

GEOLOGICAL AND GEOCHEMICAL REPORT ON THE BEN PROPERTY

QUARTZ CLAIMS: BEN 1 TO BEN 80 (YE39001 – YD39080)

**WATSON LAKE MINING DIVISION, YUKON
MAPSHEETS: 105O/01 & 105P/04
UTM: 6997000N, 448500E, NAD83, ZONE 9**

for

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by

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SUMMARY

The Ben Property, owned by Colorado Resources Ltd. ("Colorado"), comprises base and precious metal targets located southeast of the MacMillan Pass airstrip in northeastern Yukon. The Ben Property is largely underlain by the middle Devonian MacMillan Pass Member Shale Facies unit. This unit appears to form a broad syncline with its axis roughly paralleling westerly flowing Ben Creek near the centre of the property. Above the Shale Facies is a narrow band of chert and black shale of the Niddery Lake Member, which is in turn overlain by Silurian-Devonian black shales and silty limestones of the Sapper Formation. South of Ben Creek is a prominent Cretaceous granitic intrusion, with a mapped diameter of approximately 800 metres. There is a 200 metre wide southerly trending apophysis off this intrusion that runs for about one kilometre from the main body.

An examination of the geology shows that the structural setting of HudBay's Tom deposit and that of the Ben claims is similar. Firstly, both occur north of a major granitic stock and northeast of minor bodies of quartz feldspar porphyry. Secondly, major structures trend northwesterly and are crossed by minor, northerly trending structures. Thirdly, the apparent host rocks are of similar age and character.

The only previously recorded work on the Ben Property was by Spartan Explorations Ltd. ("Spartan") in 1968. This work consisted of a small soil and rock sampling program which returned elevated lead-zinc-copper-molybdenum values north of Ben Creek.

Until 2011, no work had been done on the property since Spartan held the claims. In 2011, Colorado contracted Fugro to do an airborne magnetic and electromagnetic survey on the Ben Property and a crew spent two days prospecting, rock and soil sampling.

Airborne geophysical plots of apparent resistivity identify the Cretaceous intrusive unit in the southwest portion of the claim block. There are also zones of higher apparent resistivity in the southeast and northern portions of the claims. These additional features may be related to un-mapped or buried intrusives similar to that seen in the southwest. These intrusive bodies are known to be associated with gold mineralization on the Ben Property, so are important features for follow-up exploration work.

Work done by Colorado in 2011 and 2012 has determined that soil and rock geochemistry identified gold-arsenic-lead mineralization associated with the Cretaceous intrusive unit and silver-zinc mineralization associated with black shales and limey siltstones of the Niddery Lake and Sapper Formations. Spotty gold-arsenic values are also found within the limey siltstones of the Sapper Formation, which are a good host for Carlin style gold mineralization.

On the Ben Property, Tom style sedex lead-zinc-silver targets and two potential styles of gold mineralization are present. North of Ben Creek, the limey siltstones of the Sapper Formation are favourable host units for Carlin type gold mineralization where suitable structures exist. To the south of Ben Creek, the coincident gold-arsenic values suggest

the presence of intrusive-related “Tombstone” type gold mineralization. Further surface exploration is necessary to determine whether gold mineralization occurs as replacement zones in reactive sediments (Carlin-style), or within stockwork or veins in brittle sediments and associated intrusions (Tombstone-style).

For 2013, a two phase exploration program is recommended for the Ben Property. Phase I will consist of continued soil sampling throughout much of the claim block, concentrating on contacts and structures, both in the intrusive unit and in the shale and limey siltstones of the Nidderly Lake and Sapper Formations. A total of 1000 soil samples should be collected at 50 metre intervals on initial lines spaced 200 metres apart. Geological mapping and prospecting/rock sampling is to be done in conjunction with the soil sampling program in order to define contact areas, structures and mineralized zones.

If results warrant, a Phase II exploration program consisting of a small excavator trenching and six hole diamond drilling program is recommended. Trenching and drilling will be designed to test the best coincident geochemical, geological and geophysical targets. The excavator trenches will be located where ground conditions allow and will dug using a helicopter portable mini-excavator. Where ground conditions are not amenable to trenching, diamond drilling will be utilized to test the target areas.

The Phase I exploration program is budgeted at \$125,000. Phase II is dependent upon the results of the Phase I program and is budgeted at \$750,000.

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1) INTRODUCTION

The Ben Property, comprising both lead-zinc-silver and gold targets, is located along a tributary to the South MacMillan River, 8.5 kilometres southeast of MacMillan Pass Airstrip in northeastern Yukon. The property is owned 100% by Colorado Resources Ltd. ("Colorado").

Colorado acquired this property after examination of an historic assessment report documenting a previous exploration program, and noting that along with sedex type geochemical anomalies, the host rock lithologies are amenable for either Carlin type or intrusive related gold mineralization.

In 2011, Colorado conducted an airborne geophysical survey followed by a small soil sampling and prospecting program on the property. In 2012, follow-up soil sampling, prospecting and rock sampling confirmed the presence of gold and associated indicator elements, plus lead-zinc mineralization. The 2012 work program is the subject of this report.

2) LOCATION AND ACCESS

The Ben Property is located along a tributary of the South MacMillan River, 200 kilometres northeast of Ross River, in the Watson Lake Mining District, Yukon (Figure 1). The claims cover an area of approximately 1672 hectares and are centred at UTM 6997000N, 448500E (Zone 9) on mapsheets 105O/01 and 105P/04.

Access to the Ben Property is via helicopter from the MacMillan Pass Airstrip (8.5 kilometres to the northeast) or the North Canol Highway (7 kilometres to the west).

3) PHYSIOGRAPHY

The topography of the MacMillan Pass region is characterized by rugged mountainous areas separated by broad valleys. The Ben Property has a broad marshy river valley on its west border with an elevation of 1145 metres. The claim block is bisected by Ben Creek which trends roughly east-west and flows into the western river. Ben Creek has a steep sided canyon, making access in this area difficult. To the north of Ben Creek terrain has relatively moderate relief, while on the south side the granitic rocks form imposing ridges with maximum elevations of 2050 metres.

The entire property is covered by typical northern boreal spruce and fir forest at lower elevations. The western portion of the property, near the river is boggy and covered by deep moss. The higher elevations have typical alpine grasses and vegetation.

4) CLAIM INFORMATION

The Ben Property is located within the Watson Lake Mining District and consists of 80 quartz claims totaling 1672 hectares (Figure 2). The claims all have a common expiry date of April 15, 2019. Claim information is listed in Table I.

**TABLE I
CLAIM INFORMATION**

Claim Names	Tenure #s	Ownership	Expiry Dates
BEN 1 – BEN 80	YE39001 – YD39080	COLORADO RESOURCES LTD.	APRIL 15, 2019

5) HISTORY

The mineral potential of this region was first identified in 1943 during the construction of the Canol Road. At this time a large gossan was noted in Macmillan Pass, and it has been reported that the lead-zinc-silver mineralization currently being developed by HudBay Minerals Inc. (“HudBay”) on the Tom claims was recognized at that time. HudBay conducted preliminary prospecting programs throughout a broad part of the eastern Yukon in 1953, when they staked the Tom claims.

The Ben Property area was targeted by Spartan Explorations Ltd. (“Spartan”) in 1968, while conducting extensive sampling programs over the favourable lithologies and structures in the MacMillan Pass area. They were targeting both lead-zinc-silver targets, such as HudBay’s Tom deposit and tungsten mineralization as found at Mac Tung.

Spartan’s program was designed for 'saturation coverage' of their project area, with sample density designed so that no locales of significant mineralization would be missed by geochemistry. In addition, all major tributaries were prospected and all exposed areas were geologically mapped.

As a result of the 1968 program, the BEN 1-6 claim group was staked. The Ben claims covered a geochemical anomaly in a structural geologic setting similar to that found on the Tom claims, located about 8 kilometres to the northwest.

Spartan’s geochemical soil sampling on the Ben property returned a concentration of high zinc values, up to 2,625 ppm, just north of a the westerly flowing Ben Creek in the centre of the claim group. Associated with the high zinc values were lead values up to 100 ppm, copper up to 352 ppm, and molybdenum up to 48 ppm. The high values occur in an area of overburden cover, and Spartan was not able to explain the cause of the anomalies. It is notable, however, that favourable formations underlie the anomalous area, and that a major quartz feldspar porphyry dyke cuts these formations near the heart of the anomaly (Smith, 1968).

After 1968, no documented work was done in the Ben claim area until Colorado acquired the ground and initiated exploration work in 2011. In 2011, work consisted of an 84.6 line kilometre DIGHEM airborne electromagnetic/magnetic survey flown by Fugro Airborne Surveys ("Fugro"). Colorado also conducted a small soil sampling and prospecting program with two contour soil lines put in along the north and south sides of Ben Creek and 51 rock grab samples collected. Figure 3 shows the historic Spartan soil sampling overlain by airborne geophysical anomalies.

6) WORK DONE BY COLORADO RESOURCES LTD. IN 2012

On July 30 and 31, 2012, a soil sampling and prospecting/rock sampling program was conducted on the Ben Property. A soil grid was put in on the north side of Ben Creek with five east-west trending lines spaced 200 metres apart and a 6th line at 400 metre spacing. Line lengths range from 1.4 to 2.7 kilometres. On the south side of Ben Creek one intermittent 3.2 kilometre long east-west line and two short line sections were completed. On all lines soil samples were collected at 50 metre intervals. A total of 309 soil samples were collected. During the course of the prospecting program, 45 rock grab samples were collected.

Work was conducted by a 4 to 7 person crew working out of a camp on the North Canol Highway. Access to the property was via helicopter.

7) GEOLOGY

Regional Geology

The Ben Property is located within the Selwyn Basin which consists of a broad package of Paleozoic sediments extending ESE from north-west of Dawson City to the Yukon-NWT border north of the major NW-SE trending Tintina Fault Zone. This stratigraphy consists of shallow shelf to off-shelf marine clastic and chemical sediments, as well as basinal clastic sediments derived from the Ancient North American Platform to the north-east. Age of deposition ranges from Late Precambrian to Permian. At least two major episodes of rifting have occurred: the first during deposition of the Late Precambrian Hyland Group sediments, and the second during deposition of the Devonian-Mississippian Earn Group sediments. These major rift zones often host poorly sorted coarse clastic sediments, such as debris flows or turbidite horizons.

Several episodes of continental uplift have led to periods of increased erosion and resulting continental margin or miogeosynclinal deposition, resulting in the creation of sequences of comparatively high energy, shallow water sediments, often coarsely grained and variably calcareous. These are separated by strata formed under deeper, quieter water conditions, resulting in formation of fine clastic sediments and chert. The Mid-Cretaceous Tombstone-Tungsten Suite (95-89 Ma) has been emplaced within the Selwyn Basin. Intrusives of this suite occur along an ESE trending belt extending for over 500 kilometres from north-west of Dawson City, Yukon to the Yukon-NWT border.

Intrusives are believed to control much of the economic gold mineralization within the Selwyn Basin.

Extensive thrust faulting along the entire extent of the Selwyn Basin began during Late Jurassic time, resulting in creation of a compressional regime. Most thrust faults are oriented roughly ESE, dipping to the south-west, sub-parallel to the overall ESE trend of stratigraphy. Several major regional thrust faults were formed including the Dawson Thrust, Tombstone Thrust, and Robert Service Thrust. This regional lineation has been overprinted by a slightly less pronounced NE-SW lineation, marked by high angle orthogonal faults suggesting the compressional regime was followed by an extensional tectonic regime.

Several Tombstone Suite monzonite stocks occur within this belt, including one small stock within the southern half of the Ben claim block.

The Ben Property occurs in a very similar regional setting to the nearby Tom deposit, as described in the Mineralization section below.

Property Geology

The Ben Property is largely underlain by the middle Devonian MacMillan Pass Member Shale Facies unit. This unit appear to form a broad syncline with axis roughly paralleling westerly flowing Ben Creek near the centre of the property. Above the Shale Facies is a narrow band of chert and black shale of the Nidderly Lake Member, which is in turn overlain by Silurian-Devonian black shales and silty limestones of the Sapper Formation (see Figure 4).

South of Ben Creek is a prominent Cretaceous granitic intrusion, with a mapped diameter of approximately 800 metres (Abbott, in publ.). There is a 200 metre wide southerly trending apophysis off this intrusion that runs for about one kilometre from the main body. Colorado's airborne geophysical survey picked up this intrusion very well with magnetics and resistivity, indicating that the intrusive is more extensive than previously mapped. Ground follow up by geological mapping in 2013 will better define the extent of the intrusive unit.

Along with the east-west trending syncline, additional fault structures trending north-south and northwest-southeast have been identified in the northern portion of the claim block (Abbott, in publ.). The importance of these structures to mineralization is not known at this time.

Mineralization

Historically, the Ben Property was staked for its Sedex lead-zinc-silver potential due to its geological similarity to HudBay's Tom Deposit setting. More recently, limey units such as the Sapper Formation, have also been recognized for their Carlin-style gold potential. No gold analyses were conducted by Spartan during their exploration program to the north of Ben Creek.

Yukon Minfile (105O 001) has a good description of the Tom Deposit. Tom contains stratabound lead-zinc-silver deposits consisting of galena, sphalerite and barite in fine-grained black clastic rocks of the Devonian-Mississippian Earn Group. Mineralization occurs in three zones: Tom East, Tom West and Tom Southeast. Published mineable reserves for the Tom East and West zones are 9,283,700 tonnes grading 69.4 g/t Ag, 7.5% Zn and 6.2% Pb using a 7% Zn + Pb cutoff, a 15% dilution factor and 90% recovery (McClay and Bidwell, 1986). Total geological reserves were calculated as 15,722,500 tonnes grading 49.1 g/t Ag, 7.0% Zn and 4.61% Pb. A feasibility study of the Tom and adjacent Jason deposit, prepared by Hudson Bay and Aberford Resources Ltd, in December 1985 recalculated the mineable reserves of this deposit as 8,969,695 tonnes grading 7.09% Pb, 8.53% Zn and 79.79 g/t Ag.

All mineralization at the Tom property occurs at or near the contact between conglomeratic submarine fan deposits (Macmillan Pass Member) and overlying blue-grey weathering carbonaceous cherty mudstone and radiolarian chert (Tom Sequence). The host rocks are believed to have been deposited in narrow grabens during Devonian rifting of the Cordilleran passive margin. The Tom deposits are confined to a small basin outlined by the outcrop pattern of chert-pebble conglomerates of the Macmillan Pass member and a thickened isopach of the Tom Sequence rocks.

Detailed mapping shows that the West zone and Southeast zone deposits occupy two separate troughs flanking a narrow horst block formed of chert pebble conglomerate. Flanking sediments wedge out against the horst block and substantial differences in stratigraphy exist between the two troughs.

The horst block separating the Tom West and Southeast zones coincides with a tightly folded north-south doubly-plunging anticline. Detailed structural analysis has revealed three phases of folding and faulting, related to folding and thrust faulting during the Late Jurassic and Early Cretaceous.

Along with Tom type sedex lead-zinc-silver mineralization, two potential styles of gold mineralization may be present on the Ben Property. North of Ben Creek, the silty limestones of the Sapper Formation are favourable host units for Carlin type gold mineralization, where suitable structures exist. To the south of Ben Creek, the coincident gold-arsenic-bismuth values suggest intrusive-related "Tombstone" type gold mineralization. Further surface exploration is necessary to determine whether gold mineralization occurs as replacement zones in reactive sediments (Carlin-style), or within stockwork or veins within brittle sediments and associated intrusions (Tombstone-style).

8) GEOCHEMISTRY

Rock Sampling Techniques

45 rock grab samples were collected during the soil sampling and prospecting program. Grab samples consist of 2 or 3 fist size pieces of rock representing a certain rock or mineralization type. All sample sites were marked with fluorescent flagging marked with the sample number.

Samples were placed in poly bags labelled with the corresponding sample number and a bar coded assay tag inserted into the bag. Samples were shipped to ACME Laboratory Ltd.'s preparation lab in Whitehorse for sample preparation then shipped on by the laboratory to ACME's Vancouver facility for analyses. In the laboratory, samples were crushed to minus 200 mesh and fire assayed for gold, plus geochemically analyzed for 36 additional elements by the ICP-MS method.

Rock Sample Results

Rock sample Certificates of Analysis can be found in Appendix II. Table II gives the location and description of the rock samples. Figure 5 shows the rock sample locations.

**TABLE II
ROCK SAMPLE LOCATIONS AND DESCRIPTIONS**

SAMPLE #	NORTH	EAST	SAMPLE TYPE	DESCRIPTION
1290601	447035	6996384	Grab	grey black siltstone, limonite coating, diss and blebby aspy and py
1290602	447060	6996323	Grab	Small vein of aspy cutting granodiorite
1290603	447071	6996323	Grab	Black shale, heavy limonite stain, near contact with granodiorite, diss py and aspy
1290604	447095	6996330	Grab	Composite sample across 25 m of black shale with heavy limonite and green stain
1290606	448926	6998087	Float	banded quartz in hematitic sediments
1290607	448947	6998129	Grab-Float	Siltstone, limonite on surface, diss py
1290608	448940	6998121	Grab-Float	Breccia with quartz and shale, clay altered, grey with white (zinc?) coating
1290609	448940	6998128	Grab	Breccia, black shale with quartz, hematite and manganese stain, diss py
1290610	449042	6998198	Grab	Breccia with hematite and clay alteration, diss py
1290611	449038	6998173	Grab	Breccia with hematite and clay alteration, diss py
1290612	449037	6998169	Grab-Float	banded quartz in shale
1290613	448991	6998051	1.5m Chip	banded quartz vein cutting black shale with limonite, strike 270 deg
1290614	448918	6997943	Grab	blue shale in contact with black shale, grey-white zinc oxide coating
1290615	448756	6997830	Grab-Float	blue shale with quartz veinlets, white and green oxide
1290616	448830	6997754	10m Chip	Composite sample across slope, black shale with quartz, white and green oxide, silver metallic sulphides
1290617	448845	6997755	Grab	Composite sample across slope, black shale with quartz, white and green oxide, silver metallic sulphides
1290618	448813	6997766	Grab	Composite sample across slope, black shale with quartz, white and green oxide, silver metallic sulphides
1290619	448803	6997786	Grab	Black shale, fault contact, composite sample across 10 m slope
1290620	448852	6997772	Grab	Blue shale, fault contact, composite sample across 10 m slope

SAMPLE #	NORTH	EAST	SAMPLE TYPE	DESCRIPTION
1290651	447078	6996353	Grab	Contact between intrusive and black shale, with py and 1% aspy, siliceous
1290652	447085	6996368	Grab	Intrusive with aspy veining, pyritic
1290653	447113	6996318	4m Chip	Intrusive with aspy and py near contact with shale, intrusive is 4 m wide
1290654	447120	6996322	Grab	Black shale with py veinlets, aspy, limonite
1290655	448675	6997978	Grab	Grey shale with trace py
1290656	448675	6997946	Grab	Black shale, contact area, chlorite and epidote alteration
1290657	448596	6997921	Grab	Black graphitic shale with qtz veinlets, yellow, white and green weathering
1290658	448695	6997920	Grab	Grey-black graphitic shale with trace py, qtz veinlets, yellow-green weathering
1290659	448726	6997935	Grab	Grey-black graphitic shale with trace py, qtz veinlets, yellow-green weathering
1290660	448768	6997949	Grab	Grey-black graphitic shale with trace py, qtz veinlets, yellow-green weathering
1290661	448794	6997967	Grab	Grey-black graphitic shale with trace py, qtz veinlets, yellow-green weathering
1290662	449120	6997720	Grab	Black shale w trace py
1290663	449089	6997711	Grab	Grey silty limestone with trace py
1290664	449262	6997708	Grab	Dark grey silty limestone with trace py
1290951	447073	6996334	Grab	Grey siliceous, chilled intrusive with 30% diss and blebby aspy
1290952	447071	6996332	Grab - Float	Float – qtz with diss py and aspy
1290953	447043	6996400	Grab	Shale with fine grained py and aspy on fracture and in bedding layers
1290954	449488	6995663	Grab	Grey rusty weathering shale
1290955	449490	6995671	Grab	Black banded, graphitic silty shale with minor quartz
1290957	449503	6995682	Grab	Old trench(?) – FeOx brecciated shale with minor quartz, white oxide and banding
1290958	449678	6995943	Grab	Brecciated black shale flooded with calcite and minor quartz
1290959	449710	6996007	Grab	Dark grey banded silty shale, limey, 5% red ½ cm limonite spots
1290960	449708	6996044	Grab	Laminated dark grey shale with limonite on fractures and as spots
1290961	449709	6996108	Grab	Black shale with rusty bands and spots, calcite veinlets

Table III shows the significant rock sample results for a number of elements.

TABLE III
ROCK SAMPLE SIGNIFICANT RESULTS

SAMPLE #	Au ppb	Ag ppm	As ppm	Pb ppm	Zn ppm
1290601	3	0.6	42.8	14.0	107
1290602	18	0.6	4239.9	30.8	13
1290603	6	0.4	31.5	10.9	102

SAMPLE #	Au ppb	Ag ppm	As ppm	Pb ppm	Zn ppm
1290607	1	0.2	341.1	33.6	102
1290609	13	0.3	14.9	23.6	188
1290610	8	0.4	298.3	123.3	38
1290611	4	0.3	31.4	24.9	113
1290612	4	0.3	128.5	50.4	15
1290614	3	1.1	35.9	211.0	27
1290615	1	1.4	11.0	99.1	5
1290616	2	1.0	7.8	35.4	2
1290617	1	1.2	7.4	64.4	4
1290618	6	1.1	15.5	43.9	37
1290620	3	1.1	6.3	84.9	4
1290651	4	0.2	1053.3	11.2	63
1290652	579	0.4	>10,000.0	12.3	15
1290653	38	0.1	3495.6	11.3	32
1290656	8	1.9	27.5	90.6	4
1290658	6	1.1	8.2	25.1	6
1290659	12	1.0	4.7	25.2	9
1290660	6	1.3	12.3	133.5	3
1290661	7	1.0	8.0	55.7	6
1290662	6	1.8	8.7	11.9	175
1290951	1501	0.4	>10,000.0	9.5	19
1290952	316	0.3	148.4	8.5	64
1290953	11	0.2	12.7	7.3	110
1290955	5	0.6	24.4	59.9	112
1290957	4	1.6	158.7	781.5	70
1290958	3	0.5	6.2	3.0	213
1290960	7	0.5	21.7	5.5	122
1290961	2	0.2	13.7	1.7	102

Discussion of Rock Sample Results

Figures 6A through 6E show gold, silver, arsenic, lead and zinc rock sample results, respectively. Geology background on these Figures is after Abbott (in publ.); see Figure 4 for geological legend.

On Figure 6A it is apparent that elevated gold values in rock samples are confined to the south side of Ben Creek in the contact area between the Cretaceous intrusion and MacMillan Pass Member shale facies. In this area, the highest gold value of 2850 ppb was returned in 2011, with the highest value from 2012 being 1501 ppb. None of the rock samples collected away from the intrusion contained any gold values of significance.

As with the gold results, Figure 6B shows elevated silver values are also associated with the Cretaceous intrusive, although none of the 2012 samples in that area returned silver values of significance. Rock samples collected along the southeast and north sides of Ben Creek show weakly elevated silver values to be associated with the Niddy Lake member black shales.

Figure 6C shows a strong correlation between gold and arsenic values in rock samples, with arsenic values being strong and widespread throughout the area of the intrusion, with several samples returning values of >10,000 ppm arsenic.

Figures 6D and 6E show lead and zinc rock sample results. The best coincident lead and zinc values can be seen in the eastern portion of the property from samples collected in the Sapper Formation limey siltstones, with elevated values of 863 ppm lead and 955 ppm zinc. The highest lead and zinc values, however, are from within the intrusive unit in an area with pyrite and arsenopyrite (plus elevated gold, silver and bismuth). The best lead assay is 4831.5 ppm and zinc is 1505 ppm. All of these higher lead and zinc values are from the 2011 sampling program as the 2012 samples returned lesser values.

Soil Sampling Techniques

During the 2012 exploration program, a total of 309 soil samples were collected. The samples were taken at 50 metre spacings along east-west grid lines put in along the north and south sides of Ben Creek. Figure 7 shows the soil sample locations.

Soil samplers tried to collect 'B' horizon soil samples whenever possible, however intermittent talus on south facing slopes and occasional deep moss and permafrost on north facing slopes did not allow for consistent 'B' horizon sampling. Samples were collected using a mattock or shovel and were taken from the "best" looking soil material available at each station. Sample sites were labeled with fluorescent flagging with the station number recorded on it, and soil was placed in correspondingly labeled Kraft soil bags.

All soil samples were shipped to ACME Laboratory Ltd.'s preparation facility in Whitehorse where they were dried and sieved to -80 mesh. The prepared samples were then shipped by ACME to their Vancouver laboratory for analyses. The samples were analysed by fire assay for gold and for 36 elements (including gold) by the ICP-MS method. ACME Labs Ltd. Certificates of Analyses for soil samples can be found in Appendix III.

Discussion of Soil Sample Results

Figures 8A through 8E are soil geochemistry maps for gold, silver, arsenic, lead and zinc, respectively. The two 2011 contour soil sample lines on the north and south sides of Ben Creek are plotted along with east-west 2012 soil lines. Soil sampling was largely confined to the beige plotted limey siltstones of the Sapper Formation as this unit is a potential host for Carlin gold style mineralization, along with "Tom-type" sedex lead-zinc-silver. Soil lines also crossed narrow bands of Niddery Lake black shales (plotted in blue) and across contact areas with apophyses of the dark pink plotted Cretaceous intrusion.

Within the Sapper Formation, soil sample results show spotty single station gold and arsenic values up to 32.5 ppb gold and 3410 ppm arsenic. Silver and zinc show good correlation with an anomalous zone of 600 by 150 metres having silver values up to 13.5 ppm and significant zinc values up to 7120 ppm. A lead anomaly is found east of and

adjacent to the silver-zinc zone, along a fault and contact area with the black shales of the Niddery Lake Formation. In that area, lead values up to 736.9 ppm were returned.

On the south side of Ben Creek, a single soil line shows elevated zinc soil values (including 4792 and 4611 ppm) also associated with the Niddery Lake Formation. Along with the high zinc geochemistry, a single station high arsenic value (666.1 ppm) and scattered elevated lead values (up to 124.9 ppm) occur.

In the southwest portion of the property, where the Cretaceous intrusive is in contact with the dark yellow plotted MacMillan Pass member shale facies unit, the strongest gold and arsenic soil geochemical anomalies occur. Several stations have gold values of >20 ppb with the highest being 93.4 ppb. Correspondingly, arsenic has several stations with >1000 ppm with the highest being 6459.7 ppm. Scattered elevated lead soil values can also be seen along this line with the highest value being 639.7 ppm.

9) CONCLUSIONS

The Ben Property, owned by Colorado Resources Ltd. ("Colorado"), comprises base and precious metal targets located southeast of the MacMillan Pass airstrip in northeastern Yukon. The Ben Property is largely underlain by the middle Devonian MacMillan Pass Member Shale Facies unit. This unit appears to form a broad syncline with axis roughly paralleling westerly flowing Ben Creek near the centre of the property. Above the Shale Facies is a narrow band of chert and shale of the Niddery Lake Member, which is in turn overlain by Silurian-Devonian black shales and silty limestones of the Sapper Formation. South of Ben Creek is a prominent Cretaceous granitic intrusion, with a mapped diameter of approximately 800 metres. There is a 200 metre wide southerly trending apophysis off this intrusion that runs for about one kilometre from the main body.

The geology and structural setting at HudBay's Tom deposit, located 8 kilometres to the north, is very similar to that found on the Ben claims. The Tom contains stratabound lead-zinc-silver deposits consisting of galena, sphalerite and barite in fine-grained black clastic rocks. Yukon Minfile states the mineable reserves of this deposit as 8,969,695 tonnes grading 7.09% Pb, 8.53% Zn and 79.79 g/t Ag.

The only previously recorded work on the Ben Property was by Spartan Explorations Ltd. ("Spartan") in 1968. This work consisted of a small soil and rock sampling program which returned elevated lead-zinc-copper-molybdenum values north of Ben Creek.

Work done by Colorado in 2011 and 2012 has determined that soil and rock geochemistry identified gold-arsenic-lead mineralization associated with a Cretaceous intrusive unit and silver-zinc mineralization associated with black, sometimes limey shales of the Niddery Lake and Sapper Formations. Spotty gold-arsenic values are also found within the limey shales of the Sapper Formation, a good host for Carlin style gold mineralization.

In conclusion, as well as Tom style sedex lead-zinc-silver targets, two potential styles of gold mineralization may be present on the Ben Property. North of Ben Creek, the limey siltstones of the Sapper Formation are favourable host units for Carlin type gold mineralization where suitable structures exist. To the south of Ben Creek, the coincident gold-arsenic values suggest the presence of intrusive-related "Tombstone" type gold mineralization. Further surface exploration is necessary to determine whether gold mineralization occurs as replacement zones in reactive sediments (Carlin-style), or within stockwork or veins within brittle sediments and associated intrusions (Tombstone-style).

10) RECOMMENDATIONS

For 2013, a two phase exploration program is recommended for the Ben Property. Phase I will consist of continued soil sampling throughout much of the claim block, concentrating on contacts and structures, both in the intrusive unit and in the shale and limey siltstones of the Nidderly Lake and Sapper Formations. A total of 1000 soil samples should be collected at 50 metre intervals on initial lines spaced 200 metres apart. Geological mapping and prospecting/rock sampling is to be done in conjunction with the soil sampling program in order to define contact areas, structures and mineralized zones.

If results warrant, a Phase II exploration program consisting of a small excavator trenching and six hole diamond drilling program is recommended. Trenching and drilling will be designed to test the best coincident geochemical, geological and geophysical targets. The excavator trenches will be located where ground conditions allow and will be dug using a helicopter portable mini-excavator. Where ground conditions are not amenable to trenching, diamond drilling will be utilized to test the target areas.

The Phase I exploration program is budgeted at \$125,000. Phase II is dependent upon the results of the Phase I program and is budgeted at \$750,000.

Respectfully submitted,

"Linda Dandy"

Linda Dandy, P.Geo.
November 15, 2012

11) REFERENCES

ABBOTT, J.G., In Publication; Geology of the MacMillan Pass Area: Yukon Geological Survey, Open File 2011-??

DANDY, L., 2012; Geological, Geochemical and Geophysical Report on the Ben Property: Yukon Government Assessment Report.

MINING YUKON, MINING AND EXPLORATION PORTAL, 2011; Bedrock Geology of Yukon.

ROOTS, C.F. ABBOTT, J.G. CECILE, M.P. GORDEY, S.P., 1995; Bedrock Geology of Lansing Range Map Area (105N), East Half, Hess Mountains, Yukon: Exploration and Geological Services, Yukon Region, and Indian and Northern Affairs Canada.

SMITH, CLYDE L., 1968; 1968 Progress Report and Proposed Program 1969 Itsi Project, Eastern Yukon Territory: Yukon Government Assessment Report #019035.

YUKON GEOLOGICAL SURVEY; MINFILE 105O 011 Ben and MINFILE 105O 001 Tom.

12) COST STATEMENT – July 2012

GEOLOGIST:	1.5 day @ \$750	\$ 1,125.00
PROSPECTORS:	2 days @ \$500	1,000.00
SAMPLERS:	8 days @ \$450	3,600.00
ANALYSES:	45 ROCK SAMPLES @ \$31	1,395.00
	309 SOIL SAMPLES @ \$35	10,815.00
HELICOPTER:	2.8 HOURS @ \$1250	3,500.00
	FUEL	980.00
FOOD AND ACCOMMODATION (Mac Pass):	12.5 mandays @ \$350	4,375.00
SUPPLIES, FREIGHT, TRAVEL AND MISCELLANEOUS:		2,000.00
REPORT PREPARATION:		3,050.00
TOTAL PROSPECTING AND SAMPLING COSTS:		\$ 31,840.00

13) QUALIFICATIONS

I, Linda Dandy, hereby certify that:

1. I am a Consulting Geologist having an office at 4900 Warm Bay Road, Atlin, British Columbia, V0W 1A0.
2. I am a graduate of the University of British Columbia with the degree of Bachelor of Science in Geology (1981).
3. I am a member of the Association of Professional Engineers and Geoscientists of British Columbia (Registration No. 19236) and a Fellow of the Geological Association of Canada (Membership No. F5201).
4. I have practiced my profession in North America since 1981, having worked as an employee and consultant for Major Mining Corporations, Junior Resource Companies and government.
5. This report is based upon a personal examination of available company and government reports pertinent to the subject property, and direct supervision of field work undertaken on the property on July 30 and 31, 2012.

November 15, 2012
Atlin, BC

"Linda Dandy"
Linda Dandy, P.Geo.
Consulting Geologist

APPENDICES

APPENDIX I – FIGURES 1 TO 8

APPENDIX II – ROCK SAMPLE RESULTS – CERTIFICATES OF ANALYSES

APPENDIX III – SOIL SAMPLE RESULTS – CERTIFICATES OF ANALYSES



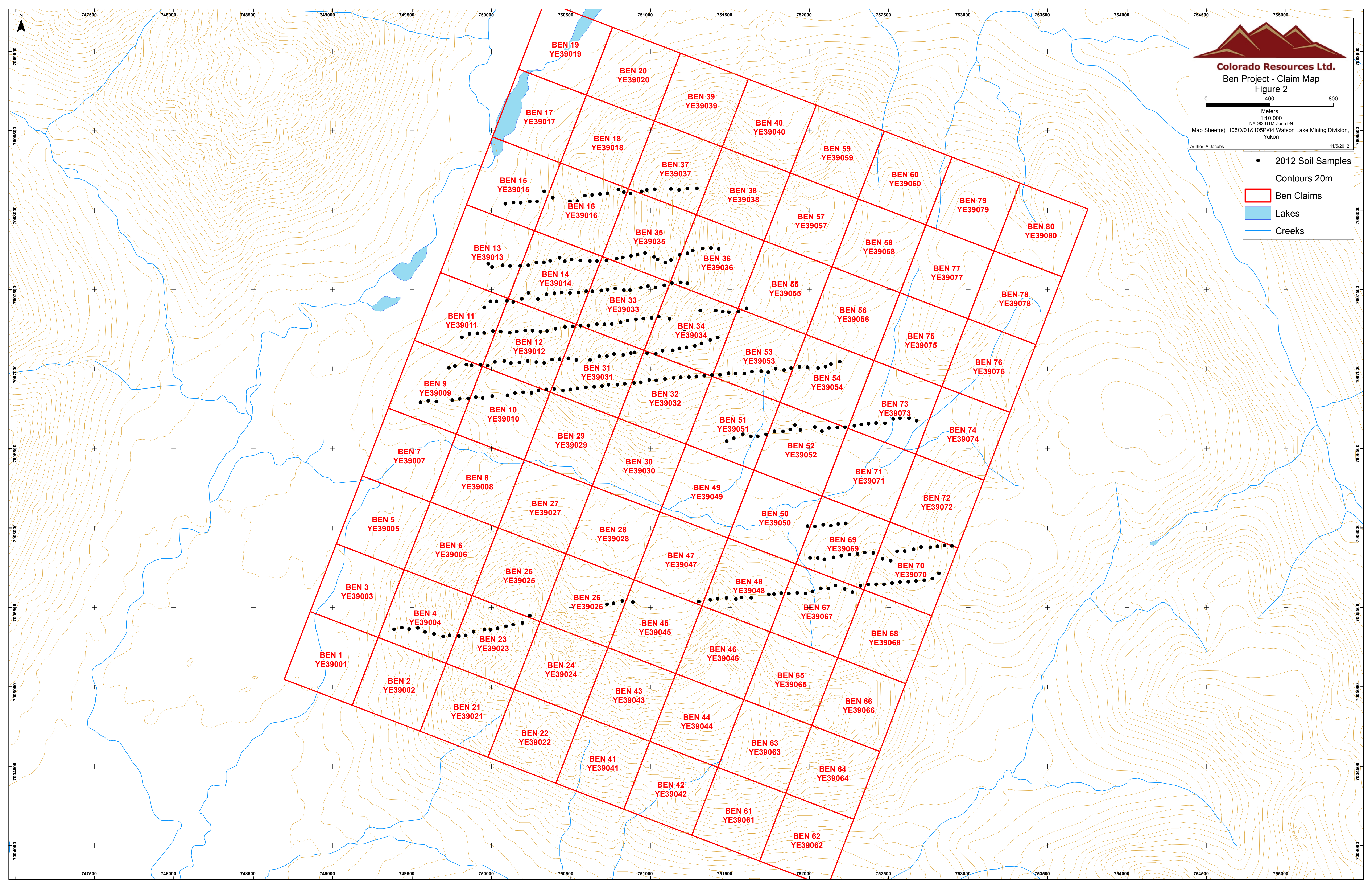
BEN PROPERTY

N.W.T.

*British
Columbia*

Figure 1
Kilometers

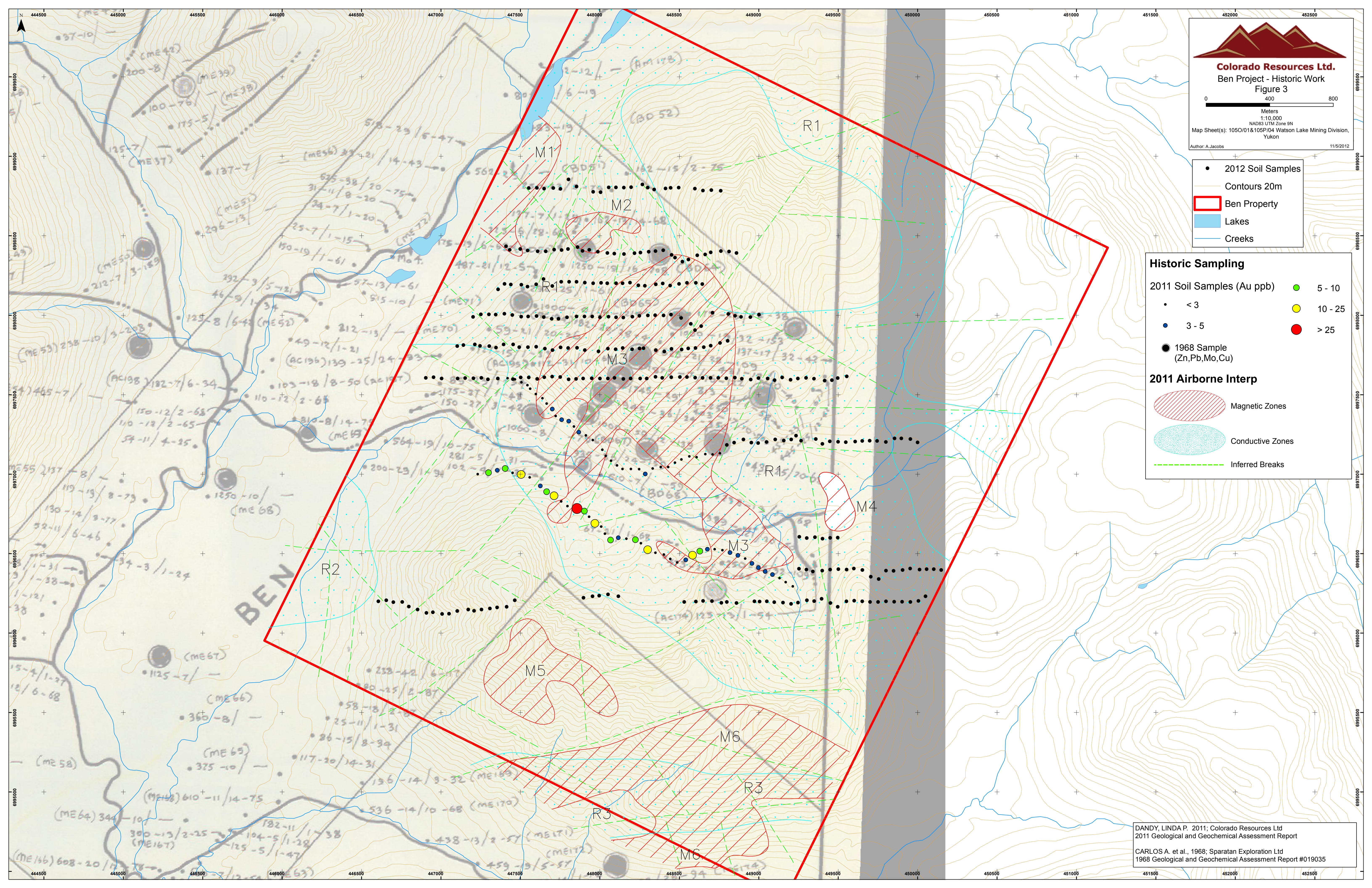


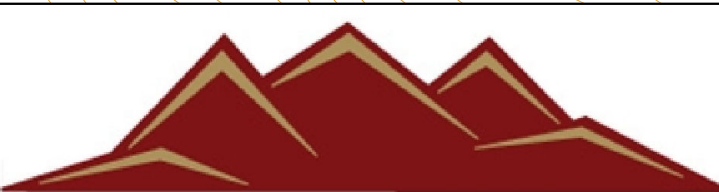


Colorado Resources Ltd.
Ben Project - Claim Map
Figure 2

0 400 800
Meters
1:10,000
NAD83 UTM Zone 9N
Map Sheet(s): 105O/01&105P/04 Watson Lake Mining Division, Yukon
Author: A.Jacobs 11/5/2012

- 2012 Soil Samples
- Contours 20m
- Ben Claims
- Lakes
- Creeks





Colorado Resources Ltd.
Ben Project - Historic Work
Figure 3

0 400 800
Meters
1:10,000
NAD83 UTM Zone 9N
Map Sheet(s): 105O/01&105P/04 Watson Lake Mining Division,
Yukon

Author: A.Jacobs 11/5/2012

- 2012 Soil Samples
- Contours 20m
- Ben Property
- Lakes
- Creeks

Historic Sampling

2011 Soil Samples (Au ppb)

- < 3
- 3 - 5
- 5 - 10
- 10 - 25
- > 25

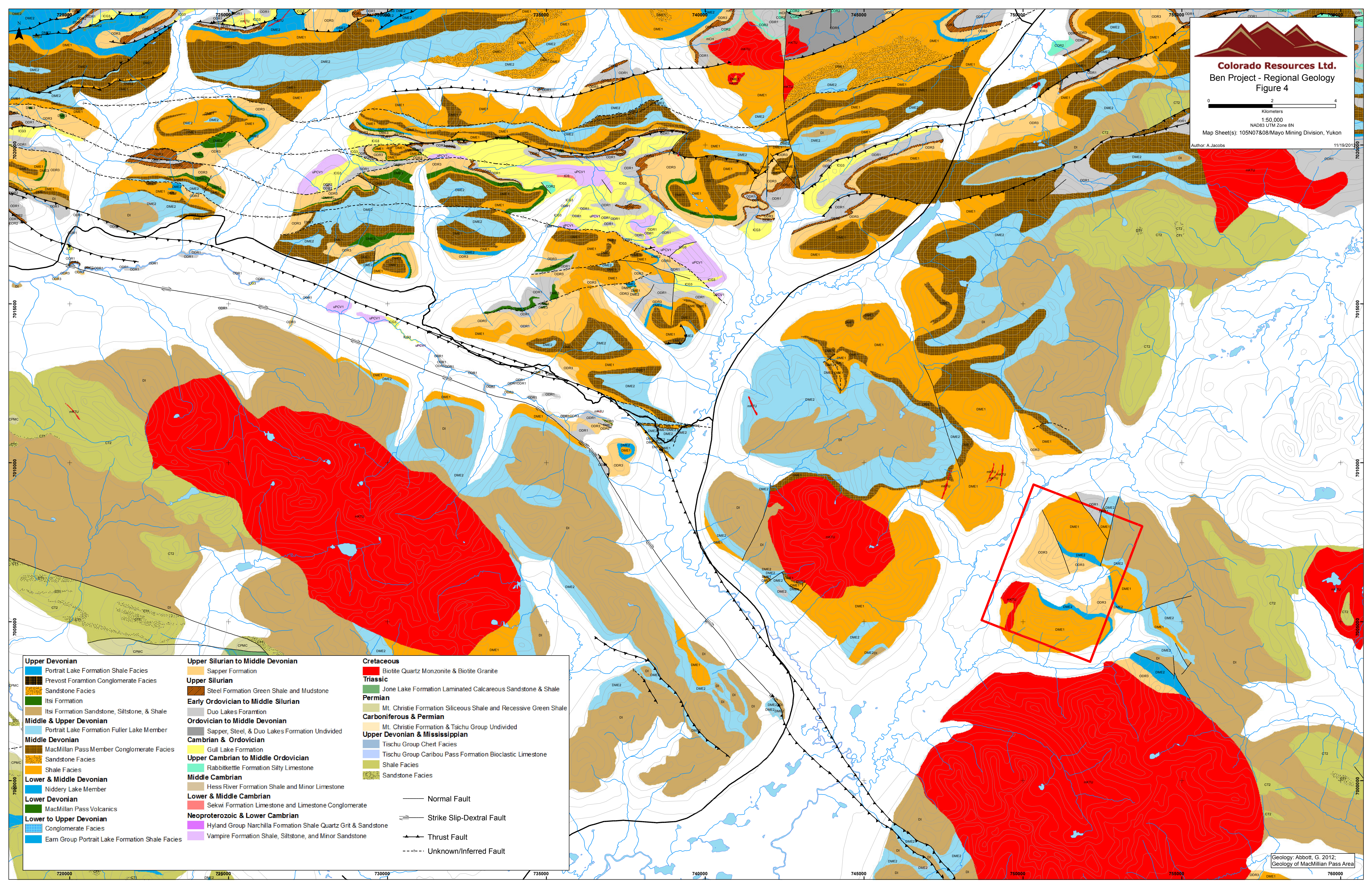
● 1968 Sample
(Zn,Pb,Mo,Cu)

2011 Airborne Interp

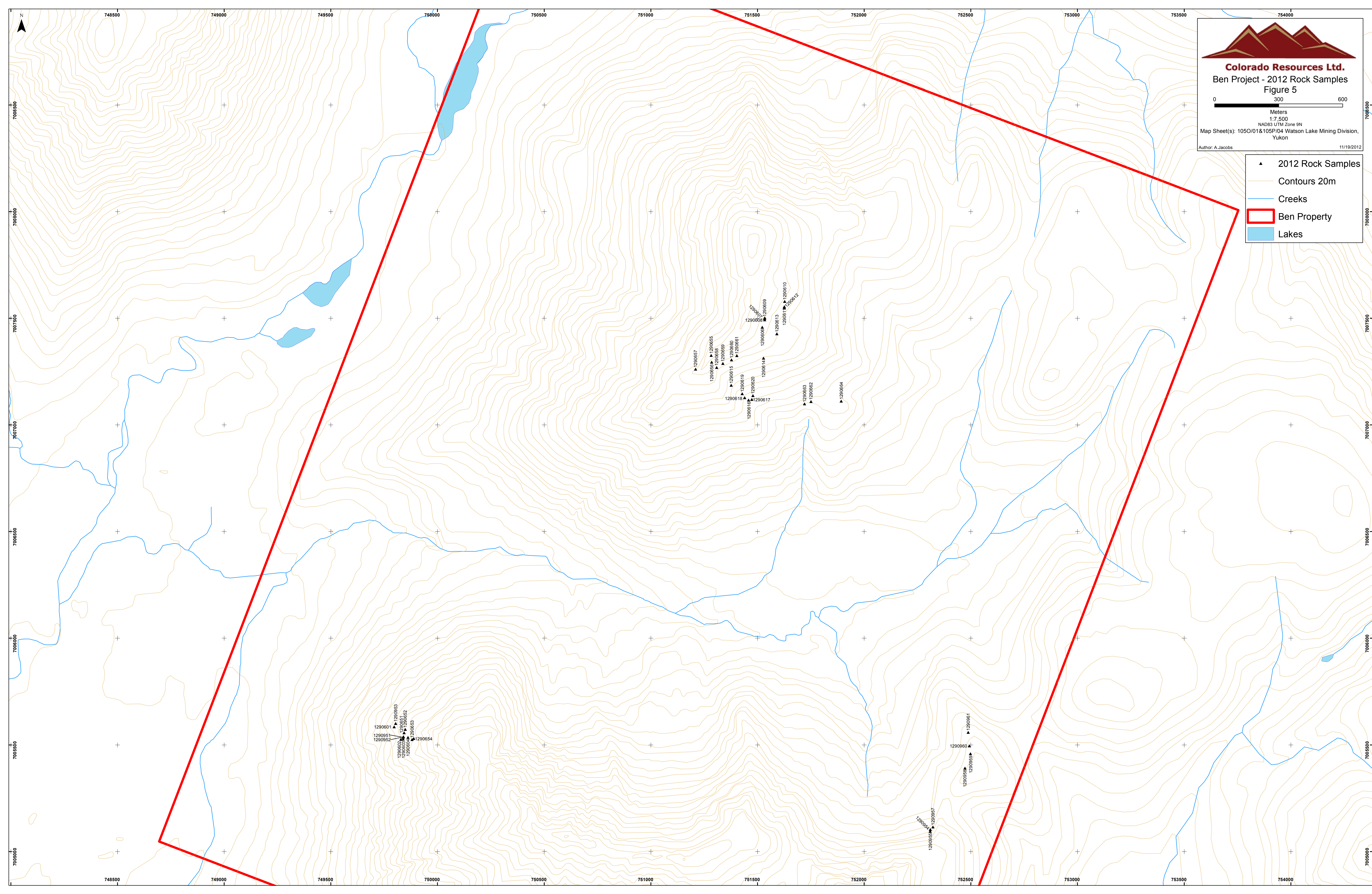
- Magnetic Zones
- Conductive Zones
- Inferred Breaks

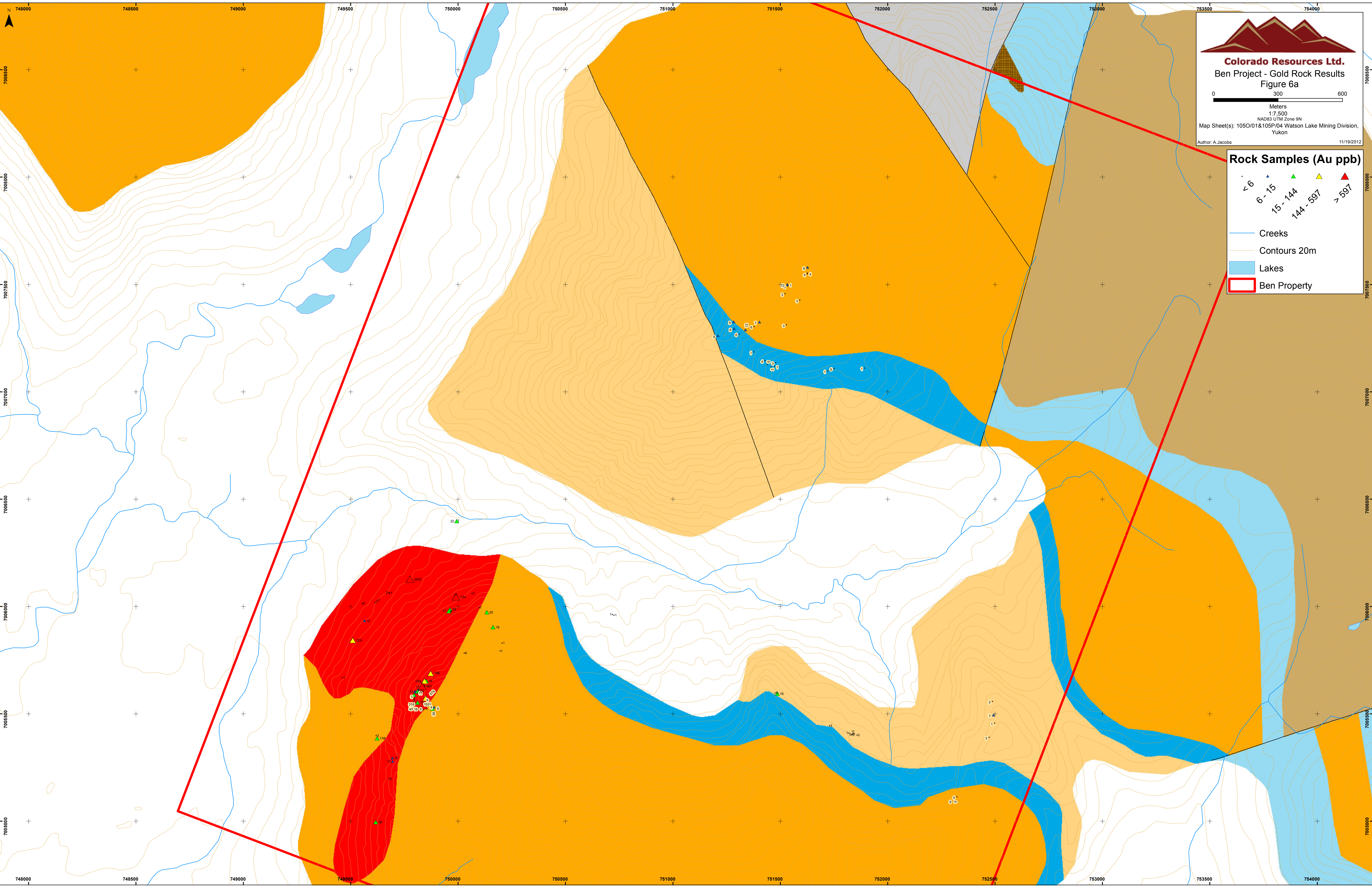
DANDY, LINDA P. 2011; Colorado Resources Ltd
2011 Geological and Geochemical Assessment Report

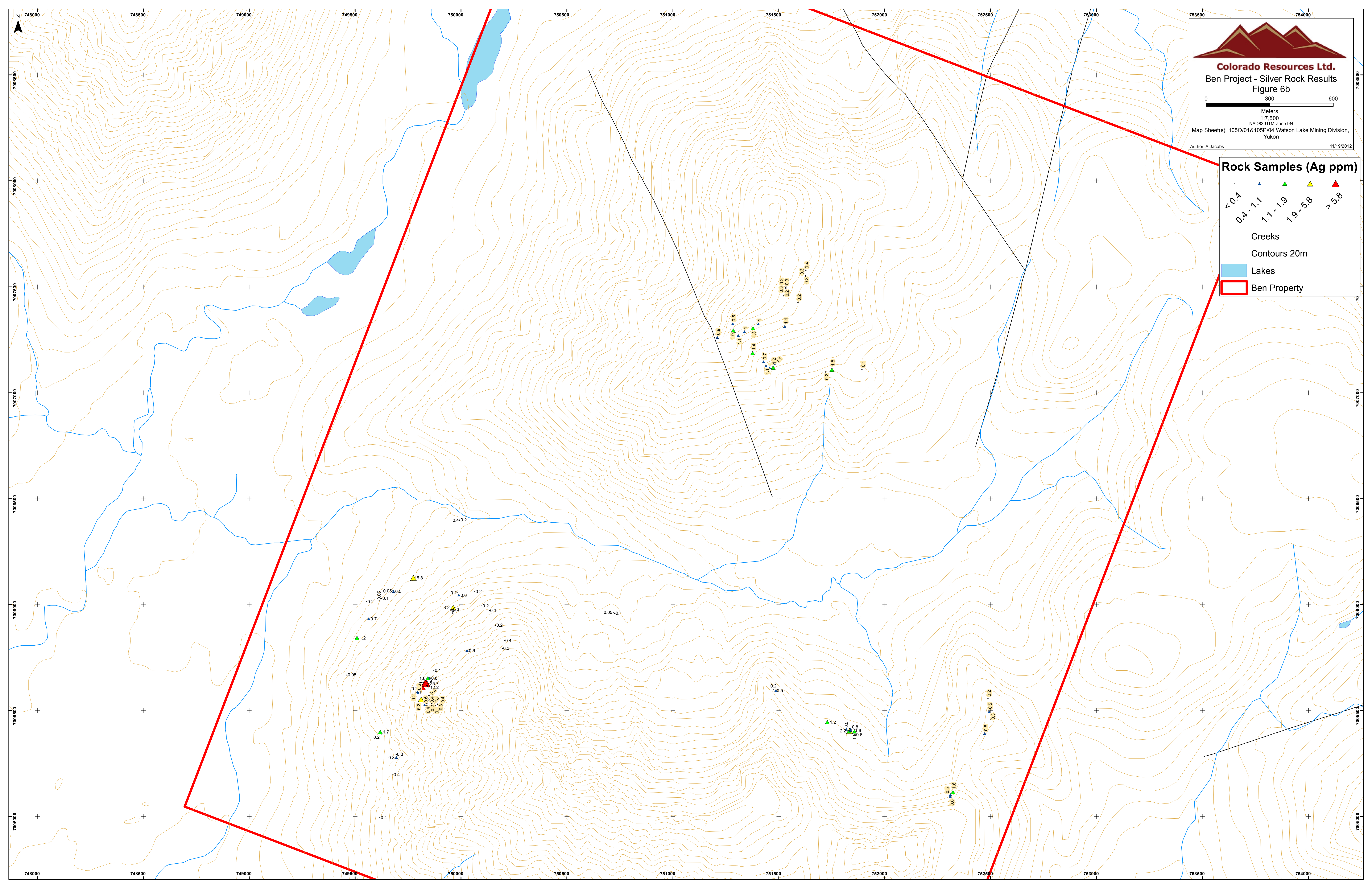
CARLOS A. et al., 1968; Sparatan Exploration Ltd
1968 Geological and Geochemical Assessment Report #019035



- | | | |
|--|---|--|
| Upper Devonian <ul style="list-style-type: none">Portrait Lake Formation Shale FaciesPrevost Foramint Conglomerate FaciesSandstone FaciesItsi FormationItsi Formation Sandstone, Siltstone, & Shale | Upper Silurian to Middle Devonian <ul style="list-style-type: none">Sapper Formation Upper Silurian <ul style="list-style-type: none">Steel Formation Green Shale and Mudstone Early Ordovician to Middle Silurian <ul style="list-style-type: none">Duo Lakes Foramint Ordovician to Middle Devonian <ul style="list-style-type: none">Sapper, Steel, & Duo Lakes Formation Undivided Cambrian & Ordovician <ul style="list-style-type: none">Gull Lake Formation Upper Cambrian to Middle Ordovician <ul style="list-style-type: none">Rabbitkettle Formation Silty Limestone Middle Cambrian <ul style="list-style-type: none">Hess River Formation Shale and Minor Limestone Lower & Middle Cambrian <ul style="list-style-type: none">Sekwi Formation Limestone and Limestone Conglomerate Neoproterozoic & Lower Cambrian <ul style="list-style-type: none">Hyland Group Narchilla Formation Shale Quartz Grit & SandstoneVampire Formation Shale, Siltstone, and Minor Sandstone | Cretaceous <ul style="list-style-type: none">Biotite Quartz Monzonite & Biotite Granite Triassic <ul style="list-style-type: none">Jone Lake Formation Laminated Calcareous Sandstone & Shale Permian <ul style="list-style-type: none">Mt. Christie Formation Siliceous Shale and Recessive Green Shale Carboniferous & Permian <ul style="list-style-type: none">Mt. Christie Formation & Tschu Group Undivided Upper Devonian & Mississippian <ul style="list-style-type: none">Tschu Group Chert FaciesTschu Group Caribou Pass Formation Bioclastic LimestoneShale FaciesSandstone Facies |
| Middle & Upper Devonian <ul style="list-style-type: none">Portrait Lake Formation Fuller Lake Member Middle Devonian <ul style="list-style-type: none">MacMillan Pass Member Conglomerate FaciesSandstone FaciesShale Facies Lower & Middle Devonian <ul style="list-style-type: none">Nidderly Lake Member Lower Devonian <ul style="list-style-type: none">MacMillan Pass Volcanics Lower to Upper Devonian <ul style="list-style-type: none">Conglomerate FaciesEarn Group Portrait Lake Formation Shale Facies | | |
- Normal Fault
= Strike Slip-Dextral Fault
— Thrust Fault
--- Unknown/Inferred Fault

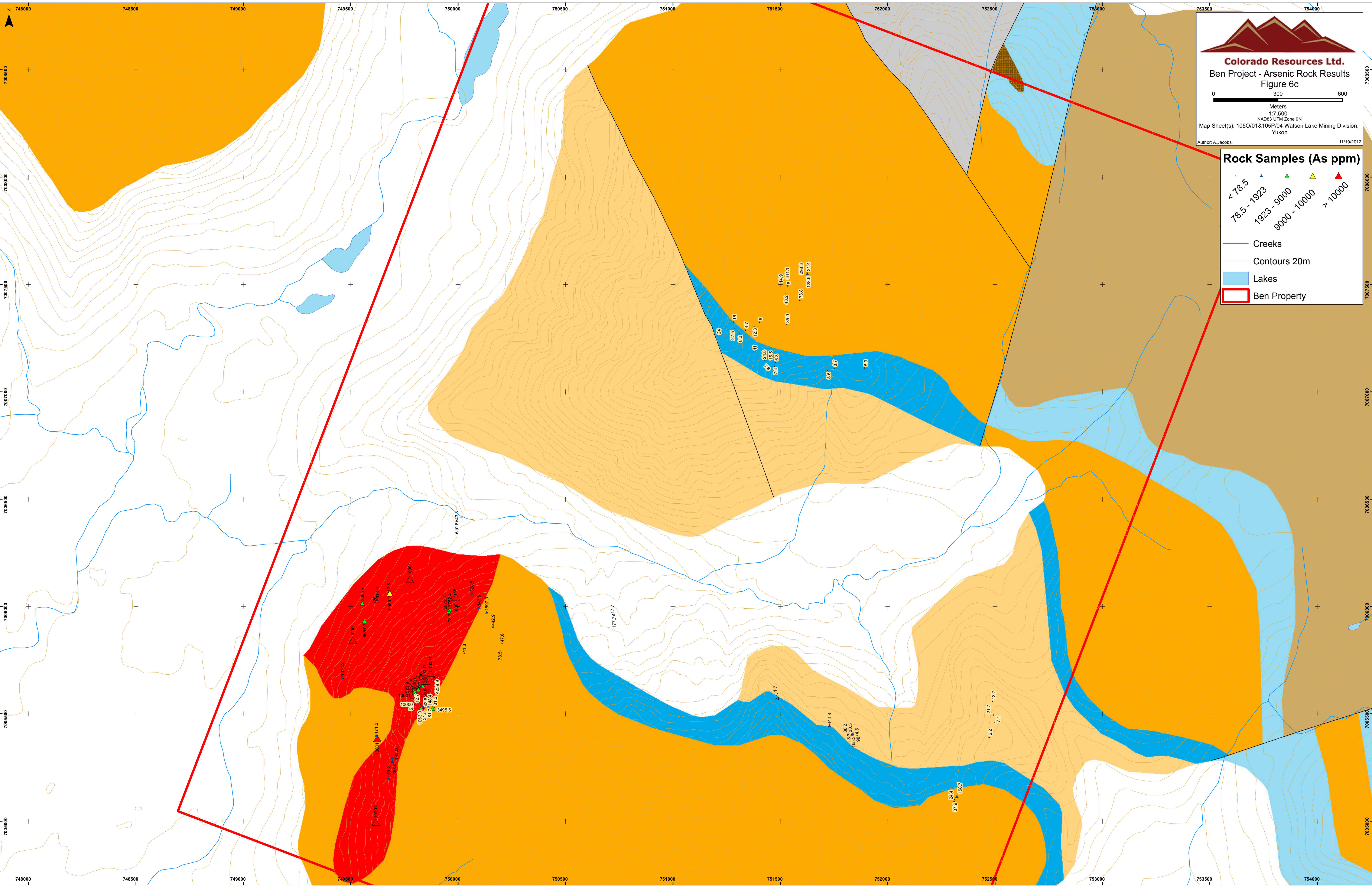






Colorado Resources Ltd.
Ben Project - Silver Rock Results
Figure 6b

0 300 600
Meters
1:7,500
NAD83 UTM Zone 9N
Map Sheet(s): 105O/01&105P/04 Watson Lake Mining Division,
Yukon
Author: A.Jacobs 11/19/2012

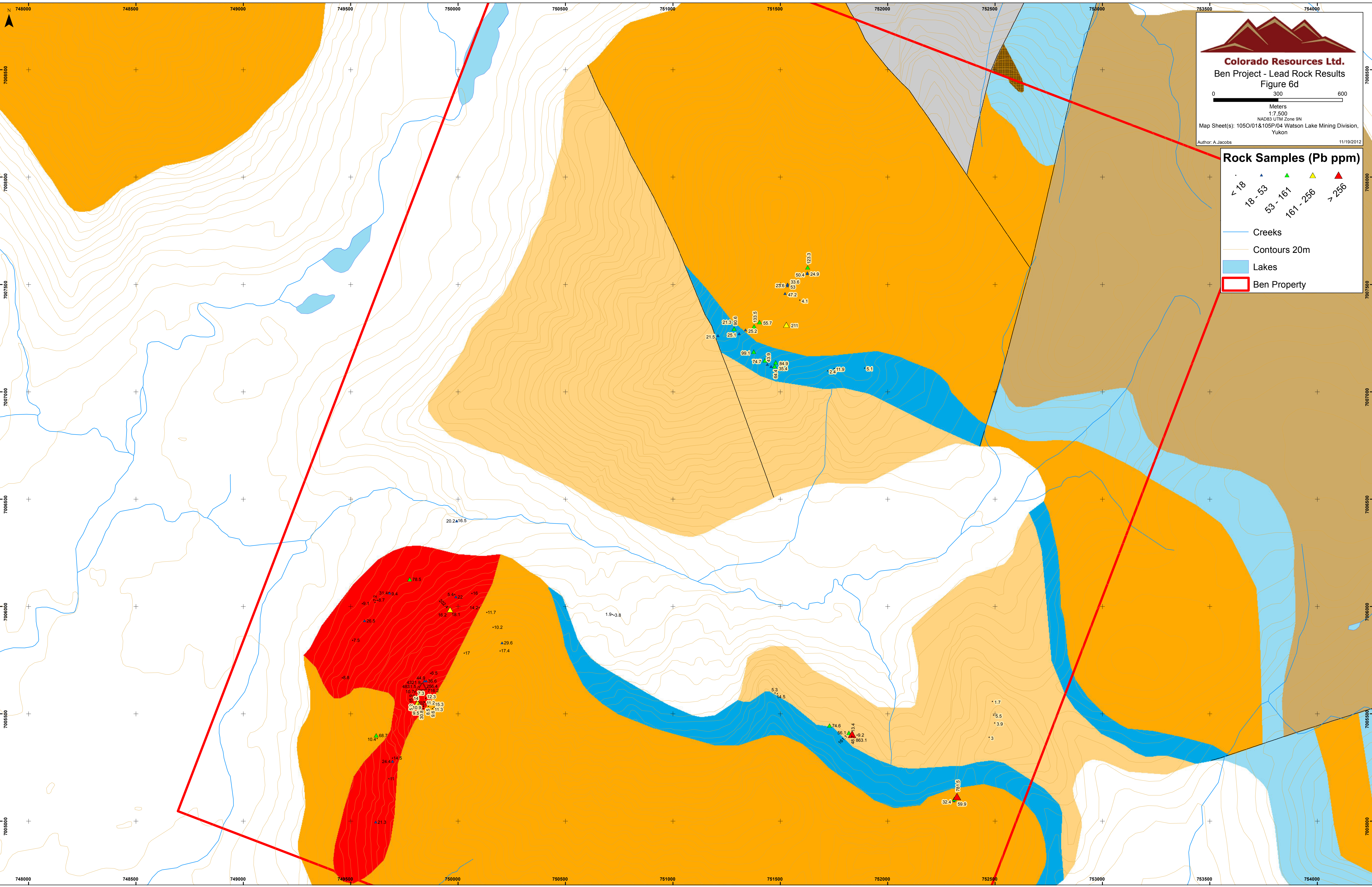


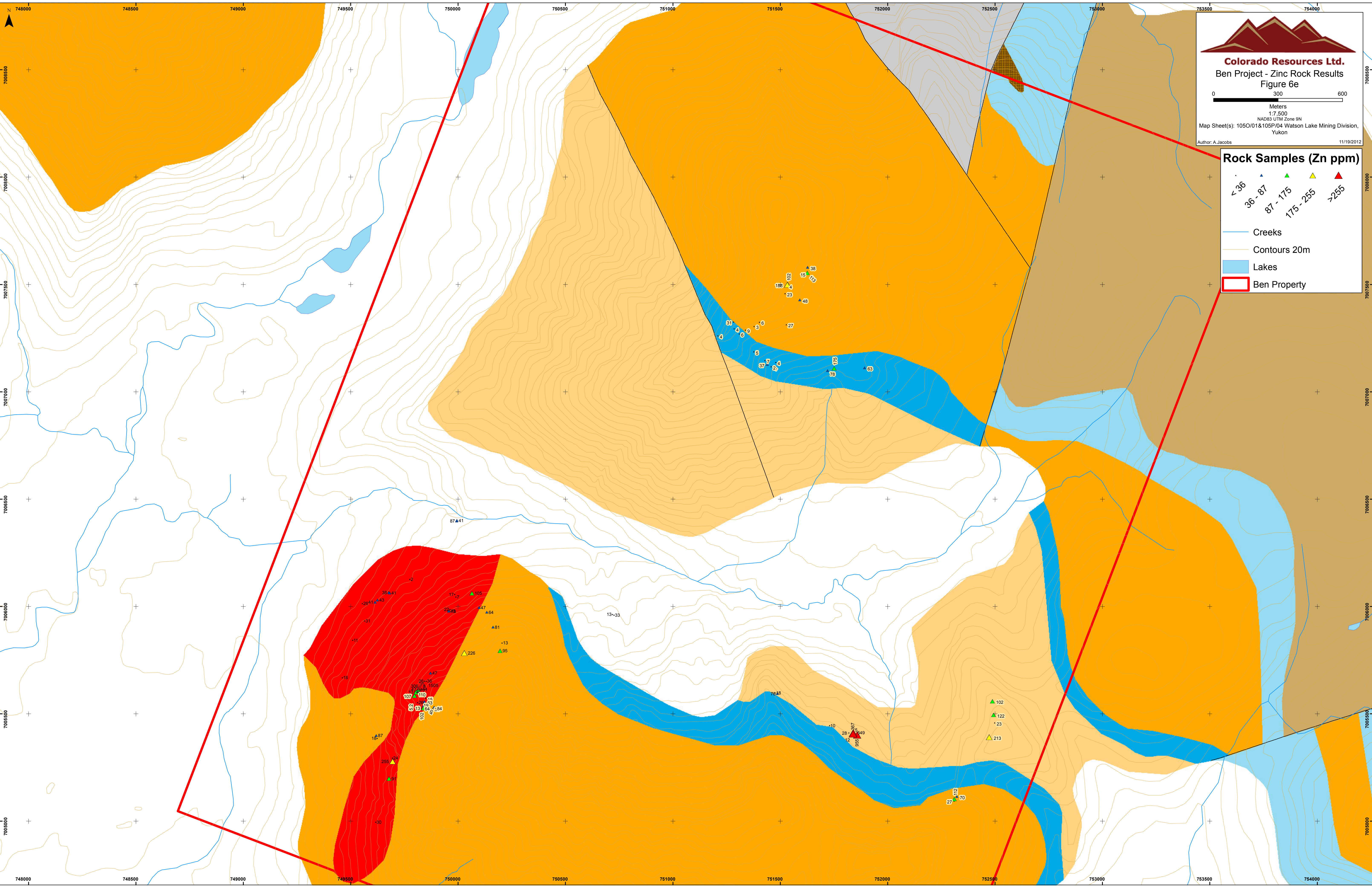
Colorado Resources Ltd.
Ben Project - Arsenic Rock Results
Figure 6c

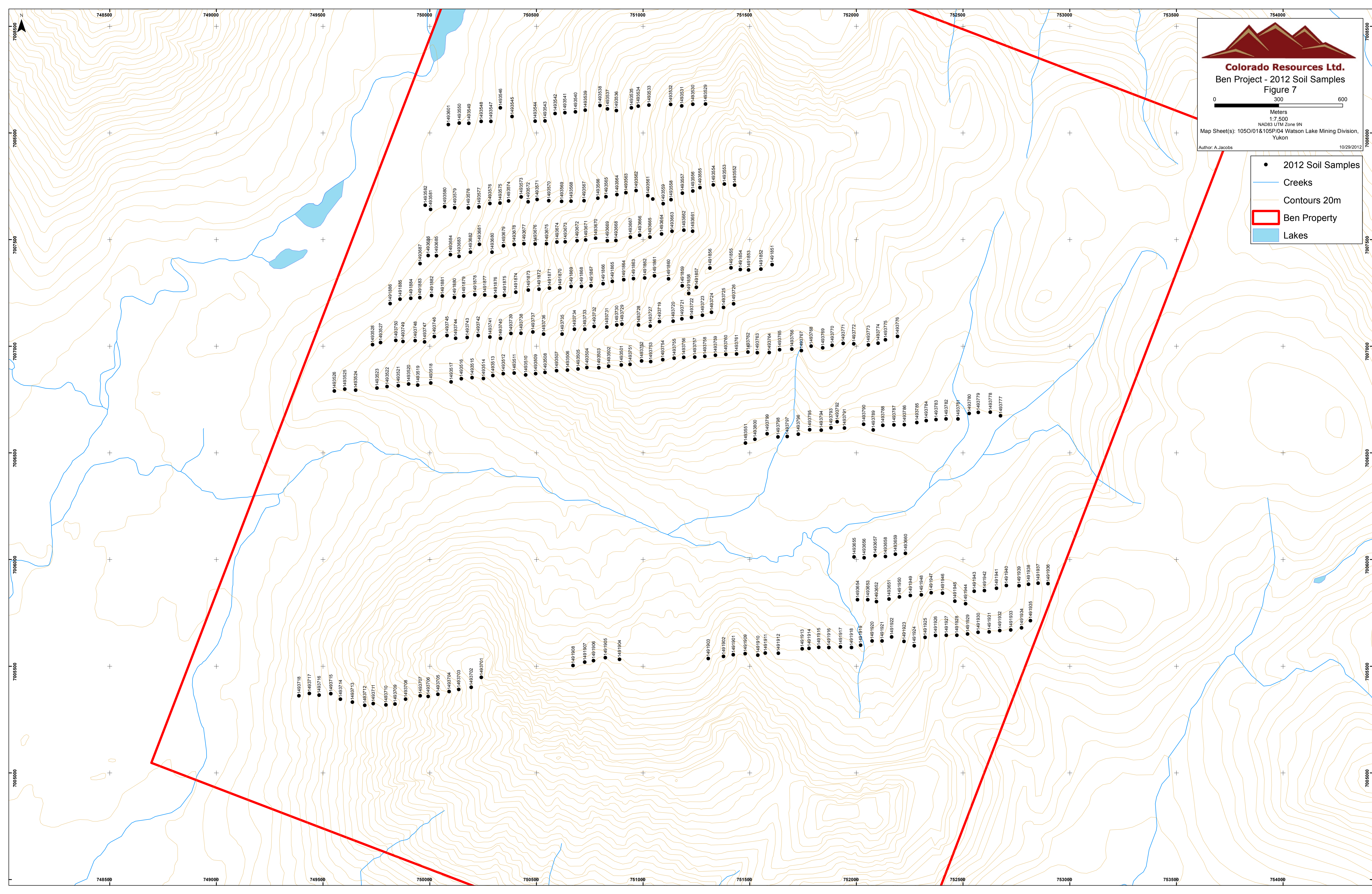
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Meters
1:7,500
NAD83 UTM Zone 9N
Map Sheet(s): 105O/01&105P/04 Watson Lake Mining Division,
Yukon
Author: A.Jacobs 11/19/2012

Rock Samples (As ppm)

- < 78.5
 - 78.5 - 1923
 - 1923 - 9000
 - 9000 - 10000
 - > 10000
- Creeks
- Contours 20m
- Lakes
- Ben Property







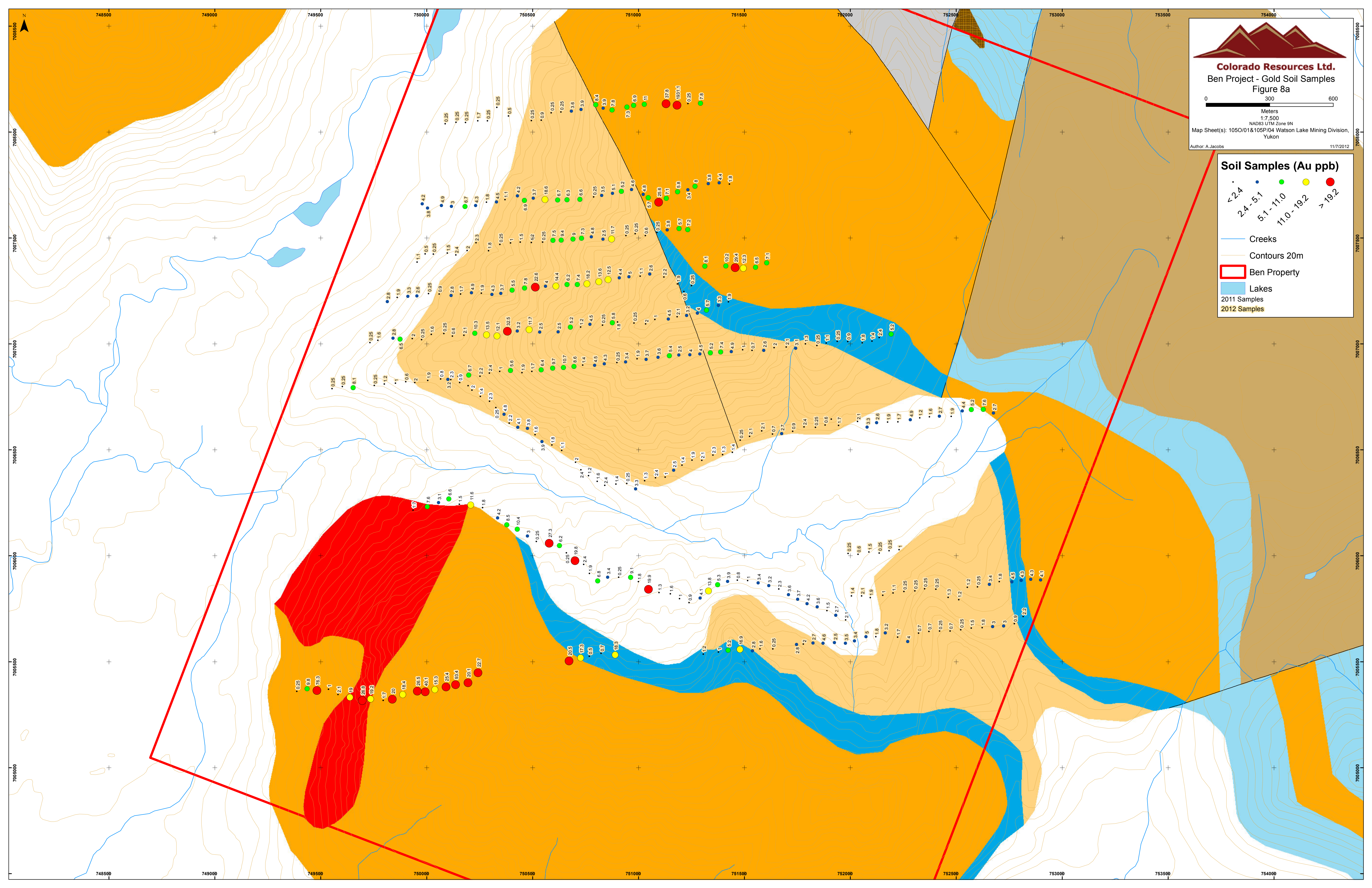
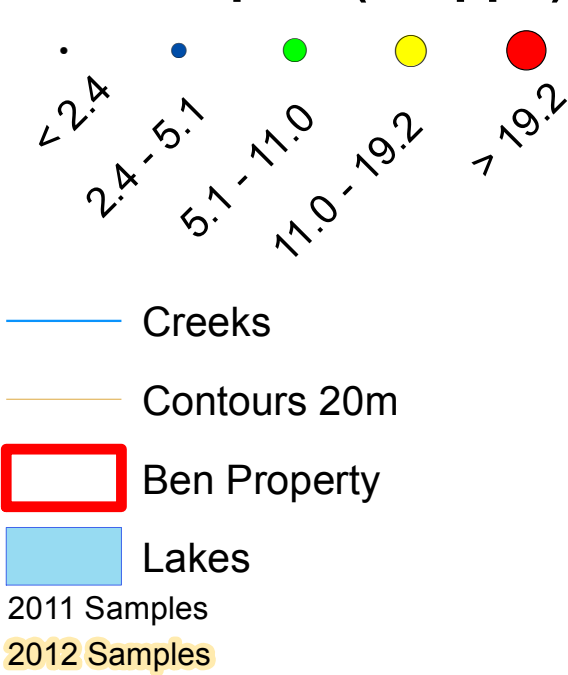


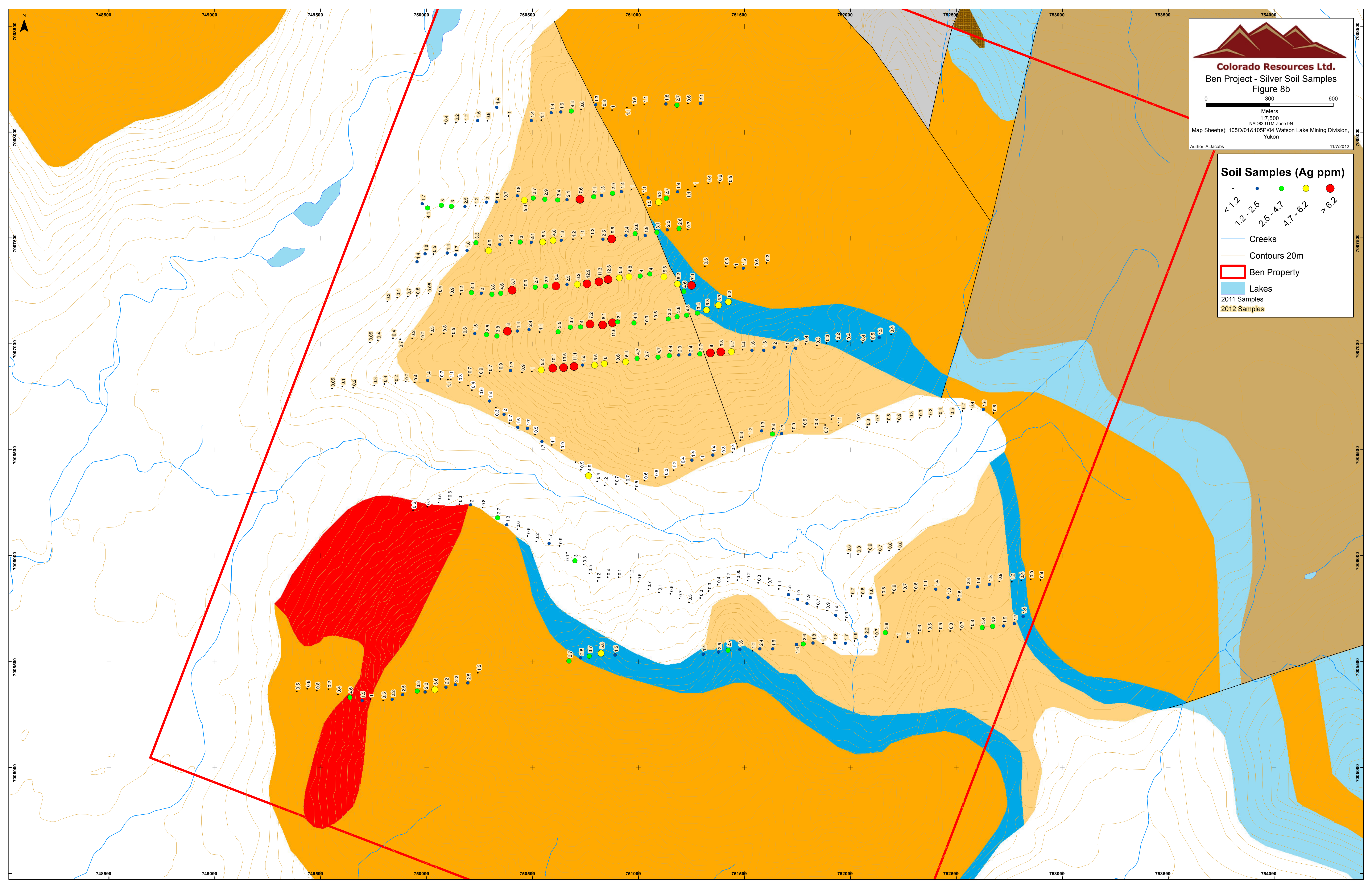
Colorado Resources Ltd.
Ben Project - Gold Soil Samples
Figure 8a

0 300 600
Meters
1:7,500
NAD83 UTM Zone 9N
Map Sheet(s): 105O/01&105P/04 Watson Lake Mining Division,
Yukon

Author: A.Jacobs 11/7/2012

Soil Samples (Au ppb)







Colorado Resources Ltd.
Ben Project - Silver Soil Samples
Figure 8b

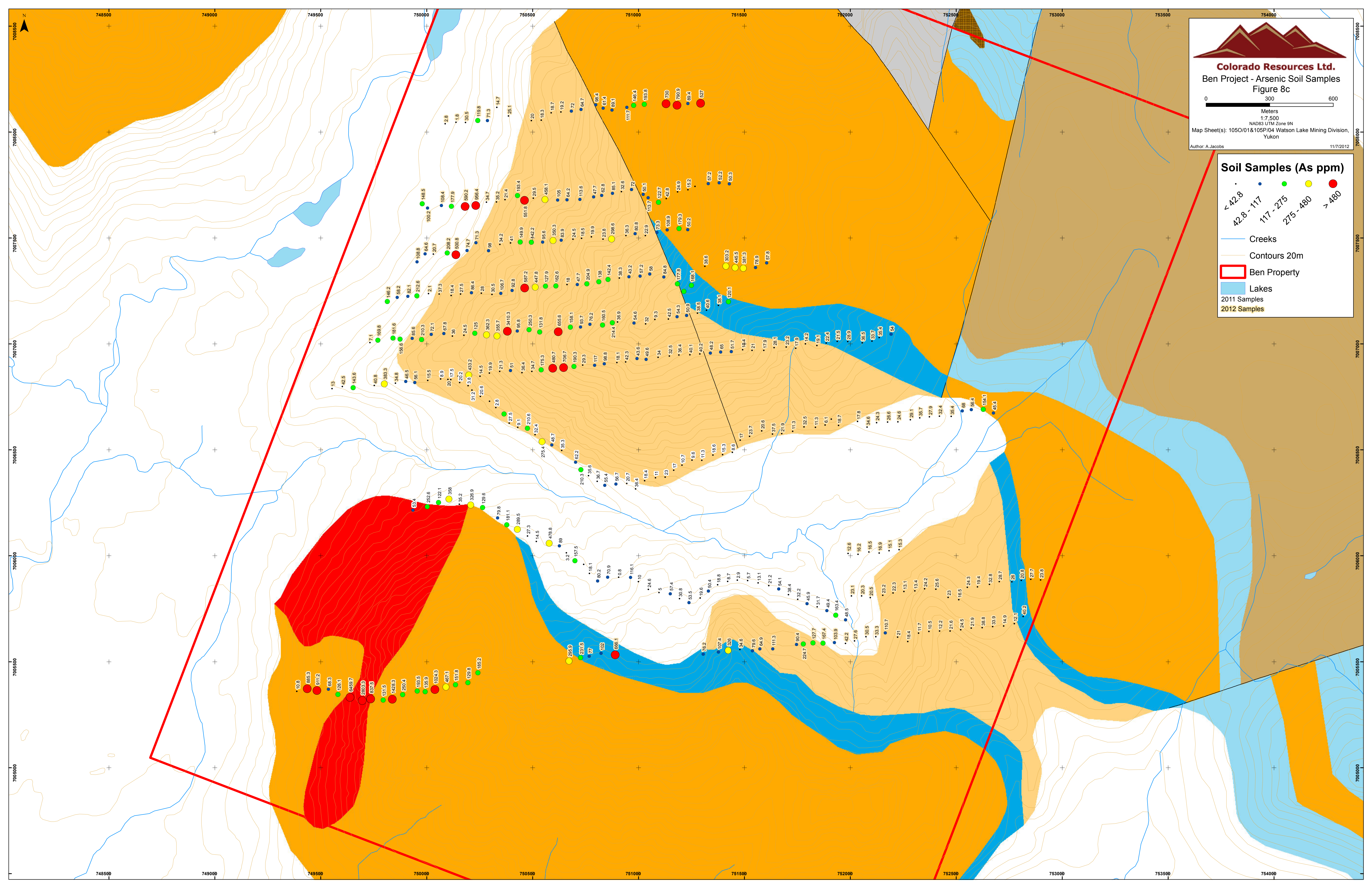
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Meters
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Yukon

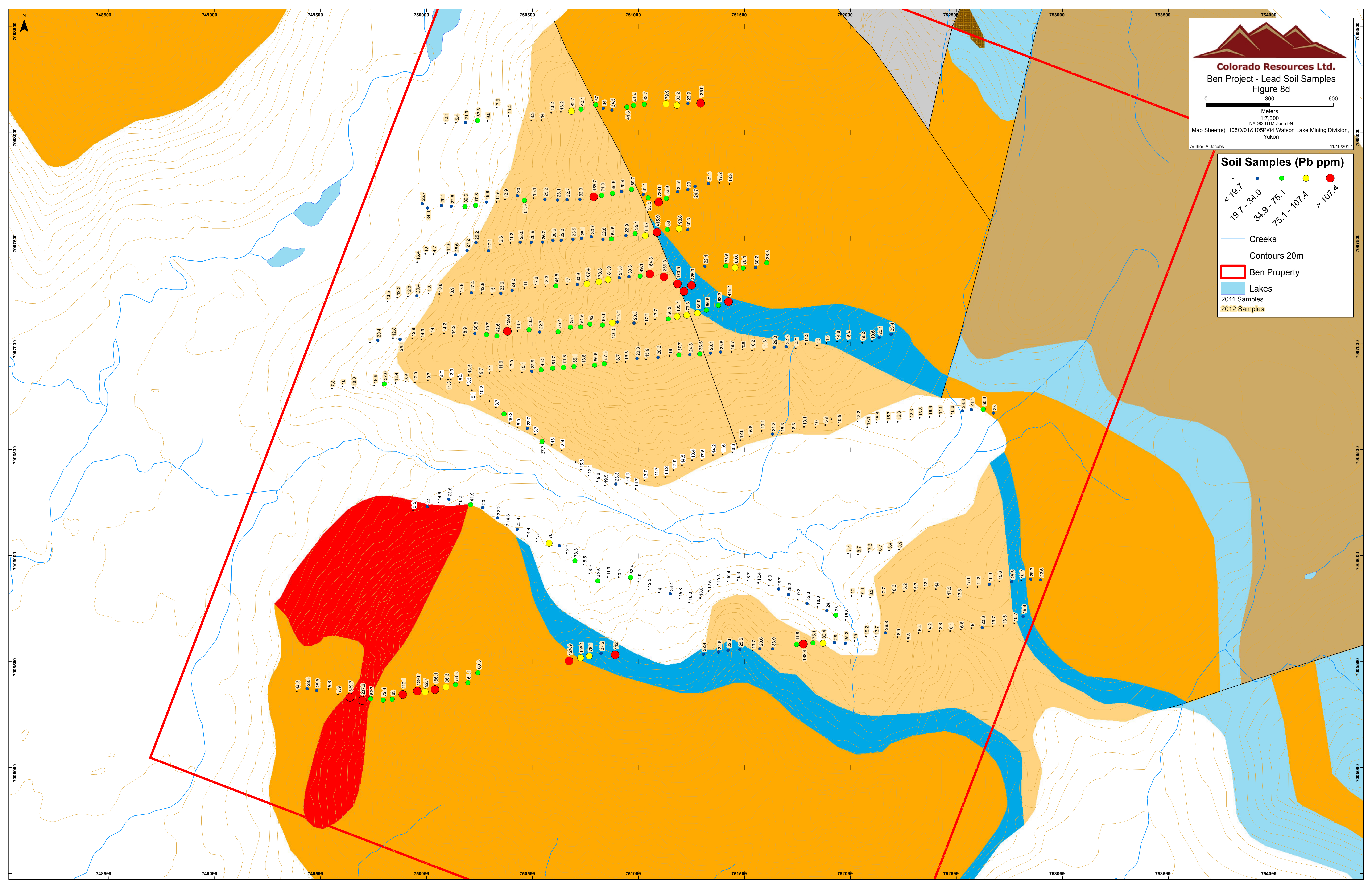
Author: A.Jacobs 11/7/2012

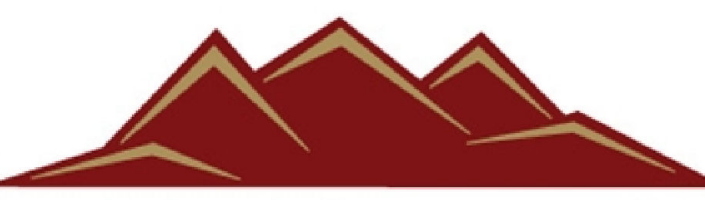
Soil Samples (Ag ppm)

• <1.2
• 1.2-2.5
• 2.5-4.7
• 4.7-6.2
• >6.2

— Creeks
— Contours 20m
 Ben Property
— Lakes
2011 Samples
2012 Samples







Colorado Resources Ltd.
Ben Project - Lead Soil Samples
Figure 8d

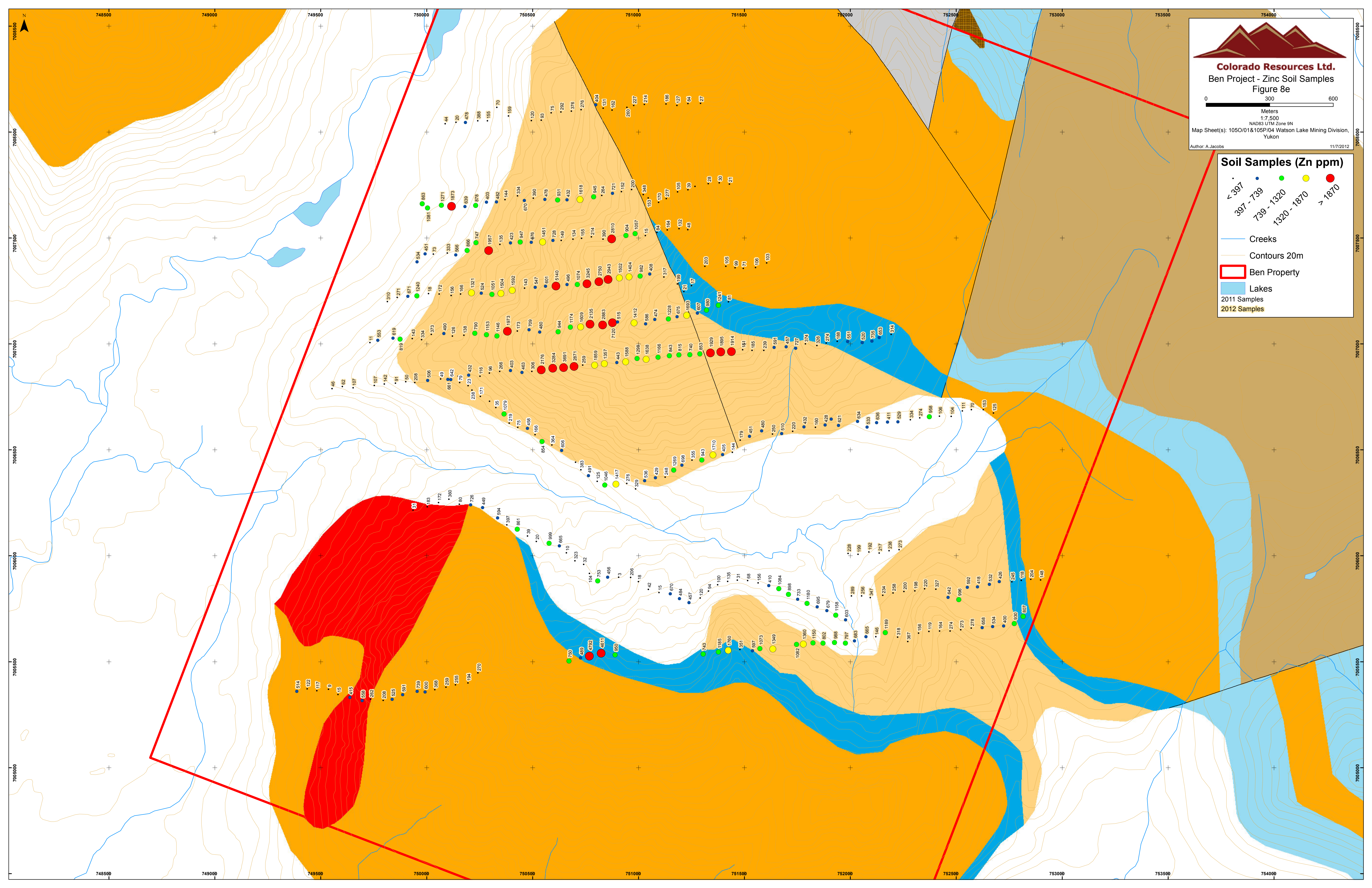
0 300 600
Meters
1:7,500
NAD83 UTM Zone 9N
Map Sheet(s): 105O/01&105P/04 Watson Lake Mining Division,
Yukon

Author: A.Jacobs 11/19/2012

Soil Samples (Pb ppm)

• < 19.7
• 19.7 - 34.9
• 34.9 - 75.1
• 75.1 - 107.4
• > 107.4

— Creeks
— Contours 20m
 Ben Property
— Lakes
2011 Samples
2012 Samples



Colorado Resources Ltd.
Ben Project - Zinc Soil Samples
Figure 8e

0 300 600
Meters
1:7,500
NAD83 UTM Zone 9N
Map Sheet(s): 105O/01&105P/04 Watson Lake Mining Division,
Yukon

Author: A.Jacobs 11/7/2012

Soil Samples (Zn ppm)

• < 397
• 397 - 739
• 739 - 1320
• 1320 - 1870
• > 1870

— Creeks
— Contours 20m
□ Ben Property
— Lakes
• 2011 Samples
• 2012 Samples



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client:

Colorado Resources Ltd.

110 - 2300 Carrington Road
West Kelowna BC V4T 2N6 Canada

Submitted By: Linda Dandy

Receiving Lab: Canada-Whitehorse

Received: August 03, 2012

Report Date: August 20, 2012

Page: 1 of 3

CERTIFICATE OF ANALYSIS

WHI12000545.1

CLIENT JOB INFORMATION

Project: Ben Property
Shipment ID: #1
P.O. Number: NA12346
Number of Samples: 45

SAMPLE DISPOSAL

RTRN-PLP Return
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Colorado Resources Ltd.
110 - 2300 Carrington Road
West Kelowna BC V4T 2N6
Canada

CC: Greg Dawson
Allan Jacobs
Jessica Norris

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-500	44	Crush, split and pulverize 500 g rock to 200 mesh			VAN
3B	44	Fire assay fusion Au by ICP-ES	30	Completed	VAN
1DX	44	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: **Colorado Resources Ltd.**
110 - 2300 Carrington Road
West Kelowna BC V4T 2N6 Canada

Project: Ben Property
Report Date: August 20, 2012

Page: 2 of 3

Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI12000545.1

	Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V
	Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2
1290601	Rock	1.38	3	1.4	101.0	14.0	107	0.6	93.4	11.3	121	3.46	42.8	3.0	5.6	16	0.2	0.5	0.9	50
1290602	Rock	3.52	18	0.3	32.0	30.8	13	0.6	36.9	3.5	441	4.31	4240	17.0	13.6	18	<0.1	1.5	1.5	<2
1290603	Rock	1.77	6	2.0	52.1	10.9	102	0.4	42.2	9.5	261	2.47	31.5	0.9	5.3	72	0.3	1.3	0.3	51
1290604	Rock	1.85	4	2.7	32.2	9.6	45	0.3	17.8	3.1	136	2.75	81.7	<0.5	8.0	7	<0.1	1.6	1.9	53
1290606	Rock	1.89	3	2.1	84.4	47.2	23	0.3	5.1	0.6	32	1.72	43.2	0.6	2.5	2	<0.1	1.9	0.3	25
1290607	Rock	1.75	<2	0.7	38.2	33.6	102	0.2	54.4	20.4	374	3.97	341.1	1.6	9.7	69	<0.1	16.3	0.8	47
1290608	Rock	1.30	3	1.8	40.9	53.0	4	0.2	0.9	0.2	15	0.64	6.0	2.4	6.2	4	<0.1	0.7	0.2	7
1290609	Rock	1.74	13	2.5	186.8	23.6	188	0.3	30.0	4.2	12	10.58	14.9	2.4	5.4	4	0.3	2.5	0.5	85
1290610	Rock	1.32	8	2.7	174.5	123.3	38	0.4	11.5	0.9	14	3.56	298.3	1.7	7.8	5	0.1	4.4	0.2	40
1290611	Rock	1.40	4	1.4	103.8	24.9	113	0.3	50.1	4.6	29	4.06	31.4	2.3	3.0	6	0.1	1.8	<0.1	44
1290612	Rock	1.45	4	1.3	96.7	50.4	15	0.3	4.6	0.6	26	1.81	128.5	0.9	4.5	2	<0.1	2.0	0.2	19
1290613	Rock	1.43	3	2.2	61.3	4.1	48	0.2	13.8	1.8	45	2.34	73.8	<0.5	4.0	20	0.1	2.8	<0.1	33
1290614	Rock	1.59	3	53.2	16.6	211.0	27	1.1	1.9	0.2	46	0.89	35.9	<0.5	3.1	6	<0.1	9.6	0.1	95
1290615	Rock	1.44	<2	34.8	10.2	99.1	5	1.4	1.4	0.1	35	0.53	11.0	<0.5	0.9	10	<0.1	6.2	<0.1	47
1290616	Rock	1.53	2	18.6	10.8	35.4	2	1.0	0.9	<0.1	28	0.45	7.8	<0.5	0.9	5	<0.1	3.6	<0.1	47
1290617	Rock	1.95	<2	38.6	10.9	64.4	4	1.2	1.4	<0.1	29	0.47	7.4	<0.5	0.9	5	<0.1	3.8	<0.1	61
1290618	Rock	1.17	6	38.8	10.8	43.9	37	1.1	1.7	0.1	29	0.64	15.5	1.3	0.9	3	0.2	7.0	<0.1	59
1290619	Rock	1.83	4	37.1	10.0	74.7	7	0.7	1.3	<0.1	23	0.39	24.8	<0.5	1.0	3	<0.1	5.1	<0.1	61
1290620	Rock	1.64	3	24.9	6.4	84.9	4	1.1	1.0	<0.1	34	0.49	6.3	<0.5	0.7	7	<0.1	4.4	<0.1	45
1290651	Rock	1.06	4	1.9	37.4	11.2	63	0.2	35.2	8.1	116	2.08	1053	<0.5	6.9	36	0.2	1.9	1.0	53
1290652	Rock	0.93	579	0.4	19.2	12.3	15	0.4	13.0	72.9	86	5.23	>10000	517.8	13.0	15	<0.1	37.4	28.6	8
1290653	Rock	1.17	38	0.2	17.8	11.3	32	0.1	10.8	6.1	261	2.07	3496	51.4	14.2	38	<0.1	2.8	0.7	20
1290654	Rock	1.48	9	2.6	54.6	15.3	84	0.4	30.2	6.7	143	2.57	31.2	<0.5	6.9	40	0.3	3.1	0.4	68
1290655	Rock	0.70	9	3.5	53.6	21.3	31	0.5	5.4	0.7	23	1.55	16.0	<0.5	5.6	14	0.3	2.1	0.3	40
1290656	Rock	1.13	8	19.7	13.6	90.6	4	1.9	1.1	<0.1	27	0.45	27.5	1.5	0.8	5	<0.1	5.3	<0.1	40
1290657	Rock	0.95	9	67.7	10.8	21.5	4	0.9	1.5	0.1	38	0.74	24.0	<0.5	0.8	5	<0.1	4.3	<0.1	82
1290658	Rock	1.11	6	33.6	11.5	25.1	6	1.1	1.4	<0.1	29	0.49	8.2	1.1	0.6	2	0.2	4.6	<0.1	62
1290659	Rock	0.98	12	11.4	5.6	25.2	9	1.0	0.9	<0.1	27	0.34	4.7	<0.5	0.4	2	0.1	2.8	<0.1	35
1290660	Rock	0.81	6	13.1	12.3	133.5	3	1.3	1.4	<0.1	24	0.66	12.3	<0.5	2.1	18	0.1	9.9	<0.1	67
1290661	Rock	1.32	7	35.6	5.5	55.7	6	1.0	1.2	<0.1	33	0.49	8.0	<0.5	0.9	1	0.1	2.4	<0.1	45



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Report Date: August 20, 2012

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CERTIFICATE OF ANALYSIS

WHI12000545.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1
1290601	Rock	0.034	10	69	1.02	169	0.005	<20	1.89	0.018	0.14	<0.1	0.01	0.1	1.07	2.8	6.8	5
1290602	Rock	0.038	17	3	0.03	22	0.014	<20	0.27	0.010	0.15	0.2	<0.01	<0.1	2.06	0.9	3.4	1
1290603	Rock	0.050	5	39	0.55	243	0.072	<20	1.79	0.022	0.49	0.2	<0.01	0.2	0.34	1.9	2.4	4
1290604	Rock	0.051	10	37	0.76	164	0.049	<20	1.63	0.007	0.41	0.2	<0.01	0.1	0.09	2.1	1.4	5
1290606	Rock	0.021	26	9	<0.01	54	0.002	<20	0.26	<0.001	0.08	<0.1	<0.01	<0.1	<0.05	1.0	3.0	<1
1290607	Rock	0.098	14	42	0.93	107	0.082	<20	3.01	0.143	0.52	0.1	<0.01	0.5	1.43	7.9	1.4	8
1290608	Rock	0.008	20	6	0.02	119	0.002	<20	0.25	<0.001	0.14	<0.1	<0.01	<0.1	<0.05	0.8	4.7	1
1290609	Rock	0.023	9	25	0.01	105	0.004	<20	0.80	<0.001	0.15	<0.1	0.02	<0.1	<0.05	2.2	5.0	2
1290610	Rock	0.027	20	16	0.02	109	0.002	<20	0.58	<0.001	0.15	<0.1	0.02	<0.1	<0.05	2.2	4.0	1
1290611	Rock	0.021	4	30	0.22	89	0.055	<20	0.94	<0.001	0.22	<0.1	<0.01	0.6	<0.05	3.6	2.2	4
1290612	Rock	0.014	9	11	<0.01	39	0.002	<20	0.17	<0.001	0.07	<0.1	<0.01	<0.1	<0.05	1.1	4.7	1
1290613	Rock	0.042	14	13	0.08	98	0.007	<20	0.41	<0.001	0.09	<0.1	<0.01	<0.1	<0.05	0.8	3.9	2
1290614	Rock	0.023	6	10	0.02	183	0.005	<20	0.19	<0.001	0.13	<0.1	0.17	<0.1	0.07	1.0	9.9	<1
1290615	Rock	0.014	3	9	<0.01	89	0.003	<20	0.07	<0.001	0.07	<0.1	0.34	0.2	0.07	0.4	11.0	<1
1290616	Rock	0.014	3	7	<0.01	94	0.003	<20	0.08	<0.001	0.07	<0.1	0.18	0.1	0.06	0.5	8.8	<1
1290617	Rock	0.011	3	8	<0.01	101	0.003	<20	0.09	<0.001	0.08	<0.1	0.27	0.1	0.07	0.6	11.7	<1
1290618	Rock	0.008	3	9	<0.01	128	0.004	<20	0.08	<0.001	0.11	<0.1	0.14	0.2	0.14	0.3	8.1	<1
1290619	Rock	0.009	2	8	<0.01	96	0.003	<20	0.09	<0.001	0.08	<0.1	0.20	0.1	0.07	0.3	7.1	<1
1290620	Rock	0.012	3	9	<0.01	81	0.002	<20	0.07	<0.001	0.06	<0.1	0.15	0.1	0.06	0.2	12.9	<1
1290651	Rock	0.041	9	31	0.74	173	0.080	<20	1.84	0.114	0.77	2.2	0.02	0.6	0.47	3.5	1.4	6
1290652	Rock	0.038	14	11	0.35	15	0.020	<20	0.88	0.075	0.27	11.2	<0.01	0.3	2.48	1.4	11.0	4
1290653	Rock	0.041	16	26	0.73	69	0.081	<20	1.85	0.157	0.59	1.1	<0.01	0.4	0.41	3.9	<0.5	7
1290654	Rock	0.052	7	44	0.79	180	0.061	<20	1.93	0.057	0.51	0.2	<0.01	0.4	0.29	3.1	3.1	5
1290655	Rock	0.031	15	20	0.23	232	0.028	<20	0.77	<0.001	0.27	<0.1	0.02	0.5	0.06	1.4	2.7	3
1290656	Rock	0.012	4	7	<0.01	73	0.003	<20	0.06	<0.001	0.06	<0.1	0.11	0.1	0.05	0.5	9.0	<1
1290657	Rock	0.012	3	8	<0.01	164	0.007	<20	0.08	<0.001	0.11	<0.1	0.19	0.3	0.16	0.4	14.9	<1
1290658	Rock	0.008	3	7	<0.01	96	0.003	<20	0.10	<0.001	0.09	<0.1	0.36	0.2	0.10	0.5	7.3	<1
1290659	Rock	0.003	2	6	<0.01	70	0.001	<20	0.06	<0.001	0.05	<0.1	0.50	<0.1	<0.05	0.2	4.7	<1
1290660	Rock	0.030	4	12	<0.01	186	0.003	<20	0.12	<0.001	0.15	<0.1	0.04	0.2	0.14	0.5	17.6	1
1290661	Rock	0.005	3	5	<0.01	143	0.004	<20	0.08	<0.001	0.08	<0.1	0.32	<0.1	0.09	0.3	11.3	<1



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Project: Ben Property

Report Date: August 20, 2012

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CERTIFICATE OF ANALYSIS

WHI12000545.1

	Method Analyte Unit MDL	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2
1290662	Rock	0.73	6	6.2	19.6	11.9	175	1.8	29.6	1.5	15	1.26	8.7	<0.5	6.5	62	0.6	5.5	0.1	215
1290663	Rock	1.04	<2	1.2	2.0	2.4	78	0.2	16.0	2.8	262	0.62	8.6	<0.5	0.8	533	1.6	0.7	<0.1	11
1290664	Rock	0.93	<2	5.5	2.5	5.1	63	0.1	29.5	4.0	306	1.14	5.3	<0.5	5.2	113	0.3	1.6	<0.1	187
1290950	Rock	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1290951	Rock	1.16	1501	1.6	13.3	9.5	19	0.4	58.3	39.0	151	3.41	>10000	1499	5.6	57	<0.1	22.5	53.8	20
1290952	Rock	1.12	316	2.3	36.4	8.5	64	0.3	37.1	6.8	115	1.98	148.4	24.3	6.0	20	0.2	1.7	15.2	72
1290953	Rock	1.03	11	2.4	46.5	7.3	110	0.2	36.8	6.3	104	2.50	12.7	<0.5	7.6	6	0.4	1.6	1.4	55
1290954	Rock	1.24	9	18.7	21.8	32.4	27	0.5	7.7	1.3	53	2.17	37.9	10.6	6.6	12	0.1	9.7	0.4	109
1290955	Rock	0.92	5	49.2	40.6	59.9	112	0.6	57.8	4.7	139	1.04	24.4	1.4	2.7	185	1.3	7.0	<0.1	119
1290956	Rock	0.85	4	28.4	25.5	414.7	31	2.9	2.8	0.2	41	1.13	23.0	3.8	2.1	38	0.2	14.3	0.3	73
1290957	Rock	0.99	4	67.3	70.4	781.5	70	1.6	8.2	0.2	26	3.64	158.7	0.6	9.7	385	1.3	23.6	0.3	390
1290958	Rock	1.09	3	5.5	24.2	3.0	213	0.5	10.0	0.7	369	0.39	6.2	1.2	0.8	110	7.0	1.6	<0.1	46
1290959	Rock	1.12	<2	1.4	14.0	3.9	23	0.3	35.6	2.6	118	1.02	7.1	0.6	2.2	558	0.3	1.8	<0.1	20
1290960	Rock	0.96	7	2.5	13.8	5.5	122	0.5	41.4	5.0	100	1.53	21.7	<0.5	2.3	484	1.4	0.8	<0.1	29
1290961	Rock	0.92	2	0.7	9.3	1.7	102	0.2	18.2	1.8	134	0.90	13.7	<0.5	1.0	704	1.2	0.3	<0.1	11



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CERTIFICATE OF ANALYSIS

WHI12000545.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga	Te
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2
1290662	Rock	0.727	23	32	0.10	297	0.016	<20	0.70	0.005	0.41	<0.1	0.09	0.1	0.10	1.6	7.3	2	<0.2
1290663	Rock	0.076	9	3	0.37	14	0.001	<20	0.08	<0.001	0.03	<0.1	0.02	<0.1	<0.05	0.7	0.9	<1	<0.2
1290664	Rock	0.038	4	37	4.45	462	0.113	<20	3.25	<0.001	2.16	0.1	0.02	1.0	0.07	4.8	0.6	9	<0.2
1290950	Rock	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1290951	Rock	0.048	13	17	0.48	32	0.029	<20	1.03	0.065	0.30	0.6	<0.01	0.3	1.39	2.0	2.9	4	0.4
1290952	Rock	0.057	9	43	0.74	171	0.073	<20	1.36	0.041	0.67	0.2	<0.01	0.4	0.24	2.4	1.4	5	<0.2
1290953	Rock	0.054	7	39	0.73	189	0.064	<20	1.43	0.007	0.51	0.2	<0.01	0.4	0.32	2.0	1.5	4	<0.2
1290954	Rock	0.050	14	28	0.33	135	0.048	<20	0.90	0.001	0.46	0.1	0.06	0.6	0.10	1.4	11.0	3	<0.2
1290955	Rock	0.042	7	25	1.83	103	0.026	<20	1.04	<0.001	0.59	0.2	0.07	0.6	0.35	3.1	2.9	3	<0.2
1290956	Rock	0.050	11	12	<0.01	62	0.005	<20	0.10	0.001	0.12	0.1	0.10	0.3	0.14	0.4	29.4	1	<0.2
1290957	Rock	0.536	107	45	0.02	139	0.010	<20	0.46	<0.001	0.18	0.2	0.17	0.4	0.21	1.6	14.8	11	0.3
1290958	Rock	0.009	2	3	0.13	29	<0.001	<20	0.06	0.001	0.03	<0.1	0.07	<0.1	<0.05	0.8	<0.5	<1	<0.2
1290959	Rock	0.153	6	25	0.59	48	0.009	<20	0.71	0.004	0.21	<0.1	0.03	0.1	0.07	1.7	<0.5	1	<0.2
1290960	Rock	0.242	6	27	0.66	53	0.017	<20	0.74	0.003	0.20	<0.1	0.03	0.1	0.15	1.8	1.1	1	<0.2
1290961	Rock	0.277	8	8	0.42	20	0.008	<20	0.23	0.002	0.07	<0.1	0.03	<0.1	0.06	1.1	<0.5	<1	<0.2



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QUALITY CONTROL REPORT

WHI12000545.1

	Method Analyte Unit MDL	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
Pulp Duplicates																					
1290615	Rock	1.44	<2	34.8	10.2	99.1	5	1.4	1.4	0.1	35	0.53	11.0	<0.5	0.9	10	<0.1	6.2	<0.1	47	<0.01
REP 1290615	QC			33.3	10.3	98.3	4	1.4	1.3	0.1	34	0.53	10.6	<0.5	0.9	9	<0.1	6.5	<0.1	47	<0.01
1290660	Rock	0.81	6	13.1	12.3	133.5	3	1.3	1.4	<0.1	24	0.66	12.3	<0.5	2.1	18	0.1	9.9	<0.1	67	<0.01
REP 1290660	QC		6																		
1290954	Rock	1.24	9	18.7	21.8	32.4	27	0.5	7.7	1.3	53	2.17	37.9	10.6	6.6	12	0.1	9.7	0.4	109	0.03
REP 1290954	QC			20.0	23.5	32.9	28	0.5	7.3	1.3	57	2.22	39.3	8.9	6.7	14	<0.1	10.1	0.3	111	0.03
Core Reject Duplicates																					
1290653	Rock	1.17	38	0.2	17.8	11.3	32	0.1	10.8	6.1	261	2.07	3496	51.4	14.2	38	<0.1	2.8	0.7	20	0.47
DUP 1290653	QC		41	0.2	16.5	12.1	34	0.1	10.5	6.1	258	2.13	3679	48.8	13.8	37	<0.1	3.0	0.7	20	0.46
Reference Materials																					
STD DS9	Standard			12.5	105.2	127.4	315	1.6	42.7	7.2	597	2.23	28.6	145.9	5.6	74	2.5	5.4	6.3	37	0.68
STD DS9	Standard			13.3	112.7	132.1	319	2.2	42.3	7.8	538	2.41	26.4	112.1	6.7	76	2.7	5.0	5.4	39	0.74
STD DS9	Standard			13.2	122.8	127.4	324	2.3	42.5	8.1	596	2.42	26.6	115.4	6.8	73	2.4	4.5	7.1	41	0.75
STD OREAS45CA	Standard			1.0	491.1	20.0	56	0.2	237.4	90.9	919	14.53	4.2	36.7	6.9	8	<0.1	0.2	0.1	206	0.47
STD OREAS45CA	Standard			1.0	505.6	20.4	60	0.3	254.4	86.9	928	16.92	3.5	40.8	7.3	15	0.2	0.2	<0.1	220	0.44
STD OREAS45CA	Standard			1.0	539.5	26.4	65	0.3	258.8	98.1	974	16.67	3.8	46.5	8.6	17	<0.1	0.1	0.2	239	0.44
STD OXD87	Standard		443																		
STD OXD87	Standard		415																		
STD OXD87	Standard		416																		
STD OXG99	Standard		959																		
STD OXG99	Standard		959																		
STD OXG99	Standard		996																		
STD OXD87 Expected			417																		
STD OXG99 Expected			932																		
STD DS9 Expected				12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201
STD OREAS45CA Expected				1	494	20	60	0.275	240	92	943	15.69	3.8	43	7	15	0.1	0.13	0.19	215	0.4265
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank		<2																		



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QUALITY CONTROL REPORT

WHI12000545.1

Method		1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1
Pulp Duplicates																		
1290615	Rock	0.014	3	9	<0.01	89	0.003	<20	0.07	<0.001	0.07	<0.1	0.34	0.2	0.07	0.4	11.0	<1
REP 1290615	QC	0.014	3	9	<0.01	89	0.003	<20	0.07	<0.001	0.07	<0.1	0.33	0.2	0.07	0.4	11.7	<1
1290660	Rock	0.030	4	12	<0.01	186	0.003	<20	0.12	<0.001	0.15	<0.1	0.04	0.2	0.14	0.5	17.6	1
REP 1290660	QC																	
1290954	Rock	0.050	14	28	0.33	135	0.048	<20	0.90	0.001	0.46	0.1	0.06	0.6	0.10	1.4	11.0	3
REP 1290954	QC	0.052	14	29	0.33	137	0.050	<20	0.94	<0.001	0.47	0.2	0.05	0.4	0.10	1.6	14.1	4
Core Reject Duplicates																		
1290653	Rock	0.041	16	26	0.73	69	0.081	<20	1.85	0.157	0.59	1.1	<0.01	0.4	0.41	3.9	<0.5	7
DUP 1290653	QC	0.043	16	25	0.73	67	0.082	<20	1.83	0.147	0.59	0.8	<0.01	0.4	0.42	4.1	<0.5	7
Reference Materials																		
STD DS9	Standard	0.080	12	121	0.60	324	0.106	<20	0.93	0.079	0.38	3.3	0.20	5.3	0.16	2.2	5.3	5
STD DS9	Standard	0.088	13	130	0.63	342	0.116	<20	0.96	0.083	0.40	2.7	0.25	5.6	0.18	2.5	6.7	5
STD DS9	Standard	0.085	13	128	0.65	319	0.124	<20	0.99	0.081	0.40	3.0	0.24	5.4	0.17	2.5	5.4	4
STD OREAS45CA	Standard	0.037	16	704	0.13	166	0.134	<20	3.51	0.008	0.07	<0.1	0.03	<0.1	<0.05	43.1	0.9	18
STD OREAS45CA	Standard	0.037	16	745	0.14	167	0.135	<20	3.54	0.010	0.07	<0.1	0.03	<0.1	<0.05	44.8	<0.5	18
STD OREAS45CA	Standard	0.040	18	780	0.15	189	0.165	<20	3.85	0.007	0.08	<0.1	0.04	<0.1	<0.05	45.5	<0.5	20
STD OXD87	Standard																	
STD OXD87	Standard																	
STD OXD87	Standard																	
STD OXG99	Standard																	
STD OXG99	Standard																	
STD OXG99	Standard																	
STD OXD87 Expected																		
STD OXG99 Expected																		
STD DS9 Expected		0.0819	13.3	121	0.6165	330	0.1108		0.9577	0.0853	0.395	2.89	0.2	5.3	0.1615	2.5	5.2	4.59
STD OREAS45CA Expected		0.0385	15.9	709	0.1358	164	0.128		3.592	0.0075	0.0717		0.03	0.07	0.021	39.7	0.5	18.4
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.05	<0.1	<0.5	<1
BLK	Blank																	



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Project:

Ben Property

Report Date:

August 20, 2012

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QUALITY CONTROL REPORT

WHI12000545.1

		WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2
BLK	Blank	<2																		
BLK	Blank	<2																		
BLK	Blank	<2																		
BLK	Blank	<2																		
BLK	Blank	<2																		
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2
Prep Wash																				
G1-WHI	Prep Blank		<2	0.1	4.4	6.8	61	<0.1	2.8	4.3	601	2.13	0.7	0.6	6.3	57	<0.1	0.3	<0.1	38
G1-WHI	Prep Blank		<2	<0.1	2.7	2.9	46	<0.1	2.9	4.1	591	2.07	<0.5	<0.5	5.8	53	<0.1	<0.1	<0.1	37



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Report Date: August 20, 2012

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QUALITY CONTROL REPORT

WHI12000545.1

		1DX P %	1DX La ppm	1DX Cr ppm	1DX Mg %	1DX Ba ppm	1DX Ti %	1DX B ppm	1DX Al %	1DX Na %	1DX K %	1DX W ppm	1DX Hg ppm	1DX Tl ppm	1DX S %	1DX Sc ppm	1DX Se ppm	1DX Ga ppm	1DX Te ppm
		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.05	<0.1	<0.5	<1	<0.2
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.05	<0.1	<0.5	<1	<0.2
Prep Wash																			
G1-WHI	Prep Blank	0.079	12	6	0.54	169	0.135	<20	0.89	0.054	0.46	<0.1	<0.01	0.3	<0.05	2.3	<0.5	5	<0.2
G1-WHI	Prep Blank	0.080	12	6	0.52	164	0.140	<20	0.89	0.063	0.46	<0.1	<0.01	0.3	<0.05	2.3	<0.5	5	<0.2



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Submitted By: Linda Dandy

Receiving Lab: Canada-Whitehorse

Received: August 03, 2012

Report Date: August 24, 2012

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CERTIFICATE OF ANALYSIS

WHI12000546.1

CLIENT JOB INFORMATION

Project: Ben Property
Shipment ID: #1
P.O. Number: NA1236
Number of Samples: 309

SAMPLE DISPOSAL

RTRN-PLP Return
DISP-RJT-SOIL Immediate Disposal of Soil Reject

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Colorado Resources Ltd.
110 - 2300 Carrington Road
West Kelowna BC V4T 2N6
Canada

CC: Greg Dawson
Allan Jacobs
Jessica Norris

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	306	Dry at 60C			WHI
SS80	306	Dry at 60C sieve 100g to -80 mesh			WHI
3B	305	Fire assay fusion Au by ICP-ES	30	Completed	VAN
1DX	306	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: Ben Property
Report Date: August 24, 2012

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CERTIFICATE OF ANALYSIS

WHI12000546.1

	Method	Analyte	Unit	MDL	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX			
					Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1491851	Soil				8	9.3	84.7	36.5	103	0.3	27.9	5.6	169	3.97	57.8	7.1	1.4	26	0.3	4.4	0.5	76	0.06	0.122
1491852	Soil				13	8.0	55.1	30.2	106	0.5	23.8	6.2	179	2.82	78.9	6.5	3.2	20	0.3	4.8	0.3	53	0.14	0.091
1491853	Soil				29	13.7	107.4	70.1	71	1.5	14.1	2.9	54	4.02	381.3	12.3	11.4	40	0.2	11.9	0.5	77	0.03	0.125
1491854	Soil				77	15.9	171.1	80.6	99	1.0	21.2	4.2	38	5.57	445.5	29.4	11.8	51	0.4	13.1	0.6	73	0.02	0.164
1491855	Soil				10	13.8	231.5	35.6	105	0.6	31.3	3.6	54	6.70	303.2	10.2	6.5	11	0.6	10.3	0.4	60	0.01	0.124
1491856	Soil				18	10.2	143.3	22.1	203	0.5	67.6	9.4	220	3.76	38.6	8.1	5.8	20	0.6	2.8	0.2	45	0.04	0.080
1491857	Soil				37	403.5	41.8	425.9	17	7.1	4.5	0.2	12	5.11	168.1	<0.5	5.9	145	<0.1	79.9	0.3	315	0.02	0.105
1491858	Soil				18	284.5	53.2	299.9	21	4.6	3.6	0.3	7	3.14	120.5	0.6	10.7	181	0.5	44.8	0.2	279	0.03	0.154
1491859	Soil				16	121.4	159.9	173.5	199	6.2	20.7	1.7	33	4.13	177.8	1.9	8.4	154	1.7	24.7	0.2	276	0.17	0.934
1491860	Soil				22	69.1	96.8	266.3	317	5.6	59.3	6.3	147	3.20	84.8	2.2	5.4	95	5.0	23.7	0.2	184	0.26	0.405
1491861	Soil				10	48.0	116.3	164.8	408	4.0	77.7	8.4	136	2.68	58.0	2.6	1.5	123	8.4	18.5	0.2	176	2.15	0.570
1491862	Soil				6	24.8	158.8	49.1	982	4.0	132.1	10.7	189	3.23	57.2	1.1	2.0	97	17.3	16.6	0.2	172	1.62	0.468
1491863	Soil				10	37.2	164.1	30.8	1404	4.8	135.8	11.7	208	2.98	43.2	5.0	1.1	43	16.2	13.5	0.2	85	1.34	0.342
1491864	Soil				6	22.4	174.3	34.6	1502	5.8	146.1	15.9	310	3.62	38.3	4.4	1.6	51	17.3	15.0	0.2	90	1.22	0.392
1491865	Soil				39	36.3	578.0	81.9	2943	12.6	245.4	53.6	540	10.68	142.4	12.5	9.9	47	30.6	29.8	0.7	135	0.83	0.279
1491866	Soil				38	37.4	536.3	78.3	2750	11.3	240.0	51.8	535	10.23	138.0	13.6	9.5	46	31.6	28.8	0.6	131	0.88	0.273
1491867	Soil				51	35.7	686.0	107.4	3245	12.9	252.1	58.2	510	11.78	204.9	18.2	10.0	59	41.5	27.1	0.9	143	1.40	0.257
1491868	Soil				15	13.8	253.1	30.9	1074	6.2	111.3	19.8	225	5.17	47.7	7.4	3.8	38	11.5	11.9	0.2	99	1.43	0.192
1491869	Soil				8	5.4	111.7	17.0	496	2.5	54.9	10.6	203	3.03	18.0	6.2	3.0	31	5.0	6.3	0.1	84	1.25	0.155
1491870	Soil				31	20.3	532.1	45.8	5140	6.4	234.6	62.6	878	8.10	162.6	14.4	6.4	38	48.5	17.3	0.4	112	1.17	0.203
1491871	Soil				5	11.5	100.7	18.3	601	2.7	52.6	10.5	239	2.86	127.9	4.0	1.8	18	3.6	6.7	0.1	115	0.52	0.209
1491872	Soil				27	10.9	85.4	17.6	547	2.7	50.4	8.5	229	2.27	447.8	22.6	0.8	39	6.8	6.1	0.2	74	1.47	0.170
1491873	Soil				13	5.5	17.0	11.0	143	0.3	15.0	3.3	121	1.52	587.2	7.8	<0.1	5	0.7	2.4	0.1	33	0.08	0.070
1491874	Soil				9	69.2	207.7	24.2	1592	6.7	140.9	12.3	213	3.66	92.8	5.5	3.0	11	11.3	14.8	0.2	149	0.46	0.243
1491875	Soil				13	33.4	181.7	23.6	1504	4.6	142.4	13.5	174	3.60	106.7	3.7	3.2	34	11.1	10.8	0.2	116	1.41	0.180
1491876	Soil				8	15.5	137.3	15.0	1051	3.8	108.6	10.0	134	2.32	30.5	4.3	2.6	25	8.1	6.7	0.1	103	1.02	0.157
1491877	Soil				5	6.7	63.3	12.8	524	2.0	73.6	8.1	146	2.14	28.0	1.9	2.3	37	2.5	3.8	0.1	92	1.16	0.256
1491878	Soil				7	81.4	138.7	27.4	1321	4.1	111.6	11.8	178	2.74	86.4	4.9	0.5	19	16.3	13.0	0.4	196	0.72	0.085
1491879	Soil				4	4.4	29.7	13.5	166	1.2	68.7	6.3	205	1.72	27.5	1.7	2.1	121	1.6	5.7	0.3	73	4.95	1.531
1491880	Soil				4	2.8	23.5	8.9	156	0.9	50.7	5.3	131	1.46	18.4	2.8	1.3	96	1.8	3.4	<0.1	40	3.79	0.811



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Project: Ben Property

Report Date: August 24, 2012

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CERTIFICATE OF ANALYSIS

WHI12000546.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
1491851	Soil	24	33	0.27	134	0.024	<20	1.33	0.004	0.10	0.2	0.03	2.1	0.4	<0.05	5	5.0
1491852	Soil	21	24	0.35	118	0.037	<20	1.18	0.005	0.07	0.2	0.06	2.7	0.3	<0.05	4	2.8
1491853	Soil	36	28	0.23	194	0.025	<20	0.86	0.003	0.14	<0.1	0.04	4.2	0.7	0.09	5	10.2
1491854	Soil	41	22	0.10	241	0.014	<20	0.80	0.003	0.17	<0.1	0.03	4.5	0.7	0.26	4	12.5
1491855	Soil	13	19	0.03	93	0.008	<20	0.67	0.003	0.07	<0.1	0.03	3.3	0.3	<0.05	2	9.2
1491856	Soil	17	20	0.24	128	0.031	<20	1.23	0.006	0.09	0.1	0.03	2.9	0.6	<0.05	4	2.7
1491857	Soil	13	25	0.01	132	0.038	<20	0.13	0.011	0.86	0.6	0.49	2.3	2.4	1.81	3	81.2
1491858	Soil	20	36	0.02	539	0.019	<20	0.21	0.004	0.52	0.3	0.97	3.5	2.0	1.15	8	50.5
1491859	Soil	28	43	0.03	441	0.016	<20	0.61	0.005	0.40	0.3	0.43	5.0	1.2	0.63	5	40.4
1491860	Soil	15	24	0.02	473	0.011	<20	0.35	0.002	0.23	0.1	0.44	2.8	0.9	0.42	2	26.3
1491861	Soil	21	22	0.06	349	0.011	<20	0.49	0.004	0.19	0.1	0.43	2.2	1.1	0.25	3	22.8
1491862	Soil	19	21	0.07	157	0.007	<20	0.65	0.004	0.12	<0.1	0.35	3.1	0.9	0.17	2	13.3
1491863	Soil	14	13	0.12	119	0.004	<20	0.43	0.002	0.12	0.2	0.31	1.9	0.4	0.09	<1	5.2
1491864	Soil	16	16	0.12	152	0.005	<20	0.51	0.002	0.14	0.1	0.37	2.4	0.4	<0.05	1	7.4
1491865	Soil	13	30	1.80	196	0.044	<20	1.86	0.005	0.31	<0.1	0.31	3.6	0.4	0.18	5	26.7
1491866	Soil	12	29	1.72	191	0.043	<20	1.78	0.004	0.30	<0.1	0.35	3.8	0.5	0.17	4	26.1
1491867	Soil	12	35	2.74	198	0.049	<20	2.14	0.004	0.37	<0.1	0.26	3.8	0.4	0.22	5	29.9
1491868	Soil	11	26	1.76	188	0.028	<20	1.51	0.003	0.29	<0.1	0.25	3.0	0.4	<0.05	4	4.9
1491869	Soil	14	25	1.61	185	0.029	<20	1.54	0.004	0.27	<0.1	0.15	2.0	0.4	<0.05	4	2.2
1491870	Soil	14	26	1.69	220	0.034	<20	1.65	0.005	0.33	0.2	0.14	3.6	0.6	0.20	4	19.3
1491871	Soil	13	30	1.34	184	0.027	<20	1.59	0.008	0.23	<0.1	0.14	2.1	0.5	<0.05	5	3.8
1491872	Soil	8	22	0.66	159	0.015	<20	0.91	0.004	0.15	<0.1	0.18	1.3	0.4	0.12	3	3.1
1491873	Soil	11	9	0.20	39	0.007	<20	0.36	0.015	0.10	<0.1	0.04	0.3	0.2	<0.05	2	0.8
1491874	Soil	17	23	0.37	143	0.015	<20	0.80	0.003	0.22	0.2	0.23	2.8	0.6	<0.05	2	6.6
1491875	Soil	13	31	0.83	153	0.020	<20	1.03	0.007	0.25	<0.1	0.36	2.8	0.5	0.06	3	4.3
1491876	Soil	13	29	0.78	136	0.021	<20	0.96	0.005	0.21	<0.1	0.35	3.0	0.4	<0.05	3	1.9
1491877	Soil	17	38	0.83	180	0.017	<20	1.21	0.003	0.22	0.1	0.20	3.1	0.4	<0.05	3	1.8
1491878	Soil	11	29	0.39	91	0.010	<20	0.65	0.001	0.12	0.1	0.51	1.8	0.5	<0.05	3	5.0
1491879	Soil	39	67	1.33	251	0.020	<20	1.71	0.010	0.44	0.1	0.11	3.7	0.5	<0.05	4	1.7
1491880	Soil	22	27	0.44	137	0.016	<20	0.87	0.016	0.21	<0.1	0.09	2.1	0.3	<0.05	2	<0.5



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1491881	Soil	2	3.3	16.6	10.8	172	0.4	34.7	5.1	71	1.49	37.3	0.9	0.1	14	0.7	2.4	0.1	58	0.29	0.159
1491882	Soil	3	0.3	5.2	1.3	18	<0.1	4.6	1.0	51	0.33	2.1	<0.5	<0.1	25	0.2	0.3	<0.1	11	0.70	0.063
1491883	Soil	3	20.7	50.3	20.4	1240	0.8	116.1	15.9	374	2.78	212.6	2.6	7.3	121	13.7	4.4	0.4	599	4.85	0.061
1491884	Soil	3	5.5	38.9	12.8	671	0.7	75.7	9.2	263	2.09	82.1	3.3	4.6	118	8.8	4.7	0.2	519	4.88	0.061
1491885	Soil	2	1.6	16.6	12.3	271	0.4	36.6	6.0	376	1.68	58.2	1.9	2.5	67	3.3	2.4	0.3	147	1.50	0.059
1491886	Soil	4	7.3	33.3	13.5	310	0.3	85.3	13.3	328	1.96	146.2	2.8	3.7	45	2.9	2.1	0.7	323	1.06	0.054
1491901	Soil	12	45.1	302.1	22.3	1760	2.7	222.7	18.0	243	5.81	326.0	5.2	5.4	172	17.5	16.4	0.6	175	1.50	0.401
1491902	Soil	7	37.9	122.6	24.6	1185	2.5	204.4	19.9	327	4.34	107.4	1.0	6.9	66	15.5	12.5	0.5	439	3.99	0.314
1491903	Soil	5	34.7	66.3	22.4	743	1.4	179.4	16.6	301	3.82	76.2	1.2	4.4	55	8.7	9.1	0.3	360	3.14	0.284
1491904	Soil	58	27.7	357.3	112.0	950	1.5	84.4	14.3	330	22.38	666.1	18.3	10.3	44	1.6	31.8	0.7	168	0.02	0.406
1491905	Soil	5	55.6	206.0	27.2	4611	5.8	334.3	15.1	195	3.66	102.0	0.7	1.7	102	43.3	22.8	0.2	927	7.18	0.101
1491906	Soil	11	95.9	197.1	78.1	4792	3.7	299.3	14.6	368	2.86	77.0	0.5	4.8	63	79.6	21.5	0.2	1230	0.57	0.169
1491907	Soil	44	9.0	341.8	106.1	489	2.5	95.8	23.9	514	17.68	231.5	17.3	6.2	123	0.6	14.4	1.0	115	0.13	0.195
1491908	Soil	55	7.4	465.7	124.9	750	2.7	180.2	55.4	889	18.19	295.9	20.5	5.9	147	1.2	14.7	1.2	95	0.15	0.172
1491909	Soil	30	8.4	159.6	25.6	351	1.6	113.9	67.2	887	9.21	34.6	16.9	1.3	241	3.6	6.9	0.2	36	16.62	0.080
1491910	Soil	10	9.7	109.0	13.7	597	1.2	160.5	20.2	353	4.28	79.6	2.8	4.0	417	7.1	5.0	0.2	86	13.37	0.670
1491911	Soil	8	11.6	128.5	20.6	1073	2.4	179.0	15.3	354	3.40	64.9	1.6	4.7	75	14.6	5.6	0.6	651	1.32	0.218
1491912	Soil	8	55.9	113.4	33.9	1349	1.6	178.4	13.9	326	3.11	111.3	<0.5	5.9	38	20.5	11.5	0.2	738	1.41	0.145
1491913	Soil	9	59.6	94.8	41.8	1082	1.6	178.4	15.6	309	2.79	90.4	2.8	6.1	43	17.0	13.0	0.2	590	1.30	0.110
1491914	Soil	14	78.8	129.0	168.4	1360	2.6	165.6	16.0	238	3.95	224.7	2.0	7.4	66	18.0	23.8	0.6	554	0.57	0.195
1491915	Soil	9	44.9	87.7	75.1	1150	1.8	136.1	10.2	173	2.73	127.7	2.7	3.4	44	14.8	15.1	0.3	538	0.75	0.173
1491916	Soil	8	36.9	64.9	80.4	802	1.1	99.3	9.2	229	2.87	167.4	4.6	1.0	35	4.2	11.1	0.8	444	0.65	0.142
1491917	Soil	5	12.5	95.2	28.0	988	1.8	115.1	15.7	392	3.48	103.9	2.5	4.8	65	19.7	11.8	0.2	98	2.75	0.127
1491918	Soil	8	10.9	98.5	25.3	797	1.7	109.6	13.5	319	3.02	42.2	3.5	3.4	21	9.5	6.8	0.2	153	0.76	0.141
1491919	Soil	6	8.8	54.1	15.0	683	0.9	72.3	8.5	252	2.10	27.6	3.4	1.0	16	3.5	3.9	0.2	282	0.56	0.176
1491920	Soil	10	12.4	118.1	15.2	665	2.2	78.0	11.9	159	3.12	30.5	5.0	5.5	30	4.0	7.6	0.1	220	0.71	0.248
1491921	Soil	3	17.2	31.5	13.7	146	0.7	13.4	1.2	20	1.50	33.3	1.8	<0.1	7	0.3	5.6	0.1	154	0.04	0.080
1491922	Soil	6	31.4	500.7	26.8	1189	3.8	78.5	7.9	125	3.75	110.7	3.2	5.2	31	15.5	15.0	0.2	293	0.09	0.204
1491923	Soil	3	9.9	48.2	8.9	318	1.0	49.3	5.7	135	1.80	21.0	1.7	1.0	18	1.1	4.3	0.1	216	0.59	0.181
1491924	Soil	6	21.0	65.6	8.3	367	1.7	52.4	4.1	109	1.28	18.4	4.0	3.0	14	2.0	4.7	<0.1	249	0.52	0.072



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
1491881	Soil	12	21	0.22	95	0.008	<20	0.79	0.010	0.09	0.2	0.05	0.8	0.2	<0.05	3	0.6
1491882	Soil	3	2	0.03	41	0.011	<20	0.28	0.034	0.02	<0.1	0.02	0.3	<0.1	<0.05	<1	<0.5
1491883	Soil	11	66	4.98	278	0.125	<20	3.90	0.109	0.87	0.5	0.04	6.5	1.0	<0.05	11	2.3
1491884	Soil	9	67	4.19	183	0.103	<20	3.58	0.119	0.75	0.3	0.03	5.6	0.8	<0.05	10	1.1
1491885	Soil	7	33	3.59	421	0.068	<20	2.39	0.028	0.33	0.2	0.02	1.7	0.5	<0.05	6	1.9
1491886	Soil	10	49	3.43	173	0.089	<20	3.02	0.057	0.29	0.4	0.03	3.7	0.7	<0.05	8	1.2
1491901	Soil	51	30	0.41	84	0.004	<20	1.27	0.001	0.06	0.6	1.96	4.7	0.5	0.11	2	5.5
1491902	Soil	27	70	2.78	120	0.039	<20	2.10	0.002	0.73	0.1	0.08	5.5	1.1	0.26	7	7.6
1491903	Soil	26	63	2.75	115	0.043	<20	1.93	0.001	0.35	0.3	0.09	4.5	1.1	0.24	6	5.0
1491904	Soil	28	50	0.50	83	0.060	<20	1.62	0.001	0.10	0.2	0.06	3.4	0.6	0.37	4	21.4
1491905	Soil	7	101	1.75	141	0.035	<20	1.06	0.001	0.32	0.3	0.40	2.5	1.7	0.16	3	22.4
1491906	Soil	16	70	1.97	303	0.057	<20	1.76	0.004	0.41	0.3	0.46	4.7	2.4	0.12	5	16.0
1491907	Soil	6	45	0.86	162	0.065	<20	2.80	0.004	0.25	0.2	0.08	4.9	0.6	0.45	6	21.6
1491908	Soil	7	37	0.72	205	0.057	<20	3.20	0.003	0.24	0.2	0.06	3.7	0.6	0.52	5	21.3
1491909	Soil	6	15	0.82	162	0.036	<20	1.27	0.009	0.18	0.2	0.08	3.3	0.2	0.39	4	3.7
1491910	Soil	35	41	1.23	164	0.035	<20	1.47	0.003	0.13	0.3	0.11	4.1	0.5	0.11	4	1.9
1491911	Soil	33	99	3.85	114	0.040	<20	3.04	0.004	0.60	0.2	0.05	7.3	1.0	0.08	9	5.8
1491912	Soil	13	80	4.23	187	0.077	<20	2.88	0.003	0.73	0.2	0.10	5.4	1.6	0.18	9	8.2
1491913	Soil	11	69	3.57	197	0.089	<20	2.86	0.007	0.46	0.4	0.14	5.1	1.8	0.16	8	5.9
1491914	Soil	22	61	1.82	263	0.057	<20	1.82	0.006	0.49	0.4	0.21	4.8	1.5	0.27	6	14.9
1491915	Soil	17	61	1.83	172	0.048	<20	1.79	0.008	0.38	0.3	0.17	3.9	1.2	0.15	5	7.8
1491916	Soil	13	54	1.82	171	0.035	<20	1.98	0.008	0.27	0.2	0.07	2.1	1.1	0.14	6	7.2
1491917	Soil	11	29	1.66	205	0.081	<20	1.68	0.005	0.19	0.2	0.03	3.5	0.5	0.07	5	1.3
1491918	Soil	13	34	1.80	177	0.067	<20	1.87	0.007	0.20	0.2	0.04	3.2	0.5	0.08	5	1.5
1491919	Soil	12	43	1.94	121	0.046	<20	1.96	0.004	0.14	0.2	0.05	2.1	0.6	<0.05	6	1.1
1491920	Soil	20	40	2.79	167	0.050	<20	2.26	0.002	0.62	0.1	0.05	4.0	0.7	0.14	6	1.7
1491921	Soil	12	13	0.17	67	0.005	<20	0.50	0.003	0.07	0.1	0.03	0.3	0.3	0.06	3	3.1
1491922	Soil	9	31	1.48	137	0.024	<20	1.42	0.002	0.21	0.3	0.14	3.3	0.7	0.15	4	4.6
1491923	Soil	14	44	1.35	87	0.026	<20	1.51	0.003	0.10	0.2	0.05	2.1	0.4	<0.05	4	0.8
1491924	Soil	6	31	1.41	68	0.056	<20	1.28	0.002	0.09	0.2	0.05	2.1	0.3	<0.05	4	3.9



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		Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1491925	Soil	6	2.5	28.3	5.4	156	0.6	80.7	6.7	156	2.27	11.7	0.7	3.4	117	0.9	2.8	0.1	56	4.19	0.399
1491926	Soil	5	2.7	21.1	4.2	119	0.5	60.5	5.0	106	1.70	10.5	0.7	3.6	197	0.9	2.1	<0.1	42	8.06	0.362
1491927	Soil	2	2.6	20.8	3.6	164	0.5	72.9	5.6	105	1.86	12.2	<0.5	3.7	168	0.8	2.7	<0.1	61	7.63	0.734
1491928	Soil	3	4.2	30.9	6.1	274	0.8	85.9	7.8	121	2.31	21.6	0.7	3.5	130	3.0	2.5	0.1	73	5.45	1.128
1491929	Soil	2	5.1	35.3	6.6	273	0.7	100.8	9.5	133	2.67	24.5	<0.5	4.5	191	2.1	2.1	0.1	87	8.00	1.348
1491930	Soil	6	5.8	31.9	9.0	278	0.8	86.8	6.9	159	2.06	21.9	1.5	5.6	235	3.2	2.3	0.2	98	9.98	1.939
1491931	Soil	8	17.3	146.6	20.3	658	3.4	218.0	18.6	203	4.41	38.8	1.8	8.6	106	5.1	8.8	0.3	189	3.40	1.454
1491932	Soil	5	14.1	125.5	19.7	534	3.8	168.4	14.5	274	3.98	33.9	3.0	7.6	71	5.6	12.8	0.2	378	2.32	0.900
1491933	Soil	7	8.0	68.3	13.6	400	1.9	117.4	12.1	277	2.91	14.9	3.0	4.3	35	5.8	7.7	0.2	343	1.65	0.125
1491934	Soil	5	8.2	64.8	10.7	930	1.7	127.3	12.2	326	2.56	12.1	0.9	2.9	109	14.6	6.8	0.1	328	5.43	0.151
1491935	Soil	8	37.7	85.4	19.8	807	1.4	249.7	15.2	498	3.92	40.2	2.2	3.9	158	6.4	10.3	0.3	82	7.80	0.626
1491936	Soil	5	8.5	70.0	22.5	148	0.4	35.2	5.9	138	3.85	23.8	4.1	0.3	11	0.3	3.3	0.4	55	0.07	0.097
1491937	Soil	8	6.0	105.5	28.3	204	0.9	37.5	8.2	169	4.93	27.7	4.3	2.3	12	0.2	5.4	0.4	42	0.05	0.147
1491938	Soil	5	4.1	50.1	16.7	118	0.4	18.8	3.6	84	3.27	20.8	4.3	0.3	7	0.2	3.1	0.3	38	0.02	0.070
1491939	Soil	7	11.8	94.4	28.6	245	1.2	49.8	7.5	161	3.20	26.0	4.5	0.4	23	0.9	3.9	0.3	60	0.09	0.143
1491940	Soil	5	10.6	58.2	15.6	426	0.9	92.9	8.9	217	3.83	28.7	1.8	0.6	31	2.2	6.0	0.3	176	0.92	0.476
1491941	Soil	7	24.6	71.3	19.9	532	1.8	110.9	8.3	240	3.13	32.8	3.4	1.5	38	2.6	6.4	0.3	136	1.01	0.355
1491942	Soil	6	5.5	57.4	11.3	418	1.4	113.4	10.5	168	2.69	19.4	<0.5	4.4	107	3.3	3.3	0.1	148	4.06	1.363
1491943	Soil	4	9.4	105.4	15.6	592	2.3	156.0	13.6	181	3.47	24.3	1.2	5.0	71	3.7	6.3	0.2	232	2.63	1.157
1491944	Soil	2	7.9	83.5	13.8	996	2.5	207.4	15.1	227	2.89	16.5	1.2	4.5	70	8.0	4.5	0.2	850	1.58	0.362
1491945	Soil	4	17.7	88.0	17.3	642	1.8	189.0	16.6	847	4.37	23.0	1.3	5.5	57	11.2	7.0	0.3	527	3.15	0.392
1491946	Soil	4	7.0	38.5	14.0	327	1.4	102.0	8.7	153	2.58	25.6	<0.5	4.7	74	3.5	3.0	0.2	168	3.00	0.830
1491947	Soil	4	5.8	34.2	12.1	220	1.1	83.7	6.8	109	2.26	24.2	<0.5	3.0	106	1.8	2.8	0.1	119	5.86	0.755
1491948	Soil	6	3.0	23.5	5.7	198	0.6	68.5	5.7	139	1.70	13.4	<0.5	2.6	112	1.7	1.6	<0.1	102	5.05	1.378
1491949	Soil	3	2.8	27.5	6.2	200	0.7	83.2	7.6	109	2.15	13.1	<0.5	2.9	86	1.2	1.9	<0.1	88	4.10	0.798
1491950	Soil	4	5.5	48.3	8.6	258	0.9	90.5	7.6	111	2.44	22.3	1.1	4.5	121	1.9	4.2	0.1	75	6.53	0.416
1493501	Soil	3	9.2	23.5	6.7	443	0.6	56.8	8.5	253	1.85	18.1	<0.5	1.0	389	2.1	4.3	<0.1	12	31.09	0.054
1493502	Soil	7	61.1	263.1	57.3	1357	6.0	135.0	19.4	404	5.41	98.8	4.3	0.3	40	9.8	22.0	0.3	153	1.15	0.637
1493503	Soil	11	62.2	378.1	56.6	1859	5.5	179.7	26.1	437	6.54	117.0	4.5	1.3	42	9.3	28.5	0.3	196	1.28	0.878
1493504	Soil	<2	22.5	62.5	13.8	259	1.4	32.0	4.5	330	1.38	29.3	1.4	<0.1	12	0.9	6.1	<0.1	61	0.14	0.139



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
1491925	Soil	12	55	1.29	73	0.042	<20	1.60	0.004	0.14	0.2	0.03	2.8	0.4	0.09	4	0.7
1491926	Soil	10	46	1.07	67	0.033	<20	1.23	0.004	0.16	0.2	0.03	2.1	0.5	0.10	3	0.9
1491927	Soil	14	61	1.37	67	0.032	<20	1.54	0.003	0.20	0.3	0.04	2.9	0.5	0.10	4	<0.5
1491928	Soil	19	60	1.20	90	0.030	<20	1.48	0.007	0.22	0.4	0.06	3.0	0.5	0.11	4	1.3
1491929	Soil	19	68	1.43	92	0.038	<20	1.61	0.004	0.25	0.5	0.05	3.5	0.7	0.09	4	1.3
1491930	Soil	39	67	1.14	100	0.034	<20	1.43	0.005	0.25	0.7	0.05	3.7	0.6	<0.05	4	1.2
1491931	Soil	47	76	1.38	272	0.033	<20	1.82	0.006	0.52	0.3	0.20	4.1	1.1	0.12	5	4.4
1491932	Soil	42	65	1.80	213	0.035	<20	1.74	0.004	0.32	0.1	0.18	4.0	0.8	0.10	5	7.8
1491933	Soil	12	55	2.62	187	0.036	<20	1.72	0.003	0.37	<0.1	0.12	3.7	0.8	0.06	5	6.4
1491934	Soil	7	54	3.88	192	0.031	<20	1.59	0.003	0.33	<0.1	0.17	3.4	0.7	0.17	4	9.4
1491935	Soil	20	34	1.12	158	0.017	<20	0.77	0.005	0.21	0.1	0.14	4.2	0.9	0.12	2	4.8
1491936	Soil	8	24	0.25	108	0.008	<20	1.22	0.007	0.07	0.2	0.04	0.8	0.4	0.06	4	1.3
1491937	Soil	12	22	0.26	69	0.009	<20	1.00	0.003	0.07	0.1	0.04	2.0	0.3	<0.05	3	2.9
1491938	Soil	11	17	0.13	56	0.006	<20	0.64	0.004	0.04	<0.1	0.03	0.5	0.2	<0.05	3	1.7
1491939	Soil	13	19	0.18	95	0.005	<20	0.91	0.004	0.07	0.1	0.12	0.9	0.4	<0.05	3	3.5
1491940	Soil	19	45	0.96	189	0.014	<20	1.62	0.005	0.21	0.2	0.11	1.3	0.7	<0.05	4	2.7
1491941	Soil	18	34	0.49	236	0.010	<20	1.34	0.005	0.15	0.2	0.21	2.3	0.7	0.06	3	3.5
1491942	Soil	33	71	1.30	144	0.032	<20	1.72	0.004	0.26	0.4	0.10	3.4	0.8	<0.05	4	1.0
1491943	Soil	36	64	1.27	228	0.030	<20	1.77	0.005	0.34	0.2	0.16	3.3	0.9	<0.05	4	2.7
1491944	Soil	4	157	3.41	358	0.077	<20	4.56	0.010	0.56	0.2	0.13	6.8	1.1	<0.05	12	5.4
1491945	Soil	10	81	3.18	126	0.067	<20	2.43	0.003	0.86	0.4	0.13	4.6	1.6	<0.05	8	5.7
1491946	Soil	17	76	1.17	91	0.047	<20	1.61	0.003	0.22	0.7	0.09	2.9	0.9	<0.05	4	1.3
1491947	Soil	15	64	1.07	65	0.031	<20	1.41	0.005	0.18	0.5	0.08	2.3	0.6	0.07	4	1.2
1491948	Soil	14	85	1.57	95	0.036	<20	1.94	0.007	0.19	0.5	0.07	2.8	0.6	<0.05	5	1.1
1491949	Soil	16	78	1.36	69	0.029	<20	1.74	0.002	0.18	0.3	0.07	2.9	0.5	<0.05	4	0.9
1491950	Soil	27	56	0.98	62	0.024	<20	1.21	0.002	0.15	0.2	0.06	3.0	0.5	<0.05	3	0.7
1493501	Soil	5	4	0.79	106	0.005	<20	0.25	0.001	0.04	<0.1	0.08	1.0	0.2	0.10	<1	1.4
1493502	Soil	14	20	0.22	177	0.008	<20	0.73	0.003	0.23	0.1	0.18	0.7	0.8	0.20	2	13.1
1493503	Soil	17	28	0.41	207	0.018	<20	1.10	0.002	0.29	0.1	0.12	1.7	1.1	0.07	3	18.8
1493504	Soil	4	8	0.06	53	0.002	<20	0.40	0.016	0.05	<0.1	0.05	<0.1	0.4	<0.05	1	3.6



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	Method Analyte Unit MDL	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
1493505	Soil	18	86.2	483.1	65.1	2871	11.1	178.0	21.8	474	5.33	190.3	8.6	3.3	38	32.9	33.2	0.3	579	1.68
1493506	Soil	22	141.4	695.3	71.5	3691	13.5	227.6	43.9	767	5.90	706.7	10.7	1.6	52	29.5	40.1	0.4	517	2.77
1493507	Soil	22	97.6	570.5	51.7	3284	10.1	233.2	21.4	485	5.25	480.7	9.7	2.3	60	40.3	28.7	0.4	407	1.97
1493508	Soil	11	77.0	305.3	45.3	2176	5.2	199.0	12.2	169	4.59	175.3	6.4	0.6	40	6.3	24.8	0.3	380	1.40
1493509	Soil	<2	30.6	110.3	22.5	306	1.0	46.1	8.9	1512	3.95	34.7	1.7	<0.1	24	1.0	8.6	0.2	95	0.13
1493510	Soil	<2	19.7	46.8	15.1	463	0.9	48.4	9.0	246	2.95	36.4	1.9	0.1	11	2.7	8.5	0.1	43	0.21
1493511	Soil	8	16.3	92.0	17.9	403	1.7	60.5	11.8	140	3.35	51.0	5.6	0.2	17	2.3	11.0	0.3	73	0.27
1493512	Soil	<2	8.0	46.3	11.6	266	0.9	30.2	5.8	257	2.02	21.3	1.0	<0.1	13	3.3	4.8	0.2	73	0.12
1493513	Soil	2	3.7	30.1	7.1	96	0.7	12.5	2.7	265	1.00	19.9	2.4	<0.1	7	1.3	2.0	<0.1	35	0.06
1493514	Soil	<2	5.0	26.1	9.7	116	0.9	16.5	3.9	111	1.32	14.5	2.2	<0.1	7	0.7	3.0	0.1	55	0.06
1493515	Soil	8	5.5	61.7	18.5	432	0.7	37.6	9.8	308	2.77	433.2	6.7	0.5	13	2.7	3.2	0.4	72	0.33
1493516	Soil	4	4.0	25.3	15.2	307	0.7	34.6	13.1	551	3.06	23.1	2.0	2.8	15	5.5	2.9	0.1	142	0.35
1493517	Soil	4	3.4	117.3	11.8	661	1.1	53.4	14.2	304	2.36	20.0	3.2	1.3	33	8.8	1.6	0.2	214	1.05
1493518	Soil	3	4.9	105.1	9.7	506	1.4	39.5	8.9	114	2.60	15.5	1.9	1.1	23	4.1	1.4	0.1	214	0.59
1493519	Soil	4	2.6	39.8	12.9	208	0.4	45.1	14.2	253	2.46	56.1	2.0	3.8	52	2.2	1.3	0.2	170	0.99
1493520	Soil	2	0.5	8.3	8.5	50	0.2	8.9	3.8	185	1.14	46.5	0.6	0.9	141	0.5	0.4	0.2	18	1.99
1493521	Soil	2	1.4	24.5	12.4	91	0.2	16.0	11.8	657	1.35	34.8	1.0	0.8	27	0.8	0.4	0.3	45	0.52
1493522	Soil	3	0.6	24.6	37.6	142	0.4	12.1	4.8	401	1.08	383.3	1.2	0.2	68	2.7	0.6	0.3	18	1.97
1493523	Soil	4	1.6	28.4	18.9	107	0.3	31.3	9.6	542	2.11	40.8	<0.5	0.8	126	0.7	0.9	0.2	14	3.49
1493524	Soil	3	4.3	23.0	18.3	107	0.2	17.9	3.5	84	2.63	143.6	8.1	3.3	5	0.5	1.9	0.9	102	0.03
1493525	Soil	4	1.6	29.8	16.0	62	0.1	30.8	7.3	166	2.94	42.5	<0.5	3.7	7	0.4	1.0	0.3	41	0.16
1493526	Soil	2	1.6	9.8	7.8	46	<0.1	7.0	3.2	68	1.83	13.0	<0.5	1.4	5	0.6	0.7	0.3	89	0.09
1493527	Soil	4	2.1	40.8	20.4	553	0.4	63.3	14.4	452	1.98	169.8	1.6	1.7	35	5.2	2.1	0.5	396	1.09
1493528	Soil	<2	0.3	1.4	1.0	11	<0.1	1.1	0.5	9	0.18	7.1	<0.5	<0.1	5	0.3	0.1	<0.1	15	0.08
1493529	Soil	44	10.4	63.3	135.9	27	2.1	4.5	1.0	30	3.40	527.0	7.8	14.0	77	0.3	7.9	0.8	30	0.03
1493530	Soil	15	3.6	106.5	23.9	84	0.6	27.0	7.4	150	3.79	89.4	<0.5	3.4	20	0.2	2.9	0.6	60	0.04
1493531	Soil	136	12.3	174.3	83.2	127	2.7	17.2	3.9	88	12.37	790.9	1931	12.6	29	0.3	19.3	1.0	72	0.01
1493532	Soil	83	12.0	155.4	79.9	186	1.8	27.0	7.4	237	12.90	730.0	37.8	12.4	27	0.3	20.7	0.9	73	0.01
1493533	Soil	16	7.8	184.7	43.7	214	1.1	41.6	10.3	272	8.30	193.8	11.0	6.1	23	0.2	6.6	0.5	68	0.04
1493534	Soil	12	7.0	172.1	41.4	227	0.5	47.3	11.2	250	8.03	146.4	6.9	6.1	19	0.3	6.2	0.5	74	0.02



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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
1493505	Soil	14	50	0.85	309	0.031	<20	1.21	0.002	0.36	0.3	0.19	3.5	1.0	<0.05	4	14.5
1493506	Soil	18	51	0.66	257	0.020	<20	1.28	0.005	0.35	0.8	0.35	2.5	0.7	<0.05	3	28.0
1493507	Soil	17	43	0.62	307	0.023	<20	1.25	0.004	0.41	19.0	0.36	2.8	1.0	0.07	3	25.8
1493508	Soil	16	44	0.62	254	0.015	<20	1.28	0.004	0.36	0.5	0.21	1.3	0.7	0.06	3	15.5
1493509	Soil	5	8	0.04	198	0.002	<20	0.75	0.010	0.10	<0.1	0.03	0.1	0.5	0.20	3	5.2
1493510	Soil	9	8	0.26	88	0.005	<20	0.75	0.012	0.08	<0.1	0.05	0.3	0.3	<0.05	3	2.1
1493511	Soil	9	16	0.50	152	0.004	<20	0.97	0.009	0.17	<0.1	0.06	0.3	0.3	0.07	3	4.1
1493512	Soil	6	14	0.19	129	0.002	<20	0.70	0.009	0.10	0.3	0.04	0.2	0.2	0.11	3	2.7
1493513	Soil	4	8	0.18	67	0.001	<20	0.74	0.013	0.04	<0.1	0.04	0.1	0.2	0.08	3	1.2
1493514	Soil	5	14	0.18	83	<0.001	<20	0.57	0.010	0.07	<0.1	0.03	0.1	0.1	0.06	2	1.6
1493515	Soil	11	32	2.55	160	0.026	<20	2.57	0.007	0.24	<0.1	0.03	1.3	0.5	<0.05	7	1.6
1493516	Soil	10	41	4.13	234	0.122	<20	4.19	0.005	0.42	0.3	0.04	4.6	0.5	<0.05	11	1.2
1493517	Soil	8	48	2.12	251	0.055	<20	2.85	0.011	0.15	0.2	0.07	2.8	0.2	0.08	8	1.8
1493518	Soil	5	52	1.94	233	0.076	<20	2.73	0.008	0.23	0.1	0.05	3.1	0.2	0.06	9	4.2
1493519	Soil	11	42	2.23	182	0.092	<20	3.42	0.065	0.25	2.9	0.03	3.5	0.3	<0.05	9	1.0
1493520	Soil	8	6	0.36	68	0.029	<20	1.84	0.021	0.04	0.1	0.03	1.1	<0.1	<0.05	4	<0.5
1493521	Soil	9	17	0.48	213	0.048	<20	1.15	0.013	0.05	0.3	0.03	1.5	0.2	<0.05	5	0.5
1493522	Soil	7	7	0.24	122	0.016	<20	1.25	0.018	0.04	0.1	0.06	0.8	0.1	0.11	3	0.6
1493523	Soil	7	7	0.54	149	0.017	<20	1.72	0.017	0.09	0.2	0.04	0.8	0.2	0.07	4	1.5
1493524	Soil	11	18	0.25	98	0.042	<20	1.14	0.004	0.07	4.7	0.03	1.7	0.1	<0.05	7	1.1
1493525	Soil	8	18	0.25	96	0.051	<20	2.76	0.004	0.04	0.5	0.02	1.8	<0.1	<0.05	7	1.4
1493526	Soil	4	14	0.11	50	0.143	<20	0.56	0.006	0.02	0.4	0.01	0.7	<0.1	<0.05	6	<0.5
1493527	Soil	8	44	2.30	174	0.061	<20	2.56	0.023	0.15	0.4	0.03	2.7	0.4	<0.05	7	0.9
1493528	Soil	<1	2	0.02	18	0.011	<20	0.07	0.015	0.02	<0.1	<0.01	0.3	<0.1	<0.05	<1	<0.5
1493529	Soil	22	13	0.05	312	0.011	<20	0.32	0.004	0.29	2.2	0.03	5.0	1.4	0.67	3	11.0
1493530	Soil	17	33	0.35	130	0.038	<20	1.79	0.003	0.10	0.3	0.04	2.4	0.4	<0.05	6	2.8
1493531	Soil	9	45	0.14	103	0.017	<20	0.92	0.002	0.09	0.2	0.06	4.0	1.1	0.15	6	13.8
1493532	Soil	10	49	0.19	92	0.017	<20	1.05	0.002	0.08	0.2	0.08	4.3	1.2	0.14	5	14.3
1493533	Soil	13	42	0.48	112	0.026	<20	1.57	0.003	0.10	0.2	0.05	3.7	0.5	0.07	5	6.9
1493534	Soil	12	33	0.33	83	0.029	<20	1.36	0.002	0.09	0.3	0.03	2.9	0.4	0.06	5	5.9



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	Method Analyte Unit MDL	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1493535	Soil	15	7.6	205.1	41.6	260	1.1	77.6	18.4	401	8.93	111.7	7.3	4.5	20	0.3	6.5	0.5	79	0.02	0.182
1493536	Soil	18	5.7	215.7	34.5	162	1.0	52.1	11.3	258	4.92	89.1	7.8	5.3	19	0.3	3.7	0.5	58	0.03	0.093
1493537	Soil	9	5.7	190.3	34.0	131	0.8	36.7	7.5	180	4.39	61.4	3.9	2.2	15	0.3	3.1	0.4	54	0.03	0.078
1493538	Soil	14	9.0	266.4	67.0	404	1.3	94.4	20.2	421	8.19	98.4	8.4	5.2	24	0.6	5.2	0.5	76	0.03	0.146
1493539	Soil	10	9.7	185.8	42.1	276	0.8	75.8	20.1	293	4.68	64.7	3.9	4.8	14	0.5	5.2	0.3	78	0.04	0.095
1493540	Soil	8	24.6	176.3	82.7	376	4.4	75.5	20.8	421	4.32	72.0	3.6	4.4	94	1.4	13.3	0.3	97	0.24	0.274
1493541	Soil	<2	9.9	40.8	16.2	292	1.6	92.9	7.5	212	1.78	19.2	<0.5	0.5	165	3.5	7.7	0.1	64	11.62	0.566
1493542	Soil	8	3.8	40.9	13.2	75	1.4	82.3	7.1	106	2.05	18.7	<0.5	1.5	89	0.5	4.5	0.1	27	5.69	0.514
1493543	Soil	<2	3.0	34.5	14.0	93	1.1	76.8	7.5	140	1.90	18.3	0.9	1.5	49	0.6	3.8	0.1	39	2.36	0.494
1493544	Soil	<2	13.8	25.6	8.3	120	1.4	13.6	1.3	14	0.71	20.0	<0.5	<0.1	3	0.5	3.4	0.2	53	0.10	0.042
1493545	Soil	<2	4.5	70.9	10.4	159	1.0	43.8	6.8	161	1.55	25.1	0.5	0.9	36	2.0	2.6	0.1	45	1.29	0.091
1493546	Soil	<2	2.3	17.7	7.6	70	1.4	21.4	2.1	35	0.87	14.7	<0.5	<0.1	12	0.2	0.9	<0.1	29	0.19	0.041
1493547	Soil	<2	2.6	44.7	9.5	155	0.9	34.5	8.2	267	1.17	71.3	<0.5	0.3	30	2.5	1.6	0.2	32	1.06	0.092
1493548	Soil	4	11.0	121.9	53.3	388	1.6	73.4	16.1	162	2.15	119.8	1.7	1.2	28	2.9	5.3	0.2	56	0.44	0.154
1493549	Soil	<2	8.2	62.4	21.9	478	1.2	105.1	10.5	167	2.87	30.5	<0.5	3.0	72	3.8	6.2	0.2	79	2.87	0.658
1493550	Soil	<2	1.2	6.4	5.4	20	0.2	4.1	0.6	9	0.22	1.8	<0.5	<0.1	11	0.7	0.6	<0.1	11	0.28	0.021
1493551	Soil	<2	10.6	52.4	12.6	179	0.3	39.1	5.9	450	1.99	17.0	<0.5	0.1	7	0.7	2.8	0.2	141	0.12	0.184
1493552	Soil	2	6.5	157.3	18.8	21	0.5	7.0	1.5	19	2.22	50.3	1.8	2.7	6	0.2	4.3	0.3	52	0.01	0.032
1493553	Soil	3	4.9	149.1	17.2	30	0.6	12.4	4.1	56	2.21	52.2	4.4	4.9	9	0.1	3.1	0.3	42	0.04	0.035
1493554	Soil	4	5.7	154.5	21.4	28	0.4	10.2	3.8	33	2.53	57.2	3.8	5.6	11	0.1	3.5	0.3	41	0.01	0.035
1493555	Soil	5	5.2	152.3	24.7	38	1.0	10.8	2.8	31	2.99	36.1	8.0	5.2	11	0.2	2.4	0.3	44	0.01	0.044
1493556	Soil	6	4.3	110.2	20.0	39	1.1	11.0	3.3	56	2.13	15.2	3.4	3.2	11	<0.1	1.5	0.2	36	0.04	0.051
1493557	Soil	10	6.8	242.1	34.5	105	1.4	32.8	5.3	52	4.02	24.9	5.8	5.3	12	0.3	2.3	0.5	65	0.01	0.056
1493558	Soil	9	9.2	387.3	53.9	277	2.7	59.1	11.5	115	11.99	42.8	7.1	6.3	20	0.3	7.2	0.5	86	0.02	0.207
1493559	Soil	49	95.1	144.4	736.9	170	5.2	26.4	5.9	112	7.83	122.7	25.6	10.2	32	0.1	71.1	0.7	75	0.01	0.176
1493560	Soil	6	18.9	105.7	55.3	153	1.5	34.6	7.5	183	5.93	113.7	5.7	5.1	35	0.2	15.5	0.4	76	0.06	0.312
1493561	Soil	7	7.8	147.8	31.1	348	1.1	51.1	9.3	191	7.09	50.1	4.8	3.6	19	0.3	6.1	0.4	76	0.04	0.189
1493562	Soil	7	14.6	136.4	69.7	200	1.0	42.8	9.1	149	4.91	72.0	4.6	8.9	28	0.3	7.6	0.9	58	0.03	0.133
1493563	Soil	8	5.3	110.7	20.4	152	1.4	29.6	6.5	153	3.76	32.6	5.2	2.6	15	0.2	3.3	0.3	49	0.06	0.126
1493564	Soil	7	18.0	251.0	46.9	721	2.9	156.3	35.0	510	5.90	85.1	5.1	1.6	58	5.2	8.2	0.4	103	0.52	0.504



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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
1493535	Soil	11	36	0.49	99	0.030	<20	1.72	0.003	0.10	0.3	0.05	3.3	0.4	0.08	6	5.9
1493536	Soil	15	36	0.45	150	0.025	<20	1.69	0.004	0.12	0.3	0.09	3.1	0.5	<0.05	5	5.0
1493537	Soil	12	28	0.31	203	0.020	<20	1.66	0.003	0.09	0.3	0.08	1.9	0.3	<0.05	5	3.3
1493538	Soil	15	45	0.62	182	0.044	<20	2.23	0.004	0.16	0.3	0.08	4.3	0.7	0.08	6	5.5
1493539	Soil	12	34	0.56	189	0.052	<20	1.77	0.004	0.18	0.3	0.06	3.4	0.4	<0.05	5	4.0
1493540	Soil	15	29	0.32	194	0.030	<20	1.26	0.008	0.13	0.2	0.34	3.1	0.6	0.06	3	10.9
1493541	Soil	34	22	0.23	123	0.005	<20	0.44	0.002	0.15	<0.1	0.24	0.7	0.4	0.09	1	2.8
1493542	Soil	30	26	0.49	92	0.007	<20	0.67	0.005	0.15	<0.1	0.22	1.7	0.4	0.12	1	2.5
1493543	Soil	28	27	0.37	184	0.009	<20	0.96	0.008	0.12	<0.1	0.17	2.0	0.4	<0.05	2	0.5
1493544	Soil	7	5	0.07	36	0.002	<20	0.20	0.002	0.04	<0.1	0.03	0.1	0.2	<0.05	2	1.3
1493545	Soil	8	17	0.27	237	0.012	<20	1.14	0.014	0.08	0.2	0.09	1.0	0.2	0.09	3	1.7
1493546	Soil	5	12	0.13	133	0.008	<20	0.82	0.018	0.10	<0.1	0.03	0.4	0.1	<0.05	3	<0.5
1493547	Soil	6	11	0.16	162	0.009	<20	0.90	0.016	0.06	<0.1	0.04	0.5	0.2	0.09	2	2.3
1493548	Soil	11	16	0.14	135	0.010	<20	0.89	0.013	0.07	0.1	0.14	1.4	0.4	<0.05	2	5.2
1493549	Soil	24	45	0.81	182	0.019	<20	1.15	0.005	0.21	0.1	0.14	2.7	0.4	<0.05	3	1.2
1493550	Soil	1	2	0.02	25	0.008	<20	0.16	0.024	0.03	<0.1	0.03	0.2	<0.1	<0.05	<1	0.7
1493551	Soil	7	28	0.57	112	0.003	<20	1.05	0.003	0.12	<0.1	0.03	0.3	0.5	<0.05	4	1.2
1493552	Soil	13	23	0.03	39	0.008	<20	0.42	0.003	0.05	0.1	0.05	1.5	0.2	<0.05	2	5.5
1493553	Soil	16	21	0.11	70	0.014	<20	0.63	0.004	0.06	0.1	0.02	1.9	0.3	<0.05	2	4.2
1493554	Soil	16	24	0.05	44	0.010	<20	0.48	0.001	0.05	0.2	0.02	2.2	0.3	<0.05	2	4.2
1493555	Soil	13	23	0.05	53	0.010	<20	0.61	0.003	0.06	0.1	0.04	2.0	0.4	<0.05	3	3.6
1493556	Soil	9	17	0.08	51	0.015	<20	0.64	0.010	0.05	0.1	0.03	1.9	0.4	<0.05	3	2.6
1493557	Soil	12	23	0.10	62	0.012	<20	0.85	0.002	0.05	0.2	0.03	3.4	0.6	<0.05	3	6.2
1493558	Soil	11	41	0.16	77	0.025	<20	1.13	0.005	0.07	0.2	0.08	4.5	0.7	0.08	4	10.2
1493559	Soil	15	14	0.08	371	0.022	<20	0.49	0.002	0.18	0.3	0.40	1.4	0.9	0.40	2	39.5
1493560	Soil	15	23	0.21	167	0.030	<20	1.09	0.010	0.11	0.2	0.03	2.6	0.7	0.11	4	8.8
1493561	Soil	10	30	0.42	94	0.057	<20	1.44	0.008	0.10	0.2	0.04	4.1	0.6	0.06	5	6.0
1493562	Soil	13	25	0.36	169	0.046	<20	1.52	0.008	0.15	0.3	0.05	3.3	0.6	0.06	4	9.2
1493563	Soil	9	19	0.25	81	0.033	<20	1.05	0.017	0.09	0.2	0.05	2.8	0.5	<0.05	3	4.0
1493564	Soil	18	29	0.29	156	0.016	<20	1.81	0.005	0.11	0.2	0.16	2.8	0.8	0.07	4	7.1



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	Method Analyte Unit MDL	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
1493565	Soil	8	15.7	200.7	71.9	264	1.3	54.9	8.6	111	4.11	62.8	3.5	2.0	31	2.1	9.2	0.4	77	0.27
1493566	Soil	8	46.8	219.0	158.7	945	3.1	171.2	27.1	373	4.25	47.7	<0.5	5.5	59	14.6	25.1	0.3	111	1.75
1493567	Soil	7	59.4	279.4	32.3	1618	7.6	211.7	25.0	464	5.25	113.6	6.6	4.5	25	19.7	18.6	0.2	172	0.96
1493568	Soil	7	13.3	123.6	32.7	432	2.1	82.6	13.9	225	4.82	64.2	6.3	2.4	27	3.3	8.5	0.4	58	0.72
1493569	Soil	7	11.3	133.5	23.1	931	3.4	139.2	34.8	1013	5.36	105.0	6.7	1.5	37	5.2	6.7	0.2	53	1.59
1493570	Soil	23	8.4	136.5	25.2	478	2.9	84.3	18.5	462	4.44	458.1	18.6	1.1	39	4.7	6.2	0.2	47	1.81
1493571	Soil	5	11.8	156.7	15.1	390	2.7	84.1	11.7	211	2.77	29.5	3.7	2.2	28	4.2	6.8	0.2	113	1.33
1493572	Soil	<2	18.3	309.9	54.9	670	5.6	114.7	20.7	301	5.32	551.8	6.9	6.4	50	5.2	10.3	0.4	122	1.33
1493573	Soil	3	7.8	145.2	20.0	334	1.8	69.7	11.3	217	3.11	193.4	4.2	1.3	29	1.0	4.6	0.2	96	1.04
1493574	Soil	2	7.9	82.7	12.9	144	0.7	33.6	5.1	74	2.16	21.4	1.1	0.2	15	1.2	3.3	0.3	66	0.23
1493575	Soil	5	10.8	99.2	12.6	482	1.8	64.8	8.8	159	2.53	35.2	4.5	1.0	24	4.3	5.4	0.1	78	0.86
1493576	Soil	6	13.1	175.3	19.8	403	2.0	85.8	11.8	218	3.37	34.7	1.8	1.2	33	2.7	6.2	0.3	81	1.17
1493577	Soil	6	9.6	102.0	70.8	878	1.2	101.9	19.8	417	3.94	956.4	4.3	5.1	18	5.5	5.0	2.8	103	0.35
1493578	Soil	<2	10.0	126.3	39.6	639	2.5	91.2	16.2	346	3.17	590.2	6.7	5.0	22	4.6	5.7	1.3	99	0.65
1493579	Soil	15	24.3	215.0	27.6	1873	3.0	162.5	20.8	267	4.37	177.9	3.0	4.6	61	13.4	12.0	0.3	101	3.19
1493580	Soil	<2	24.9	214.3	29.1	1271	3.0	132.7	20.7	295	4.44	108.4	4.9	4.0	37	12.7	13.3	0.2	99	1.47
1493581	Soil	<2	15.3	133.3	34.9	1081	4.1	123.1	21.2	497	5.04	100.2	3.8	4.0	34	7.9	11.2	0.3	105	1.06
1493582	Soil	<2	25.9	122.3	26.7	863	1.7	98.0	15.7	206	4.25	148.5	4.2	2.8	21	2.8	12.5	0.3	115	0.62
1493601	Soil	<2	3.3	12.0	10.1	44	0.4	8.2	1.5	14	0.49	2.8	<0.5	0.2	17	1.2	1.2	<0.1	14	0.19
1493651	Soil	<2	6.1	42.2	7.7	234	0.8	95.5	8.4	133	2.49	23.2	1.0	3.9	227	1.9	3.6	0.1	90	11.51
1493652	Soil	<2	10.2	64.7	8.3	347	1.6	59.5	5.7	140	1.56	20.5	1.9	2.9	31	2.9	3.9	<0.1	224	1.54
1493653	Soil	<2	5.2	40.1	9.1	256	0.8	75.6	7.1	129	2.45	20.3	2.1	1.1	39	1.4	3.4	0.2	140	1.34
1493654	Soil	<2	8.5	41.0	10.0	289	0.7	66.9	6.6	113	2.50	23.1	1.4	1.5	29	1.2	4.6	0.2	151	0.99
1493655	Soil	<2	2.1	29.3	7.4	228	0.6	65.7	7.2	115	2.09	12.6	<0.5	1.2	43	1.6	1.2	0.1	107	1.51
1493656	Soil	<2	4.1	42.2	8.7	199	0.8	87.4	7.9	178	2.31	16.2	0.6	3.5	117	1.5	3.1	0.1	97	5.37
1493657	Soil	<2	4.7	42.8	7.6	192	0.9	80.0	7.4	152	2.16	16.5	1.5	3.8	171	1.4	3.2	0.1	107	8.13
1493658	Soil	<2	4.4	39.1	8.7	217	0.7	98.4	8.8	208	2.52	16.9	<0.5	4.3	114	2.0	2.5	0.1	110	4.50
1493659	Soil	<2	2.2	32.3	6.4	238	0.8	81.9	6.6	155	2.01	15.1	<0.5	3.1	103	2.3	1.2	0.1	122	4.66
1493660	Soil	<2	2.0	31.3	6.9	273	0.8	87.3	6.9	158	1.90	15.3	1.0	2.5	78	2.3	1.5	0.1	135	3.41
1493661	Soil	4	6.1	174.9	30.3	48	0.7	12.8	5.4	34	3.43	50.2	7.2	6.2	8	0.3	4.2	0.4	50	0.01



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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
1493565	Soil	16	24	0.12	134	0.008	<20	0.82	0.002	0.09	0.2	0.07	2.2	0.6	0.07	3	9.0
1493566	Soil	15	16	0.70	185	0.011	<20	0.59	0.003	0.15	0.1	0.30	2.4	0.6	0.18	1	19.7
1493567	Soil	11	19	1.04	242	0.014	<20	1.01	0.002	0.16	0.2	0.49	3.6	0.6	<0.05	2	13.9
1493568	Soil	17	24	0.57	212	0.019	<20	1.31	0.003	0.11	0.2	0.15	3.2	0.4	<0.05	4	4.4
1493569	Soil	14	17	0.67	209	0.014	<20	1.00	0.006	0.13	0.1	0.22	2.7	0.3	0.08	2	4.4
1493570	Soil	13	16	0.92	166	0.015	<20	0.98	0.010	0.13	0.1	0.15	2.6	0.3	0.16	2	4.4
1493571	Soil	9	30	1.56	254	0.028	<20	1.47	0.009	0.38	<0.1	0.11	3.0	0.4	0.07	4	2.9
1493572	Soil	12	145	2.27	270	0.126	<20	2.25	0.043	0.52	1.0	0.23	9.0	0.5	0.08	7	5.3
1493573	Soil	12	37	1.21	350	0.026	<20	1.60	0.007	0.25	0.1	0.14	2.4	0.4	0.09	4	2.7
1493574	Soil	10	16	0.29	173	0.004	<20	0.88	0.007	0.12	0.2	0.05	0.5	0.3	0.07	3	2.1
1493575	Soil	8	20	0.68	149	0.021	<20	1.02	0.013	0.17	0.2	0.12	1.9	0.3	0.05	3	2.6
1493576	Soil	14	23	0.71	259	0.019	<20	1.36	0.008	0.19	<0.1	0.16	2.1	0.3	0.08	4	2.2
1493577	Soil	21	33	0.87	305	0.047	<20	1.73	0.006	0.16	1.9	0.04	3.1	0.4	<0.05	5	2.0
1493578	Soil	20	32	1.32	288	0.040	<20	1.71	0.008	0.27	0.3	0.10	3.8	0.4	<0.05	5	1.8
1493579	Soil	12	21	1.18	157	0.025	<20	1.06	0.003	0.27	0.1	0.12	2.3	0.4	0.19	3	8.1
1493580	Soil	12	21	0.95	176	0.023	<20	1.01	0.004	0.23	0.1	0.17	2.3	0.4	0.15	3	8.9
1493581	Soil	18	26	1.36	161	0.027	<20	1.54	0.002	0.23	<0.1	0.16	3.2	0.4	0.16	4	7.9
1493582	Soil	14	20	0.71	163	0.025	<20	1.10	0.003	0.22	0.1	0.07	1.9	0.4	0.07	4	7.2
1493601	Soil	3	3	0.02	67	0.011	<20	0.43	0.018	0.03	<0.1	0.02	0.4	<0.1	0.14	2	2.8
1493651	Soil	16	64	1.24	85	0.034	<20	1.47	0.003	0.21	0.3	0.05	3.0	0.6	0.12	4	1.5
1493652	Soil	13	37	1.22	73	0.033	<20	1.22	0.003	0.10	0.1	0.06	2.5	0.5	<0.05	4	1.5
1493653	Soil	18	58	1.21	109	0.030	<20	1.73	0.004	0.14	0.2	0.05	2.2	0.5	<0.05	4	1.6
1493654	Soil	16	50	1.10	89	0.034	<20	1.49	0.003	0.13	0.2	0.04	2.0	0.4	<0.05	4	2.4
1493655	Soil	14	71	1.09	101	0.028	<20	1.92	0.010	0.08	0.2	0.05	2.3	0.4	0.06	5	1.1
1493656	Soil	28	61	1.10	77	0.030	<20	1.46	0.005	0.11	0.2	0.05	3.0	0.5	<0.05	4	1.0
1493657	Soil	24	64	1.19	75	0.032	<20	1.42	0.003	0.12	0.2	0.05	3.4	0.5	0.07	4	1.2
1493658	Soil	23	72	1.30	91	0.039	<20	1.81	0.005	0.13	0.3	0.05	3.3	0.6	<0.05	5	1.0
1493659	Soil	19	92	1.55	95	0.041	<20	2.08	0.006	0.13	0.5	0.06	3.3	0.7	<0.05	6	0.8
1493660	Soil	16	83	1.40	97	0.035	<20	2.19	0.012	0.12	0.4	0.07	3.0	0.6	<0.05	6	1.2
1493661	Soil	13	21	0.02	67	0.005	<20	0.56	<0.001	0.06	<0.1	<0.01	2.8	0.4	<0.05	3	6.6



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	Method Analyte Unit MDL	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
1493662	Soil	17	17.5	212.9	98.8	132	2.6	15.6	3.3	57	7.73	179.3	5.7	12.7	118	0.6	25.4	0.9	173	0.03
1493663	Soil	8	13.4	315.5	58.0	164	2.3	30.6	6.7	45	6.78	108.9	3.8	9.1	25	0.5	13.6	0.6	117	<0.01
1493664	Soil	9	71.2	103.9	415.9	84	3.1	9.4	1.8	29	3.83	73.3	<0.5	4.5	13	0.2	36.8	0.4	114	<0.01
1493665	Soil	6	65.7	19.6	84.7	15	1.9	3.5	0.8	39	1.10	22.9	0.6	0.6	10	<0.1	10.7	<0.1	102	0.08
1493666	Soil	<2	14.1	89.2	35.1	1057	2.6	194.0	22.9	301	5.79	80.8	<0.5	5.1	169	8.8	15.1	0.2	59	6.78
1493667	Soil	<2	9.5	77.7	22.9	904	2.4	150.5	17.8	310	4.11	36.3	<0.5	1.7	76	11.3	10.2	0.2	47	2.40
1493668	Soil	21	33.8	482.6	54.5	2810	9.6	414.4	90.2	843	13.03	298.6	11.7	12.9	42	26.1	32.1	0.9	61	1.31
1493669	Soil	<2	5.9	97.8	22.8	390	2.5	60.3	13.6	251	3.86	23.8	2.5	1.8	29	3.6	5.0	0.2	66	0.82
1493670	Soil	14	3.8	41.4	30.7	214	1.2	45.0	14.0	531	4.36	19.9	4.8	3.5	127	2.6	4.4	0.2	30	5.63
1493671	Soil	23	2.5	74.7	25.1	155	1.1	51.2	17.4	451	4.40	18.5	7.3	2.8	166	1.3	4.8	0.2	17	8.81
1493672	Soil	13	2.0	70.5	23.5	134	1.2	40.4	14.7	435	3.70	24.5	9.0	1.1	192	1.3	3.9	0.2	15	10.58
1493673	Soil	15	2.0	75.3	22.2	149	1.3	38.8	14.0	428	3.52	83.9	9.4	1.5	205	1.5	4.2	0.1	18	11.04
1493674	Soil	13	20.7	152.8	30.6	728	4.8	99.5	20.5	576	4.40	350.3	7.5	1.3	27	8.0	9.6	0.4	61	1.31
1493675	Soil	10	40.4	166.0	26.2	1451	5.3	123.7	11.9	209	2.87	95.6	<0.5	3.9	8	11.1	13.6	0.4	199	0.41
1493676	Soil	5	11.8	104.5	26.9	676	2.1	93.1	14.0	265	3.57	142.2	1.2	2.5	24	4.2	4.9	0.5	96	0.51
1493677	Soil	5	20.3	82.7	25.5	947	3.0	83.5	9.8	213	2.75	149.9	1.5	2.2	20	4.9	6.5	0.4	156	0.55
1493678	Soil	2	41.3	69.9	11.3	423	0.4	45.6	3.3	51	2.36	41.0	1.0	<0.1	4	1.6	11.1	0.2	94	0.07
1493679	Soil	<2	24.8	27.2	6.6	135	1.5	23.2	1.9	24	1.18	34.2	<0.5	0.3	2	0.4	6.8	0.1	64	0.04
1493680	Soil	11	32.8	198.7	27.1	1957	4.9	164.0	17.8	285	3.73	98.0	1.8	4.3	17	14.4	10.8	0.4	100	0.52
1493681	Soil	6	22.0	102.6	25.2	747	3.3	91.7	11.9	260	3.63	71.3	2.3	2.5	9	2.5	8.1	0.5	102	0.16
1493682	Soil	7	18.1	111.5	27.2	866	1.8	91.7	12.7	224	3.15	74.7	2.0	4.6	17	6.5	6.6	0.4	88	0.34
1493683	Soil	6	7.7	85.1	25.6	566	1.7	89.4	12.1	353	3.11	500.8	2.4	3.4	39	2.8	5.1	1.0	76	1.08
1493684	Soil	5	6.1	53.4	14.6	333	1.4	89.5	10.2	238	2.76	208.2	1.5	1.7	52	1.9	3.9	0.3	59	1.53
1493685	Soil	4	0.9	20.1	4.7	73	0.5	25.3	3.2	108	0.87	20.7	<0.5	0.5	51	1.1	1.5	<0.1	24	1.56
1493686	Soil	5	5.6	56.3	10.0	451	1.8	58.3	5.6	134	1.65	64.6	0.5	1.3	55	10.2	3.7	0.2	62	1.47
1493687	Soil	4	7.6	40.9	16.4	534	1.4	73.0	10.4	319	2.29	108.8	1.1	2.4	37	2.9	3.6	0.3	418	1.12
1493688	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1493689	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1493690	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1493701	Soil	29	10.5	166.0	60.3	270	1.2	38.8	6.7	275	10.85	185.2	22.7	8.9	39	0.3	14.3	0.7	118	0.05



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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
1493662	Soil	41	42	0.21	190	0.013	<20	0.90	0.004	0.12	0.2	0.10	6.0	1.9	0.28	5	14.0
1493663	Soil	15	32	0.12	108	0.006	<20	0.79	0.002	0.08	0.1	0.06	3.0	0.8	0.16	3	10.7
1493664	Soil	11	14	0.07	219	0.014	<20	0.33	0.003	0.17	0.1	0.37	1.2	0.5	0.39	2	36.0
1493665	Soil	4	6	0.02	147	0.015	<20	0.31	0.018	0.11	0.2	0.19	0.6	0.6	0.22	1	13.9
1493666	Soil	21	26	0.25	216	0.016	<20	0.63	0.004	0.28	<0.1	0.23	3.5	0.6	0.35	2	8.5
1493667	Soil	16	16	0.16	143	0.007	<20	0.51	0.003	0.15	0.1	0.19	2.8	0.3	0.14	1	3.8
1493668	Soil	15	16	1.01	153	0.021	<20	0.96	0.003	0.22	0.2	0.19	4.1	0.4	0.29	2	23.9
1493669	Soil	14	26	1.57	141	0.026	<20	1.70	0.007	0.15	<0.1	0.09	2.2	0.3	0.07	4	2.8
1493670	Soil	15	13	1.85	128	0.020	<20	1.09	0.004	0.19	<0.1	0.12	2.8	0.3	0.13	3	1.5
1493671	Soil	10	8	1.69	103	0.013	<20	0.60	0.002	0.15	<0.1	0.06	1.9	0.2	0.11	2	2.0
1493672	Soil	11	7	1.44	90	0.010	<20	0.57	0.004	0.10	<0.1	0.07	1.8	0.2	0.09	1	1.9
1493673	Soil	10	8	1.46	77	0.010	<20	0.48	0.002	0.10	<0.1	0.06	1.7	0.1	0.09	1	1.7
1493674	Soil	14	15	0.71	119	0.009	<20	0.68	0.002	0.14	<0.1	0.25	1.9	0.4	0.12	2	6.3
1493675	Soil	8	22	1.12	102	0.021	<20	0.98	0.003	0.24	0.1	0.22	3.2	0.4	<0.05	3	2.8
1493676	Soil	14	44	0.78	154	0.038	<20	1.69	0.006	0.10	0.4	0.12	4.0	0.4	<0.05	4	1.8
1493677	Soil	8	82	1.22	102	0.058	<20	1.44	0.014	0.11	0.3	0.15	4.1	0.4	<0.05	5	1.3
1493678	Soil	4	7	0.15	59	0.002	<20	0.31	0.002	0.05	0.1	0.04	0.1	0.3	<0.05	2	2.2
1493679	Soil	9	4	0.06	42	0.005	<20	0.21	0.002	0.06	0.1	0.05	0.3	0.2	<0.05	1	0.9
1493680	Soil	13	21	0.55	232	0.025	<20	1.08	0.005	0.17	0.3	0.39	3.1	0.6	0.08	3	3.7
1493681	Soil	15	24	0.58	128	0.028	<20	1.13	0.004	0.13	0.3	0.15	2.0	0.4	<0.05	4	1.9
1493682	Soil	14	25	0.65	243	0.036	<20	1.22	0.006	0.16	0.2	0.11	2.8	0.4	<0.05	3	1.1
1493683	Soil	21	31	0.79	248	0.036	<20	1.61	0.009	0.19	0.3	0.10	3.5	0.4	<0.05	5	2.2
1493684	Soil	29	30	0.62	241	0.015	<20	1.16	0.008	0.13	0.2	0.10	3.3	0.3	0.08	3	1.7
1493685	Soil	10	11	0.21	89	0.014	<20	0.58	0.025	0.06	0.1	0.05	1.1	0.1	0.05	2	0.8
1493686	Soil	39	28	0.50	155	0.014	<20	0.96	0.008	0.14	0.2	0.13	3.1	0.2	0.06	2	0.9
1493687	Soil	11	62	2.65	204	0.056	<20	2.48	0.018	0.21	0.3	0.07	3.8	0.6	<0.05	7	0.9
1493688	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1493689	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1493690	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1493701	Soil	19	47	0.69	150	0.054	<20	2.06	0.006	0.16	0.2	0.04	4.8	0.5	0.14	6	14.3



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		Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
1493702	Soil	34	14.5	223.9	61.1	194	2.5	30.9	4.0	222	11.93	129.8	20.1	9.1	73	0.3	16.6	0.5	129	0.04
1493703	Soil	34	13.9	225.4	53.3	255	2.2	30.3	3.9	196	13.27	151.8	93.4	10.2	67	0.4	18.7	0.5	133	0.04
1493704	Soil	47	15.2	324.8	96.3	259	2.2	35.3	4.0	103	21.89	467.1	25.4	15.6	67	0.8	28.7	2.5	170	0.05
1493705	Soil	31	5.6	405.2	166.1	368	5.6	43.7	7.9	232	16.85	1024	15.3	8.4	37	1.0	14.1	9.7	85	0.03
1493706	Soil	69	5.7	407.9	92.7	600	2.3	88.2	14.4	388	21.17	135.9	40.1	6.9	23	0.5	15.5	1.2	89	0.03
1493707	Soil	65	5.3	493.2	139.6	739	3.3	140.6	31.9	516	18.02	193.5	26.5	5.7	25	0.8	15.5	1.6	76	0.05
1493708	Soil	32	7.6	450.0	112.1	591	2.5	244.7	91.8	2572	14.10	250.4	18.4	5.6	16	1.1	15.8	1.1	71	0.04
1493709	Soil	33	5.8	400.0	63.0	525	2.2	144.0	29.8	458	11.64	1428	20.0	6.3	25	0.8	18.2	1.0	76	0.07
1493710	Soil	8	0.8	59.7	72.4	208	0.5	50.5	19.2	514	2.83	131.5	1.7	10.7	147	0.9	1.3	0.6	24	1.12
1493711	Soil	15	2.7	151.0	62.7	262	1.0	39.8	10.9	341	7.75	837.5	19.2	3.5	20	0.3	8.3	0.9	46	0.09
1493712	Soil	23	3.0	127.5	237.6	558	1.5	116.4	48.0	997	8.30	2803	26.8	10.3	56	1.6	6.2	4.3	52	0.18
1493713	Soil	19	1.5	66.0	639.7	415	4.6	44.5	30.2	1419	6.90	6460	19.0	8.0	37	2.8	3.8	14.2	35	0.19
1493714	Soil	<2	0.3	6.7	7.9	15	0.4	2.3	0.9	37	0.57	126.1	2.1	0.2	6	<0.1	0.3	0.6	10	0.03
1493715	Soil	3	0.1	4.1	5.6	9	0.2	1.5	0.9	33	0.45	68.3	1.0	0.2	7	<0.1	<0.1	0.2	12	0.03
1493716	Soil	9	0.9	38.9	28.8	117	0.8	21.7	4.3	125	1.94	911.2	76.3	1.6	20	0.5	1.8	1.4	20	0.13
1493717	Soil	11	1.1	41.6	28.3	122	0.8	22.2	4.3	137	2.03	885.3	9.8	1.5	21	0.6	2.0	1.3	22	0.13
1493718	Soil	5	4.1	16.8	14.3	514	0.5	16.0	4.4	240	1.49	10.8	<0.5	0.5	289	3.7	3.0	<0.1	20	18.71
1493719	Soil	3	4.0	15.9	13.7	474	0.5	16.0	4.5	242	1.44	9.3	1.0	0.6	286	3.4	2.8	<0.1	19	18.70
1493720	Soil	7	28.1	130.4	50.3	1228	3.2	168.5	18.5	420	3.67	42.5	4.5	1.4	71	13.4	11.6	0.1	93	1.12
1493721	Soil	9	57.9	87.9	103.1	675	3.8	107.0	12.3	489	3.79	54.3	2.1	0.3	79	8.4	14.3	0.2	162	1.42
1493722	Soil	11	57.5	228.7	79.3	1693	4.3	220.5	22.9	371	4.86	50.9	3.2	5.2	99	23.2	18.0	0.2	164	1.23
1493723	Soil	12	59.5	60.5	85.9	607	3.4	93.2	11.7	362	3.98	38.5	4.0	0.4	77	6.3	15.5	0.1	135	0.41
1493724	Soil	10	42.2	128.6	66.5	980	5.3	140.5	14.9	308	3.76	40.6	5.7	0.6	80	10.7	12.3	0.2	133	0.56
1493725	Soil	10	41.4	157.6	63.3	1241	5.7	146.8	17.5	421	3.55	38.1	3.3	3.7	80	13.3	12.6	0.2	120	0.56
1493726	Soil	21	88.2	82.0	419.1	81	6.2	13.2	1.5	51	3.44	120.1	1.9	10.7	326	0.5	44.4	0.4	292	0.17
1493727	Soil	5	29.4	90.4	17.2	586	0.9	62.0	7.2	178	2.38	32.0	2.0	<0.1	3	2.0	8.1	0.1	61	0.16
1493728	Soil	11	53.6	198.5	20.5	1412	4.4	125.3	8.6	145	1.80	54.6	<0.5	6.1	21	11.5	16.9	<0.1	173	0.72
1493729	Soil	8	17.9	171.6	23.2	515	3.1	105.1	22.8	270	4.47	36.9	1.8	2.4	164	4.7	9.7	<0.1	47	11.01
1493730	Soil	23	89.7	881.2	100.5	7120	11.6	380.9	39.7	533	10.79	214.4	5.8	6.0	73	72.4	46.9	0.4	205	1.54
1493731	Soil	24	76.9	503.6	68.9	2883	8.1	246.9	38.8	339	8.59	160.5	<0.5	5.7	22	20.2	44.5	0.3	84	0.90



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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
1493702	Soil	30	51	0.71	144	0.082	<20	2.09	0.003	0.16	0.1	0.06	5.4	0.6	0.23	5	23.8
1493703	Soil	27	54	0.71	143	0.082	<20	2.12	0.003	0.18	<0.1	0.06	5.3	0.6	0.32	6	24.8
1493704	Soil	34	68	0.35	133	0.036	<20	2.40	0.002	0.09	0.1	0.05	5.0	0.6	0.70	5	28.5
1493705	Soil	22	35	0.37	106	0.045	<20	2.27	0.007	0.09	0.5	0.07	3.0	0.5	0.41	4	18.3
1493706	Soil	12	39	0.57	77	0.068	<20	2.44	0.005	0.13	0.2	0.04	3.6	0.4	0.42	5	20.0
1493707	Soil	11	35	0.64	72	0.051	<20	2.90	0.004	0.11	0.4	0.05	3.5	0.3	0.44	5	19.6
1493708	Soil	11	32	0.52	91	0.043	<20	2.61	0.008	0.12	0.1	0.04	4.4	0.7	0.24	5	13.1
1493709	Soil	16	35	0.67	157	0.041	<20	2.86	0.006	0.20	0.1	0.06	3.7	0.5	0.23	5	10.8
1493710	Soil	21	19	0.70	600	0.006	<20	2.74	0.006	0.39	<0.1	0.02	3.9	0.4	<0.05	7	1.4
1493711	Soil	9	21	0.37	81	0.045	<20	1.96	0.015	0.10	1.9	0.03	2.4	0.2	0.09	5	5.7
1493712	Soil	28	31	0.69	225	0.067	<20	3.24	0.012	0.18	3.4	0.02	5.4	0.4	0.07	8	3.6
1493713	Soil	29	21	0.50	126	0.051	<20	2.22	0.017	0.12	2.5	0.03	6.7	0.3	0.06	7	2.8
1493714	Soil	1	3	0.03	15	0.020	<20	0.25	0.024	0.02	<0.1	0.03	0.2	<0.1	<0.05	1	1.2
1493715	Soil	<1	2	0.02	12	0.023	<20	0.23	0.025	0.02	<0.1	0.02	0.2	<0.1	<0.05	1	<0.5
1493716	Soil	9	11	0.22	76	0.022	<20	1.02	0.018	0.10	0.5	0.05	1.3	0.1	<0.05	3	0.9
1493717	Soil	10	11	0.22	75	0.023	<20	1.02	0.015	0.10	0.2	0.04	1.4	0.1	<0.05	3	0.9
1493718	Soil	10	6	1.37	166	0.005	<20	0.41	0.003	0.07	<0.1	0.03	1.1	0.2	<0.05	<1	1.6
1493719	Soil	9	6	1.27	159	0.006	<20	0.40	0.004	0.06	<0.1	0.03	1.3	0.1	<0.05	<1	0.9
1493720	Soil	15	11	0.06	151	0.008	<20	0.65	0.008	0.09	<0.1	0.27	1.7	0.8	<0.05	2	9.9
1493721	Soil	23	20	0.03	266	0.005	<20	0.64	0.003	0.15	0.2	0.34	1.3	1.1	0.29	2	17.2
1493722	Soil	28	23	0.09	221	0.012	<20	0.80	0.004	0.20	0.2	0.38	3.6	1.0	0.14	2	18.3
1493723	Soil	21	21	0.03	247	0.007	<20	0.47	0.004	0.18	0.1	0.30	1.1	1.1	0.30	2	16.4
1493724	Soil	37	25	0.12	209	0.007	<20	0.77	0.004	0.15	0.1	0.25	1.3	1.1	0.10	2	10.6
1493725	Soil	41	20	0.18	171	0.014	<20	0.85	0.010	0.14	0.2	0.27	2.3	1.1	0.13	2	10.3
1493726	Soil	32	47	0.10	854	0.028	<20	0.78	0.008	0.30	0.3	0.20	3.8	1.9	0.51	5	71.9
1493727	Soil	7	8	0.06	87	0.003	<20	0.42	0.003	0.05	0.1	0.05	0.4	0.3	<0.05	2	7.4
1493728	Soil	9	13	0.13	111	0.004	<20	0.40	0.002	0.12	<0.1	0.42	2.5	0.5	<0.05	1	11.3
1493729	Soil	5	12	1.92	190	0.010	<20	0.59	0.003	0.23	<0.1	0.22	2.1	0.6	0.13	2	8.3
1493730	Soil	15	31	0.47	318	0.022	<20	1.08	0.005	0.33	0.1	0.65	4.2	1.7	0.44	3	34.3
1493731	Soil	7	14	0.46	154	0.018	<20	0.59	0.003	0.24	0.1	0.38	2.2	0.7	0.57	2	51.9



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	Method Analyte Unit MDL	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
1493732	Soil	21	53.2	374.1	42.0	2135	7.2	144.7	15.0	269	3.85	76.2	4.5	3.8	44	22.0	22.6	0.1	178	1.42
1493733	Soil	17	48.4	249.0	51.5	1609	4.0	167.7	29.8	308	6.46	93.7	1.2	5.4	32	19.3	28.3	0.1	140	0.82
1493734	Soil	16	30.2	195.6	35.7	1174	3.7	109.4	12.7	152	3.71	158.1	5.2	1.5	30	10.1	16.4	0.2	113	0.73
1493735	Soil	<2	23.2	157.3	55.4	944	3.5	97.5	19.3	435	4.41	655.6	2.5	4.0	22	12.3	10.3	0.5	147	0.53
1493736	Soil	<2	19.0	73.1	22.7	480	1.1	58.7	10.4	150	2.99	131.8	2.5	0.8	17	1.3	9.9	0.2	123	0.29
1493737	Soil	<2	22.4	129.6	38.5	709	2.4	87.7	25.1	429	4.83	250.3	11.7	0.8	20	3.6	12.0	0.4	132	0.35
1493738	Soil	<2	5.0	32.9	13.7	173	1.4	19.5	3.3	63	1.20	95.8	3.2	<0.1	6	2.1	2.9	0.1	36	0.06
1493739	Soil	36	17.1	227.8	439.4	1973	8.0	140.5	28.1	588	6.28	3410	32.5	5.7	21	28.7	12.9	2.1	290	0.42
1493740	Soil	6	13.9	288.0	42.6	1146	3.8	120.8	23.3	388	6.46	355.7	12.1	2.9	14	9.5	11.4	0.6	131	0.35
1493741	Soil	8	13.8	295.2	40.7	1153	3.5	121.0	23.4	417	6.52	362.3	13.5	3.9	14	9.1	10.3	0.5	140	0.37
1493742	Soil	3	11.6	161.3	30.8	790	1.5	103.8	23.4	428	5.36	125.0	10.3	1.9	14	4.0	8.2	0.6	122	0.22
1493743	Soil	<2	5.2	32.0	8.9	138	0.6	21.6	4.2	86	1.90	24.5	2.1	0.1	8	1.1	3.3	0.2	44	0.10
1493744	Soil	<2	7.8	22.6	14.2	126	0.5	18.8	2.8	47	1.75	36.0	0.6	0.2	7	0.3	3.3	0.3	159	0.01
1493745	Soil	<2	9.1	36.5	14.2	490	0.8	74.9	9.9	360	2.45	67.8	<0.5	5.5	36	6.2	3.0	0.5	378	0.94
1493746	Soil	<2	25.0	31.6	14.0	373	0.3	132.1	13.3	286	2.31	72.1	1.6	5.2	22	2.1	2.2	0.3	322	0.96
1493747	Soil	<2	16.7	41.3	14.9	334	0.2	169.6	20.6	319	2.27	210.3	<0.5	4.5	45	2.6	1.4	1.0	164	0.97
1493748	Soil	<2	14.0	22.8	12.9	143	0.2	68.0	10.0	265	1.99	85.6	2.0	5.5	92	1.2	2.0	0.5	342	3.96
1493749	Soil	<2	11.6	65.7	24.1	819	0.7	99.9	13.9	293	3.00	156.6	6.5	5.8	60	9.0	5.4	0.6	476	1.30
1493750	Soil	<2	7.1	30.0	12.8	619	0.4	70.3	10.3	241	1.94	181.6	2.8	3.2	48	6.2	2.6	0.4	487	0.99
1493751	Soil	<2	44.0	180.9	18.5	1588	6.1	116.1	10.9	255	2.43	42.3	3.4	1.7	19	15.4	14.7	0.2	88	0.95
1493752	Soil	<2	37.1	172.9	20.3	1298	4.7	105.2	12.6	310	2.91	43.6	1.9	3.2	16	14.0	14.3	0.2	91	0.47
1493753	Soil	<2	16.2	53.3	15.9	1638	0.7	173.8	18.4	298	3.63	49.6	3.7	3.4	161	3.3	7.1	0.2	45	11.31
1493754	Soil	<2	37.4	142.1	20.6	1166	4.7	88.1	11.4	237	2.93	34.0	3.6	1.3	123	14.2	11.0	0.1	105	8.12
1493755	Soil	13	22.0	100.9	19.0	843	4.4	70.2	7.3	221	2.40	32.5	5.4	0.4	21	4.9	10.2	0.1	61	0.91
1493756	Soil	<2	29.4	107.2	37.7	815	2.3	107.6	13.2	351	3.26	36.4	2.5	1.0	30	2.8	10.0	0.2	100	0.28
1493757	Soil	<2	31.4	141.7	24.8	740	2.4	79.4	10.3	225	2.71	40.1	4.0	2.6	16	1.7	10.3	0.2	79	0.31
1493758	Soil	<2	42.3	115.8	36.5	853	2.7	101.5	11.6	301	3.20	40.2	4.5	1.8	30	2.5	11.2	0.2	114	0.34
1493759	Soil	<2	40.0	161.9	20.1	1929	8.0	162.1	12.0	154	2.91	48.2	5.2	2.2	11	13.2	13.6	0.2	137	0.39
1493760	Soil	5	57.0	204.0	23.5	1895	9.8	178.5	11.3	155	3.28	65.0	7.4	0.9	13	18.3	15.2	0.2	226	0.52
1493761	Soil	2	63.7	194.9	19.7	1914	5.7	150.9	10.7	182	2.44	51.7	4.9	4.4	14	19.7	12.8	0.2	300	0.61



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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
1493732	Soil	12	23	0.33	188	0.025	<20	0.78	0.014	0.24	0.3	0.40	2.2	0.7	0.09	2	12.2
1493733	Soil	9	16	0.73	215	0.028	<20	1.00	0.004	0.36	<0.1	0.24	3.0	0.7	0.24	3	13.0
1493734	Soil	11	21	0.71	157	0.022	<20	1.03	0.013	0.20	<0.1	0.26	1.8	0.6	0.11	3	8.6
1493735	Soil	13	51	1.79	192	0.058	<20	1.88	0.009	0.38	1.8	0.12	3.9	0.7	<0.05	5	7.1
1493736	Soil	10	30	0.78	159	0.021	<20	1.20	0.007	0.22	0.9	0.05	1.3	0.5	<0.05	4	3.8
1493737	Soil	14	42	1.14	178	0.015	<20	1.57	0.003	0.22	0.2	0.12	1.2	0.4	<0.05	5	7.5
1493738	Soil	3	10	0.11	53	0.001	<20	0.35	0.013	0.06	<0.1	0.08	0.1	<0.1	<0.05	1	1.8
1493739	Soil	18	47	2.02	293	0.052	<20	2.31	0.003	0.43	0.1	0.17	2.7	0.7	<0.05	6	7.8
1493740	Soil	15	36	1.82	173	0.024	<20	1.86	0.004	0.24	<0.1	0.10	2.8	0.5	<0.05	5	8.3
1493741	Soil	16	38	1.94	173	0.029	<20	1.95	0.003	0.25	<0.1	0.08	3.1	0.5	<0.05	5	7.6
1493742	Soil	16	38	1.58	191	0.029	<20	2.06	0.004	0.22	0.3	0.06	2.4	0.5	<0.05	6	5.2
1493743	Soil	8	13	0.71	80	0.009	<20	1.00	0.017	0.08	<0.1	0.03	0.5	0.2	<0.05	3	1.4
1493744	Soil	17	15	0.25	98	0.012	<20	0.73	0.003	0.10	0.2	0.02	0.6	0.3	<0.05	5	1.4
1493745	Soil	19	49	2.94	273	0.059	<20	2.09	0.018	0.28	0.2	0.06	5.8	0.7	<0.05	6	1.6
1493746	Soil	16	61	4.06	229	0.090	<20	3.16	0.015	0.37	0.3	0.03	5.8	1.3	<0.05	9	0.7
1493747	Soil	9	52	3.67	148	0.097	<20	3.66	0.051	0.29	0.5	0.02	3.2	1.3	<0.05	10	<0.5
1493748	Soil	9	56	4.54	232	0.118	<20	3.58	0.111	0.61	0.4	0.02	4.6	0.9	<0.05	9	<0.5
1493749	Soil	14	59	3.39	232	0.097	<20	3.13	0.100	0.54	0.8	0.03	5.0	0.8	<0.05	9	1.5
1493750	Soil	8	56	3.52	157	0.096	<20	3.16	0.084	0.41	0.8	0.03	3.6	0.7	<0.05	9	<0.5
1493751	Soil	8	13	0.50	97	0.009	<20	0.63	0.009	0.13	0.1	0.30	2.2	0.6	<0.05	1	5.2
1493752	Soil	10	15	0.46	126	0.020	<20	0.88	0.013	0.14	0.1	0.14	2.5	0.6	<0.05	2	5.5
1493753	Soil	12	19	0.93	205	0.012	<20	1.00	0.003	0.12	0.1	0.05	2.6	0.5	0.11	2	1.7
1493754	Soil	11	18	1.01	210	0.010	<20	0.91	0.004	0.15	0.1	0.22	2.0	0.5	0.19	2	8.1
1493755	Soil	8	13	0.33	107	0.005	<20	0.60	0.003	0.06	0.1	0.28	0.9	0.4	0.14	2	3.6
1493756	Soil	19	15	0.10	120	0.009	<20	0.57	0.004	0.10	0.1	0.06	1.6	0.5	0.05	2	7.2
1493757	Soil	19	13	0.17	81	0.016	<20	0.57	0.004	0.09	0.2	0.03	1.7	0.3	<0.05	2	5.5
1493758	Soil	23	16	0.12	127	0.014	<20	0.56	0.004	0.11	0.1	0.04	1.7	0.5	0.07	2	7.4
1493759	Soil	38	19	0.50	84	0.007	<20	0.79	0.003	0.10	0.1	0.48	2.1	0.9	<0.05	2	4.0
1493760	Soil	50	30	0.66	80	0.008	<20	0.96	0.002	0.12	0.2	0.51	1.6	0.9	<0.05	3	5.9
1493761	Soil	46	31	0.75	69	0.010	<20	0.77	0.002	0.14	0.1	0.40	2.4	0.7	0.06	3	4.7



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		Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
1493762	Soil	<2	4.5	46.2	7.5	151	1.1	90.7	7.2	139	1.62	10.4	1.0	2.8	191	0.8	4.5	<0.1	64	9.97
1493763	Soil	<2	7.9	66.5	10.2	185	1.6	130.0	8.9	193	2.03	21.0	0.7	4.6	168	0.4	5.0	<0.1	95	8.86
1493764	Soil	<2	5.5	53.2	11.6	239	1.6	131.0	12.2	154	2.82	17.9	2.6	3.6	113	1.6	5.9	0.1	28	5.41
1493765	Soil	<2	12.1	68.5	29.3	591	2.0	133.8	12.3	174	2.85	28.1	2.0	3.8	107	6.7	7.1	0.2	117	2.79
1493766	Soil	<2	13.2	75.6	32.8	457	1.0	89.3	7.3	132	2.06	23.2	2.1	0.2	64	2.5	6.4	0.1	163	0.56
1493767	Soil	<2	13.4	64.2	14.9	727	1.6	118.3	13.7	304	2.68	17.9	3.1	4.8	33	8.9	4.5	0.1	885	2.62
1493768	Soil	<2	17.3	23.4	11.3	374	0.4	86.1	11.2	304	1.99	14.2	1.3	4.1	32	4.2	3.3	0.1	554	3.03
1493769	Soil	<2	24.8	22.0	13.0	326	0.3	94.9	11.2	298	2.00	19.1	<0.5	4.4	41	2.5	3.9	<0.1	461	4.73
1493770	Soil	<2	28.5	23.1	15.0	274	0.3	115.7	13.0	315	2.14	22.4	1.1	4.7	32	0.8	3.9	<0.1	399	3.00
1493771	Soil	<2	35.3	35.6	14.8	188	0.2	107.5	10.4	267	1.99	21.5	<0.5	5.4	61	1.4	2.8	<0.1	132	5.09
1493772	Soil	<2	40.3	43.2	16.4	551	0.4	173.3	12.7	273	2.12	28.9	0.9	2.7	64	2.5	4.3	0.1	171	5.18
1493773	Soil	<2	48.2	51.2	19.2	520	0.4	167.1	17.9	335	2.97	36.5	1.8	7.8	34	2.0	5.2	0.1	510	5.07
1493774	Soil	<2	25.9	45.8	19.6	735	0.5	204.2	15.5	383	2.63	33.7	1.4	3.6	18	3.8	3.4	0.1	495	1.54
1493775	Soil	<2	14.2	67.2	20.1	653	1.3	118.5	16.5	300	3.33	35.4	2.4	7.5	20	9.7	6.0	0.1	937	2.28
1493776	Soil	<2	15.0	107.4	23.4	314	0.4	68.3	9.6	174	3.83	54.0	5.2	2.8	12	1.4	4.3	0.2	327	0.20
1493777	Soil	<2	8.6	36.4	23.0	125	0.6	30.6	3.6	114	5.26	45.4	2.7	1.9	11	0.2	3.5	0.2	99	0.05
1493778	Soil	2	15.5	82.4	50.6	153	1.6	19.6	3.5	103	10.52	154.1	7.6	1.1	16	0.2	19.2	0.5	132	0.03
1493779	Soil	<2	9.4	22.4	24.4	70	0.4	12.8	2.7	116	3.18	56.4	5.2	0.2	13	0.1	3.9	0.2	72	0.02
1493780	Soil	<2	10.0	62.1	24.3	111	0.7	26.2	4.5	107	4.61	68.0	4.4	0.7	22	0.1	4.5	0.3	79	0.02
1493781	Soil	<2	7.3	30.5	16.6	104	0.5	29.3	4.3	118	6.54	35.4	1.9	1.5	8	0.4	2.7	0.3	126	0.04
1493782	Soil	<2	4.9	26.2	14.9	106	0.4	24.1	4.0	102	2.96	32.4	2.7	0.2	11	0.2	2.5	0.2	58	0.04
1493783	Soil	<2	6.0	31.8	16.6	958	0.3	172.6	7.8	162	3.18	27.9	1.6	1.2	27	0.4	2.8	0.3	145	1.04
1493784	Soil	<2	6.2	26.5	13.3	274	0.3	51.5	7.0	146	3.33	35.7	1.2	2.7	15	0.7	3.0	0.2	122	0.50
1493785	Soil	<2	9.5	47.8	12.3	334	0.3	71.6	10.7	199	2.91	29.1	4.9	4.0	15	1.8	3.0	0.1	572	0.42
1493786	Soil	<2	12.2	56.4	16.3	529	0.9	104.2	13.7	353	3.52	24.6	1.7	3.9	25	4.3	2.4	<0.1	729	0.82
1493787	Soil	<2	9.2	64.8	15.7	411	0.8	103.9	13.1	298	3.53	26.6	1.9	1.2	18	3.1	2.2	0.2	771	0.49
1493788	Soil	I.S.	14.2	58.7	18.8	636	0.7	121.3	15.1	389	3.14	24.3	2.6	2.6	19	5.0	2.8	0.2	770	0.97
1493789	Soil	<2	11.6	60.3	17.1	533	0.8	131.3	10.0	170	3.48	34.6	3.3	1.1	22	1.9	3.3	0.2	289	0.89
1493790	Soil	<2	7.5	55.0	13.2	634	0.9	113.6	10.8	222	3.19	17.8	2.1	0.9	26	1.8	2.0	0.1	689	0.88
1493791	Soil	<2	8.6	65.4	10.5	621	1.1	206.8	9.0	315	2.62	18.7	1.7	5.8	64	4.3	2.1	<0.1	810	2.72



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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
1493762	Soil	29	46	0.79	81	0.013	<20	0.78	0.002	0.15	<0.1	0.08	2.4	0.3	0.11	2	1.4
1493763	Soil	35	58	1.06	81	0.020	<20	1.00	0.005	0.15	<0.1	0.09	2.9	0.5	0.10	3	2.5
1493764	Soil	33	22	0.35	60	0.010	<20	0.63	0.006	0.12	<0.1	0.11	2.2	0.3	0.15	1	1.7
1493765	Soil	49	41	0.61	158	0.017	<20	1.01	0.004	0.22	0.1	0.12	2.7	0.7	0.09	3	4.7
1493766	Soil	27	29	0.70	159	0.007	<20	1.14	0.009	0.09	<0.1	0.07	0.4	0.6	0.06	3	4.5
1493767	Soil	6	109	5.63	410	0.122	<20	4.12	0.027	1.14	0.2	0.12	5.9	1.5	<0.05	12	3.5
1493768	Soil	5	72	5.63	450	0.119	<20	3.71	0.026	1.04	0.3	0.06	5.9	1.3	<0.05	12	1.1
1493769	Soil	6	62	5.10	456	0.109	<20	3.40	0.019	1.02	0.2	0.06	5.9	1.4	<0.05	10	1.3
1493770	Soil	6	67	5.69	434	0.105	<20	3.75	0.030	1.04	0.2	0.09	6.1	1.4	<0.05	12	1.3
1493771	Soil	8	44	3.93	333	0.081	<20	2.61	0.024	0.83	0.3	0.07	4.9	1.8	<0.05	8	1.0
1493772	Soil	11	52	4.32	317	0.074	<20	2.75	0.018	0.75	0.3	0.11	4.7	2.4	<0.05	8	1.4
1493773	Soil	21	69	5.18	417	0.081	<20	3.35	0.011	0.98	0.3	0.11	6.9	2.6	<0.05	10	1.8
1493774	Soil	17	84	6.41	340	0.099	<20	4.12	0.007	0.35	0.3	0.13	6.6	2.7	<0.05	12	0.9
1493775	Soil	13	124	5.82	408	0.108	<20	4.04	0.006	1.60	0.2	0.12	8.4	1.8	<0.05	14	4.6
1493776	Soil	21	53	2.63	180	0.057	<20	2.43	0.003	0.17	0.2	0.03	4.0	0.8	<0.05	7	2.1
1493777	Soil	17	39	0.43	152	0.022	<20	1.19	0.007	0.10	0.2	0.08	1.8	1.1	<0.05	5	10.9
1493778	Soil	11	40	0.18	209	0.020	<20	0.87	0.006	0.11	0.3	0.26	1.5	1.7	0.14	7	44.1
1493779	Soil	13	20	0.15	171	0.010	<20	0.74	0.009	0.07	0.2	0.03	0.5	0.5	<0.05	5	2.7
1493780	Soil	19	34	0.48	250	0.009	<20	1.33	0.005	0.11	0.2	0.16	1.3	0.6	<0.05	5	4.5
1493781	Soil	13	50	0.40	80	0.037	<20	1.73	0.003	0.06	0.3	0.07	1.6	0.3	<0.05	9	2.2
1493782	Soil	16	25	0.44	80	0.007	<20	1.04	0.004	0.06	0.2	0.04	0.5	0.2	<0.05	4	1.3
1493783	Soil	14	44	0.89	185	0.023	<20	1.76	0.006	0.11	0.2	0.08	2.1	0.4	<0.05	5	2.7
1493784	Soil	18	36	0.94	115	0.025	<20	1.43	0.002	0.07	0.2	0.01	2.1	0.3	<0.05	5	2.3
1493785	Soil	16	73	3.21	210	0.095	<20	3.38	0.003	0.21	0.2	0.06	4.8	0.7	<0.05	9	1.7
1493786	Soil	7	96	6.21	377	0.132	<20	5.07	0.007	0.68	0.3	0.09	6.3	1.4	<0.05	14	2.2
1493787	Soil	11	111	4.42	291	0.073	<20	4.89	0.007	0.30	0.2	0.10	4.7	1.1	<0.05	13	3.6
1493788	Soil	7	117	6.50	334	0.109	<20	5.00	0.006	0.40	0.2	0.07	6.6	1.4	<0.05	14	2.6
1493789	Soil	13	86	1.57	164	0.037	<20	2.58	0.005	0.11	0.3	0.13	2.3	0.8	<0.05	7	1.8
1493790	Soil	8	131	4.33	229	0.065	<20	4.37	0.007	0.19	0.2	0.08	3.6	0.8	<0.05	13	3.2
1493791	Soil	10	159	4.71	192	0.091	<20	4.51	0.015	0.37	0.3	0.08	7.7	1.1	<0.05	13	1.9



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	Method Analyte Unit MDL	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
1493792	Soil	<2	4.4	30.8	9.8	484	1.0	129.7	9.5	189	2.34	19.7	<0.5	1.8	117	2.5	2.1	0.1	131	6.13
1493793	Soil	<2	3.0	26.1	5.9	428	0.7	130.4	6.4	109	1.72	6.1	0.6	2.1	201	1.2	2.1	<0.1	124	10.58
1493794	Soil	<2	3.9	28.4	10.0	160	0.8	99.5	7.6	128	2.08	11.3	<0.5	2.5	293	1.1	2.6	<0.1	131	13.14
1493795	Soil	<2	25.4	51.2	13.1	432	0.5	89.5	8.0	179	2.15	32.5	2.4	0.4	11	0.8	5.7	<0.1	435	0.45
1493796	Soil	<2	4.7	22.6	8.3	220	0.9	55.5	5.2	87	1.69	11.3	0.9	0.3	30	1.4	1.6	<0.1	167	0.96
1493797	Soil	<2	12.2	75.5	16.3	510	1.7	119.4	11.0	312	2.62	21.9	2.7	5.1	60	6.9	5.1	<0.1	462	3.40
1493798	Soil	<2	28.9	49.7	31.3	250	3.4	27.6	3.7	285	2.10	37.5	0.7	0.4	32	1.3	5.0	0.1	162	0.15
1493799	Soil	<2	15.2	64.9	10.1	480	1.3	55.2	5.3	108	1.44	20.6	2.1	0.4	8	1.8	4.0	<0.1	237	0.26
1493800	Soil	<2	12.2	54.0	16.8	451	1.2	76.5	8.6	233	2.62	23.7	2.1	0.7	42	2.1	3.2	0.1	246	2.16



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
1493792	Soil	13	67	1.06	69	0.026	<20	1.40	0.005	0.13	0.5	0.09	2.3	0.8	<0.05	4	0.9
1493793	Soil	9	88	1.19	63	0.027	<20	1.51	0.005	0.15	0.4	0.07	2.8	0.8	<0.05	4	<0.5
1493794	Soil	6	89	1.51	59	0.033	<20	1.86	0.007	0.09	0.3	0.07	3.2	0.6	<0.05	5	0.7
1493795	Soil	9	74	1.78	150	0.037	<20	2.01	0.002	0.11	0.3	0.02	1.6	0.8	<0.05	6	1.8
1493796	Soil	7	61	1.25	118	0.017	<20	1.72	0.011	0.08	0.2	0.04	0.9	0.6	<0.05	6	1.8
1493797	Soil	19	84	2.63	166	0.058	<20	2.31	0.009	0.20	0.2	0.12	4.2	0.9	<0.05	7	7.8
1493798	Soil	19	22	0.48	228	0.004	<20	0.93	0.007	0.13	0.1	0.02	0.4	0.7	0.11	4	4.8
1493799	Soil	17	34	1.07	75	0.014	<20	1.13	0.003	0.06	<0.1	0.09	1.1	0.4	<0.05	4	1.2
1493800	Soil	23	51	2.06	177	0.026	<20	2.46	0.006	0.10	0.2	0.10	2.6	0.7	<0.05	7	1.5



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QUALITY CONTROL REPORT

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	Method Analyte Unit MDL	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Au ppb	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %
		2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																					
1491856	Soil	18	10.2	143.3	22.1	203	0.5	67.6	9.4	220	3.76	38.6	8.1	5.8	20	0.6	2.8	0.2	45	0.04	0.080
REP 1491856	QC		9.1	141.9	21.6	196	0.6	64.5	9.6	219	3.76	38.8	8.6	5.5	20	0.7	2.8	0.2	45	0.04	0.085
1491867	Soil	51	35.7	686.0	107.4	3245	12.9	252.1	58.2	510	11.78	204.9	18.2	10.0	59	41.5	27.1	0.9	143	1.40	0.257
REP 1491867	QC	50																			
1491906	Soil	11	95.9	197.1	78.1	4792	3.7	299.3	14.6	368	2.86	77.0	0.5	4.8	63	79.6	21.5	0.2	1230	0.57	0.169
REP 1491906	QC		93.6	191.8	78.1	4645	3.6	304.6	14.4	354	2.86	77.5	1.0	4.6	63	75.5	21.5	0.2	1229	0.56	0.169
1491916	Soil	8	36.9	64.9	80.4	802	1.1	99.3	9.2	229	2.87	167.4	4.6	1.0	35	4.2	11.1	0.8	444	0.65	0.142
REP 1491916	QC	12																			
1491942	Soil	6	5.5	57.4	11.3	418	1.4	113.4	10.5	168	2.69	19.4	<0.5	4.4	107	3.3	3.3	0.1	148	4.06	1.363
REP 1491942	QC		5.7	58.1	11.6	417	1.4	115.1	10.4	168	2.62	19.6	0.6	4.4	106	3.3	3.5	0.2	144	4.14	1.390
1493501	Soil	3	9.2	23.5	6.7	443	0.6	56.8	8.5	253	1.85	18.1	<0.5	1.0	389	2.1	4.3	<0.1	12	31.09	0.054
REP 1493501	QC	3																			
1493528	Soil	<2	0.3	1.4	1.0	11	<0.1	1.1	0.5	9	0.18	7.1	<0.5	<0.1	5	0.3	0.1	<0.1	15	0.08	0.009
REP 1493528	QC		0.3	1.4	1.0	13	<0.1	1.1	0.5	10	0.19	7.7	<0.5	<0.1	5	0.3	0.1	<0.1	22	0.07	0.009
1493536	Soil	18	5.7	215.7	34.5	162	1.0	52.1	11.3	258	4.92	89.1	7.8	5.3	19	0.3	3.7	0.5	58	0.03	0.093
REP 1493536	QC	15																			
1493564	Soil	7	18.0	251.0	46.9	721	2.9	156.3	35.0	510	5.90	85.1	5.1	1.6	58	5.2	8.2	0.4	103	0.52	0.504
REP 1493564	QC		17.7	247.0	45.4	693	2.8	148.2	32.9	510	5.77	85.1	3.9	1.4	55	5.1	8.2	0.4	100	0.53	0.479
1493571	Soil	5	11.8	156.7	15.1	390	2.7	84.1	11.7	211	2.77	29.5	3.7	2.2	28	4.2	6.8	0.2	113	1.33	0.137
REP 1493571	QC	<2																			
1493667	Soil	<2	9.5	77.7	22.9	904	2.4	150.5	17.8	310	4.11	36.3	<0.5	1.7	76	11.3	10.2	0.2	47	2.40	0.509
REP 1493667	QC		9.8	75.8	21.9	862	2.5	150.1	18.2	313	4.04	36.7	0.6	1.7	75	11.6	10.0	0.2	45	2.28	0.486
1493673	Soil	15	2.0	75.3	22.2	149	1.3	38.8	14.0	428	3.52	83.9	9.4	1.5	205	1.5	4.2	0.1	18	11.04	0.091
REP 1493673	QC	9																			
1493716	Soil	9	0.9	38.9	28.8	117	0.8	21.7	4.3	125	1.94	911.2	76.3	1.6	20	0.5	1.8	1.4	20	0.13	0.044
REP 1493716	QC		1.0	39.7	27.5	117	0.8	21.6	4.5	124	2.02	928.2	7.3	1.8	21	0.6	2.0	1.3	20	0.13	0.043
1493721	Soil	9	57.9	87.9	103.1	675	3.8	107.0	12.3	489	3.79	54.3	2.1	0.3	79	8.4	14.3	0.2	162	1.42	0.362
REP 1493721	QC	10																			



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QUALITY CONTROL REPORT

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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																		
1491856	Soil	17	20	0.24	128	0.031	<20	1.23	0.006	0.09	0.1	0.03	2.9	0.6	<0.05	4	2.7	<0.2
REP 1491856	QC	17	20	0.24	130	0.031	<20	1.22	0.005	0.10	0.1	0.05	3.2	0.6	<0.05	4	2.3	<0.2
1491867	Soil	12	35	2.74	198	0.049	<20	2.14	0.004	0.37	<0.1	0.26	3.8	0.4	0.22	5	29.9	0.4
REP 1491867	QC																	
1491906	Soil	16	70	1.97	303	0.057	<20	1.76	0.004	0.41	0.3	0.46	4.7	2.4	0.12	5	16.0	0.3
REP 1491906	QC	16	71	2.03	312	0.056	<20	1.75	0.005	0.41	0.4	0.46	4.5	2.4	0.13	5	17.2	<0.2
1491916	Soil	13	54	1.82	171	0.035	<20	1.98	0.008	0.27	0.2	0.07	2.1	1.1	0.14	6	7.2	<0.2
REP 1491916	QC																	
1491942	Soil	33	71	1.30	144	0.032	<20	1.72	0.004	0.26	0.4	0.10	3.4	0.8	<0.05	4	1.0	<0.2
REP 1491942	QC	33	68	1.34	144	0.031	<20	1.76	0.005	0.26	0.4	0.09	3.5	0.7	<0.05	4	1.1	<0.2
1493501	Soil	5	4	0.79	106	0.005	<20	0.25	0.001	0.04	<0.1	0.08	1.0	0.2	0.10	<1	1.4	<0.2
REP 1493501	QC																	
1493528	Soil	<1	2	0.02	18	0.011	<20	0.07	0.015	0.02	<0.1	<0.01	0.3	<0.1	<0.05	<1	<0.5	<0.2
REP 1493528	QC	<1	2	0.03	19	0.012	<20	0.07	0.015	0.02	<0.1	<0.01	0.3	<0.1	<0.05	<1	<0.5	<0.2
1493536	Soil	15	36	0.45	150	0.025	<20	1.69	0.004	0.12	0.3	0.09	3.1	0.5	<0.05	5	5.0	<0.2
REP 1493536	QC																	
1493564	Soil	18	29	0.29	156	0.016	<20	1.81	0.005	0.11	0.2	0.16	2.8	0.8	0.07	4	7.1	0.2
REP 1493564	QC	17	29	0.28	147	0.015	<20	1.77	0.005	0.11	0.2	0.17	2.4	0.8	<0.05	3	7.6	0.3
1493571	Soil	9	30	1.56	254	0.028	<20	1.47	0.009	0.38	<0.1	0.11	3.0	0.4	0.07	4	2.9	<0.2
REP 1493571	QC																	
1493667	Soil	16	16	0.16	143	0.007	<20	0.51	0.003	0.15	0.1	0.19	2.8	0.3	0.14	1	3.8	<0.2
REP 1493667	QC	15	15	0.15	135	0.007	<20	0.48	0.003	0.14	<0.1	0.20	2.5	0.3	0.14	<1	3.9	<0.2
1493673	Soil	10	8	1.46	77	0.010	<20	0.48	0.002	0.10	<0.1	0.06	1.7	0.1	0.09	1	1.7	<0.2
REP 1493673	QC																	
1493716	Soil	9	11	0.22	76	0.022	<20	1.02	0.018	0.10	0.5	0.05	1.3	0.1	<0.05	3	0.9	<0.2
REP 1493716	QC	10	10	0.22	76	0.023	<20	1.02	0.017	0.10	0.2	0.05	1.2	0.1	<0.05	3	1.5	<0.2
1493721	Soil	23	20	0.03	266	0.005	<20	0.64	0.003	0.15	0.2	0.34	1.3	1.1	0.29	2	17.2	0.3
REP 1493721	QC																	



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QUALITY CONTROL REPORT

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		3B Au ppb 2	1DX Mo ppm 0.1	1DX Cu ppm 0.1	1DX Pb ppm 0.1	1DX Zn ppm 1	1DX Ag ppm 0.1	1DX Ni ppm 0.1	1DX Co ppm 0.1	1DX Mn ppm 1	1DX Fe % 0.01	1DX As ppm 0.5	1DX Au ppb 0.5	1DX Th ppm 0.1	1DX Sr ppm 1	1DX Cd ppm 0.1	1DX Sb ppm 0.1	1DX Bi ppm 0.1	1DX V ppm 2	1DX Ca % 0.01	1DX P % 0.001
1493734	Soil	16	30.2	195.6	35.7	1174	3.7	109.4	12.7	152	3.71	158.1	5.2	1.5	30	10.1	16.4	0.2	113	0.73	0.329
REP 1493734	QC	14																			
1493735	Soil	<2	23.2	157.3	55.4	944	3.5	97.5	19.3	435	4.41	655.6	2.5	4.0	22	12.3	10.3	0.5	147	0.53	0.209
REP 1493735	QC		23.0	158.7	55.4	945	3.6	98.6	19.4	428	4.41	654.9	2.8	3.8	23	11.6	10.3	0.5	147	0.52	0.203
1493753	Soil	<2	16.2	53.3	15.9	1638	0.7	173.8	18.4	298	3.63	49.6	3.7	3.4	161	3.3	7.1	0.2	45	11.31	0.096
REP 1493753	QC	<2																			
1493771	Soil	<2	35.3	35.6	14.8	188	0.2	107.5	10.4	267	1.99	21.5	<0.5	5.4	61	1.4	2.8	<0.1	132	5.09	0.061
REP 1493771	QC		37.1	35.4	15.9	187	0.2	106.2	10.7	255	1.99	21.1	<0.5	5.4	61	1.3	2.8	<0.1	134	4.90	0.067
1493788	Soil	I.S.	14.2	58.7	18.8	636	0.7	121.3	15.1	389	3.14	24.3	2.6	2.6	19	5.0	2.8	0.2	770	0.97	0.130
REP 1493788	QC	<2																			
Reference Materials																					
STD DS9	Standard		14.7	110.2	126.6	320	2.0	42.9	8.0	610	2.44	25.2	111.1	6.7	72	2.4	5.0	6.4	45	0.72	0.087
STD DS9	Standard		12.8	115.5	136.9	329	2.1	43.0	8.1	583	2.33	25.4	137.3	6.6	66	2.3	4.4	4.6	44	0.75	0.076
STD DS9	Standard		12.4	99.4	125.1	313	1.8	39.5	7.2	577	2.29	28.2	106.4	6.6	74	2.4	5.0	5.9	39	0.68	0.083
STD DS9	Standard		14.1	118.5	123.7	308	1.9	43.1	8.6	593	2.39	26.1	118.3	6.4	64	2.4	4.7	5.6	47	0.73	0.084
STD DS9	Standard		14.4	112.9	124.9	315	2.0	43.8	7.7	627	2.40	25.7	133.7	6.1	75	2.4	5.8	6.6	47	0.75	0.083
STD DS9	Standard		13.9	113.6	133.0	317	1.8	43.0	7.8	594	2.48	27.0	154.3	6.8	75	2.2	5.6	6.7	45	0.74	0.085
STD DS9	Standard		13.1	106.0	116.5	311	1.9	39.9	7.7	588	2.39	25.6	104.6	6.4	75	2.6	5.3	6.3	45	0.71	0.087
STD DS9	Standard		12.8	98.9	117.4	294	2.1	35.9	6.8	552	2.24	24.1	116.8	6.0	68	2.3	4.9	6.1	41	0.64	0.077
STD DS9	Standard		13.1	108.4	122.2	317	1.7	39.6	7.6	572	2.31	24.9	106.4	5.8	72	2.5	4.4	6.0	44	0.70	0.074
STD OREAS45CA	Standard		1.1	532.5	19.1	62	0.3	253.3	90.7	912	16.78	4.1	48.4	7.1	15	0.1	0.1	0.1	217	0.42	0.037
STD OREAS45CA	Standard		1.0	575.4	21.2	65	0.3	273.2	97.9	982	17.25	3.6	42.0	7.6	14	<0.1	<0.1	0.1	225	0.44	0.037
STD OREAS45CA	Standard		0.8	492.6	18.6	64	0.3	245.6	87.7	943	17.26	4.6	50.5	6.8	15	<0.1	0.2	0.2	205	0.42	0.039
STD OREAS45CA	Standard		1.0	544.2	19.3	59	0.3	266.1	99.1	929	16.63	4.3	35.2	7.2	13	0.1	0.2	0.2	217	0.41	0.038
STD OREAS45CA	Standard		1.0	537.7	19.4	62	0.3	268.9	96.6	981	17.08	3.7	44.3	7.2	14	0.1	0.2	0.2	234	0.45	0.040
STD OREAS45CA	Standard		1.0	516.9	20.0	63	0.3	250.0	90.2	967	17.74	4.2	51.2	7.3	15	<0.1	0.1	<0.1	216	0.47	0.041
STD OREAS45CA	Standard		0.9	533.4	19.6	62	0.3	254.2	89.1	925	16.80	3.8	42.0	7.0	11	0.1	0.1	0.2	221	0.43	0.039
STD OREAS45CA	Standard		1.2	495.5	19.4	61	0.3	237.0	85.7	907	16.14	4.3	42.9	6.6	16	0.1	0.2	0.2	216	0.42	0.041
STD OREAS45CA	Standard		0.8	526.0	18.9	59	0.2	258.6	91.4	884	15.87	4.0	43.0	6.8	14	<0.1	0.1	0.1	220	0.41	0.036



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QUALITY CONTROL REPORT

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		1DX La ppm 1	1DX Cr ppm 1	1DX Mg % 0.01	1DX Ba ppm 1	1DX Ti % 0.001	1DX B ppm 20	1DX Al % 0.01	1DX Na % 0.001	1DX K % 0.01	1DX W ppm 0.1	1DX Hg ppm 0.01	1DX Sc ppm 0.1	1DX Ti ppm 0.1	1DX S % 0.05	1DX Ga ppm 1	1DX Se ppm 0.5	1DX Te ppm 0.2
1493734	Soil	11	21	0.71	157	0.022	<20	1.03	0.013	0.20	<0.1	0.26	1.8	0.6	0.11	3	8.6	<0.2
REP 1493734	QC																	
1493735	Soil	13	51	1.79	192	0.058	<20	1.88	0.009	0.38	1.8	0.12	3.9	0.7	<0.05	5	7.1	<0.2
REP 1493735	QC	13	51	1.76	195	0.058	<20	1.85	0.010	0.39	1.1	0.12	4.0	0.7	<0.05	5	6.3	<0.2
1493753	Soil	12	19	0.93	205	0.012	<20	1.00	0.003	0.12	0.1	0.05	2.6	0.5	0.11	2	1.7	<0.2
REP 1493753	QC																	
1493771	Soil	8	44	3.93	333	0.081	<20	2.61	0.024	0.83	0.3	0.07	4.9	1.8	<0.05	8	1.0	<0.2
REP 1493771	QC	8	43	4.08	340	0.080	<20	2.69	0.023	0.83	0.3	0.06	5.0	1.9	<0.05	7	1.0	<0.2
1493788	Soil	7	117	6.50	334	0.109	<20	5.00	0.006	0.40	0.2	0.07	6.6	1.4	<0.05	14	2.6	<0.2
REP 1493788	QC																	
Reference Materials																		
STD DS9	Standard	13	127	0.63	329	0.119	<20	0.96	0.087	0.35	2.7	0.21	2.6	5.7	0.11	5	5.5	4.8
STD DS9	Standard	15	129	0.61	336	0.114	<20	0.90	0.083	0.37	2.9	0.21	2.5	6.0	<0.05	5	6.2	5.4
STD DS9	Standard	12	118	0.60	326	0.111	<20	0.92	0.080	0.37	2.8	0.21	2.5	5.3	<0.05	4	4.4	4.6
STD DS9	Standard	13	129	0.63	318	0.110	<20	0.93	0.081	0.37	3.0	0.19	2.4	5.6	0.17	4	5.8	5.5
STD DS9	Standard	12	131	0.64	344	0.121	<20	0.96	0.089	0.37	2.8	0.19	2.8	5.6	0.20	5	5.8	4.9
STD DS9	Standard	14	127	0.68	339	0.119	<20	0.96	0.079	0.37	3.5	0.21	2.3	6.0	0.19	5	5.4	5.7
STD DS9	Standard	12	122	0.61	333	0.117	<20	0.92	0.083	0.37	2.9	0.20	2.7	5.2	0.23	5	6.4	5.0
STD DS9	Standard	12	115	0.58	322	0.101	<20	0.88	0.081	0.35	2.7	0.20	2.3	5.3	0.15	4	5.1	4.8
STD DS9	Standard	13	130	0.57	319	0.115	<20	0.88	0.080	0.36	2.5	0.21	2.7	5.1	0.14	5	4.6	5.4
STD OREAS45CA	Standard	15	791	0.14	163	0.142	<20	3.66	0.012	0.07	<0.1	0.03	46.7	<0.1	<0.05	19	<0.5	<0.2
STD OREAS45CA	Standard	16	859	0.16	170	0.144	<20	3.83	0.013	0.07	<0.1	0.04	50.7	0.1	<0.05	21	1.0	<0.2
STD OREAS45CA	Standard	16	720	0.15	174	0.147	<20	3.71	0.012	0.07	<0.1	0.04	44.6	<0.1	<0.05	20	<0.5	<0.2
STD OREAS45CA	Standard	16	851	0.13	157	0.132	<20	3.48	0.011	0.07	<0.1	0.04	44.5	<0.1	<0.05	18	0.6	<0.2
STD OREAS45CA	Standard	16	820	0.15	169	0.146	<20	3.61	0.011	0.07	<0.1	0.03	45.7	<0.1	<0.05	18	1.4	<0.2
STD OREAS45CA	Standard	16	732	0.16	165	0.143	<20	3.76	0.014	0.07	<0.1	0.02	47.4	<0.1	<0.05	19	1.7	<0.2
STD OREAS45CA	Standard	15	757	0.14	171	0.140	<20	3.59	0.012	0.07	<0.1	0.04	45.7	<0.1	<0.05	19	0.9	<0.2
STD OREAS45CA	Standard	15	730	0.15	170	0.126	<20	3.45	0.013	0.07	<0.1	0.04	47.4	<0.1	<0.05	18	<0.5	<0.2
STD OREAS45CA	Standard	15	771	0.14	155	0.153	<20	3.65	0.011	0.07	<0.1	0.03	44.0	<0.1	<0.05	18	0.7	<0.2



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QUALITY CONTROL REPORT

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		3B Au ppb 2	1DX Mo ppm 0.1	1DX Cu ppm 0.1	1DX Pb ppm 0.1	1DX Zn ppm 1	1DX Ag ppm 0.1	1DX Ni ppm 0.1	1DX Co ppm 0.1	1DX Mn ppm 1	1DX Fe % 0.01	1DX As ppm 0.5	1DX Au ppb 0.5	1DX Th ppm 0.1	1DX Sr ppm 1	1DX Cd ppm 0.1	1DX Sb ppm 0.1	1DX Bi ppm 0.1	1DX V ppm 2	1DX Ca % 0.01	1DX P % 0.001
STD OXA71	Standard	70																			
STD OXA71	Standard	83																			
STD OXA71	Standard	71																			
STD OXA71	Standard	78																			
STD OXA71	Standard	78																			
STD OXA71	Standard	77																			
STD OXA71	Standard	85																			
STD OXA71	Standard	84																			
STD OXA71	Standard	83																			
STD OXA71	Standard	82																			
STD OXA71	Standard	72																			
STD OXA71	Standard	75																			
STD OXA71	Standard	83																			
STD OXA71	Standard	84																			
STD OXA71	Standard	75																			
STD OXA71	Standard	72																			
STD OXA71	Standard	78																			
STD OXA71	Standard	70																			
STD OXA71	Standard	78																			
STD OXA71	Standard	77																			
STD OXA71	Standard	74																			
STD OXA71	Standard	79																			
STD OXA71	Standard	83																			
STD DS9 Expected		12.84 108 126 317 1.83 40.3 7.6 575 2.33 25.5 118 6.38 69.6 2.4 4.94 6.32 40 0.7201 0.0819																			
STD OREAS45CA Expected		1 494 20 60 0.275 240 92 943 15.69 3.8 43 7 15 0.1 0.13 0.19 215 0.4265 0.0385																			
STD OXA71 Expected		84.9																			
BLK	Blank	<0.1 0.1 <0.1 <1 <0.1 <0.1 <0.1 <1 <0.01 <0.5 <0.5 <0.1 <1 <0.1 <0.1 <0.1 <2 <0.01 <0.001																			
BLK	Blank	<0.1 <0.1 <0.1 <1 <0.1 <0.1 <0.1 <1 0.01 <0.5 <0.5 <0.1 <1 <0.1 <0.1 <0.1 <2 <0.01 <0.001																			
BLK	Blank	<2																			



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QUALITY CONTROL REPORT

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		1DX La ppm 1	1DX Cr ppm 1	1DX Mg % 0.01	1DX Ba ppm 1	1DX Ti % 0.001	1DX B ppm 20	1DX Al % 0.01	1DX Na % 0.001	1DX K % 0.01	1DX W ppm 0.1	1DX Hg ppm 0.01	1DX Sc ppm 0.1	1DX Ti ppm 0.1	1DX S % 0.05	1DX Ga ppm 1	1DX Se ppm 0.5	1DX Te ppm 0.2
STD OXA71	Standard																	
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STD DS9 Expected		13.3	121	0.6165	330	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
STD OREAS45CA Expected		15.9	709	0.1358	164	0.128		3.592	0.0075	0.0717		0.03	39.7	0.07	0.021	18.4	0.5	
STD OXA71 Expected																		
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank																	



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Project:

Ben Property

Report Date:

August 24, 2012

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		3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
		Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
BLK	Blank	<2																			
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BLK	Blank	<2																			
BLK	Blank		<0.1	<0.1	<0.1	1	<0.1	0.3	<0.1	<1	0.02	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	0.01	<0.001
BLK	Blank		<0.1	0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	0.02	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	4	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	4	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	3	<0.01	<0.001
BLK	Blank	<2																			
BLK	Blank	<2																			
BLK	Blank	<2																			
BLK	Blank	<2																			

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