21	10	2.20	1285	<1	0.01	18	2010	7	0.11	<2	11	540
S837235		<10	<1	0.28	20	2.88	1260	<1	0.01	20	2510	5	0.08	<2	13	350
S837236		10	<1	0.26	20	2.38	1170	1	0.01	18	2550	5	0.22	<2	14	343
S837237		<10	<1	0.32	10	2.24	1280	<1	0.01	14	2350	5	0.20	<2	9	399
S837238		<10	<1	0.24	10	2.41	1200	1	0.02	14	2590	7	0.50	<2	12	292
S837239		<10	<1	0.23	10	2.12	1245	2	0.02	18	2150	7	0.37	<2	11	268
S837240		<10	<1	0.25	10	2.22	1280	2	0.02	16	2270	8	0.55	<2	10	290
S837241		<10	<1	0.32	20	1.89	1200	<1	0.02	18	2210	4	0.17	<2	12	274
S837242		<10	<1	0.28	10	2.04	1335	1	0.01	20	2200	6	0.38	<2	12	295
S837243		<10	<1	0.27	10	2.12	1180	1	0.01	32	2110	9	0.40	<2	10	364
S837244		<10	<1	0.30	10	2.27	1255	1	0.02	29	2270	7	0.19	<2	12	362
S837245		<10	<1	0.23	10	1.86	1320	4	0.03	28	2330	25	0.97	3	11	349
S837246		<10	<1	0.27	10	2.15	1335	3	0.03	38	2460	28	1.06	3	13	366
S837247		<10	<1	0.27	10	1.99	1255	1	0.04	20	2160	8	0.27	<2	9	291
S837248		<10	<1	0.23	10	2.39	1345	2	0.03	80	1980	19	0.96	<2	12	326
S837249		<10	<1	0.27	10	1.51	1100	1	0.03	25	1390	9	0.53	2	6	229
S837250		<10	1	0.09	10	0.27	405	<1	0.06	1	500	4	0.01	<2	1	33
S837251		<10	<1	0.26	<10	1.35	1095	1	0.03	27	1520	15	0.84	2	8	222
S837252		<10	<1	0.26	<10	2.12	1045	3	0.04	91	1270	18	0.62	5	8	391
S837253		<10	<1	0.25	<10	2.22	1120	2	0.03	57	1300	11	0.40	2	8	354
S837254		<10	<1	0.23	10	1.86	1040	<1	0.04	19	1000	4	0.20	<2	9	285
S837255		<10	<1	0.22	<10	2.18	1050	<1	0.04	43	970	8	0.31	<2	8	340
S837256		<10	<1	0.15	<10	1.53	1350	1	0.03	13	530	7	0.27	<2	4	660
S837257		<10	<1	0.27	<10	1.94	1095	1	0.04	50	1190	10	0.40	3	8	306
S837258		<10	<1	0.27	<10	1.87	1015	1	0.04	76	1180	12	0.37	3	7	295
S837259		<10	<1	0.24	<10	2.03	1135	1	0.04	72	1310	10	0.34	2	8	311
S837260		<10	<1	0.26	<10	1.98	1130	1	0.04	73	1340	11	0.37	<2	8	308
S837261		<10	<1	0.25	<10	1.82	1035	2	0.04	84	1360	12	0.52	3	8	294
S837262		<10	<1	0.26	<10	1.92	927	1	0.04	84	1040	11	0.39	3	7	317
S837263		<10	<1	0.24	<10	1.67	837	2	0.04	115	1030	14	0.58	5	7	291
S837264		<10	<1	0.24	<10	2.16	1080	1	0.04	79	980	13	0.33	2	8	354
S837265		<10	<1	0.31	10	0.98	1730	1	0.04	23	1170	14	0.73	3	6	191
S837266		<10	<1	0.32	10	1.10	1740	<1	0.03	15	1260	8	0.36	2	4	232
S837267		<10	<1	0.32	20	0.73	1955	<1	0.03	2	1230	3	0.18	<2	3	203
S837268		<10	<1	0.31	10	0.57	1650	1	0.04	4	1210	11	1.59	<2	4	187
S837269		<10	1	0.25	10	0.22	909	1	0.04	2	1050	12	2.52	<2	2	201
S837270		<10	<1	0.10	10	0.25	396	<1	0.07	1	510	2	0.02	<2	1	33
S837271		<10	1	0.21	10	0.08	1140	1	0.05	<1	980	12	2.95	<2	1	246
S837272		<10	<1	0.24	20	0.06	932	1	0.05	<1	1110	13	3.62	<2	1	216
S837273		<10	1	0.16	20	0.07	1210	1	0.06	<1	990	10	3.14	<2	1	230



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Zn-OG46
		Th	Ti	Ti	U	V	W	Zn	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm	%
		20	0.01	10	10	1	10	2	0.001
S837234		<20	<0.01	<10	<10	88	<10	83	
S837235		<20	<0.01	<10	<10	104	<10	100	
S837236		<20	<0.01	<10	<10	109	<10	111	
S837237		<20	<0.01	<10	<10	39	<10	79	
S837238		<20	<0.01	<10	<10	96	<10	92	
S837239		<20	<0.01	<10	<10	79	<10	98	
S837240		<20	<0.01	<10	<10	75	<10	90	
S837241		<20	<0.01	<10	<10	65	<10	89	
S837242		<20	<0.01	<10	<10	50	<10	94	
S837243		<20	<0.01	<10	<10	48	<10	76	
S837244		<20	<0.01	<10	<10	58	<10	82	
S837245		<20	<0.01	<10	<10	73	<10	80	
S837246		<20	<0.01	<10	<10	53	<10	101	
S837247		<20	<0.01	<10	<10	53	<10	82	
S837248		<20	<0.01	<10	<10	52	<10	76	
S837249		<20	<0.01	<10	<10	27	<10	87	
S837250		<20	0.07	<10	<10	38	<10	36	
S837251		<20	<0.01	<10	<10	32	<10	171	
S837252		<20	<0.01	<10	<10	24	<10	87	
S837253		<20	<0.01	<10	<10	27	<10	49	
S837254		<20	<0.01	<10	<10	48	<10	66	
S837255		<20	<0.01	<10	<10	36	<10	61	
S837256		<20	<0.01	<10	<10	20	<10	39	
S837257		<20	<0.01	<10	<10	22	<10	68	
S837258		<20	<0.01	<10	<10	20	<10	76	
S837259		<20	<0.01	<10	<10	31	<10	72	
S837260		<20	<0.01	<10	<10	30	<10	70	
S837261		<20	<0.01	<10	<10	30	<10	64	
S837262		<20	<0.01	<10	<10	18	<10	80	
S837263		<20	<0.01	<10	<10	20	<10	103	
S837264		<20	<0.01	<10	<10	20	<10	61	
S837265		<20	<0.01	<10	<10	18	<10	92	
S837266		<20	0.01	<10	<10	23	<10	69	
S837267		<20	<0.01	<10	<10	22	<10	55	
S837268		<20	<0.01	<10	<10	13	<10	53	
S837269		<20	<0.01	<10	<10	5	<10	35	
S837270		<20	0.08	<10	<10	39	<10	35	
S837271		<20	<0.01	<10	<10	8	<10	34	
S837272		<20	<0.01	<10	<10	7	<10	34	
S837273		<20	<0.01	<10	<10	7	<10	44	



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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
S837274		2.30	<0.001	0.2	0.34	4	<10	30	<0.5	<2	4.27	<0.5	6	1	9	2.83
S837275		2.22	0.005	0.3	0.40	14	<10	20	0.6	<2	3.17	0.5	7	1	10	2.71
S837276		2.58	0.003	<0.2	0.37	4	<10	30	0.5	<2	4.30	0.5	6	1	7	2.52
S837277		2.51	<0.001	0.2	0.34	<2	<10	110	0.5	<2	4.11	<0.5	5	2	6	1.91
S837278		2.52	<0.001	0.2	0.36	3	<10	40	0.6	<2	3.68	<0.5	6	1	7	2.36
S837279		1.15	<0.001	0.2	0.37	3	<10	90	0.6	<2	4.10	<0.5	5	1	9	2.40
S837280		1.19	<0.001	0.2	0.39	3	<10	120	0.6	<2	3.71	<0.5	6	1	9	2.29
S837281		2.23	0.004	0.3	0.36	5	<10	50	0.6	<2	3.71	0.8	6	1	7	2.69
S837282		2.47	<0.001	0.3	0.37	3	<10	50	0.5	<2	3.93	2.0	6	1	7	2.54
S837283		2.43	<0.001	0.3	0.48	4	<10	70	0.5	<2	3.88	0.6	6	2	8	2.44
S837284		2.52	<0.001	0.3	0.60	2	<10	40	0.5	<2	3.40	<0.5	6	1	14	2.69
S837285		2.66	<0.001	0.4	0.31	3	<10	60	0.5	<2	3.72	<0.5	6	1	12	2.62
S837286		2.40	<0.001	0.3	0.32	3	<10	40	<0.5	<2	3.60	<0.5	6	1	14	2.64
S837287		2.30	0.002	0.4	0.31	<2	<10	60	0.5	<2	3.77	<0.5	7	1	11	2.91
S837288		2.60	0.002	0.3	0.34	3	<10	90	0.6	2	4.40	1.1	6	1	8	2.65
S837289		2.64	0.001	0.2	0.39	3	<10	80	0.7	<2	3.38	0.6	7	1	7	2.70
S837290		1.25	<0.001	<0.2	0.54	<2	<10	50	<0.5	<2	0.50	<0.5	3	4	3	1.56
S837291		2.33	0.001	0.3	0.35	4	<10	80	0.6	<2	3.43	<0.5	6	1	8	2.51
S837292		2.42	<0.001	0.2	0.37	5	<10	90	0.6	<2	3.78	1.0	6	1	9	2.75
S837293		2.39	<0.001	0.2	0.41	6	<10	110	0.6	<2	3.13	0.5	6	1	7	2.76
S837294		2.24	<0.001	0.3	0.67	4	<10	160	0.6	<2	3.27	<0.5	7	1	8	2.79
S837295		2.70	<0.001	0.3	0.53	<2	<10	490	0.6	<2	4.71	<0.5	4	1	6	2.18
S837296		2.38	0.004	0.3	0.39	6	<10	140	0.6	2	5.09	<0.5	6	1	12	2.23
S837297		2.33	0.002	0.3	0.88	3	<10	520	0.6	<2	2.50	<0.5	7	1	10	2.50
S837298		2.23	0.003	0.4	0.84	2	<10	490	0.6	<2	2.77	0.5	6	1	6	2.37
S837299		1.14	0.002	0.3	0.84	3	<10	590	0.6	<2	3.85	<0.5	6	1	8	2.26
S837300		1.59	0.001	0.2	0.90	<2	<10	1000	0.6	<2	3.42	<0.5	5	1	10	2.25
S837301		2.24	0.002	0.3	0.90	3	<10	700	0.6	<2	3.50	<0.5	6	1	8	2.24
S837302		2.46	0.025	0.4	0.90	5	<10	340	0.6	<2	2.91	5.8	6	1	15	2.15
S837303		2.50	0.008	0.5	0.92	7	<10	270	0.9	<2	2.85	<0.5	9	1	48	2.76
S837304		2.49	0.001	0.2	1.07	<2	<10	840	0.8	<2	3.99	<0.5	6	1	8	2.77
S837305		2.83	<0.001	<0.2	1.21	<2	<10	760	0.8	<2	3.40	<0.5	7	1	6	2.94
S837306		2.21	0.011	0.2	0.92	5	<10	260	0.8	<2	3.28	<0.5	7	1	11	2.99
S837307		2.92	0.005	<0.2	1.09	5	<10	350	0.7	<2	4.32	<0.5	6	1	9	2.81
S837308		2.30	0.008	0.4	1.37	4	<10	440	0.7	<2	2.81	<0.5	7	1	498	2.90
S837309		2.78	0.001	1.1	1.32	2	<10	1600	0.5	<2	2.65	<0.5	6	1	1350	2.59
S837310		1.46	<0.001	<0.2	0.58	<2	<10	80	<0.5	<2	0.57	<0.5	3	5	5	1.67
S837311		2.21	<0.001	0.9	1.49	3	<10	1580	0.5	<2	2.34	<0.5	6	1	1260	2.78
S837312		2.48	0.002	1.0	1.40	2	<10	1500	0.6	<2	2.40	<0.5	5	1	1040	2.66
S837313		3.07	0.001	0.9	1.29	<2	<10	1660	0.6	<2	2.64	<0.5	5	1	645	2.62



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		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
S837274		<10	1	0.20	10	0.06	929	1	0.06	<1	1000	14	3.17	<2	1	252
S837275		<10	<1	0.25	10	0.14	966	2	0.05	<1	1120	17	2.92	<2	2	227
S837276		<10	<1	0.26	20	0.28	1725	1	0.05	<1	1040	18	2.36	<2	2	211
S837277		<10	1	0.26	20	0.32	1780	1	0.05	<1	970	11	1.33	<2	2	175
S837278		<10	1	0.26	20	0.18	1355	<1	0.06	<1	1090	12	2.27	<2	2	164
S837279		<10	<1	0.28	20	0.27	1600	1	0.06	<1	1110	11	1.75	<2	2	183
S837280		<10	<1	0.29	20	0.27	1510	<1	0.06	<1	1080	9	1.62	<2	2	166
S837281		<10	<1	0.27	20	0.12	1210	3	0.06	<1	1110	33	2.91	<2	1	170
S837282		<10	<1	0.26	20	0.12	1305	1	0.06	<1	1000	48	2.71	<2	1	161
S837283		<10	<1	0.24	20	0.24	1325	<1	0.06	<1	1050	72	2.07	<2	2	150
S837284		<10	<1	0.25	20	0.37	1425	<1	0.06	<1	1120	81	1.96	<2	2	148
S837285		<10	<1	0.23	20	0.21	1280	1	0.06	<1	1080	110	2.58	<2	2	143
S837286		<10	<1	0.23	10	0.26	1310	<1	0.06	<1	990	95	2.56	2	1	143
S837287		<10	<1	0.22	20	0.36	1530	1	0.06	<1	1050	128	2.76	<2	2	159
S837288		<10	<1	0.25	20	0.21	1480	1	0.05	<1	1050	40	2.71	2	2	182
S837289		<10	<1	0.28	20	0.25	1270	1	0.06	1	1110	27	2.60	<2	2	153
S837290		<10	1	0.09	10	0.24	383	<1	0.07	1	500	3	0.01	<2	1	35
S837291		<10	<1	0.25	20	0.20	1180	1	0.06	<1	1070	19	2.48	<2	1	145
S837292		<10	<1	0.25	20	0.26	1330	1	0.06	1	1080	106	2.69	<2	2	164
S837293		<10	<1	0.25	20	0.27	1170	<1	0.06	<1	1090	24	2.48	<2	2	135
S837294		<10	<1	0.30	20	0.45	1455	<1	0.06	1	1140	10	1.68	<2	2	149
S837295		<10	<1	0.32	20	0.41	1900	<1	0.05	<1	1060	9	0.70	<2	2	226
S837296		<10	<1	0.28	20	0.49	2190	3	0.05	1	1010	15	0.98	<2	2	282
S837297		<10	1	0.27	20	0.41	1745	2	0.05	<1	1040	8	0.64	<2	2	131
S837298		<10	<1	0.28	20	0.36	1555	2	0.06	<1	1050	60	0.55	<2	2	135
S837299		<10	<1	0.30	20	0.36	1825	1	0.05	<1	1040	31	0.55	<2	2	193
S837300		<10	<1	0.32	20	0.37	1730	2	0.05	<1	1100	19	0.41	<2	2	180
S837301		<10	<1	0.31	20	0.40	1815	2	0.05	<1	1080	14	0.52	<2	2	161
S837302		<10	1	0.34	20	0.35	1580	2	0.05	<1	1110	412	0.67	<2	1	135
S837303		<10	<1	0.30	20	0.47	1700	2	0.06	<1	1200	59	1.12	<2	2	146
S837304		<10	<1	0.31	20	0.61	2230	<1	0.06	<1	1190	27	0.33	<2	2	217
S837305		<10	1	0.27	20	0.73	1905	<1	0.06	1	1130	2	0.02	<2	2	151
S837306		<10	<1	0.28	20	0.52	1780	1	0.07	2	1110	12	1.64	<2	2	141
S837307		<10	<1	0.27	20	0.59	2170	1	0.07	<1	1370	8	0.92	<2	2	194
S837308		<10	<1	0.31	20	0.79	2390	2	0.06	1	1380	13	0.61	<2	2	143
S837309		<10	<1	0.31	20	0.83	2690	<1	0.06	1	1330	13	0.23	<2	2	139
S837310		<10	<1	0.10	10	0.27	402	<1	0.08	1	550	5	0.04	<2	1	38
S837311		<10	<1	0.29	20	0.92	2670	<1	0.05	1	1280	11	0.21	<2	2	124
S837312		<10	<1	0.34	20	0.79	2540	<1	0.05	<1	1370	166	0.19	<2	2	140
S837313		<10	<1	0.32	20	0.73	2690	<1	0.05	<1	1290	311	0.15	<2	2	163



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		Th	Ti	Ti	U	V	W	Zn	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm	%
		20	0.01	10	10	1	10	2	0.001
S837274		<20	<0.01	<10	<10	6	<10	38	
S837275		<20	<0.01	<10	<10	7	<10	73	
S837276		<20	<0.01	<10	<10	7	<10	73	
S837277		<20	<0.01	<10	<10	6	<10	52	
S837278		<20	<0.01	<10	<10	6	<10	71	
S837279		<20	<0.01	<10	<10	7	<10	72	
S837280		<20	<0.01	<10	<10	7	<10	83	
S837281		<20	<0.01	<10	<10	7	<10	120	
S837282		<20	<0.01	<10	<10	7	<10	201	
S837283		<20	<0.01	<10	<10	11	<10	79	
S837284		<20	<0.01	<10	<10	16	<10	61	
S837285		<20	<0.01	<10	<10	9	<10	36	
S837286		<20	<0.01	<10	<10	10	<10	39	
S837287		<20	<0.01	<10	<10	9	<10	63	
S837288		<20	<0.01	<10	<10	7	<10	142	
S837289		<20	<0.01	<10	<10	7	<10	107	
S837290		<20	0.08	<10	<10	38	<10	33	
S837291		<20	<0.01	<10	<10	8	<10	70	
S837292		<20	<0.01	<10	<10	9	<10	152	
S837293		<20	<0.01	<10	<10	10	<10	80	
S837294		<20	<0.01	<10	<10	14	<10	63	
S837295		<20	<0.01	<10	<10	9	<10	75	
S837296		<20	<0.01	<10	<10	8	<10	78	
S837297		<20	<0.01	<10	<10	22	<10	70	
S837298		<20	<0.01	<10	<10	26	<10	119	
S837299		<20	<0.01	<10	<10	19	<10	92	
S837300		<20	<0.01	<10	<10	23	<10	91	
S837301		<20	<0.01	<10	<10	17	<10	90	
S837302		<20	<0.01	<10	<10	15	<10	947	
S837303		<20	<0.01	<10	<10	16	<10	112	
S837304		<20	<0.01	<10	<10	22	<10	79	
S837305		<20	<0.01	<10	<10	30	<10	70	
S837306		<20	<0.01	<10	<10	15	<10	85	
S837307		<20	<0.01	<10	<10	15	<10	81	
S837308		<20	<0.01	<10	<10	19	<10	143	
S837309		<20	<0.01	<10	<10	26	<10	146	
S837310		<20	0.08	<10	<10	41	<10	35	
S837311		<20	<0.01	<10	<10	26	<10	181	
S837312		<20	<0.01	<10	<10	25	<10	174	
S837313		<20	<0.01	<10	<10	23	<10	172	



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Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
LOR		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
S837314		2.23	0.001	0.4	1.30	2	<10	1030	0.6	<2	2.21	<0.5	5	1	408	2.56
S837315		1.48	<0.001	0.2	1.08	<2	<10	970	0.7	<2	3.13	<0.5	6	1	156	2.34
S837316		2.23	0.001	0.2	1.15	<2	<10	620	0.8	<2	3.40	<0.5	7	1	17	2.57
S837317		2.37	0.014	<0.2	0.96	<2	<10	1940	0.6	<2	3.51	<0.5	6	1	34	2.38
S837318		2.31	<0.001	<0.2	0.98	<2	<10	1100	0.5	<2	3.09	<0.5	6	1	4	2.48
S837319		1.34	<0.001	0.2	1.11	<2	<10	790	<0.5	<2	3.03	<0.5	5	2	10	2.54
S837320		1.24	0.001	<0.2	1.08	<2	<10	850	<0.5	<2	3.32	<0.5	4	2	12	2.41
S837321		2.38	<0.001	0.4	1.45	<2	<10	570	0.5	2	2.49	<0.5	6	2	67	2.97
S837322		2.39	0.001	0.7	1.53	<2	<10	550	0.5	<2	2.22	<0.5	6	2	192	3.10
S837323		2.22	0.001	0.7	1.47	3	<10	1620	<0.5	<2	2.89	<0.5	5	2	371	3.02
S837324		2.08	<0.001	0.2	1.12	<2	<10	1480	0.5	<2	2.71	<0.5	6	2	35	2.51
S837325		2.15	<0.001	0.3	1.24	<2	<10	2430	0.5	<2	2.79	<0.5	6	2	140	2.61
S837326		2.53	0.004	13.5	1.29	6	<10	100	0.8	<2	1.42	0.6	6	1	8450	3.37
S837327		2.26	0.003	1.9	1.08	3	<10	1240	0.6	<2	2.72	2.7	5	1	547	2.50
S837328		2.39	0.014	<0.2	0.69	<2	<10	630	0.5	<2	3.49	<0.5	4	2	10	2.08
S837329		2.25	0.002	<0.2	0.63	<2	<10	1470	0.5	<2	4.42	<0.5	4	1	9	2.07
S837330		1.65	<0.001	<0.2	0.57	<2	<10	70	<0.5	<2	0.54	<0.5	3	6	3	1.58
S837331		2.48	0.008	<0.2	0.93	<2	<10	470	0.6	<2	3.70	<0.5	5	2	3	2.16
S837332		2.53	0.003	<0.2	0.97	<2	<10	980	0.5	<2	3.78	<0.5	5	2	2	2.13
S837333		2.47	0.003	<0.2	0.93	2	<10	1320	0.5	<2	3.30	<0.5	6	2	7	2.09
S837334		2.37	<0.001	<0.2	0.93	<2	<10	160	<0.5	<2	3.35	<0.5	4	2	3	2.18
S837335		2.36	0.001	<0.2	1.01	<2	<10	120	0.5	<2	3.15	<0.5	6	2	8	2.45
S837336		2.30	0.006	<0.2	0.86	<2	<10	350	<0.5	<2	3.23	<0.5	6	2	1	2.42
S837337		2.25	0.006	<0.2	0.91	<2	<10	240	<0.5	<2	3.64	<0.5	6	1	2	2.38
S837338		2.32	0.002	<0.2	0.81	<2	<10	670	<0.5	<2	3.20	<0.5	5	2	2	2.38
S837339		1.29	<0.001	<0.2	1.07	<2	<10	150	<0.5	<2	3.55	<0.5	7	1	27	2.75
S837340		1.13	0.001	0.2	0.96	7	<10	140	<0.5	<2	3.36	0.6	6	2	53	2.53
S837341		2.67	0.009	2.2	0.59	92	<10	1210	0.7	2	5.01	13.5	4	1	458	2.59
S837342		2.33	<0.001	0.6	1.23	27	<10	1560	0.5	<2	4.06	0.6	5	1	32	3.23
S837343		1.89	0.008	0.9	1.26	43	<10	1080	0.6	<2	3.04	2.7	5	1	53	3.26
S837344		2.32	0.015	1.4	1.76	84	<10	1050	0.6	<2	2.35	7.3	7	1	117	4.61
S837345		2.34	0.109	0.5	1.58	2	<10	510	<0.5	<2	1.04	<0.5	12	2	55	4.20
S837346		2.25	0.020	0.4	1.23	4	<10	860	<0.5	2	0.52	<0.5	10	3	42	3.50
S837347		2.20	0.051	1.0	1.54	4	<10	280	<0.5	3	0.62	8.4	15	3	295	4.30
S837348		2.42	0.009	0.5	1.59	<2	<10	380	<0.5	2	1.27	<0.5	14	3	393	4.36
S837349		2.91	0.018	0.4	1.20	<2	<10	1110	<0.5	2	1.72	<0.5	8	3	22	3.53
S837350		1.44	<0.001	<0.2	0.56	<2	<10	90	<0.5	<2	0.53	<0.5	3	7	3	1.59
S837351		2.23	0.001	0.3	1.23	<2	<10	570	<0.5	2	2.40	<0.5	9	3	73	3.69
S837352		2.53	0.023	0.3	1.36	<2	<10	270	<0.5	<2	2.83	<0.5	9	3	67	3.90
S837353		2.56	0.011	0.8	1.70	<2	<10	610	<0.5	<2	1.63	<0.5	13	3	693	4.13



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
S837314		<10	<1	0.33	20	0.64	2060	<1	0.05	1	1330	16	0.12	<2	1	122
S837315		<10	<1	0.32	20	0.52	2050	<1	0.05	<1	1310	12	0.08	<2	2	159
S837316		<10	<1	0.35	20	0.57	1905	<1	0.06	1	1280	14	0.44	<2	2	174
S837317		<10	<1	0.33	20	0.60	2470	<1	0.05	1	1150	6	0.08	<2	2	181
S837318		<10	<1	0.37	20	0.55	2310	<1	0.04	1	1180	3	0.05	<2	2	147
S837319		<10	<1	0.33	20	0.61	2720	<1	0.03	<1	1110	12	0.04	<2	2	140
S837320		<10	<1	0.34	20	0.58	2810	<1	0.03	<1	1110	12	0.04	<2	2	153
S837321		<10	<1	0.35	20	0.81	2820	<1	0.04	<1	1180	20	0.04	<2	2	141
S837322		10	<1	0.30	20	0.87	2950	<1	0.04	1	1050	28	0.07	2	2	117
S837323		10	<1	0.25	20	0.89	3240	<1	0.04	1	1050	19	0.12	<2	2	150
S837324		<10	<1	0.34	20	0.60	2560	<1	0.04	1	1100	13	0.07	<2	2	159
S837325		<10	<1	0.35	20	0.70	2680	<1	0.03	<1	1150	14	0.10	<2	2	165
S837326		<10	<1	0.38	20	0.63	2000	<1	0.03	1	940	142	1.09	<2	1	113
S837327		<10	<1	0.36	20	0.60	2380	<1	0.03	<1	1170	346	0.24	<2	2	188
S837328		<10	<1	0.37	20	0.33	1870	<1	0.04	<1	1140	5	0.03	<2	2	174
S837329		<10	<1	0.36	20	0.43	2350	<1	0.04	<1	1110	6	0.06	<2	2	229
S837330		<10	<1	0.10	10	0.26	390	<1	0.07	1	530	4	0.03	<2	1	40
S837331		<10	<1	0.35	20	0.45	2110	<1	0.04	<1	1190	5	0.03	<2	2	167
S837332		<10	<1	0.35	20	0.48	2410	<1	0.04	<1	1090	7	0.04	<2	2	223
S837333		<10	<1	0.33	20	0.50	2110	<1	0.04	<1	1100	6	0.05	<2	2	181
S837334		<10	<1	0.33	20	0.48	1995	<1	0.04	1	1090	3	0.02	<2	2	139
S837335		<10	<1	0.33	20	0.56	1920	<1	0.03	<1	1190	5	0.02	<2	2	122
S837336		<10	<1	0.33	20	0.45	1745	<1	0.03	1	1170	4	0.03	<2	2	139
S837337		<10	<1	0.34	20	0.48	1920	<1	0.04	<1	1220	4	0.03	2	2	150
S837338		<10	<1	0.35	20	0.43	1775	<1	0.04	<1	1160	5	0.04	<2	2	181
S837339		<10	<1	0.31	20	0.65	2350	<1	0.04	1	1170	7	0.02	<2	2	128
S837340		<10	<1	0.33	20	0.55	2170	<1	0.04	1	1150	11	0.03	2	2	123
S837341		<10	1	0.39	20	0.30	3340	<1	0.03	<1	1110	244	0.30	<2	2	250
S837342		<10	<1	0.37	20	0.53	3190	<1	0.03	1	1280	31	0.09	<2	2	203
S837343		<10	1	0.36	20	0.58	2860	<1	0.03	1	1320	138	0.12	<2	2	171
S837344		10	1	0.35	10	0.91	3110	<1	0.03	2	1310	370	0.18	<2	2	163
S837345		10	1	0.28	20	0.74	3050	<1	0.02	3	1270	28	0.57	<2	3	85
S837346		10	<1	0.26	20	0.59	2820	<1	0.02	4	1170	31	0.30	<2	3	58
S837347		10	2	0.25	20	0.74	3360	<1	0.02	4	1210	115	0.79	<2	3	66
S837348		10	<1	0.25	20	0.81	3620	<1	0.03	3	1240	9	0.65	<2	4	105
S837349		10	<1	0.22	20	0.63	3280	<1	0.02	4	1210	12	0.10	<2	4	148
S837350		<10	<1	0.09	10	0.26	391	<1	0.06	1	520	5	0.01	<2	1	39
S837351		10	1	0.21	20	0.69	3860	<1	0.03	4	1260	11	0.02	<2	5	169
S837352		10	<1	0.20	20	0.75	3990	<1	0.03	4	1340	9	0.01	<2	5	124
S837353		10	<1	0.22	20	0.91	3860	<1	0.02	4	1270	11	0.28	<2	4	134



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Zn-OG46
		Th	Ti	Ti	U	V	W	Zn	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm	%
		20	0.01	10	10	1	10	2	0.001
S837314		<20	<0.01	<10	<10	25	<10	151	
S837315		<20	<0.01	<10	<10	25	<10	109	
S837316		<20	<0.01	<10	<10	20	<10	99	
S837317		<20	<0.01	<10	<10	31	<10	90	
S837318		<20	<0.01	<10	<10	39	<10	81	
S837319		<20	<0.01	<10	<10	33	<10	113	
S837320		<20	<0.01	<10	<10	32	<10	107	
S837321		<20	<0.01	<10	<10	29	<10	153	
S837322		<20	<0.01	<10	<10	28	<10	167	
S837323		<20	<0.01	<10	<10	24	<10	169	
S837324		<20	<0.01	<10	<10	32	<10	115	
S837325		<20	<0.01	<10	<10	32	<10	133	
S837326		<20	<0.01	<10	<10	21	<10	285	
S837327		<20	<0.01	<10	<10	22	<10	613	
S837328		<20	0.01	<10	<10	35	<10	46	
S837329		<20	0.01	<10	<10	31	<10	45	
S837330		<20	0.08	<10	<10	38	<10	33	
S837331		<20	0.01	<10	<10	33	<10	75	
S837332		<20	<0.01	<10	<10	33	<10	81	
S837333		<20	<0.01	<10	<10	38	<10	84	
S837334		<20	0.01	<10	<10	44	<10	76	
S837335		<20	<0.01	<10	<10	48	<10	87	
S837336		<20	<0.01	<10	<10	47	<10	72	
S837337		<20	<0.01	<10	<10	44	<10	83	
S837338		<20	<0.01	<10	<10	45	<10	75	
S837339		<20	<0.01	<10	<10	45	<10	119	
S837340		<20	<0.01	<10	<10	44	<10	142	
S837341		<20	<0.01	<10	<10	23	<10	1280	
S837342		<20	<0.01	<10	<10	32	<10	200	
S837343		<20	0.01	<10	<10	29	<10	347	
S837344		<20	0.01	<10	<10	38	<10	799	
S837345		<20	<0.01	<10	<10	40	<10	201	
S837346		<20	<0.01	<10	<10	33	<10	211	
S837347		<20	<0.01	<10	<10	36	<10	1515	
S837348		<20	0.01	<10	<10	41	<10	178	
S837349		<20	0.01	<10	<10	41	<10	141	
S837350		<20	0.08	<10	<10	39	<10	34	
S837351		<20	0.02	<10	<10	43	<10	152	
S837352		<20	0.02	<10	<10	48	<10	171	
S837353		<20	<0.01	<10	<10	41	<10	205	



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %
S837354		2.55	0.003	<0.2	1.29	<2	<10	440	<0.5	<2	3.93	<0.5	10	3	12	3.52
S837355		2.30	0.007	0.3	1.29	<2	<10	530	<0.5	<2	3.85	<0.5	9	3	79	3.42
S837356		2.27	0.023	0.2	1.46	2	<10	1060	<0.5	<2	1.72	<0.5	9	4	66	3.64
S837357		2.23	0.006	0.3	1.63	5	<10	2150	<0.5	<2	0.87	<0.5	7	3	144	3.66
S837358		2.63	0.021	1.1	1.25	87	<10	740	0.6	<2	2.35	4.0	9	1	296	3.90
S837359		2.57	0.030	6.1	0.44	14	<10	70	<0.5	<2	0.97	1.9	7	3	7280	1.85
S837360		1.34	<0.001	<0.2	0.57	<2	<10	90	<0.5	<2	0.62	<0.5	3	6	14	1.64
S837361		2.07	0.027	0.9	0.56	23	<10	300	<0.5	<2	0.30	5.0	9	4	173	1.53
S837362		2.60	0.023	1.1	1.52	7	<10	590	<0.5	2	0.63	2.4	9	3	823	4.24
S837363		2.17	0.005	0.8	1.70	5	<10	500	<0.5	2	1.19	<0.5	6	3	426	4.76
S837364		2.24	0.013	0.8	1.56	<2	<10	200	<0.5	<2	1.57	<0.5	5	3	431	4.03
S837365		2.41	0.002	0.6	1.72	4	<10	630	<0.5	2	1.35	<0.5	5	3	307	4.53
S837366		2.74	0.315	1.1	1.66	6	<10	480	<0.5	2	1.52	7.7	9	3	366	4.08
S837367		2.41	0.008	0.7	0.76	3	<10	1340	<0.5	3	1.50	1.8	6	2	427	2.21
S837368		2.18	0.057	1.2	2.00	16	<10	240	<0.5	2	1.40	3.1	10	3	588	5.12
S837369		2.65	0.524	3.1	3.04	19	<10	160	<0.5	20	1.72	5.7	10	3	2200	8.41
S837370		1.57	<0.001	<0.2	0.62	<2	<10	80	<0.5	<2	0.60	<0.5	4	6	8	1.74
S837371		2.14	2.11	5.8	2.19	64	<10	150	<0.5	15	1.22	30.0	11	6	2890	6.88
S837372		2.35	0.102	0.9	2.48	2	<10	260	<0.5	6	1.21	<0.5	9	3	226	6.73
S837373		2.23	0.121	0.7	1.94	2	<10	460	<0.5	2	1.15	<0.5	9	4	131	5.39
S837374		2.59	0.920	3.8	2.37	29	<10	80	<0.5	9	1.47	63.5	12	4	691	7.08
S837375		2.22	0.744	2.9	2.04	19	<10	70	<0.5	8	1.06	10.7	15	8	1440	7.04
S837376		2.33	0.093	0.6	1.98	12	<10	360	<0.5	2	0.62	<0.5	10	3	13	5.39
S837377		2.05	0.007	0.6	1.87	5	<10	560	<0.5	2	0.47	<0.5	10	3	88	4.70
S837378		2.55	0.340	1.7	3.12	6	<10	220	<0.5	4	0.22	<0.5	13	4	446	9.24
S837379		2.28	0.206	0.9	1.11	2	<10	810	<0.5	<2	0.42	3.6	9	4	339	4.02
S837380		0.06	0.335	2.0	1.71	29	<10	70	<0.5	<2	0.74	3.5	12	25	2330	4.65
S837381		2.24	0.023	0.5	1.04	2	<10	2660	<0.5	<2	0.58	2.1	7	4	239	3.10
S837382		2.30	0.021	0.2	1.17	<2	<10	2300	<0.5	<2	0.68	<0.5	9	3	135	3.17
S837383		2.86	0.011	0.2	0.87	6	<10	1660	<0.5	<2	0.55	<0.5	7	3	63	2.65



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
S837354		10	1	0.21	20	0.74	4080	<1	0.03	3	1270	6	0.01	<2	5	170
S837355		10	<1	0.21	20	0.75	4160	<1	0.03	4	1300	7	0.02	<2	5	147
S837356		10	<1	0.21	10	0.81	4030	<1	0.02	4	1230	5	0.13	<2	4	152
S837357		10	1	0.20	10	0.84	3290	<1	0.02	4	1150	11	0.13	<2	3	134
S837358		<10	<1	0.38	20	0.67	3320	<1	0.03	1	1340	31	0.36	<2	3	149
S837359		<10	1	0.32	10	0.13	699	<1	0.03	2	850	71	1.20	<2	1	78
S837360		<10	<1	0.09	10	0.28	385	<1	0.06	1	550	4	0.02	<2	1	39
S837361		<10	1	0.35	10	0.14	544	<1	0.03	2	880	68	0.69	2	1	46
S837362		10	1	0.28	10	0.69	2320	<1	0.02	4	1160	30	0.49	<2	2	58
S837363		10	<1	0.23	30	0.87	3070	<1	0.03	4	1250	14	0.08	<2	4	78
S837364		10	<1	0.23	30	0.85	3480	<1	0.03	3	1240	10	0.08	2	5	96
S837365		10	<1	0.24	20	0.92	3720	<1	0.02	3	1270	12	0.08	<2	4	91
S837366		10	<1	0.23	10	0.80	3480	<1	0.02	3	1110	61	0.26	<2	3	103
S837367		<10	<1	0.36	20	0.21	1555	<1	0.03	2	1270	37	0.25	<2	3	126
S837368		10	<1	0.28	20	0.91	3720	<1	0.02	4	1210	49	0.62	<2	4	118
S837369		10	1	0.14	10	1.61	6960	<1	0.01	3	760	94	1.27	<2	4	130
S837370		<10	<1	0.10	10	0.29	449	<1	0.06	1	570	7	0.02	<2	1	40
S837371		10	3	0.11	10	1.17	5610	<1	0.01	2	390	180	1.98	<2	2	88
S837372		10	<1	0.17	10	1.22	5460	<1	0.01	3	950	26	0.84	<2	4	83
S837373		10	<1	0.22	10	0.94	4480	<1	0.01	3	900	17	0.77	<2	3	121
S837374		10	5	0.17	10	1.41	6370	<1	0.01	4	660	100	1.52	<2	3	87
S837375		10	1	0.18	10	1.14	5490	<1	0.01	3	760	74	2.15	<2	3	75
S837376		10	<1	0.27	10	0.92	4510	<1	0.02	4	1110	30	1.04	<2	2	49
S837377		10	<1	0.28	20	0.87	4250	<1	0.02	4	1270	27	0.58	<2	2	56
S837378		10	<1	0.10	10	1.54	6410	<1	0.02	3	390	17	1.21	<2	2	28
S837379		<10	1	0.25	10	0.57	3140	<1	0.03	3	950	75	0.37	2	2	56
S837380		<10	<1	0.32	<10	0.53	857	17	0.07	18	690	55	2.78	2	2	59
S837381		<10	<1	0.26	20	0.55	2580	<1	0.03	3	1190	65	0.13	<2	2	87
S837382		10	<1	0.24	20	0.63	2550	<1	0.03	3	1220	11	0.09	<2	3	83
S837383		<10	<1	0.29	20	0.45	1755	<1	0.03	3	1230	8	0.12	<2	2	59



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Zn-OG46
		Th	Ti	Ti	U	V	W	Zn	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm	%
		20	0.01	10	10	1	10	2	0.001
S837354		<20	0.01	<10	<10	42	<10	159	
S837355		<20	0.01	<10	<10	41	<10	162	
S837356		<20	0.01	<10	<10	37	<10	183	
S837357		<20	<0.01	<10	<10	37	<10	208	
S837358		<20	<0.01	<10	<10	33	<10	686	
S837359		<20	<0.01	<10	<10	11	<10	212	
S837360		<20	0.08	<10	<10	39	<10	33	
S837361		<20	<0.01	<10	<10	10	<10	604	
S837362		<20	<0.01	<10	<10	22	<10	431	
S837363		<20	0.02	<10	<10	38	<10	224	
S837364		<20	0.01	<10	<10	39	<10	171	
S837365		<20	0.01	<10	<10	37	<10	235	
S837366		<20	0.01	<10	<10	33	<10	955	
S837367		<20	0.01	<10	<10	19	<10	252	
S837368		<20	<0.01	<10	<10	38	<10	609	
S837369		<20	<0.01	<10	<10	60	10	1250	
S837370		<20	0.08	<10	<10	41	<10	44	
S837371		<20	<0.01	<10	<10	41	10	4950	
S837372		<20	<0.01	<10	<10	45	<10	322	
S837373		<20	<0.01	<10	<10	33	<10	225	
S837374		<20	<0.01	<10	<10	43	10	>10000	1.110
S837375		<20	<0.01	<10	<10	41	<10	1690	
S837376		<20	<0.01	<10	<10	35	<10	249	
S837377		<20	<0.01	<10	<10	31	<10	215	
S837378		<20	<0.01	<10	<10	63	30	379	
S837379		<20	0.01	<10	<10	30	20	704	
S837380		<20	0.03	<10	<10	27	<10	676	
S837381		<20	0.01	<10	<10	31	<10	401	
S837382		<20	0.01	<10	<10	35	<10	134	
S837383		<20	0.01	<10	<10	25	<10	93	



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CERTIFICATE OF ANALYSIS TR17188183

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Terrace located at 2912 Molitor Street, Terrace, BC, Canada.			
	CRU-31	CRU-QC	LOG-22	LOG-24
	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-ICP21	ME-ICP41	ME-OG46	Zn-OG46



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 19-JAN-2018
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CERTIFICATE TR17188184

Project: Forrest Kerr

This report is for 150 Drill Core samples submitted to our lab in Terrace, BC, Canada on 30-AUG-2017.

The following have access to data associated with this certificate:

DEIRDRE HEFFERNAN	CORNELL MCDOWELL
-------------------	------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Cu-OG46	Ore Grade Cu - Aqua Regia	ICP-AES
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: **ABEN RESOURCES LTD.**
ATTN: ALS GEOCHEMISTRY

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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Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
S837384		2.21	0.012	0.4	1.01	<2	<10	1260	<0.5	2	1.07	<0.5	7	4	492	3.32
S837385		2.77	0.120	0.5	1.35	3	<10	1050	<0.5	<2	0.52	<0.5	8	3	437	3.18
S837386		1.88	0.024	0.2	1.11	2	<10	470	<0.5	<2	1.08	<0.5	9	3	4	3.13
S837387		2.52	0.026	<0.2	1.01	<2	<10	2460	<0.5	<2	1.08	1.4	8	4	4	3.19
S837388		2.53	0.001	<0.2	1.16	<2	<10	750	<0.5	2	2.03	<0.5	9	4	8	3.50
S837389		1.07	0.032	0.5	1.32	<2	<10	750	<0.5	2	1.56	33.0	10	3	69	3.79
S837390		0.94	0.023	0.2	1.45	<2	<10	1080	<0.5	<2	1.55	20.2	11	4	54	4.20
S837391		2.28	0.058	<0.2	1.75	<2	<10	400	<0.5	<2	1.10	6.1	9	3	71	4.32
S837392		2.41	0.008	0.2	1.66	<2	<10	400	<0.5	<2	1.04	<0.5	9	3	29	4.23
S837393		2.68	<0.001	<0.2	1.66	<2	<10	210	<0.5	<2	1.04	<0.5	9	3	115	4.20
S837394		2.85	0.019	0.2	1.48	<2	<10	950	<0.5	2	1.32	<0.5	8	5	142	3.73
S837395		2.14	0.012	<0.2	1.45	<2	<10	1070	<0.5	<2	1.08	<0.5	9	3	32	3.65
S837396		2.30	0.164	0.7	1.58	7	<10	460	<0.5	<2	1.27	3.1	8	3	167	3.57
S837397		1.99	0.013	0.9	1.67	5	<10	420	<0.5	5	1.08	2.5	11	3	393	4.71
S837398		1.88	0.049	1.3	1.80	7	<10	160	<0.5	5	0.99	4.6	15	3	550	5.43
S837399		1.20	0.048	0.4	1.44	8	<10	410	<0.5	6	0.36	<0.5	9	3	26	3.94
S837400		1.22	0.011	0.4	1.49	7	<10	540	<0.5	6	0.36	<0.5	10	3	26	4.13
S837401		2.29	0.034	0.5	1.40	4	<10	320	<0.5	4	0.37	<0.5	12	5	54	4.23
S837402		2.47	0.020	0.3	1.22	2	<10	860	<0.5	4	0.54	<0.5	7	5	80	3.62
S837403		2.37	0.015	0.4	1.18	3	<10	500	<0.5	2	0.35	<0.5	7	5	171	3.20
S837404		2.29	0.360	0.6	1.48	<2	<10	470	<0.5	3	0.38	<0.5	7	4	56	3.89
S837405		2.27	0.247	0.6	1.48	3	<10	810	<0.5	3	0.75	<0.5	7	3	34	4.10
S837406		2.32	0.066	<0.2	1.38	<2	<10	400	<0.5	4	1.40	<0.5	7	4	5	4.25
S837407		2.22	0.005	<0.2	1.41	<2	<10	340	<0.5	3	1.26	<0.5	7	3	2	3.82
S837408		2.22	0.001	0.2	1.54	2	<10	690	<0.5	3	1.42	<0.5	8	3	2	3.83
S837409		2.36	0.036	0.9	1.75	7	<10	370	<0.5	4	1.08	<0.5	13	3	489	4.71
S837410		1.12	<0.001	<0.2	0.55	<2	<10	60	<0.5	5	0.50	<0.5	2	5	3	1.68
S837411		2.17	0.041	0.9	1.80	16	<10	420	<0.5	5	0.45	0.5	13	3	105	5.33
S837412		2.29	0.076	2.6	1.36	9	<10	50	<0.5	6	1.07	1.5	18	4	2350	5.01
S837413		2.12	0.078	10.9	1.56	9	<10	30	<0.5	7	0.98	3.2	22	3	>10000	7.41
S837414		2.39	0.023	2.9	2.04	7	<10	90	<0.5	6	2.10	0.7	18	3	4660	6.43
S837415		2.30	0.039	2.6	1.64	7	<10	30	<0.5	5	1.25	<0.5	17	2	2910	6.55
S837416		2.49	0.038	0.8	1.44	3	<10	70	0.5	6	1.53	<0.5	16	2	48	5.13
S837417		2.53	0.008	0.4	1.81	<2	<10	500	0.6	2	3.24	<0.5	9	2	388	4.93
S837418		2.11	0.131	0.8	1.48	6	<10	60	0.6	3	3.02	<0.5	12	2	596	5.05
S837419		1.08	0.013	<0.2	2.55	2	<10	250	0.5	<2	1.00	<0.5	9	2	85	6.17
S837420		1.20	0.002	0.2	2.80	3	<10	400	0.5	3	0.91	<0.5	11	3	320	6.82
S837421		2.16	0.839	0.5	2.27	<2	<10	840	<0.5	3	0.76	<0.5	8	3	113	5.03
S837422		2.08	0.037	0.7	1.95	6	<10	810	<0.5	4	0.84	<0.5	7	3	608	4.29
S837423		2.78	0.017	0.3	1.46	2	<10	2490	0.5	4	3.62	<0.5	7	2	241	3.86



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
S837384		<10	<1	0.32	20	0.67	2260	<1	0.02	3	1220	24	0.11	<2	4	83
S837385		10	<1	0.30	20	0.72	2420	<1	0.02	4	1290	30	0.08	<2	2	63
S837386		<10	<1	0.39	20	0.46	2200	<1	0.02	3	1260	9	0.02	<2	3	59
S837387		<10	<1	0.25	20	0.56	2690	<1	0.02	3	1240	12	0.08	<2	4	112
S837388		10	<1	0.28	20	0.70	3860	<1	0.02	4	1230	12	0.03	<2	4	129
S837389		10	6	0.18	20	0.85	4640	<1	0.02	4	1100	28	0.33	<2	4	116
S837390		10	3	0.24	20	0.88	4640	<1	0.02	5	1180	29	0.22	<2	4	121
S837391		10	2	0.27	20	0.95	4250	<1	0.02	3	1210	12	0.09	<2	3	84
S837392		10	<1	0.29	20	0.87	4070	<1	0.02	4	1260	11	0.02	<2	3	72
S837393		10	<1	0.32	20	0.80	3820	<1	0.02	4	1230	16	0.04	<2	3	62
S837394		10	<1	0.32	20	0.72	3420	<1	0.03	3	1300	8	0.04	<2	4	123
S837395		10	<1	0.30	20	0.70	2920	<1	0.02	4	1350	14	0.03	<2	3	169
S837396		10	1	0.28	20	0.78	3610	<1	0.03	4	1240	814	0.10	3	3	133
S837397		10	<1	0.24	20	0.80	3770	<1	0.02	5	970	106	0.44	<2	3	71
S837398		10	<1	0.22	10	0.91	4370	1	0.02	3	720	143	0.91	<2	2	70
S837399		<10	<1	0.28	20	0.67	2240	<1	0.02	4	1130	26	0.54	<2	2	38
S837400		10	<1	0.27	20	0.72	2590	<1	0.02	5	1120	9	0.41	<2	2	36
S837401		10	<1	0.25	20	0.71	2440	<1	0.03	6	1180	8	0.65	<2	3	33
S837402		10	<1	0.22	20	0.61	2030	<1	0.03	5	1170	5	0.16	<2	3	52
S837403		10	<1	0.23	20	0.57	1790	<1	0.03	4	1140	8	0.31	<2	2	31
S837404		10	<1	0.26	20	0.68	1945	<1	0.03	4	1120	10	0.24	<2	2	33
S837405		10	<1	0.28	20	0.72	2120	<1	0.03	5	1240	9	0.08	<2	3	72
S837406		10	<1	0.24	20	0.70	2710	<1	0.04	4	1240	6	0.01	<2	5	92
S837407		10	<1	0.26	20	0.67	2620	<1	0.03	4	1200	6	0.01	<2	3	98
S837408		10	<1	0.30	20	0.72	3050	<1	0.03	4	1210	8	0.07	<2	3	104
S837409		10	<1	0.26	20	0.89	3310	<1	0.03	3	1110	23	0.67	<2	3	72
S837410		<10	<1	0.09	10	0.26	397	<1	0.07	1	510	3	0.02	<2	1	34
S837411		10	<1	0.24	20	1.01	3410	<1	0.02	6	1000	31	0.59	<2	2	44
S837412		10	<1	0.20	10	0.77	3220	2	0.02	4	750	69	1.47	<2	3	58
S837413		<10	<1	0.23	10	0.81	2860	2	0.02	4	720	40	3.98	<2	2	50
S837414		10	<1	0.25	10	1.08	3850	1	0.02	4	1050	31	1.79	<2	4	83
S837415		10	<1	0.27	10	0.83	3330	2	0.02	5	1010	39	2.65	<2	3	86
S837416		10	<1	0.34	10	0.66	3020	<1	0.03	3	1140	16	2.13	<2	3	82
S837417		10	<1	0.34	20	0.86	4630	<1	0.03	3	1110	12	0.50	<2	4	152
S837418		<10	<1	0.34	20	0.88	4520	<1	0.04	3	1150	14	1.31	<2	3	146
S837419		10	<1	0.26	20	1.27	4110	<1	0.04	5	1110	5	0.03	<2	4	62
S837420		10	<1	0.27	20	1.41	4440	<1	0.04	6	1110	6	0.08	<2	4	57
S837421		10	<1	0.20	10	1.30	2980	<1	0.03	5	1110	6	0.04	<2	4	69
S837422		10	<1	0.23	20	1.09	2990	<1	0.03	5	1060	6	0.12	<2	3	56
S837423		10	<1	0.28	20	0.91	4570	<1	0.02	3	1080	10	0.10	<2	4	277



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-OG46
		Th	Ti	Ti	U	V	W	Zn	Cu
		ppm	%	ppm	ppm	ppm	ppm	ppm	%
		20	0.01	10	10	1	10	2	0.001
S837384		<20	0.02	<10	<10	35	<10	113	
S837385		<20	0.01	<10	<10	29	<10	176	
S837386		<20	0.02	<10	<10	36	<10	186	
S837387		<20	0.02	<10	<10	43	<10	399	
S837388		<20	0.02	<10	<10	40	<10	256	
S837389		<20	0.01	<10	<10	38	<10	6090	
S837390		<20	0.02	<10	<10	43	<10	3770	
S837391		<20	0.01	<10	<10	37	<10	1620	
S837392		<20	0.01	<10	<10	37	<10	267	
S837393		<20	0.01	<10	<10	34	<10	223	
S837394		<20	0.01	<10	<10	38	<10	165	
S837395		<20	0.01	<10	<10	37	<10	180	
S837396		<20	<0.01	<10	<10	28	<10	510	
S837397		<20	<0.01	<10	<10	32	<10	413	
S837398		<20	<0.01	<10	<10	30	<10	666	
S837399		<20	<0.01	<10	<10	21	<10	127	
S837400		<20	<0.01	<10	<10	22	<10	138	
S837401		<20	<0.01	<10	<10	31	<10	116	
S837402		<20	0.01	<10	<10	34	<10	100	
S837403		<20	<0.01	<10	<10	22	<10	98	
S837404		<20	<0.01	<10	<10	26	<10	118	
S837405		<20	0.01	<10	<10	34	<10	113	
S837406		<20	0.02	<10	<10	42	<10	103	
S837407		<20	0.01	<10	<10	38	<10	119	
S837408		<20	0.01	<10	<10	32	<10	127	
S837409		<20	<0.01	<10	<10	32	<10	177	
S837410		<20	0.07	<10	<10	39	<10	33	
S837411		<20	<0.01	<10	<10	32	<10	219	
S837412		<20	<0.01	<10	<10	26	<10	310	
S837413		<20	<0.01	<10	<10	24	<10	466	1.715
S837414		<20	<0.01	<10	<10	30	<10	227	
S837415		<20	<0.01	<10	<10	28	<10	176	
S837416		<20	<0.01	<10	<10	20	<10	146	
S837417		<20	<0.01	<10	<10	21	<10	212	
S837418		<20	<0.01	<10	<10	19	<10	136	
S837419		<20	0.01	<10	<10	37	<10	209	
S837420		<20	0.01	<10	<10	43	<10	228	
S837421		<20	<0.01	<10	<10	37	<10	195	
S837422		<20	<0.01	<10	<10	27	<10	176	
S837423		<20	0.01	<10	<10	30	<10	133	



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Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
LOR		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
S837424		2.12	0.020	<0.2	1.57	3	<10	530	0.6	5	2.18	<0.5	7	3	10	4.71
S837425		2.62	0.008	<0.2	1.40	2	<10	920	0.5	4	3.29	<0.5	7	3	7	3.89
S837426		1.53	0.007	<0.2	1.42	<2	<10	930	0.7	4	3.66	<0.5	7	3	3	3.92
S837427		1.56	0.016	<0.2	1.89	<2	<10	210	0.6	3	3.68	<0.5	8	2	1	4.65
S837428		2.61	0.005	<0.2	1.72	2	<10	860	0.6	7	3.25	<0.5	7	3	2	4.35
S837429		2.74	0.026	<0.2	1.75	2	<10	1470	0.6	3	2.37	<0.5	7	3	2	4.68
S837430		1.40	<0.001	<0.2	0.55	<2	<10	70	<0.5	4	0.52	<0.5	3	5	3	1.74
S837431		2.32	0.009	<0.2	1.57	3	<10	280	0.7	3	3.20	<0.5	6	4	1	4.60
S837432		2.06	0.709	0.9	2.04	2	<10	540	0.5	2	2.66	<0.5	6	7	54	5.24
S837433		2.39	0.013	<0.2	2.00	2	<10	450	0.5	4	2.43	<0.5	7	3	4	5.14
S837434		2.19	0.012	<0.2	1.70	2	<10	460	0.5	2	2.20	<0.5	7	3	6	4.35
S837435		2.28	0.004	0.2	1.90	8	<10	410	<0.5	4	2.45	<0.5	10	4	5	4.60
S837436		2.32	0.043	0.6	1.88	27	<10	340	<0.5	6	5.44	<0.5	16	3	5	4.64
S837437		2.21	0.019	<0.2	1.38	3	<10	650	0.6	5	5.26	<0.5	8	1	6	2.98
S837438		2.67	0.012	<0.2	1.17	2	<10	1340	0.7	<2	2.56	<0.5	7	2	1	2.89
S837439		1.52	<0.001	<0.2	0.96	<2	<10	460	0.7	3	3.39	<0.5	7	1	<1	2.95
S837440		1.66	0.002	<0.2	1.00	<2	<10	450	0.7	2	3.73	<0.5	8	1	<1	3.12
S837441		2.90	0.003	<0.2	1.20	2	<10	200	0.5	2	3.67	<0.5	9	1	<1	3.26
S837442		2.36	<0.001	<0.2	1.38	<2	<10	1250	0.5	2	3.02	<0.5	8	1	1	3.54
S837443		2.38	<0.001	<0.2	1.43	2	<10	160	0.6	4	3.21	<0.5	9	2	<1	3.16
S837444		2.53	0.007	<0.2	1.32	<2	<10	280	0.5	4	2.46	<0.5	8	1	<1	2.93
S837445		2.83	0.019	<0.2	1.48	<2	<10	240	0.6	2	3.08	<0.5	11	1	1	3.41
S837446		2.53	<0.001	<0.2	1.75	<2	<10	200	0.7	3	2.48	<0.5	8	1	1	3.66
S837447		2.53	<0.001	<0.2	1.89	2	<10	500	0.6	2	2.68	<0.5	8	1	<1	3.72
S837448		2.84	0.164	<0.2	1.69	<2	<10	870	0.5	2	2.44	<0.5	9	1	95	3.55
S837449		2.30	0.004	<0.2	1.51	2	<10	530	0.6	3	2.42	<0.5	7	1	27	3.16
S837450		1.66	<0.001	<0.2	0.56	<2	<10	60	<0.5	4	0.58	<0.5	3	5	4	1.80
S837451		2.17	0.359	0.2	1.84	<2	<10	1080	0.6	3	1.53	<0.5	6	1	544	3.99
S837452		3.15	1.425	0.7	2.13	12	<10	110	<0.5	7	1.06	<0.5	8	3	71	5.96
S837453		2.94	0.365	1.5	3.86	71	<10	30	<0.5	7	1.07	0.5	14	1	910	12.00
S837454		2.68	0.905	0.6	2.36	13	<10	200	0.6	4	1.56	<0.5	9	1	401	6.05
S837455		2.89	3.87	0.9	2.31	<2	<10	730	0.5	6	2.26	<0.5	7	2	524	5.54
S837456		2.34	0.004	<0.2	1.68	<2	<10	610	0.5	4	2.33	<0.5	7	2	3	4.14
S837457		2.54	<0.001	<0.2	1.51	2	<10	230	0.5	3	3.27	<0.5	5	1	1	3.69
S837458		2.34	0.002	<0.2	1.34	5	<10	140	0.5	3	3.16	<0.5	5	2	<1	3.77
S837459		1.66	<0.001	<0.2	1.45	2	<10	350	0.5	3	3.21	<0.5	7	1	<1	3.78
S837460		1.33	<0.001	<0.2	1.46	<2	<10	440	0.5	2	2.90	<0.5	6	2	<1	3.55
S837461		2.66	0.001	<0.2	1.53	2	<10	260	0.5	3	2.67	<0.5	6	1	1	3.52
S837462		3.00	0.008	0.4	1.60	2	<10	1150	0.5	6	2.87	<0.5	8	2	290	3.95
S837463		2.39	<0.001	<0.2	1.47	2	<10	100	0.5	4	3.56	<0.5	6	1	1	3.43



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		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
S837424		10	<1	0.31	20	0.91	3350	<1	0.04	5	1270	16	0.01	<2	5	127
S837425		10	<1	0.29	20	0.90	3530	<1	0.04	4	1110	10	0.02	2	5	187
S837426		<10	<1	0.31	20	0.91	3620	<1	0.04	4	1120	13	0.02	<2	5	219
S837427		10	<1	0.29	20	1.19	4470	<1	0.04	4	1180	9	0.01	<2	6	160
S837428		10	<1	0.29	20	1.02	4060	<1	0.04	3	1180	11	0.02	<2	6	177
S837429		10	<1	0.31	20	0.99	3620	<1	0.04	3	1220	11	0.04	<2	5	146
S837430		<10	<1	0.10	10	0.26	400	<1	0.08	1	530	2	0.02	<2	1	36
S837431		10	<1	0.30	20	0.85	3730	<1	0.05	4	1170	15	0.01	<2	6	160
S837432		10	<1	0.26	20	1.11	3840	<1	0.04	3	1090	8	0.02	<2	6	149
S837433		10	<1	0.28	20	1.16	3920	<1	0.04	4	1210	8	0.01	<2	6	135
S837434		10	<1	0.30	20	0.96	3230	<1	0.04	3	1180	7	0.02	<2	5	112
S837435		10	<1	0.24	20	1.11	3260	<1	0.04	4	1190	7	0.42	<2	5	103
S837436		10	<1	0.27	20	1.07	4540	1	0.03	3	1070	13	0.93	<2	5	259
S837437		10	<1	0.34	20	0.76	3920	<1	0.04	<1	1150	8	0.27	<2	3	215
S837438		<10	<1	0.39	30	0.65	2170	<1	0.04	<1	1220	7	0.04	<2	3	149
S837439		<10	<1	0.35	20	0.66	2200	<1	0.04	1	1300	5	0.01	<2	3	151
S837440		<10	<1	0.39	20	0.66	2300	<1	0.05	<1	1350	5	0.01	<2	3	161
S837441		<10	<1	0.31	20	0.82	2560	<1	0.04	1	1330	6	0.01	<2	3	137
S837442		<10	<1	0.32	20	0.90	3370	<1	0.04	<1	1210	11	0.03	<2	3	169
S837443		<10	<1	0.30	20	1.08	3200	<1	0.05	1	1160	13	0.01	<2	3	172
S837444		<10	<1	0.31	20	1.07	2470	<1	0.04	1	1310	6	0.01	<2	3	129
S837445		<10	<1	0.32	20	1.44	2750	<1	0.05	<1	1370	5	0.01	<2	4	128
S837446		10	<1	0.30	20	1.45	3350	<1	0.05	<1	1190	10	0.01	<2	3	141
S837447		10	<1	0.30	20	1.51	4070	<1	0.04	<1	1260	9	0.01	<2	4	173
S837448		10	<1	0.28	20	1.17	4350	<1	0.03	1	1110	7	0.04	<2	3	125
S837449		<10	<1	0.30	20	0.92	3950	<1	0.04	<1	1130	8	0.04	<2	3	101
S837450		<10	<1	0.08	10	0.29	403	<1	0.06	2	550	3	0.03	<2	1	35
S837451		<10	<1	0.27	20	0.97	4020	<1	0.03	1	1010	5	0.14	<2	2	112
S837452		10	<1	0.23	10	1.10	4280	<1	0.03	3	900	15	1.55	<2	2	54
S837453		10	<1	0.13	10	2.04	7600	2	0.01	3	810	29	3.19	<2	3	53
S837454		10	<1	0.29	20	1.23	4090	<1	0.03	1	980	10	0.83	<2	3	71
S837455		10	<1	0.26	20	1.32	4510	<1	0.03	1	960	6	0.09	2	3	119
S837456		10	<1	0.30	20	0.92	3390	<1	0.03	1	1030	7	0.03	<2	2	114
S837457		10	<1	0.28	20	0.88	3580	<1	0.04	1	1090	9	<0.01	<2	3	149
S837458		10	<1	0.31	20	0.75	3370	<1	0.04	<1	1100	11	<0.01	2	3	135
S837459		10	<1	0.27	20	0.90	3590	<1	0.04	<1	1110	10	0.01	<2	3	135
S837460		10	<1	0.26	20	0.90	3340	<1	0.04	<1	1110	9	0.01	<2	3	132
S837461		10	<1	0.29	20	0.93	3110	<1	0.04	1	1080	7	0.01	<2	2	126
S837462		10	<1	0.32	20	0.93	3010	<1	0.03	1	1040	10	0.14	<2	2	131
S837463		10	<1	0.28	20	1.00	3080	<1	0.04	<1	1120	8	<0.01	3	3	152



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-OG46
		Th	Ti	Ti	U	V	W	Zn	Cu
		ppm	%	ppm	ppm	ppm	ppm	ppm	%
		20	0.01	10	10	1	10	2	0.001
S837424		<20	0.02	<10	<10	53	<10	137	
S837425		<20	0.02	<10	<10	45	<10	121	
S837426		<20	0.02	<10	<10	50	<10	122	
S837427		<20	0.02	<10	<10	53	<10	186	
S837428		<20	0.02	<10	<10	52	<10	153	
S837429		<20	0.02	<10	<10	61	<10	148	
S837430		<20	0.08	<10	<10	42	<10	33	
S837431		<20	0.02	<10	<10	60	<10	110	
S837432		<20	0.01	<10	<10	65	<10	136	
S837433		<20	0.01	<10	<10	58	<10	142	
S837434		<20	0.01	<10	<10	53	<10	117	
S837435		<20	0.01	<10	<10	57	<10	128	
S837436		<20	<0.01	<10	<10	51	<10	131	
S837437		<20	<0.01	<10	<10	49	<10	92	
S837438		<20	0.01	<10	<10	81	<10	71	
S837439		<20	0.02	<10	<10	65	<10	61	
S837440		<20	0.02	<10	<10	76	<10	60	
S837441		<20	0.02	<10	<10	79	<10	83	
S837442		<20	0.02	<10	<10	66	<10	103	
S837443		<20	0.02	<10	<10	54	<10	107	
S837444		<20	0.02	<10	<10	52	<10	101	
S837445		<20	0.02	<10	<10	60	<10	121	
S837446		<20	0.02	<10	<10	61	<10	145	
S837447		<20	0.01	<10	<10	64	<10	181	
S837448		<20	0.01	<10	<10	53	<10	212	
S837449		<20	<0.01	<10	<10	41	<10	205	
S837450		<20	0.08	<10	<10	43	<10	30	
S837451		<20	<0.01	<10	<10	60	<10	174	
S837452		<20	<0.01	<10	<10	65	<10	174	
S837453		<20	<0.01	<10	<10	112	<10	341	
S837454		<20	0.01	<10	<10	72	<10	164	
S837455		<20	0.01	<10	<10	92	10	145	
S837456		<20	0.02	<10	<10	90	<10	107	
S837457		<20	0.02	<10	<10	98	<10	98	
S837458		<20	0.03	<10	<10	91	<10	83	
S837459		<20	0.03	<10	<10	91	<10	108	
S837460		<20	0.02	<10	<10	85	<10	107	
S837461		<20	0.02	<10	<10	86	<10	115	
S837462		<20	0.02	<10	<10	101	<10	105	
S837463		<20	0.02	<10	<10	82	<10	89	



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Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
LOR		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
S837464		2.22	<0.001	<0.2	1.40	3	<10	70	0.6	3	2.92	<0.5	6	2	<1	3.53
S837465		2.79	<0.001	<0.2	1.30	3	<10	390	0.5	3	3.66	<0.5	6	1	1	3.18
S837466		2.85	<0.001	<0.2	1.43	2	<10	340	0.5	2	3.50	<0.5	7	2	<1	3.39
S837467		2.33	0.004	<0.2	1.52	4	<10	260	0.5	3	2.63	<0.5	7	1	<1	3.75
S837468		2.49	0.002	<0.2	1.39	2	<10	350	0.5	2	2.72	<0.5	7	1	1	3.40
S837469		2.71	<0.001	<0.2	1.57	<2	<10	640	<0.5	<2	2.52	<0.5	8	2	2	3.60
S837470		1.67	<0.001	<0.2	0.68	<2	<10	90	<0.5	<2	0.64	<0.5	4	4	5	1.91
S837471		2.52	<0.001	<0.2	1.66	<2	<10	1080	<0.5	2	2.44	<0.5	9	1	<1	3.63
S837472		2.40	<0.001	<0.2	1.22	<2	<10	1500	<0.5	<2	3.25	<0.5	5	1	<1	3.08
S837473		3.08	<0.001	<0.2	1.22	<2	<10	750	<0.5	2	3.14	<0.5	7	1	<1	2.96
S837474		2.68	<0.001	<0.2	1.46	<2	<10	200	<0.5	2	2.78	<0.5	6	2	<1	3.37
S837475		2.77	<0.001	<0.2	1.52	<2	<10	270	<0.5	<2	2.54	<0.5	8	2	<1	3.68
S837476		2.76	0.002	<0.2	1.47	<2	<10	110	<0.5	<2	2.18	<0.5	8	2	<1	3.54
S837477		2.31	<0.001	<0.2	1.46	<2	<10	210	<0.5	<2	2.83	<0.5	7	1	<1	3.48
S837478		2.78	0.004	<0.2	1.62	<2	<10	110	<0.5	<2	2.30	<0.5	7	2	4	3.89
S837479		1.42	0.002	<0.2	1.72	2	<10	360	<0.5	2	1.78	<0.5	7	2	18	4.04
S837480		1.54	0.002	<0.2	1.70	<2	<10	670	<0.5	<2	2.17	<0.5	7	3	21	4.03
S837481		2.41	0.001	<0.2	1.88	<2	<10	1380	0.5	3	1.83	<0.5	8	1	4	4.12
S837482		2.77	0.002	<0.2	1.81	2	<10	270	0.6	2	2.12	<0.5	8	2	19	4.03
S837483		2.46	0.002	<0.2	1.49	<2	<10	450	0.5	<2	2.93	<0.5	7	1	<1	3.61
S837484		2.57	0.003	<0.2	1.63	2	<10	1680	<0.5	<2	2.97	<0.5	8	2	1	3.83
S837485		2.68	<0.001	<0.2	1.52	2	<10	260	0.5	2	2.71	<0.5	9	1	<1	3.74
S837486		2.73	<0.001	<0.2	1.24	<2	<10	1330	0.5	<2	4.10	<0.5	7	1	<1	3.19
S837487		2.35	0.001	<0.2	1.14	<2	<10	150	<0.5	2	2.95	<0.5	6	1	<1	2.94
S837488		2.81	0.002	<0.2	1.44	<2	<10	90	<0.5	2	2.57	<0.5	8	1	<1	3.20
S837489		2.64	<0.001	<0.2	1.38	2	<10	380	<0.5	2	2.77	<0.5	7	2	160	3.37
S837490		1.78	<0.001	<0.2	0.59	<2	<10	80	<0.5	<2	0.56	<0.5	4	4	3	1.75
S837491		2.67	<0.001	<0.2	1.50	<2	<10	190	0.5	<2	2.46	<0.5	8	2	115	3.67
S837492		2.68	<0.001	<0.2	1.48	<2	<10	440	0.5	4	2.57	<0.5	7	3	63	3.76
S837493		2.63	0.003	0.2	1.49	<2	<10	590	<0.5	2	2.03	<0.5	7	2	535	3.59
S837494		2.50	0.001	<0.2	1.43	<2	<10	420	0.5	2	2.39	<0.5	7	2	66	3.32
S837495		2.69	0.001	<0.2	1.63	<2	<10	1150	0.5	2	4.08	<0.5	8	1	1	3.61
S837496		2.68	0.001	<0.2	1.55	<2	<10	990	<0.5	2	2.99	<0.5	7	2	4	3.32
S837497		2.10	<0.001	<0.2	1.46	3	<10	490	<0.5	2	2.18	<0.5	7	1	3	3.43
S837498		2.81	<0.001	<0.2	1.53	<2	<10	410	<0.5	<2	2.68	<0.5	7	2	7	3.65
S837499		1.14	<0.001	<0.2	1.43	2	<10	60	0.5	<2	2.45	<0.5	9	2	34	3.53
S837500		1.08	<0.001	<0.2	1.47	<2	<10	70	0.5	<2	2.41	<0.5	8	2	17	3.60
S837501		2.62	<0.001	<0.2	1.38	2	<10	130	0.6	2	2.65	<0.5	7	2	11	3.59
S837502		2.28	<0.001	<0.2	1.68	<2	<10	320	0.5	3	1.98	<0.5	8	2	354	3.99
S837503		2.98	0.003	<0.2	1.99	2	<10	610	<0.5	3	2.08	<0.5	7	2	208	4.32



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	
S837464		<10	<1	0.31	20	0.88	2600	<1	0.04	1	1090	10	<0.01	4	3	142
S837465		<10	<1	0.32	20	0.76	2890	<1	0.04	1	1090	8	0.01	<2	2	225
S837466		10	<1	0.30	20	0.91	3060	<1	0.04	1	1110	10	0.01	<2	2	229
S837467		10	<1	0.27	20	1.04	3090	<1	0.04	<1	1170	8	0.01	<2	3	137
S837468		10	<1	0.27	20	0.91	2980	<1	0.04	1	1110	6	0.01	<2	3	119
S837469		10	<1	0.20	20	1.09	3220	<1	0.04	1	1140	6	0.02	<2	3	124
S837470		<10	<1	0.09	10	0.38	471	<1	0.06	1	590	2	0.04	<2	2	41
S837471		10	<1	0.24	20	1.09	3120	<1	0.03	<1	1230	6	0.03	<2	3	129
S837472		<10	<1	0.26	20	0.76	3050	<1	0.04	1	1120	8	0.04	<2	3	194
S837473		10	<1	0.27	20	0.79	2880	<1	0.04	1	1160	9	0.02	2	3	207
S837474		<10	<1	0.27	20	0.95	3090	<1	0.04	<1	1170	7	0.01	<2	3	142
S837475		<10	<1	0.27	20	0.98	2880	<1	0.04	<1	1190	7	0.01	2	2	153
S837476		10	<1	0.26	20	0.93	2650	<1	0.04	2	1170	7	<0.01	2	3	111
S837477		10	<1	0.23	20	0.91	3070	<1	0.04	<1	1150	7	0.01	2	3	135
S837478		10	<1	0.25	20	0.95	2810	<1	0.04	1	1160	6	0.01	<2	3	123
S837479		10	<1	0.21	20	1.00	2670	<1	0.04	<1	1140	7	0.02	<2	3	99
S837480		10	<1	0.22	20	0.98	2920	<1	0.03	<1	1150	6	0.03	<2	3	132
S837481		10	<1	0.25	20	1.09	2450	<1	0.04	1	1190	8	0.06	<2	2	122
S837482		10	<1	0.28	20	1.02	2530	<1	0.04	<1	1250	10	0.03	<2	3	122
S837483		10	<1	0.25	20	0.89	2670	<1	0.04	<1	1160	8	0.01	<2	3	160
S837484		10	1	0.25	20	0.96	2800	<1	0.04	<1	1190	6	0.09	<2	3	171
S837485		10	<1	0.30	20	0.96	2560	<1	0.04	<1	1240	8	0.02	<2	3	157
S837486		<10	<1	0.31	20	0.78	2680	<1	0.03	<1	1140	6	0.04	<2	2	211
S837487		<10	1	0.28	20	0.75	2190	<1	0.04	<1	1120	4	0.01	<2	2	134
S837488		10	1	0.25	20	1.01	2490	<1	0.04	<1	1120	6	0.01	<2	2	113
S837489		<10	<1	0.24	20	0.94	2590	<1	0.04	<1	1060	5	0.02	<2	3	111
S837490		<10	<1	0.09	10	0.31	429	<1	0.06	1	550	3	0.03	<2	1	41
S837491		10	<1	0.23	20	1.01	2690	<1	0.04	1	1170	8	0.01	<2	3	99
S837492		10	<1	0.25	20	0.89	2750	<1	0.04	1	1140	7	0.01	<2	3	116
S837493		10	<1	0.22	20	0.94	2310	<1	0.04	2	1130	6	0.12	<2	3	89
S837494		10	<1	0.21	20	0.92	2430	<1	0.04	1	1150	5	0.01	2	4	85
S837495		10	<1	0.23	20	1.03	3160	<1	0.04	1	1190	5	0.03	<2	3	147
S837496		10	1	0.19	10	0.97	2740	<1	0.03	1	1070	6	0.03	<2	3	129
S837497		10	<1	0.20	20	0.86	2340	<1	0.04	<1	1130	4	0.01	<2	3	104
S837498		10	<1	0.22	20	0.88	2840	<1	0.04	<1	1110	4	0.01	<2	3	147
S837499		10	<1	0.21	20	0.93	2750	<1	0.04	1	1160	8	<0.01	<2	4	100
S837500		10	<1	0.23	20	0.93	2710	<1	0.04	<1	1190	8	<0.01	<2	4	99
S837501		10	<1	0.21	20	0.89	2770	<1	0.04	1	1140	8	<0.01	<2	4	116
S837502		10	1	0.24	20	1.05	2680	<1	0.04	1	1140	9	0.04	<2	3	102
S837503		10	<1	0.24	20	1.20	3100	<1	0.04	1	1190	6	0.04	<2	3	103



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		Th	Ti	Ti	U	V	W	Zn	Cu
		ppm	%	ppm	ppm	ppm	ppm	ppm	%
		20	0.01	10	10	1	10	2	0.001
S837464		<20	0.03	<10	<10	76	<10	88	
S837465		<20	0.02	<10	<10	57	<10	92	
S837466		<20	0.02	<10	<10	70	<10	108	
S837467		<20	0.03	<10	<10	82	<10	120	
S837468		<20	0.02	<10	<10	85	<10	102	
S837469		<20	0.02	<10	<10	92	<10	126	
S837470		<20	0.07	<10	<10	44	<10	40	
S837471		<20	0.01	<10	<10	96	<10	142	
S837472		<20	0.02	<10	<10	85	<10	100	
S837473		<20	0.02	<10	<10	74	<10	96	
S837474		<20	0.02	<10	<10	87	<10	110	
S837475		<20	0.02	<10	<10	91	<10	106	
S837476		<20	0.02	<10	<10	82	<10	90	
S837477		<20	0.02	<10	<10	76	<10	96	
S837478		<20	0.02	<10	<10	84	<10	112	
S837479		<20	0.02	<10	<10	77	<10	118	
S837480		<20	0.02	<10	<10	78	<10	116	
S837481		<20	0.01	<10	<10	66	<10	130	
S837482		<20	0.01	<10	<10	74	<10	119	
S837483		<20	0.02	<10	<10	77	<10	87	
S837484		<20	0.02	<10	<10	80	<10	91	
S837485		<20	0.02	<10	<10	82	<10	80	
S837486		<20	0.02	<10	<10	64	<10	70	
S837487		<20	0.02	<10	<10	60	<10	71	
S837488		<20	0.02	<10	<10	68	<10	87	
S837489		<20	0.02	<10	<10	69	<10	82	
S837490		<20	0.08	<10	<10	43	<10	34	
S837491		<20	0.02	<10	<10	77	<10	92	
S837492		<20	0.03	<10	<10	55	<10	92	
S837493		<20	0.02	<10	<10	75	<10	88	
S837494		<20	0.02	<10	<10	86	<10	81	
S837495		<20	0.01	<10	<10	77	<10	103	
S837496		<20	0.01	<10	<10	71	<10	97	
S837497		<20	0.01	<10	<10	51	<10	87	
S837498		<20	0.02	<10	<10	63	<10	89	
S837499		<20	0.02	<10	<10	77	<10	87	
S837500		<20	0.02	<10	<10	82	<10	87	
S837501		<20	0.02	<10	<10	79	<10	83	
S837502		<20	0.02	<10	<10	81	<10	107	
S837503		<20	0.01	<10	<10	88	<10	129	



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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
S837504		2.31	0.002	<0.2	1.67	8	<10	1810	<0.5	3	2.84	<0.5	7	2	408	3.76
S837505		2.75	<0.001	<0.2	1.79	2	<10	350	<0.5	<2	2.04	<0.5	7	3	84	3.85
S837506		3.00	0.007	0.2	1.94	10	<10	1320	<0.5	<2	2.48	<0.5	8	2	130	4.16
S837507		2.46	0.039	0.5	1.96	25	<10	170	<0.5	<2	1.53	<0.5	10	1	252	4.46
S837508		2.26	0.001	0.2	1.47	5	<10	1170	<0.5	<2	3.10	<0.5	8	2	6	2.94
S837509		3.02	<0.001	<0.2	1.23	<2	<10	170	0.5	<2	3.19	<0.5	7	2	<1	2.88
S837510		1.74	<0.001	<0.2	0.57	<2	<10	90	<0.5	<2	0.58	<0.5	4	5	4	1.71
S837511		2.45	<0.001	<0.2	1.17	2	<10	560	0.5	<2	3.32	<0.5	6	2	1	3.08
S837512		2.59	<0.001	<0.2	1.27	2	<10	240	0.7	2	2.83	<0.5	7	1	1	3.43
S837513		1.85	<0.001	<0.2	1.35	<2	<10	490	0.6	<2	2.75	<0.5	8	2	1	3.06
S837514		2.25	0.001	<0.2	1.86	<2	<10	1220	0.6	2	2.13	<0.5	8	2	85	3.84
S837515		2.89	<0.001	0.2	2.06	3	<10	410	0.5	2	1.91	<0.5	9	2	57	4.53
S837516		2.78	0.016	<0.2	1.99	2	<10	700	<0.5	2	1.68	<0.5	7	1	40	4.39
S837517		2.43	0.004	<0.2	1.89	<2	<10	1110	<0.5	<2	2.04	<0.5	8	1	52	4.27
S837518		2.38	0.085	<0.2	1.96	6	<10	770	<0.5	<2	1.85	<0.5	8	2	110	4.34
S837519		0.99	0.014	<0.2	1.62	<2	<10	280	<0.5	<2	2.21	<0.5	7	1	6	3.52
S837520		1.70	0.002	<0.2	1.59	<2	<10	450	<0.5	<2	2.52	<0.5	7	2	5	3.51
S837521		2.49	0.010	<0.2	1.56	2	<10	590	0.6	<2	1.13	<0.5	6	1	4	3.40
S837522		2.95	0.130	0.5	1.95	11	<10	90	0.5	<2	1.64	<0.5	11	2	367	5.17
S837523		2.48	0.020	0.2	1.87	5	<10	340	0.5	<2	1.46	<0.5	10	3	69	4.63
S837524		3.32	0.004	<0.2	1.54	<2	<10	1130	<0.5	<2	2.81	<0.5	8	3	125	3.77
S837525		2.54	0.007	<0.2	1.60	<2	<10	950	<0.5	<2	2.82	<0.5	6	4	52	3.83
S837526		2.79	0.018	<0.2	1.72	<2	<10	450	<0.5	<2	3.01	<0.5	8	3	1	3.91
S837527		2.71	<0.001	<0.2	1.87	<2	<10	1140	0.5	<2	3.74	<0.5	9	3	28	3.96
S837528		2.72	0.001	<0.2	1.76	<2	<10	220	0.6	<2	3.17	<0.5	11	3	1	3.52
S837529		2.78	0.002	<0.2	1.63	<2	<10	250	0.6	<2	3.69	<0.5	12	2	<1	3.29
S837530		1.26	<0.001	<0.2	0.62	<2	<10	70	<0.5	<2	0.72	<0.5	3	6	2	1.72
S837531		2.89	0.002	<0.2	1.64	<2	<10	240	0.5	<2	3.08	<0.5	14	2	3	3.34
S837532		2.36	0.002	<0.2	1.47	<2	<10	280	0.5	<2	3.31	<0.5	10	2	<1	3.04
S837533		2.77	0.010	<0.2	1.60	<2	<10	360	0.5	<2	4.76	<0.5	9	4	1	3.18



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Project: Forrest Kerr

CERTIFICATE OF ANALYSIS TR17188184

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
S837504		10	<1	0.21	20	0.98	3170	<1	0.03	<1	1120	7	0.12	<2	3	144
S837505		10	<1	0.24	10	0.99	2830	<1	0.04	2	1170	<2	0.02	<2	3	87
S837506		10	<1	0.25	10	1.03	3090	<1	0.04	1	1080	5	0.08	<2	2	127
S837507		10	<1	0.27	10	1.09	2620	1	0.04	2	1220	7	0.64	2	2	76
S837508		<10	<1	0.29	20	0.97	2770	1	0.04	1	1140	7	0.15	3	3	149
S837509		<10	<1	0.31	20	0.79	2260	<1	0.05	1	1190	5	<0.01	2	3	107
S837510		<10	<1	0.09	10	0.26	410	<1	0.07	1	560	<2	0.03	2	1	44
S837511		<10	<1	0.33	20	0.72	2510	<1	0.05	1	1230	6	0.01	2	3	143
S837512		<10	<1	0.37	20	0.73	2220	<1	0.06	1	1260	6	0.01	4	3	154
S837513		<10	<1	0.33	20	0.91	2340	<1	0.06	1	1200	6	0.01	2	3	110
S837514		10	<1	0.33	20	1.05	3170	<1	0.05	1	1250	6	0.04	<2	3	144
S837515		10	<1	0.30	20	1.15	3590	<1	0.04	<1	1160	5	0.07	<2	3	93
S837516		10	<1	0.24	20	1.19	3490	<1	0.03	1	1220	2	0.02	<2	3	112
S837517		10	<1	0.26	20	1.11	3530	<1	0.03	1	1150	3	0.03	<2	3	133
S837518		10	<1	0.24	10	1.09	3290	<1	0.03	1	1000	2	0.05	<2	3	90
S837519		<10	<1	0.31	20	0.86	3050	<1	0.04	1	1200	3	0.01	<2	3	99
S837520		<10	<1	0.30	20	0.84	3170	<1	0.04	2	1140	6	0.01	2	3	114
S837521		<10	<1	0.36	20	0.75	2260	<1	0.04	1	1340	<2	0.02	<2	2	85
S837522		10	<1	0.30	10	0.94	3140	2	0.03	1	1120	7	1.20	2	2	99
S837523		10	<1	0.29	10	0.90	2810	<1	0.04	3	1200	8	0.70	<2	3	83
S837524		<10	<1	0.32	20	0.73	3200	<1	0.04	4	1230	5	0.11	2	3	166
S837525		<10	<1	0.29	20	0.81	3140	<1	0.04	3	1170	4	0.03	2	3	153
S837526		10	<1	0.26	20	0.99	3230	<1	0.04	4	1090	4	0.01	<2	3	155
S837527		10	<1	0.29	20	1.05	3810	<1	0.04	3	1040	2	0.10	3	3	212
S837528		<10	<1	0.32	20	1.06	3290	<1	0.05	2	1200	5	0.01	<2	4	153
S837529		10	<1	0.29	20	1.05	3220	<1	0.05	2	1250	4	0.01	<2	4	150
S837530		<10	<1	0.10	10	0.30	404	<1	0.07	1	520	3	0.01	<2	1	40
S837531		<10	<1	0.28	20	1.12	2680	<1	0.05	3	1180	2	0.01	2	3	137
S837532		<10	<1	0.30	20	0.93	2450	<1	0.05	2	1200	3	0.01	2	3	129
S837533		<10	<1	0.27	20	1.05	4040	<1	0.04	3	1100	3	0.01	<2	3	196



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-OG46
		Th	Ti	Ti	U	V	W	Zn	Cu
		ppm	%	ppm	ppm	ppm	ppm	ppm	%
		20	0.01	10	10	1	10	2	0.001
S837504		<20	0.01	<10	<10	66	<10	105	
S837505		<20	0.01	<10	<10	67	<10	115	
S837506		<20	<0.01	<10	<10	62	<10	125	
S837507		<20	<0.01	<10	<10	83	<10	130	
S837508		<20	0.01	<10	<10	127	<10	109	
S837509		<20	0.02	<10	<10	92	<10	83	
S837510		<20	0.08	<10	<10	43	<10	32	
S837511		<20	0.02	<10	<10	106	<10	73	
S837512		<20	0.02	<10	<10	130	10	67	
S837513		<20	0.02	<10	<10	105	<10	81	
S837514		<20	0.01	<10	<10	94	<10	122	
S837515		<20	0.01	<10	<10	85	<10	136	
S837516		<20	0.01	<10	<10	144	<10	138	
S837517		<20	0.01	<10	<10	116	<10	128	
S837518		<20	0.01	<10	<10	83	<10	136	
S837519		<20	0.01	<10	<10	59	<10	106	
S837520		<20	0.01	<10	<10	59	<10	105	
S837521		<20	<0.01	<10	<10	85	<10	97	
S837522		<20	<0.01	<10	<10	68	<10	125	
S837523		<20	<0.01	<10	<10	50	<10	119	
S837524		<20	0.01	<10	<10	52	<10	87	
S837525		<20	0.01	<10	<10	50	<10	86	
S837526		<20	0.01	<10	<10	56	<10	106	
S837527		<20	0.01	<10	<10	50	<10	125	
S837528		<20	0.02	<10	<10	60	<10	125	
S837529		<20	0.01	<10	<10	57	<10	120	
S837530		<20	0.08	<10	<10	38	<10	30	
S837531		<20	0.01	<10	<10	54	<10	110	
S837532		<20	0.01	<10	<10	53	<10	94	
S837533		<20	0.01	<10	<10	47	<10	126	



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CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Terrace located at 2912 Molitor Street, Terrace, BC, Canada.		
	CRU-31	CRU-QC	LOG-22
	PUL-QC	SPL-21	WEI-21
			PUL-31
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.		
	Au-ICP21	Cu-OG46	ME-ICP41
			ME-OG46



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 19-JAN-2018
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CERTIFICATE TR17188186

Project: Forrest Kerr

This report is for 113 Drill Core samples submitted to our lab in Terrace, BC, Canada on 30-AUG-2017.

The following have access to data associated with this certificate:

DEIRDRE HEFFERNAN	CORNELL MCDOWELL
-------------------	------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
LOG-24	Pulp Login - Rcd w/o Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: **ABEN RESOURCES LTD.**
ATTN: ALS GEOCHEMISTRY

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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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
S837534		2.54	0.016	1.4	1.83	4	<10	510	0.6	2	3.40	<0.5	6	9	1730	3.83
S837535		2.61	0.009	3.4	1.70	3	<10	830	0.5	3	5.16	<0.5	4	6	3460	3.87
S837536		2.79	0.001	0.2	1.98	2	<10	430	0.5	<2	3.00	<0.5	7	8	120	4.23
S837537		2.04	0.006	<0.2	2.04	2	<10	840	0.5	<2	3.26	<0.5	9	10	11	4.34
S837538		2.63	0.007	0.3	2.01	3	<10	490	<0.5	2	3.77	<0.5	13	7	217	4.55
S837539		1.69	0.029	<0.2	2.08	<2	<10	630	<0.5	<2	2.44	<0.5	8	6	4	4.64
S837540		1.57	<0.001	<0.2	2.03	2	<10	750	<0.5	<2	3.31	<0.5	8	5	5	4.37
S837541		2.42	0.009	<0.2	2.05	3	<10	360	<0.5	<2	2.10	<0.5	13	4	3	4.74
S837542		2.93	0.008	0.3	1.84	6	<10	160	0.5	<2	2.25	<0.5	13	4	5	4.73
S837543		2.76	0.004	<0.2	1.85	2	<10	960	0.7	<2	2.96	<0.5	7	2	89	4.29
S837544		2.56	0.025	0.2	2.09	<2	<10	550	<0.5	3	2.27	<0.5	8	3	14	5.12
S837545		2.77	0.031	0.2	2.56	5	<10	410	<0.5	2	1.87	<0.5	10	2	36	6.35
S837546		2.34	0.507	0.3	2.53	4	<10	970	<0.5	<2	2.12	<0.5	9	2	51	6.09
S837547		2.04	0.005	<0.2	2.34	2	<10	580	<0.5	<2	1.53	<0.5	7	2	3	5.41
S837548		2.76	<0.001	<0.2	2.11	<2	<10	360	<0.5	<2	1.61	<0.5	6	2	1	4.85
S837549		2.63	<0.001	<0.2	2.42	<2	<10	590	<0.5	<2	1.38	<0.5	6	2	15	5.73
S837550		1.16	<0.001	<0.2	0.53	<2	<10	50	<0.5	<2	0.50	<0.5	3	4	4	1.65
S837551		2.61	0.018	<0.2	2.19	<2	<10	330	<0.5	<2	1.80	<0.5	7	3	1	5.03
S837552		2.45	0.029	<0.2	2.40	2	<10	1300	<0.5	<2	1.74	<0.5	7	2	10	5.71
S837553		2.57	0.004	0.2	2.47	<2	<10	1110	<0.5	2	0.98	<0.5	6	4	108	5.73
S837554		2.79	0.006	0.2	2.40	<2	<10	930	<0.5	3	1.28	<0.5	6	2	358	5.61
S837555		2.89	<0.001	<0.2	2.28	2	<10	530	<0.5	<2	1.02	<0.5	6	2	200	5.09
S837556		2.78	0.038	0.4	3.17	5	<10	490	<0.5	2	1.19	<0.5	7	2	712	8.02
S837557		2.88	0.067	1.3	2.76	7	<10	230	<0.5	4	0.72	<0.5	11	3	3390	7.91
S837558		2.55	0.021	0.6	2.19	4	<10	270	<0.5	2	1.30	<0.5	9	4	633	5.58
S837559		1.05	<0.001	<0.2	2.69	<2	<10	760	<0.5	<2	1.27	<0.5	9	2	17	5.92
S837560		1.50	<0.001	<0.2	2.49	2	<10	1010	<0.5	<2	1.58	<0.5	8	2	9	5.42
S837561		2.42	<0.001	<0.2	2.17	<2	<10	350	0.5	<2	2.40	<0.5	9	2	21	4.87
S837562		2.54	0.001	<0.2	1.95	<2	<10	340	0.5	<2	2.25	<0.5	7	2	5	4.45
S837563		3.05	<0.001	<0.2	1.85	<2	<10	950	0.5	<2	2.58	<0.5	7	1	1	4.19
S837564		2.42	<0.001	<0.2	2.11	<2	<10	560	<0.5	<2	1.82	<0.5	8	2	4	4.77
S837565		2.95	0.004	<0.2	2.05	<2	<10	710	<0.5	<2	1.69	<0.5	7	3	23	4.52
S837566		2.93	0.013	<0.2	2.68	3	<10	350	<0.5	2	2.06	<0.5	12	2	49	6.26
S837567		2.53	0.065	0.4	2.42	10	<10	310	<0.5	3	1.54	<0.5	10	2	120	5.72
S837568		2.51	0.046	1.4	1.44	21	<10	70	<0.5	3	1.00	<0.5	16	1	1630	5.28
S837569		2.70	0.038	0.9	0.30	18	<10	50	0.5	<2	0.62	<0.5	16	1	11	3.85
S837570		1.04	<0.001	<0.2	0.49	<2	<10	110	<0.5	<2	0.50	<0.5	2	5	3	1.59
S837571		2.61	0.022	<0.2	1.60	<2	<10	680	<0.5	<2	2.62	<0.5	8	1	22	4.44
S837572		2.81	0.181	<0.2	1.89	<2	<10	1320	<0.5	<2	3.16	<0.5	6	1	47	4.60
S837573		2.86	0.002	<0.2	2.05	<2	<10	1010	<0.5	<2	2.76	<0.5	7	1	9	4.70



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
S837534		<10	1	0.27	20	0.91	3140	<1	0.04	4	1100	5	0.13	2	3	148
S837535		<10	<1	0.28	20	0.81	3780	<1	0.04	3	1030	7	0.26	2	3	215
S837536		10	<1	0.28	20	1.06	3220	<1	0.04	4	1100	5	0.06	2	3	134
S837537		10	<1	0.29	20	1.09	3520	<1	0.04	5	1130	3	0.15	<2	3	153
S837538		10	<1	0.25	20	1.14	4020	<1	0.04	3	1090	4	0.71	<2	3	138
S837539		10	<1	0.26	20	1.14	3470	<1	0.04	3	1180	2	0.21	<2	3	112
S837540		10	<1	0.26	20	1.09	3900	<1	0.04	3	1090	4	0.27	2	3	123
S837541		10	<1	0.24	10	1.17	3160	<1	0.04	3	1150	5	0.74	<2	3	85
S837542		<10	<1	0.28	10	0.99	2880	<1	0.04	3	1160	6	1.24	<2	3	119
S837543		10	<1	0.33	20	1.03	3320	<1	0.04	2	1270	5	0.23	2	2	155
S837544		10	<1	0.25	10	1.02	4020	<1	0.04	2	1070	5	0.57	<2	3	126
S837545		10	<1	0.23	10	1.26	4570	<1	0.03	1	960	5	0.84	<2	2	77
S837546		10	<1	0.21	10	1.19	4400	<1	0.03	2	1060	5	0.36	<2	3	126
S837547		10	<1	0.28	20	1.11	3980	<1	0.03	2	1170	2	0.06	<2	2	80
S837548		10	<1	0.26	20	1.03	3910	<1	0.03	2	1100	2	0.03	<2	2	73
S837549		10	<1	0.20	20	1.19	4430	<1	0.03	2	1060	3	0.03	<2	3	95
S837550		<10	<1	0.09	10	0.27	421	<1	0.07	1	540	2	0.05	<2	1	29
S837551		10	<1	0.22	20	1.08	4510	<1	0.04	2	1150	3	0.02	<2	3	98
S837552		10	<1	0.23	20	1.12	4710	<1	0.03	1	1050	3	0.08	<2	3	106
S837553		10	<1	0.14	10	1.22	4350	<1	0.03	2	1060	<2	0.09	<2	3	68
S837554		10	<1	0.18	20	1.19	4530	<1	0.03	1	1060	3	0.11	<2	3	73
S837555		10	<1	0.26	10	1.08	4350	<1	0.03	2	1070	2	0.08	<2	2	61
S837556		10	<1	0.18	10	1.48	5440	<1	0.02	1	790	2	0.60	<2	2	55
S837557		10	<1	0.15	10	1.29	4670	<1	0.02	1	670	5	1.30	<2	2	49
S837558		10	<1	0.22	10	1.03	4090	<1	0.03	1	880	4	0.74	<2	2	78
S837559		10	<1	0.21	20	1.45	4460	<1	0.04	3	1190	2	0.04	<2	3	88
S837560		10	<1	0.21	20	1.38	4440	<1	0.03	2	1180	<2	0.05	<2	3	96
S837561		10	<1	0.29	20	1.23	4010	<1	0.04	2	1210	5	0.02	<2	3	122
S837562		10	<1	0.25	20	1.00	3560	<1	0.03	2	1150	4	0.01	4	3	141
S837563		10	1	0.32	20	0.87	3400	<1	0.03	1	1200	4	0.03	<2	2	267
S837564		10	<1	0.25	20	1.11	3560	<1	0.04	1	1230	6	0.06	2	3	113
S837565		10	1	0.25	20	1.07	3650	<1	0.03	2	1200	3	0.09	2	3	108
S837566		10	1	0.22	20	1.51	4980	<1	0.02	1	1090	8	0.76	<2	3	102
S837567		10	<1	0.23	10	1.31	4430	<1	0.03	1	1120	7	0.81	2	3	75
S837568		<10	<1	0.21	10	0.71	2620	1	0.02	2	940	32	2.76	2	2	58
S837569		<10	1	0.24	<10	0.05	383	1	0.03	1	1070	55	4.27	<2	1	52
S837570		<10	<1	0.09	10	0.23	381	<1	0.06	<1	510	4	0.02	<2	1	38
S837571		<10	<1	0.28	20	0.97	3870	<1	0.03	1	1040	9	0.42	<2	3	217
S837572		10	<1	0.26	30	1.10	4090	<1	0.03	2	1050	2	0.04	<2	3	264
S837573		10	1	0.27	20	1.18	3830	<1	0.03	2	1100	3	0.06	2	3	176



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
S837534		<20	0.01	<10	<10	38	<10	91
S837535		<20	0.01	<10	<10	36	<10	76
S837536		<20	0.01	<10	<10	39	<10	108
S837537		<20	0.01	<10	<10	40	<10	113
S837538		<20	0.01	<10	<10	45	<10	111
S837539		<20	0.01	<10	<10	58	<10	113
S837540		<20	0.01	<10	<10	54	<10	107
S837541		<20	0.01	<10	<10	44	<10	118
S837542		<20	0.01	<10	<10	50	<10	102
S837543		<20	0.01	<10	<10	57	<10	113
S837544		<20	0.01	<10	<10	53	<10	132
S837545		<20	<0.01	<10	<10	48	<10	166
S837546		<20	<0.01	<10	<10	59	<10	169
S837547		<20	<0.01	<10	<10	51	<10	159
S837548		<20	0.01	<10	<10	49	<10	132
S837549		<20	0.01	<10	<10	57	<10	155
S837550		<20	0.07	<10	<10	39	<10	36
S837551		<20	0.01	<10	<10	56	<10	145
S837552		<20	0.01	<10	<10	62	<10	163
S837553		<20	<0.01	<10	<10	62	<10	178
S837554		<20	<0.01	<10	<10	60	<10	172
S837555		<20	<0.01	<10	<10	41	<10	150
S837556		<20	<0.01	<10	<10	55	<10	192
S837557		<20	<0.01	<10	<10	56	10	161
S837558		<20	<0.01	<10	<10	43	<10	142
S837559		<20	0.01	<10	<10	66	<10	177
S837560		<20	0.01	<10	<10	61	<10	164
S837561		<20	0.01	<10	<10	69	<10	136
S837562		<20	0.02	<10	<10	59	<10	111
S837563		<20	0.01	<10	<10	48	<10	105
S837564		<20	0.02	<10	<10	67	<10	131
S837565		<20	0.01	<10	<10	57	<10	128
S837566		<20	<0.01	<10	<10	51	<10	190
S837567		<20	<0.01	<10	<10	47	<10	160
S837568		<20	<0.01	<10	<10	25	<10	99
S837569		<20	<0.01	<10	<10	6	<10	15
S837570		<20	0.07	<10	<10	38	<10	31
S837571		<20	<0.01	<10	<10	31	<10	126
S837572		<20	0.01	<10	<10	45	<10	145
S837573		<20	0.01	<10	<10	45	<10	153



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Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
LOR		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
S837574		3.04	0.018	0.7	2.22	2	<10	330	<0.5	<2	3.22	<0.5	12	1	837	5.75
S837575		2.83	0.001	<0.2	2.13	<2	<10	740	<0.5	<2	2.13	<0.5	10	1	8	4.91
S837576		2.14	0.020	0.4	1.73	3	<10	300	0.5	3	1.78	<0.5	10	1	189	4.39
S837577		2.22	0.009	0.2	1.86	4	<10	240	<0.5	<2	1.91	<0.5	12	1	29	4.84
S837578		2.37	0.002	<0.2	2.16	2	<10	500	0.5	<2	2.22	<0.5	10	1	160	4.83
S837579		1.68	0.011	0.2	1.65	<2	<10	230	0.6	2	2.24	<0.5	12	1	78	4.09
S837580		1.13	0.005	<0.2	1.78	<2	<10	470	0.6	<2	2.35	<0.5	11	1	141	4.14
S837581		2.31	0.003	<0.2	1.77	<2	<10	560	0.5	<2	2.83	<0.5	9	1	125	3.81
S837582		2.40	0.075	1.2	1.94	3	<10	60	<0.5	4	1.37	5.1	17	1	1810	6.12
S837583		2.33	0.005	<0.2	1.82	3	<10	570	<0.5	<2	1.87	<0.5	11	1	31	4.05
S837584		2.55	0.002	0.2	1.66	<2	<10	680	<0.5	<2	2.55	<0.5	10	1	212	3.59
S837585		2.50	0.001	<0.2	1.39	<2	<10	620	0.5	<2	2.76	<0.5	10	1	129	3.26
S837586		2.97	<0.001	<0.2	1.25	2	<10	930	0.6	<2	2.82	<0.5	8	<1	53	3.16
S837587		2.38	0.001	0.2	2.17	2	<10	290	<0.5	<2	1.77	<0.5	10	1	6	5.53
S837588		2.73	0.015	0.2	1.81	5	<10	170	<0.5	<2	2.31	<0.5	12	1	11	5.04
S837589		2.67	0.009	0.7	1.62	5	<10	130	<0.5	<2	3.31	<0.5	11	1	546	4.59
S837590		1.22	<0.001	<0.2	0.52	<2	<10	60	<0.5	<2	0.47	<0.5	2	4	3	1.74
S837591		2.53	0.005	0.2	1.59	4	<10	110	0.5	<2	2.17	<0.5	10	1	227	4.15
S837592		2.69	0.002	<0.2	1.27	<2	<10	800	0.5	<2	3.47	<0.5	9	1	37	2.96
S837593		2.74	0.002	<0.2	1.14	<2	<10	2130	0.5	<2	3.89	<0.5	7	1	3	2.88
S837594		2.86	0.007	<0.2	2.11	2	<10	210	0.5	2	3.36	<0.5	12	1	199	5.06
S837595		2.54	0.005	<0.2	1.33	4	<10	50	0.5	<2	2.79	<0.5	12	1	68	4.16
S837596		2.35	0.003	<0.2	1.70	3	<10	240	0.5	<2	2.96	<0.5	10	1	10	3.78
S837597		2.69	0.002	<0.2	1.50	2	<10	490	<0.5	<2	2.39	<0.5	9	1	3	2.82
S837598		2.52	0.001	<0.2	1.58	<2	<10	1130	<0.5	<2	3.12	<0.5	6	1	5	2.76
S837599		1.49	0.001	<0.2	1.65	<2	<10	780	<0.5	<2	3.00	<0.5	8	1	4	2.95
S837600		1.84	0.001	<0.2	1.71	<2	<10	1030	<0.5	<2	3.05	<0.5	8	1	3	3.00
S837601		2.32	<0.001	<0.2	1.62	<2	<10	470	0.5	<2	3.91	<0.5	8	1	1	2.75
S837602		2.31	<0.001	<0.2	1.62	<2	<10	770	<0.5	<2	2.80	<0.5	9	1	7	2.75
S837603		2.72	0.002	<0.2	1.44	3	<10	260	0.5	<2	3.49	<0.5	12	1	357	3.14
S837604		2.63	0.002	<0.2	1.53	3	<10	430	<0.5	<2	3.28	0.7	10	1	167	3.09
S837605		2.71	0.012	0.3	1.28	7	<10	30	<0.5	<2	3.69	29.6	11	1	176	3.82
S837606		2.97	0.004	<0.2	1.37	5	<10	110	<0.5	<2	2.88	9.1	9	1	42	3.43
S837607		2.58	<0.001	<0.2	1.68	<2	<10	870	<0.5	<2	3.01	0.6	9	1	3	2.81
S837608		2.75	0.002	<0.2	1.53	2	<10	580	0.5	<2	3.26	3.1	9	<1	12	3.03
S837609		2.73	0.002	<0.2	1.41	2	<10	560	0.5	<2	3.82	5.1	10	1	53	3.13
S837610		1.57	<0.001	<0.2	0.56	<2	<10	70	<0.5	<2	0.53	<0.5	3	3	3	1.75
S837611		2.27	0.015	0.6	1.48	8	<10	40	0.5	<2	2.41	19.4	12	1	913	4.51
S837612		2.80	0.016	<0.2	1.72	6	<10	80	0.5	<2	2.37	15.1	11	1	197	4.05
S837613		2.77	0.035	0.8	1.46	9	<10	50	0.5	2	2.09	21.4	12	1	625	4.89



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		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
S837574		10	1	0.27	20	1.15	4140	<1	0.02	1	1050	8	1.10	<2	3	130
S837575		10	1	0.28	20	1.08	3360	<1	0.02	2	1130	6	0.38	<2	3	143
S837576		<10	<1	0.29	10	0.88	2880	<1	0.03	1	1150	11	1.12	3	2	108
S837577		10	1	0.28	20	1.01	3090	<1	0.02	2	1100	10	1.32	<2	2	100
S837578		10	1	0.29	20	1.23	3480	<1	0.02	2	1150	6	0.40	2	3	133
S837579		<10	<1	0.32	20	0.88	2710	<1	0.03	2	1260	9	1.05	2	3	139
S837580		<10	1	0.31	20	0.98	2930	<1	0.03	1	1200	6	0.64	<2	3	145
S837581		<10	1	0.29	20	0.98	3030	<1	0.03	2	1190	5	0.50	<2	3	155
S837582		10	1	0.21	10	1.07	2820	1	0.02	1	980	165	2.70	<2	2	81
S837583		<10	<1	0.29	20	1.07	2810	<1	0.03	2	1130	8	0.56	<2	2	121
S837584		<10	1	0.33	20	0.99	2900	<1	0.03	2	1120	7	0.53	<2	2	173
S837585		<10	<1	0.37	20	0.81	2780	<1	0.03	1	1220	7	0.39	2	3	197
S837586		<10	1	0.34	20	0.96	3380	<1	0.03	1	1140	7	0.19	2	3	213
S837587		10	1	0.23	10	1.21	3820	<1	0.03	2	1060	9	0.89	2	3	132
S837588		10	<1	0.25	10	1.01	3600	<1	0.03	1	1140	10	1.48	<2	3	144
S837589		<10	1	0.29	10	1.14	3780	<1	0.03	1	1040	9	1.21	<2	2	277
S837590		<10	<1	0.10	10	0.27	434	<1	0.07	1	520	2	0.02	<2	1	27
S837591		<10	1	0.27	10	1.10	3120	<1	0.03	1	1060	9	1.53	<2	2	147
S837592		<10	1	0.31	20	0.79	3190	<1	0.03	1	1160	6	0.44	2	3	264
S837593		<10	<1	0.33	20	0.85	3200	<1	0.03	1	1130	5	0.09	2	3	319
S837594		10	1	0.31	10	1.25	3740	<1	0.03	1	1070	11	0.78	2	3	246
S837595		<10	<1	0.29	10	0.83	2790	<1	0.03	1	1100	15	2.39	3	2	181
S837596		<10	<1	0.30	10	1.04	3240	<1	0.03	1	1140	7	0.97	2	2	162
S837597		<10	1	0.26	20	0.87	2520	<1	0.03	2	1120	3	0.42	2	3	128
S837598		10	<1	0.29	20	0.84	2650	<1	0.03	5	1090	4	0.06	2	3	172
S837599		<10	<1	0.26	10	0.98	2730	<1	0.03	2	1070	2	0.07	2	3	159
S837600		10	1	0.27	10	0.97	2740	<1	0.03	1	1090	3	0.10	2	3	161
S837601		<10	1	0.31	20	0.84	3060	<1	0.04	2	1140	3	0.05	2	3	178
S837602		<10	<1	0.28	20	1.01	2750	<1	0.04	2	1110	2	0.22	2	3	143
S837603		<10	<1	0.30	20	0.84	2930	<1	0.04	1	1120	6	1.01	3	3	162
S837604		<10	<1	0.27	20	0.94	2990	<1	0.04	1	1160	6	0.73	3	3	174
S837605		<10	3	0.25	10	0.85	2940	<1	0.04	1	1170	24	2.70	2	3	158
S837606		<10	1	0.26	10	0.92	2820	<1	0.04	1	1130	10	1.85	3	2	139
S837607		<10	1	0.30	20	1.14	3200	<1	0.04	2	1170	3	0.34	2	3	189
S837608		<10	1	0.33	20	1.18	3330	<1	0.04	1	1200	61	0.61	<2	3	234
S837609		<10	1	0.31	20	1.05	3300	<1	0.04	1	1190	11	0.54	<2	3	282
S837610		<10	<1	0.09	10	0.27	399	<1	0.06	<1	530	3	0.02	<2	1	33
S837611		<10	2	0.27	10	0.95	2710	<1	0.04	2	1280	46	2.91	2	3	178
S837612		<10	1	0.29	20	1.12	2950	<1	0.04	2	1270	13	1.87	<2	3	174
S837613		<10	1	0.28	10	0.93	2510	1	0.04	2	1200	36	3.47	<2	2	133



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
S837574		<20	<0.01	<10	<10	41	<10	164
S837575		<20	0.01	<10	<10	44	<10	140
S837576		<20	<0.01	<10	<10	31	<10	120
S837577		<20	<0.01	<10	<10	32	<10	120
S837578		<20	0.01	<10	<10	41	<10	126
S837579		<20	<0.01	<10	<10	33	<10	90
S837580		<20	0.01	<10	<10	35	<10	99
S837581		<20	0.01	<10	<10	36	<10	105
S837582		<20	<0.01	<10	<10	34	<10	594
S837583		<20	<0.01	<10	<10	34	<10	152
S837584		<20	0.01	<10	<10	34	<10	163
S837585		<20	0.01	<10	<10	33	<10	153
S837586		<20	<0.01	<10	<10	25	<10	202
S837587		<20	<0.01	<10	<10	43	<10	154
S837588		<20	<0.01	<10	<10	36	<10	127
S837589		<20	<0.01	<10	<10	24	<10	124
S837590		<20	0.08	<10	<10	41	<10	34
S837591		<20	<0.01	<10	<10	25	<10	151
S837592		<20	0.01	<10	<10	29	<10	134
S837593		<20	0.01	<10	<10	33	<10	107
S837594		<20	<0.01	<10	<10	33	<10	163
S837595		<20	<0.01	<10	<10	23	<10	99
S837596		<20	<0.01	<10	<10	31	<10	123
S837597		<20	0.01	<10	<10	37	<10	104
S837598		<20	0.01	<10	<10	38	<10	107
S837599		<20	0.01	<10	<10	37	<10	126
S837600		<20	0.01	<10	<10	38	<10	124
S837601		<20	0.01	<10	<10	41	<10	125
S837602		<20	<0.01	<10	<10	37	<10	169
S837603		<20	<0.01	<10	<10	30	<10	168
S837604		<20	0.01	<10	<10	34	<10	319
S837605		<20	<0.01	<10	<10	29	<10	5210
S837606		<20	<0.01	<10	<10	27	<10	1780
S837607		<20	<0.01	<10	<10	32	<10	405
S837608		<20	<0.01	<10	<10	26	<10	772
S837609		<20	<0.01	<10	<10	29	<10	994
S837610		<20	0.08	<10	<10	41	<10	36
S837611		<20	<0.01	<10	<10	29	<10	3390
S837612		<20	<0.01	<10	<10	34	<10	2710
S837613		<20	<0.01	<10	<10	27	<10	3640



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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
S837614		2.72	0.034	1.1	1.64	3	<10	50	0.5	<2	2.71	13.8	12	1	2710	4.44
S837615		2.75	0.013	0.6	1.81	8	<10	40	0.6	<2	1.67	1.3	13	1	167	5.30
S837616		2.50	0.090	1.7	2.43	12	<10	40	0.6	2	1.21	<0.5	18	1	664	7.68
S837617		2.26	0.113	2.2	1.73	10	<10	30	0.6	<2	1.09	31.8	14	1	330	5.90
S837618		2.66	0.808	7.2	1.67	11	<10	40	0.5	5	2.31	37.7	13	1	494	5.23
S837619		2.73	0.282	3.2	1.62	12	<10	50	0.6	<2	2.54	34.3	13	1	520	5.23
S837620		1.11	0.277	6.9	1.37	14	<10	20	0.5	8	2.23	2.1	16	1	3260	6.19
S837621		1.18	0.217	5.4	1.38	14	<10	20	0.5	5	1.93	2.4	16	1	2380	6.07
S837622		3.03	0.034	0.8	1.86	8	<10	60	0.5	<2	1.61	1.6	13	1	229	5.47
S837623		2.55	0.004	<0.2	1.70	2	<10	400	<0.5	<2	4.10	<0.5	10	1	36	3.58
S837624		2.82	<0.001	<0.2	1.89	<2	<10	1520	0.5	<2	4.14	<0.5	9	1	2	3.54
S837625		2.40	0.001	<0.2	1.61	<2	<10	710	0.5	<2	3.13	<0.5	8	1	3	3.17
S837626		2.77	0.004	<0.2	1.76	<2	<10	690	0.5	<2	3.12	<0.5	10	1	2	3.53
S837627		2.41	0.015	<0.2	1.73	3	<10	140	0.5	<2	3.93	<0.5	13	1	4	4.11
S837628		2.90	0.048	0.7	1.10	12	<10	40	0.6	2	1.22	<0.5	14	1	117	5.44
S837629		2.80	0.144	1.8	0.91	68	<10	10	0.6	6	1.47	1.2	26	1	776	7.39
S837630		0.06	0.321	2.0	1.78	28	10	70	<0.5	<2	0.76	3.4	12	25	2360	4.82
S837631		2.72	0.035	0.3	1.76	9	<10	50	<0.5	<2	2.42	0.9	13	1	20	5.11
S837632		2.35	0.008	<0.2	1.88	3	<10	320	<0.5	<2	2.87	<0.5	10	1	12	4.29
S837633		2.09	0.003	<0.2	2.20	2	<10	670	<0.5	<2	2.89	<0.5	8	1	3	4.57
S837634		2.35	0.047	0.4	1.67	8	<10	90	<0.5	<2	2.58	<0.5	12	2	9	4.71
S837635		2.29	0.340	0.5	1.88	9	<10	60	<0.5	6	1.79	<0.5	14	3	11	5.60
S837636		2.22	0.384	0.8	1.47	10	<10	50	<0.5	5	1.74	<0.5	14	3	30	5.33
S837637		2.86	0.061	0.3	1.65	5	<10	90	<0.5	4	2.66	<0.5	14	2	17	4.56
S837638		2.53	0.002	0.2	1.43	<2	<10	540	<0.5	2	3.47	<0.5	7	1	3	3.33
S837639		2.33	<0.001	<0.2	1.35	3	<10	240	<0.5	<2	2.97	<0.5	7	1	1	3.21
S837640		1.34	<0.001	<0.2	0.49	<2	<10	60	<0.5	<2	0.48	<0.5	3	4	2	1.53
S837641		2.50	0.001	<0.2	1.12	2	<10	2360	<0.5	<2	5.31	<0.5	6	2	<1	3.15
S837642		2.60	0.003	0.2	1.30	<2	<10	650	<0.5	2	3.66	<0.5	7	1	1	3.25
S837643		2.68	0.001	0.2	1.58	2	<10	290	<0.5	<2	3.55	<0.5	7	1	<1	3.42
S837644		0.84	4.80	0.4	0.07	6	<10	<10	<0.5	<2	0.30	<0.5	2	11	41	0.55
S837645		2.21	2.61	0.5	0.10	7	<10	<10	<0.5	<2	0.74	<0.5	5	15	73	0.52
S837646		0.21	0.002	6.8	0.14	33	<10	90	0.5	<2	4.15	<0.5	17	92	88	5.29



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		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
S837614		<10	1	0.30	10	1.06	2940	<1	0.04	1	1180	108	2.49	2	2	173
S837615		<10	1	0.31	10	1.17	2650	<1	0.04	2	1300	22	3.24	2	2	116
S837616		10	<1	0.31	10	1.59	3350	1	0.04	3	1510	34	4.68	4	3	94
S837617		<10	3	0.31	20	1.10	2250	1	0.04	2	1350	37	4.50	2	2	92
S837618		10	3	0.28	10	1.04	2970	<1	0.04	1	1210	37	3.50	4	2	151
S837619		<10	2	0.30	10	0.98	2950	1	0.04	2	1260	39	3.62	3	3	139
S837620		<10	1	0.28	10	0.80	2690	3	0.04	2	1140	82	4.99	4	2	124
S837621		<10	1	0.28	10	0.80	2450	2	0.04	2	1160	72	4.83	<2	2	111
S837622		10	1	0.31	10	1.09	2580	1	0.04	2	1260	45	3.04	<2	2	106
S837623		<10	1	0.30	10	1.01	3190	<1	0.04	1	1040	5	0.76	3	2	248
S837624		10	1	0.34	20	1.14	3250	<1	0.04	1	1270	4	0.06	2	3	275
S837625		<10	<1	0.32	20	0.89	2420	<1	0.04	1	1210	2	0.05	3	2	167
S837626		10	1	0.32	20	0.96	2610	<1	0.04	1	1280	5	0.43	2	3	172
S837627		10	<1	0.34	20	0.98	2970	<1	0.04	1	1300	8	1.36	4	3	183
S837628		<10	<1	0.31	10	0.56	1390	1	0.04	2	1340	19	4.79	<2	2	84
S837629		<10	1	0.27	10	0.44	1395	2	0.04	2	1110	60	8.00	2	2	68
S837630		<10	1	0.33	<10	0.54	917	18	0.06	18	710	60	2.97	2	2	63
S837631		10	1	0.29	10	1.06	3110	2	0.03	1	1240	32	2.67	<2	2	120
S837632		10	<1	0.31	20	1.02	2990	<1	0.04	1	1360	7	0.88	<2	2	158
S837633		10	1	0.28	20	1.18	3470	<1	0.04	1	1370	3	0.20	2	3	158
S837634		<10	<1	0.28	10	0.92	2820	1	0.04	4	1160	10	1.93	<2	2	125
S837635		10	<1	0.24	10	1.12	2750	2	0.03	2	1160	9	2.58	<2	2	82
S837636		<10	<1	0.27	10	0.82	2220	2	0.04	2	1160	16	3.35	<2	2	82
S837637		<10	<1	0.28	10	0.96	2840	1	0.04	2	1190	7	1.88	<2	2	119
S837638		<10	<1	0.28	20	0.83	2660	<1	0.05	<1	1260	4	0.05	<2	2	209
S837639		<10	<1	0.29	20	0.80	2150	<1	0.05	<1	1180	4	0.03	<2	2	165
S837640		<10	<1	0.08	10	0.25	345	<1	0.06	1	530	2	0.03	<2	1	27
S837641		<10	<1	0.28	10	0.61	2540	<1	0.04	1	1110	5	0.08	<2	2	378
S837642		<10	<1	0.31	20	0.74	2180	<1	0.04	1	1210	4	0.03	<2	2	218
S837643		<10	<1	0.32	20	0.92	2510	<1	0.04	1	1170	4	0.03	<2	2	201
S837644		<10	<1	0.01	<10	0.04	61	<1	0.01	1	10	<2	0.04	<2	<1	3
S837645		<10	<1	<0.01	<10	0.06	63	<1	0.01	6	<10	<2	0.02	<2	<1	4
S837646		<10	<1	0.12	<10	1.32	984	16	0.02	46	1130	14	1.18	3	7	217



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		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
S837614		<20	<0.01	<10	<10	30	<10	2380
S837615		<20	<0.01	<10	<10	30	<10	431
S837616		<20	<0.01	<10	<10	44	<10	273
S837617		<20	<0.01	<10	<10	34	<10	5400
S837618		<20	<0.01	<10	<10	32	<10	6230
S837619		<20	<0.01	<10	<10	35	<10	5370
S837620		<20	<0.01	<10	<10	29	<10	386
S837621		<20	<0.01	<10	<10	29	<10	448
S837622		<20	<0.01	<10	<10	38	<10	426
S837623		<20	<0.01	<10	<10	38	<10	163
S837624		<20	0.01	<10	<10	48	<10	141
S837625		<20	0.01	<10	<10	43	<10	92
S837626		<20	0.01	<10	<10	41	<10	90
S837627		<20	0.01	<10	<10	36	<10	102
S837628		<20	<0.01	<10	<10	21	<10	124
S837629		<20	<0.01	<10	<10	17	<10	236
S837630		<20	0.03	<10	<10	29	<10	679
S837631		<20	<0.01	<10	<10	32	<10	276
S837632		<20	0.01	<10	<10	39	<10	112
S837633		<20	0.01	<10	<10	52	<10	121
S837634		<20	<0.01	<10	<10	33	<10	105
S837635		<20	<0.01	<10	<10	37	<10	126
S837636		<20	<0.01	<10	<10	28	<10	94
S837637		<20	<0.01	<10	<10	34	<10	100
S837638		<20	0.02	<10	<10	41	<10	78
S837639		<20	0.02	<10	<10	39	<10	73
S837640		<20	0.06	<10	<10	35	<10	30
S837641		<20	0.02	<10	<10	38	<10	58
S837642		<20	0.01	<10	<10	37	<10	71
S837643		<20	0.01	<10	<10	37	<10	83
S837644		<20	0.01	<10	<10	5	<10	6
S837645		<20	<0.01	<10	<10	9	<10	4
S837646		<20	<0.01	<10	<10	17	50	81



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Total # Appendix Pages: 1
Finalized Date: 4-OCT-2017
Account: CONBAA

Project: Forrest Kerr

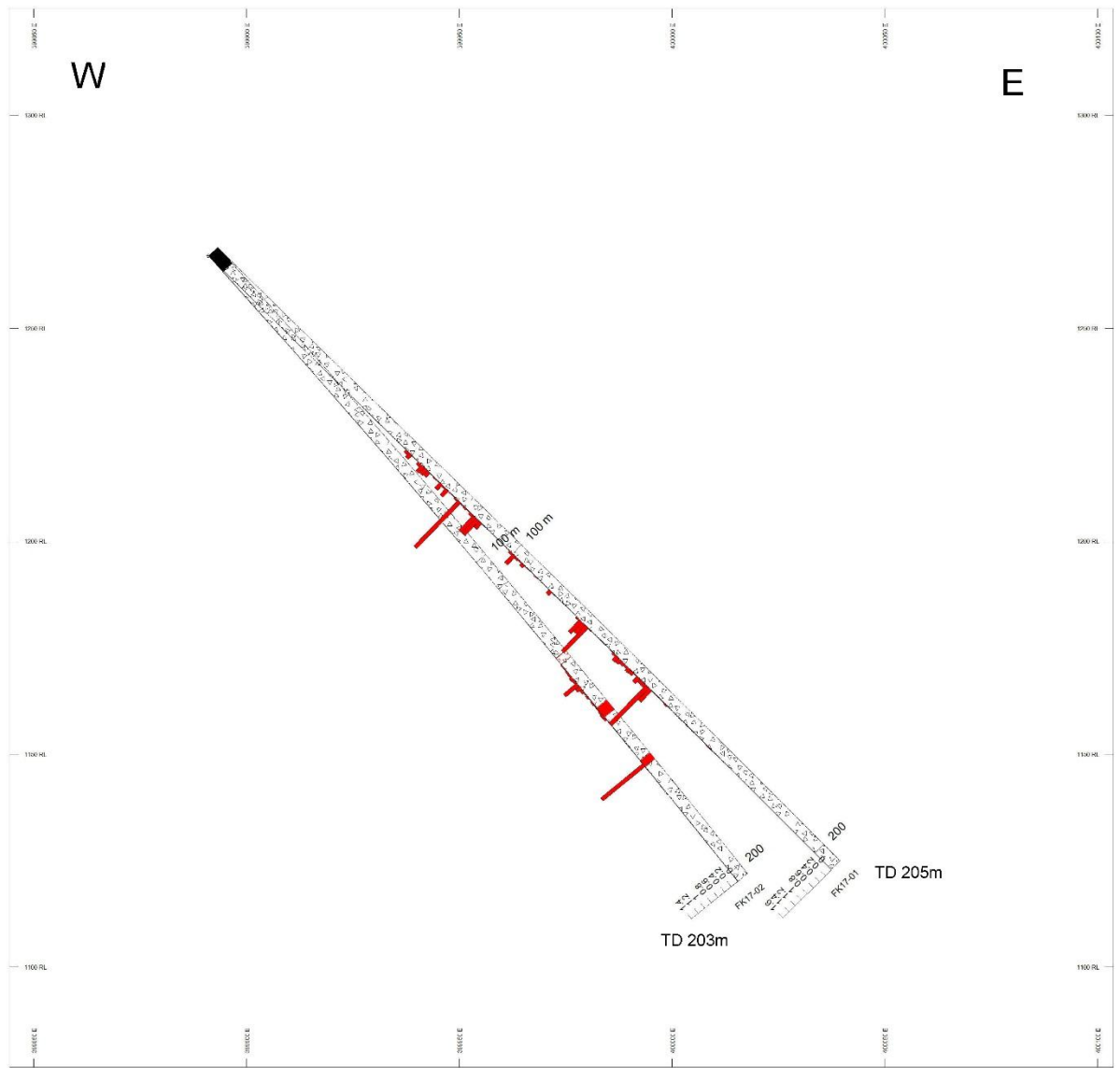
CERTIFICATE OF ANALYSIS TR17188186

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

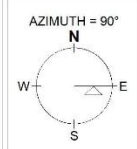
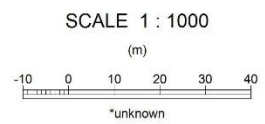
Applies to Method:	Processed at ALS Terrace located at 2912 Molitor Street, Terrace, BC, Canada.			
	CRU-31	CRU-QC	LOG-22	LOG-24
	PUL-31	PUL-QC	SPL-21	WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.			
	Au-ICP21	ME-ICP41		

APPENDIX F: Drill Sections and Drill Core QA/QC summary



BAR GRAPHS	L/R	COL	
Au_PPM	L		█

ROCK CODES	PAT	LABEL	DESCRIPTION
Lithology	█	FALT	
	█	CASING	casing
	█	DACT ff	dacite tuff
	█	QZVN bx	qtz vein breccia



Aben Resources
Forrest Kerr Property
FK17-01 & 02
Au