VEGETATION MONITORING AT THE EAGLE GOLD PROJECT INCLUDING SOIL SAMPLING AT D-2B AND D-4B, 2019

(Section 12 of the EMSAMP, Version 2019-02)

For

Victoria GOLD CORP

Submitted by

Laberge Environmental Services

November 2019

TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

1.0 INTRODUCTION

The vegetation monitoring program has been designed to evaluate changes to metal deposition and uptake within vegetation during the construction and operational phases of the Project. Specifically, metal burden in and on plant tissues is measured annually during the growing season of each year to help identify whether any trends may be attributed to the Project. The 2019 survey is the second year of the program.

The Environmental Monitoring, Surveillance and Adaptive Management Plan (EMSAMP), Version 2019-02, indicates four areas located within the Project area for the establishment of permanent vegetation plots. These sites are also the locations for the Soils Program and the dust fall installations.

2.0 METHODS

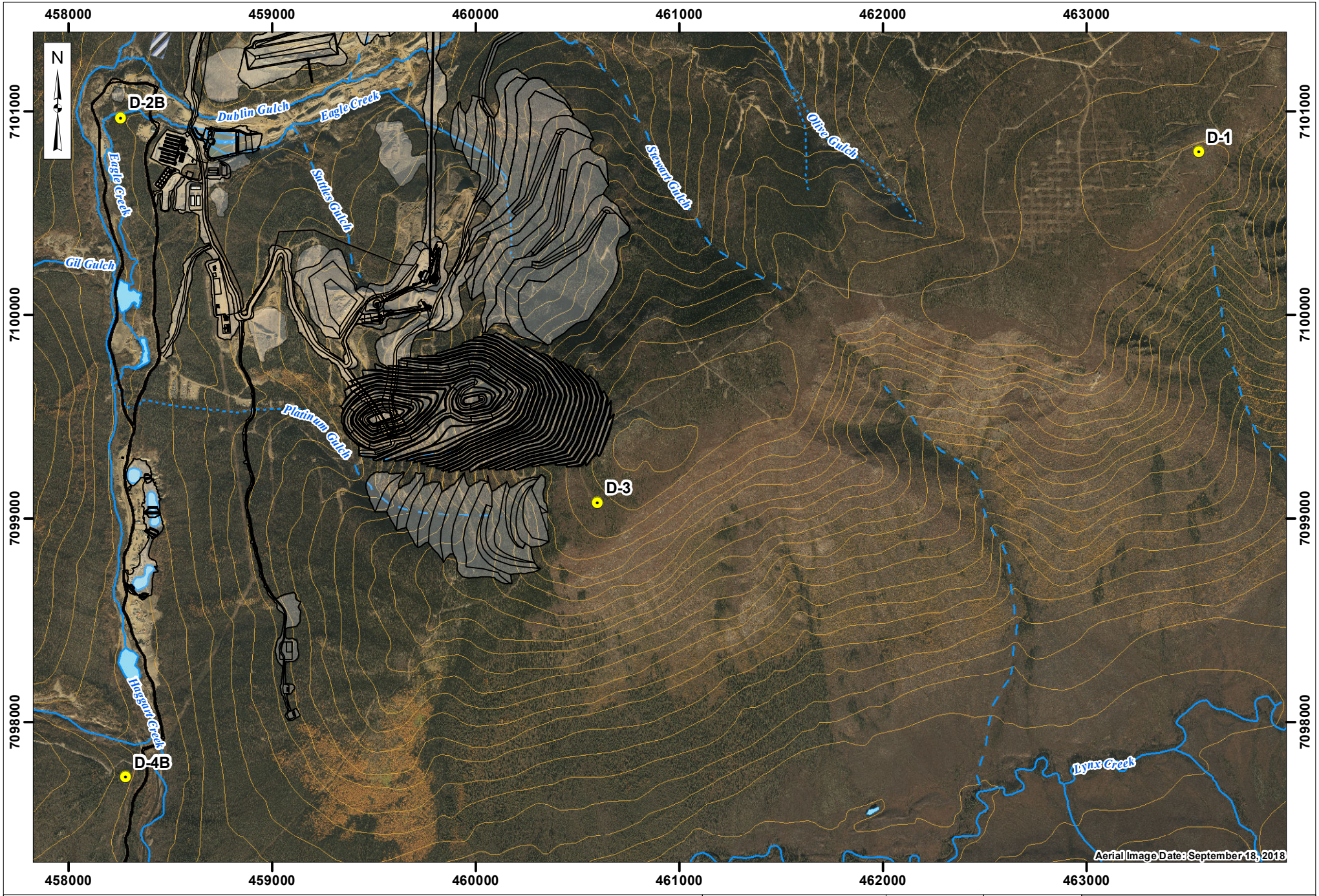
Four sites were established in each of the identified quadrants with initial assessments and collections completed in early August 2018 (Laberge, 2018a). Two of these original sites (D-1 and D-3) were assessed and sampled again on July 11, 2019. Due to construction requirements, alternate sites for D-2 (approximately 70 m from original site) and D-4 (approximately 300 m south of the original site) were established and sampled as D-2B on July 10, 2019 and D-4B on July 12, 2019, respectively.

Descriptions and locations are detailed in Table 1 and displayed on Figure 1. The coordinates of each site represent the centre point of that site. Four corner points were then established in cardinal directions 10 metres from the centre. The plot layout is represented in Figure 2. Each of these five points were identified with fluorescent painted half-inch diameter rebar, 50 cm long. Circle plots of one-meter radius, were flagged around each rebar. The EMSAMP states that foliar samples of willow, sedge, bluejoint and northern rough fescue are to be collected within these two-meter diameter plots. As each of these four vegetation sites are located in different ecosystem units, not all species were present at each site and substitutions were made where applicable.

TABLE 1 LOCATION AND DESCRIPTION OF VEGETATION SITES

Site #	NAD 83 Zone 8W		Aspect	Elevation (m)	Site Description
	Easting	Northing			
D-1	463550	7100803	level	1417	Potato Hills near climate station
D-2B	458256	7100972	west	791	Upslope of the air quality station and the camp climate station, south side of Eagle Cr
D-3	460598	7099079	south west	1356	Top of Eagle Pup near the over-the-top road
D-4B	458279	7097731	east	751	On the west side of the access road south of the Haggart Cr culverts and the power line

New disposable nitrile gloves were worn for each collection and tissues were placed in resealable plastic bags. Where possible, separate samples were collected for willow leaves and the current season's growth of twigs. Willow foliar samples were collected from each quadrant. Due to their presence at most of the plots, and the fact they also have reasonable surface area for dust deposits, dwarf birch leaves were also sampled. Sedge and bluegrass were not present in collectable quantities at any of the sites. Fescue biomass was sufficient for collection at sites D-1, D-2B and D-3.



Legend:

- Vegetation & Soils Monitoring Locations
- Facility
- Reserved Area
- Contour (100ft)
- Perennial
- Ephemeral
- Intermittent

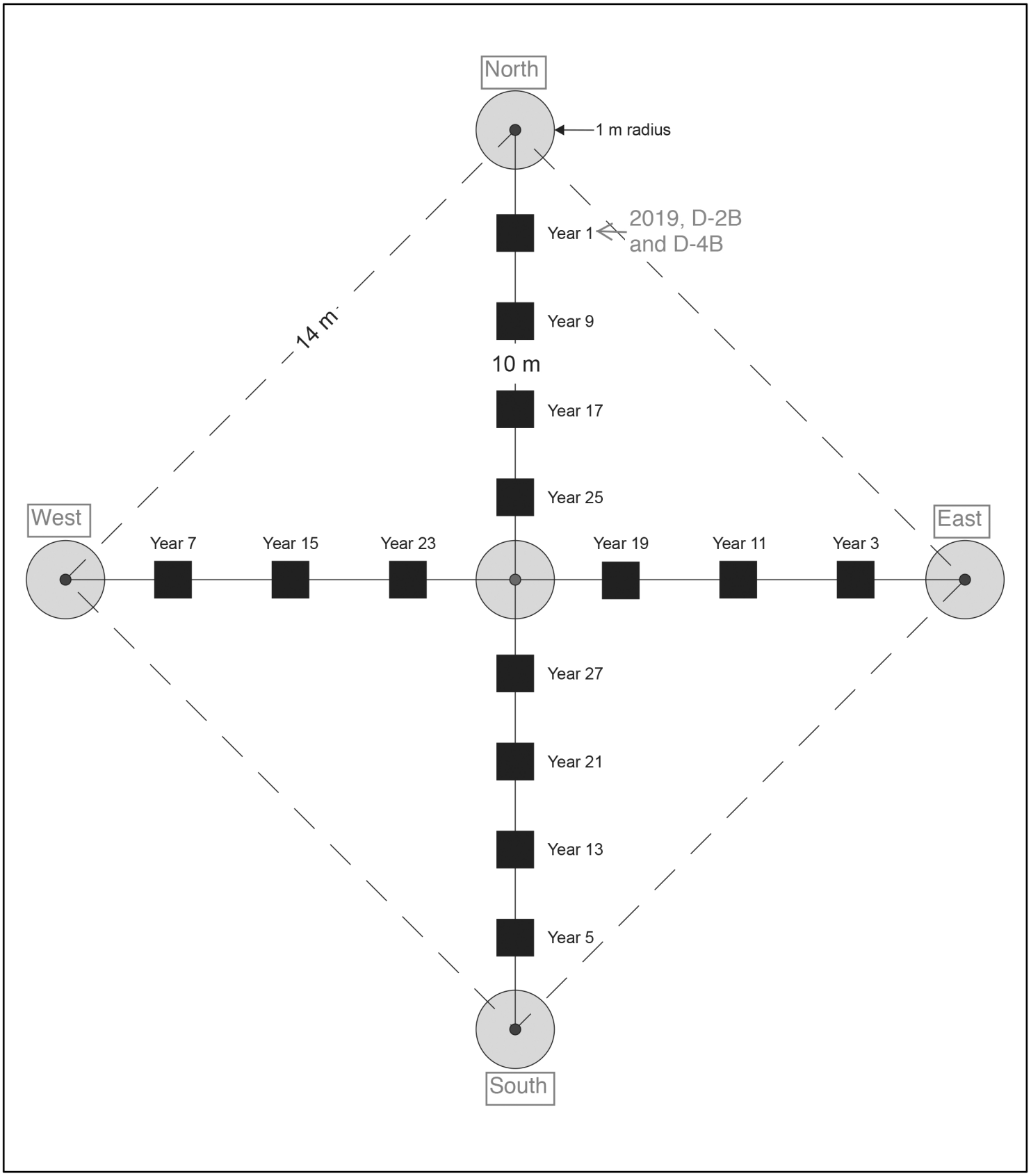
Victoria GOLD CORP

0 350 700
Meters

Projection:	Drawn By:
NAD 83 UTM Zone 8N	HC
Date:	Figure:
20191106	1

EAGLE GOLD PROJECT
YUKON TERRITORY

Vegetation and Soil Monitoring Locations



Legend:

1 m radius

Vegetation sample plot locations; painted ½ inch rebar to locate centre and corner plots; foliar samples collected every other year.

Soil sampling locations, surface horizon between 0 and 0.5 m depths; one sample every other year.

StrataGold Corporation

EAGLE GOLD PROJECT
YUKON TERRITORY

Vegetation and Soil Monitoring Plot Layout

Projection:	Drawn By:	Date:	Figure:
N/A	SS	2014/07/02	2

A total of 53 foliar samples were collected and kept cool until delivered to the ALS laboratory in Whitehorse, Yukon. After the samples were logged in, they were frozen and shipped to the ALS lab in Burnaby, BC, for analysis. The foliar samples were homogenized and sub-sampled prior to hot-block digestion with nitric and hydrochloric acids, in combination with the addition of hydrogen peroxide. Metals were analyzed using collision cell inductively coupled plasma-mass spectrometry. Analysis for mercury was done by atomic fluorescence or atomic absorption spectrophotometry.

Soil samples were collected as per the protocols detailed in the EMSAMP (2019-02) for D-2B and D-4B on July 12, 2019 to provide initial soil characterization. Specifically, one soil sample was collected from each site, 2.5 m in from the north plot as indicated by "Year 1" on Figure 2. Samples were collected with a stainless steel trowel from a depth of 0 to 0.5 m below the litter layer. Samples were transferred into clean glass jars for metal analysis and into resealable plastic bags for the remaining analyses. New nitrile gloves were worn prior to sampling to prevent cross-contamination between sites. Samples were kept cool until delivered to the ALS lab/depot in Whitehorse, Yukon. Samples were analyzed for pH, metals, and available nitrite, nitrate, phosphate and potassium.

3.0 RESULTS

3.1 Description of the Vegetation Sites

The four roughly 200m^2 established sites lie within two ecological zones; the Subalpine Zone where the elevation is greater than 1225 masl and the Forested Zone which includes the treed areas on the mountain slopes and the valley bottoms (Stantec, 2011b). D1 and D3 are located in the Subalpine Zone and D-2B and D-4B are in the Forested Zone. Selected photographs of the sites are presented in Appendix B.

D-1

D-1 is situated approximately 30 meters west of the Potato Hills Climate station upgradient of significant Project infrastructure. Stantec (2011b) conducted ecosystem mapping throughout the Eagle Gold Project area in 2009. The polygon that contains D-1 is classified as 50% Dwarf Birch and Lichen, 40% Dwarf Birch and Northern Rough Fescue and 10% Subalpine Fir, Dwarf Birch, Crowberry and Lichens (Stantec, 2011b, Appendix 11, Part 1).

Within the 14 meter square boundary of D-1, as observed in 2018, dwarf birch was the dominant species followed by willow. Tree species were solitary sporadic subalpine fir as well as one white spruce. There was exposed rock and talus throughout the site with the majority encrusted with lichen. A diversity of forbs was noted. The following plants were identified within D-1:

Common Name	Scientific Name
Subalpine Fir	*Abies lasiocarpa*
White Spruce	*Picea glauca*
Dwarf Birch	*Betula glandulosa*
Willow	*Salix* sp
Diamond Leaf Willow	*Salix pulcha*
Willow	*Salix richardsonii*
Labrador Tea	*Rhododendron groenlandicum*
Northern Labrador Tea	*Rhododendron tomentosum*
Low Bush Cranberry	*Vaccinium vitis-idaea*
Blueberry	*Vaccinium uliginosum*

Common Name	Scientific Name
Arctic White Heather	*Cassiope tetragona*
Crowberry	*Empetrum nigrum*
Colt's Foot	*Petasites frigidus* var. *sagittatus*
Lupine	*Lupinus arcticus*
Mountain Sagewort	*Artemisia norvegica*
Anemone	*Anemone narcissiflora*
Richardson's Anemone	*Anemone richardsonii*
Labrador lousewort	*Pedicularis labradorica*
Sudeten lousewort	*Pedicularis sudetica*
Spike Trisetum	*Trisetum spicatum*
Altai fescue	*Festuca altaica*
Bryum family moss	*Bryacea sp. – Pohlia nutans?*
Heron bill moss	*Dicranum sp. – D. acutifolium?*
Red-stemmed feather moss	*Pleurozium schreberi*
Haircap moss	*Polytrichum sp.*
Arctic butterfingers lichen	*Dactylina arctica*
Star reindeer lichen	*Cladina stellaris*
Grey reindeer lichen	*Cladina rangiferina*
Club lichen	*Cladonia* spp
Arctic kidney lichen	*Nephroma arcticum*
Alpine foam lichen	*Stereocaulon alpinum*
Rockstripe lichen	*Umbilicaria torrefacta*
Green crusticose lichen	*Aspicilia caesiocinerea*
Common freckle pelt lichen	*Peltigera aphthosa*
Caribou horn tumbleweed lichen	*Masonhalea richardsonii*

D-2B

D-2B was re-established in the Forested Zone east of the camp weather station on the south side of Eagle Creek, approximately 70 m south of the original D-2. Stantec (2011b) classified the polygon where D-2B is located as 80% Black spruce, Labrador Tea and Feathermoss and 20% Subalpine Fir, Crowberry and Lichen.

Tree species found within the boundary of site D-2B consisted of white spruce, trembling aspen, balsalm poplar and paper birch, which is consistent with the D-2 site located approximately 70 m away. Willows were the dominant shrub species. Equisetum and grasses were the dominant ground cover. Forbs and other shrubs were also present. Fox scat was observed in the plot.

The following plants were identified at D-2B:

Common Name	Scientific Name
Balsam poplar	*Populus balsamifera*
Trembling aspen	*Populus tremuloides*
White spruce	*Picea glauca*
Alaska paper birch	*Betula neoalaskana*
Green alder	*Alnus viridis*
Kinnikinnick	*Arctostaphylos uva-ursi*
Black crowberry	*Empetrum nigrum*

Common Name	Scientific Name
Diamond Leaf Willow	*Salix pulchra*
Scouler's Willow	*Salix scouleriana*
Felt-leaf willow	*Salix alaxensis*
Little-tree willow	*Salix arbusculoides*
Grey-leaved willow	*Salix glauca*
Blueberry willow	*Salix myrtillifolia*
Dwarf Birch	*Betula glandulosa*
Labrador Tea	*Rhododendron groenlandicum*
Low Bush Cranberry	*Vaccinium vitis-idaea*
Bog blueberry	*Vaccinium uliginosum*
Prickly rose	*Rosa acicularis*
Soapberry	*Shepherdia canadensis*
Alpine milk-vetch	*Astragalus alpinus*
Fireweed	*Chamerion angustifolium*
Alpine sweet-vetch	*Hedysarum alpinum*
Arctic sweet coltsfoot	*Petasites frigidus*
Wintergreen	*Pyrola sp.*
Small tofieldia	*Tofieldia pulsilla*
Common horsetail	*Equisetum arvense*
Dwarf scouring-rush	*Equisetum scirpoides*
Small sedge	*Carex sp.*
Altai fescue	*Festuca altaica*
Fire moss	*Ceratadon purpureus*
Step moss	*Hylocomium splendens*
Red-stemmed feather moss	*Pleurozium schreberi*
Star reindeer lichen	*Cladina stellaris*
Grey reindeer lichen	*Cladina rangiferina*
Club lichen	*Cladonia spp.*
Crinkled snow lichen	*Flavocetraria nivalis*
Common freckle pelt lichen	*Peltigera apthosa*
Alpine foam lichen	*Stereocaulon alpinum*

D-3

D-3 is located in a subalpine setting above Platinum Gulch accessed by the over-the-top road. The ecosystem classification in the polygon where D-3 is situated is 50% Dwarf Birch and Northern Rough Fescue, 40% Dwarf birch and Lichen, and 10% Subalpine Fir, Dwarf Birch, Crowberry and lichens (Stantec, 2011b).

As observed in 2018, within the boundaries of D-3, dwarf birch was the dominant species with scattered subalpine fir and white spruce. Willows, berry bushes, lichens and moss were also present.

The following plants were identified at D-3:

Common Name	Scientific Name
Subalpine Fir	*Abies lasiocarpa*
White Spruce	*Picea glauca*

Common Name	Scientific Name
Grey-leaved Willow	*Salix glauca*
Diamond Leaf Willow	*Salix pulchra*
Dwarf Birch	*Betula glandulosa*
Low Bush Cranberry	*Vaccinium vitis-idaea*
Blueberry	*Vaccinium uliginosum*
Crowberry	*Empetrum nigrum*
Labrador tea	*Rhododendron groelandicum*
Labrador Lousewort	*Pedicularis labradorica*
Anemone	*Anemone narcissiflora*
Mountain sagewort	*Artemisia norvegica*
Caespitose fleabane	*Erigeron caespitosus*
Labrador lousewort	*Pedicularis labradorica*
Altai fescue	*Festuca altaica*
Woodrush	*Luzula parviflora*
Glow moss	*Aulacomnium palustre*
Broom moss	*Dicranum sp. – D. acutifolium?*
Haircap moss	*Polytricum sp*
Red-stemmed feather moss	*Pleurozium schreberi*
True Iceland lichen	*Cetraria islandica*
Club lichens	*Cladonia spp.*
Crinkled snow lichen	*Flavocetraria nivalis*
Arctic kidney lichen	*Nephroma arcticum*
Star reindeer lichen	*Cladina stellaris*
Caribou horn	*Masonhalea richardsonii*
Common freckle pelt lichen	*Peltigera aphthosa*

D-4B

D-4B is located in the Forested Zone downstream of the Haggart Creek culverts on the west side of the road just past the power line in an undisturbed area of the natural forest. The ecosystem classification in the polygon in which D-4B is situated is 60% subalpine fir, crowberry and lichens, 30% black spruce, Labrador tea and feathermoss and 10% Alaska paper birch, white spruce and willow (Stantec 2011b). This is somewhat different to the classification of D-4, which was located in the Haggart Creek floodplain, and classified as river/creek system with gravel bars and 20% as an ecosystem type of White Spruce and Horsetail.

Alaska paper birch, white spruce, black spruce and trembling aspen were the tree species identified within the boundaries of plot D-4B. Many species of shrubs dominated the site notably willows and dwarf birch. Moss and lichens were common.

The following plants were identified at D-4B:

Common Name	Scientific Name
Alaska paper birch	*Betula neoalaskana*
White spruce	*Picea glauca*
Black spruce	*Picea mariana*
Trembling aspen	*Populus tremuloides*
Green alder	*Alnus viridis*

Common Name	Scientific Name
Red bearberry	*Arctos rubra*
Glandular scrub birch	*Betula glandulosa*
Water birch	*Betula occidentalis*
Shrubby cinquefoil	*Dasiphora fruticose*
Black crowberry	*Empetrum nigrum*
Labrador tea	*Rhododendron groenlandicum*
Prickly rose	*Rosa acicularis*
Arctic willow	*Salix arctica*
Barclay's willow	*Salix barclayi*
Bebb's willow	*Salix bebbiana*
Grey-leaved willow	*Salix glauca*
Blueberry willow	*Salix myrtillifolia*
Diamond leaved willow	*Salix pulchra*
Small cranberry	*Vaccinium oxycoccos*
Bog blueberry	*Vaccinium uliginosum*
Lowbush cranberry	*Vaccinium vitis-idaea*
Arctic lupine	*Lupinus arcticus*
Tall bluebells	*Mertensia paniculate*
Labrador lousewort	*Pedicularis labradorica*
Arctic sweet coltsfoot	*Petasites frigidus*
Hooded ladies' tresses	*Spiranthes romanzoffiana*
Small tofieldia	*Tofieldia pulsilla*
Common horsetail	*Equisetum arvense*
Dwarf scouring rush	*Equisetum scirpoides*
Woodland horsetail	*Equisetum sylvaticum*
Bristly club-moss	*Lycopodium annotinum*
Polar grass	*Arctagrostis latifolia*
Bigelow sedge	*Carex consimilis*
Glow moss	*Aulacomnium palustre*
Bryum family moss	*Bryacease sp. – Pohlia nutans?*
Broom mosses	*Dicranum spp.*
Red-stemmed feather moss	*Pleurozium schreberi*
Haircap moss	*Polytricum sp.*
Narrow-leaved peat moss	*Sphagnum angustifolium?*
Warnstorf's peat moss	*Sphagnum warnstorfii?*
Golden fuzzy fen moss	*Tomenthypnum nitens*
True Iceland lichen	*Cetraria islandica*
Grey reindeer lichen	*Cladina rangiferina*
Star reindeer lichen	*Cladina stellaris*
Club lichens	*Cladonia spp.*
Crinkled snow lichen	*Flavocetraria nivalis*
Candy lichen	*Icmadophila ericetorum*
Reindeer tumbleweed lichen	*Masonhalea richardsonii*
Arctic kidney lichen	*Nephroma arcticum*
Common freckle pelt lichen	*Peltigera apthosa*
Undulating pelt lichen	*Peltigera neopolydactyla*

3.2 2019 Metals Data in Vegetation

Foliar samples were collected from each site and where possible from each of the five plots at each site (Table 2). Willows were collected from most of the plots, followed by dwarf birch. The majority of the willows were *Salix pulchra*, diamond leaf willow, and this species was present at all of the sites. There was insufficient biomass for individual samples of fescue (*Festuca altaica*) from each plot so collections were made throughout the sites D-1 and D-3. Due to the relocation of plots D-2 and D-4, two species that were not sampled in 2018 were collected in 2019; paper birch and equisetum.

TABLE 2 FOLIAR SAMPLES COLLECTED PER PLOT, 2019

SITE #	PLOT #	WILLOW LEAVES	WILLOW TWIGS	DWARF BIRCH LEAVES	EQUISETUM	FESCUE	PAPER BIRCH LEAVES	PAPER BIRCH TWIGS
D-1	Centre	√	√	√		Collected throughout site		
	North	√	√	√				
	East	√	√	√				
	South	√	√	√				
	West	√	√	√				
D-2B	Centre	√	√			√		
	North	√	√		√			
	East						√	√
	South	√		√				
	West	√	√					
D-3	Centre	√	√	√		Collected throughout site		
	North	√	√	√				
	East	√		√				
	South	√		√				
	West	√	√	√				
D-4B	Centre			√	√			
	North	√	√		√			
	East	√		√				
	South	√	√					
	West	√		√				
# of individual samples:		18	13	14	3	3	1	1

The analytical reports for monitored vegetation species and plots are presented in Appendix A. Samples were analyzed for a suite of 34 metals including mercury.

The range of concentrations of each parameter for all vegetation types per site is summarized in Table A-1 (in Appendix A). There are no territorial or federal guidelines regarding metal concentrations in vegetation with respect to wildlife consumption (e.g., moose and/or caribou). For reference, Stantec (2011b) compared the 2009 Eagle Gold foliar data to the dietary tolerances for beef cattle (Puls, 1994). These toxic values have also been included in Table A-1. For the

majority of the metals compared against these same dietary tolerances, concentrations in the 2019 foliar samples were well below these levels. The exception to this was manganese and selenium. Dwarf birch leaves from the east and north plots at D-1 and the east plot at D-3 slightly exceeded the low end of the manganese toxic threshold of 2000 mg/kg (analytical report, Appendix A). This was a similar result as noted in the 2018 sampling program. The toxic threshold for selenium was exceeded in one equisetum tissue sample collected from the north plot of D-2B, however all other selenium samples within the D-2B plot were well below the selenium guideline. In comparison, selenium concentrations in the 2018 samples were well below the toxic threshold. Barium does not have a toxic threshold, however a concentration of 20 mg/kg was considered high by Puls (1994). This value was exceeded in many of the foliar samples collected from all of the sites in both 2018 and 2019.

Potential emissions related to the gold recovery process include the metals arsenic, cadmium, chromium, mercury and lead (EMSAMP, 2019-02). These metals have been averaged per vegetation type for the five collection plots at each site and compared to the beef cattle dietary tolerances as above (Table 3).

TABLE 3 SELECTED METAL CONCENTRATIONS (mg/kg) PER TISSUE TYPE

Plot #	Tissue	N	Arsenic	Cadmium	Chromium	Lead	Mercury
D1	Dwarf Birch	5	0.136	0.174	0.101	0.070	0.0053
D2	Dwarf Birch	1	1.28	0.123	0.200	0.262	0.0055
D3	Dwarf Birch	5	0.835	0.149	0.178	0.297	0.0056
D4B	Dwarf Birch	3	1.035	0.137	0.182	0.234	0.0061
D2	Equisetum	1	0.583	1.03	0.135	0.107	0.0053
D4B	Equisetum	2	0.545	0.803	0.147	0.086	0.0070
D1	Fescue	1	0.104	0.0770	0.173	0.143	ND
D2	Fescue	1	1.28	0.0779	0.292	0.208	ND
D3	Fescue	1	0.669	0.0390	0.474	0.334	ND
D2	Paper Birch leaves	1	1.88	0.464	0.394	0.464	0.0058
D2	Paper Birch twigs	1	0.514	0.771	0.155	0.174	ND
D1	Willow leaves	5	0.167	2.066	0.105	0.113	0.0067
D2	Willow Leaves	4	1.65	3.56	0.208	0.324	0.0064
D3	Willow leaves	5	1.267	1.761	0.259	0.377	0.0071
D4B	Willow leaves	4	1.00	1.61	0.173	0.171	0.0058
D1	Willow twigs	5	0.132	2.406	0.255	0.194	ND
D2	Willow twigs	3	1.00	2.74	0.393	0.213	ND
D3	Willow twigs	3	1.03	1.05	0.392	0.347	ND
D4B	Willow twigs	2	0.876	0.852	0.242	0.155	ND
Toxicity thresholds for beef cattle (Puls, 1994):			>10	50 - 500	>40	>100	N/A

ND = not detected N/A = not applicable

The above data was sorted from lowest concentration to highest and charted on Figure 3 to help assess potential relationships between tissue type and location. Mercury was not charted due to the high number of non-detections. Tissues collected from D-1 had the lowest concentration of arsenic with similar values per tissue type. The greatest concentration of arsenic was documented in paper birch leaves (N=1) sampled for the first time in 2019 from the newly established site of D-2B. Slightly higher concentrations than this were reported in some single collections of willow leaves but when these were averaged per site, the overall concentration for that tissue type was

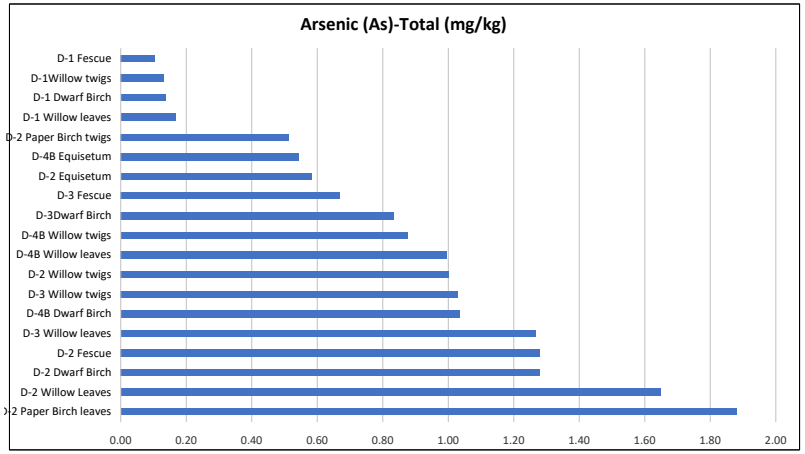
lowered. Levels were also high in the other tissue types collected at D-2B with the exception of equisetum. These results are similar to that reported for the 2018 sampling program. Although there is not a toxic threshold for arsenic, the value given in Table 3 and Table A-1 indicates a normal or adequate concentration; all concentrations were less than this.

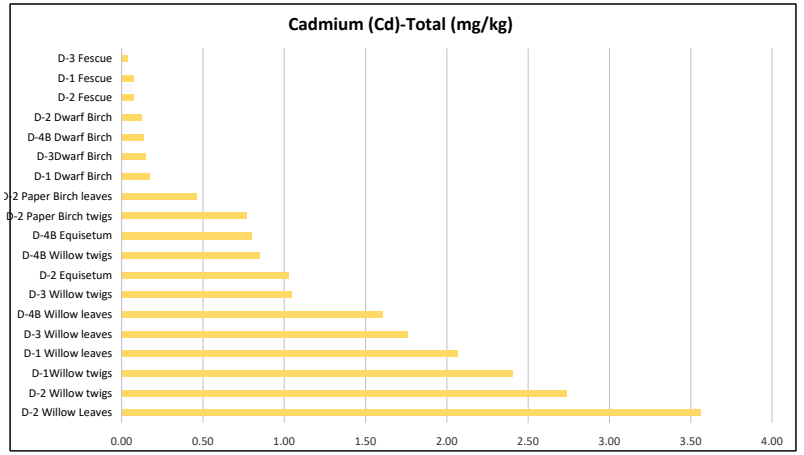
Cadmium concentrations were very low in the fescue and dwarf birch tissues unrelated to the site they were collected from. The highest levels of cadmium were documented in the willow leaves collected from D-2B. Willow leaves and twigs from the other sites also had higher levels. However, these values are consistent with the findings from 2018 and are very low and well below the referenced toxic level (Table A-1).

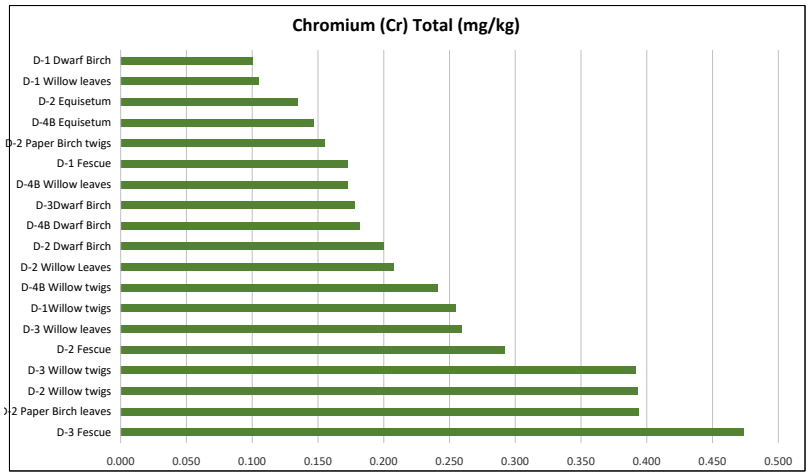
Chromium and lead concentrations varied somewhat but there was no site nor tissue type that had consistently higher or lower concentrations, and as in 2018 none of the concentrations exceeded the toxic levels for beef cattle dietary tolerance.

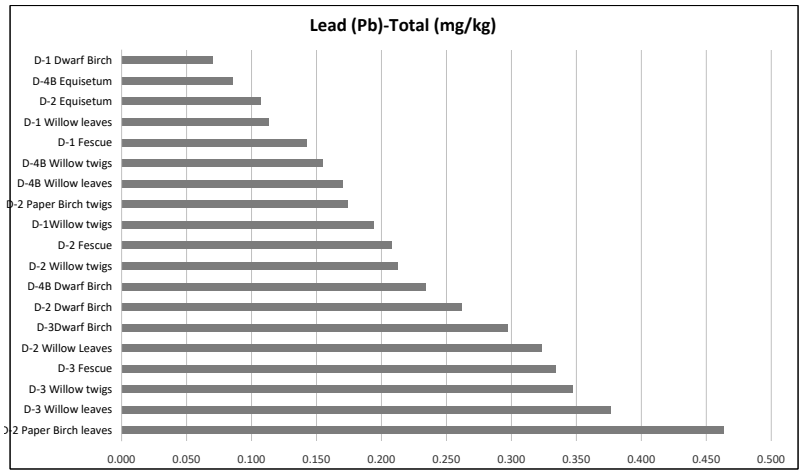
Mercury levels were very low in the tissues at all of the sites (no exceedances) and were not detected in any of the willow or paper birch twigs or in the fescue tissues.

FIGURE 3 **GRAPHICAL REPRESENTATION OF THE RANGE OF METALS IN VEGETATION TISSUES**









3.3 Previous Vegetation Data

The 2019 data can only be compared to 2018 data from the sites D-1 and D-3 as the other two sites were re-established in 2019. Concentrations were similar between the two years for arsenic, cadmium and mercury (Table 4). Levels of chromium and lead were consistently higher in the various tissues in 2019 than in 2018, although not by a great deal.

TABLE 4 COMPARISONS OF METAL CONCENTRATIONS (mg/kg) 2018 AND, 2019

Plot #		Tissue	N	Arsenic	Cadmium	Chromium	Lead	Mercury
D1	2019	Dwarf Birch	5	0.136	0.174	0.101	0.070	0.0053
	2018		5	0.187	0.187	ND	0.055	0.0054
	2019	Fescue	1	0.104	0.0770	0.173	0.143	ND
	2018		5	0.113	0.055	0.073	0.108	ND
	2019	Willow leaves	5	0.167	2.066	0.105	0.113	0.0067
	2018		5	0.187	1.758	ND	0.082	ND
	2019	Willow Twigs	5	0.132	2.406	0.255	0.194	ND
	2018		5	0.135	1.948	ND	0.154	ND
D3	2019	Dwarf Birch	5	0.835	0.149	0.178	0.297	0.0056
	2018		5	0.410	0.188	ND	0.066	0.005
	2019	Willow leaves	5	1.267	1.761	0.259	0.377	0.0071
	2018		1	0.551	1.05	ND	0.132	0.0055
	2019	Willow twigs	3	1.03	1.05	0.392	0.347	ND
	2018		1	0.311	1.03	0.068	0.102	ND

ND = not detected

In 2009, Stantec (2011b) had foliar tissues collected in the Eagle Gold study area analyzed for metal concentrations. Unfortunately, none of the nine sites sampled correlate to the sites established under the EMSAMP. Cantest completed the analyses and used much higher detection limits than the current study. The method detection limits (MDL) have decreased over time providing more precision for the lower concentrations of metals which are reported in the 2018 and 2019 tables. Complete comparisons therefore cannot be made as non-detected parameters in 2009 can now be detected. Of detected parameters in both studies, the greatest arsenic concentrations reported in the 2009 study occurred in grasses collected from a slope off the access road near Platinum Gulch, with a concentration of 0.4 mg/kg (Stantec, 2011b). This is lower than several of 2019 samples. Reported cadmium levels were much lower in the tissues sampled in 2009 than in 2018 and 2019.

3.4 Soil Analyses

Soil samples were collected from the re-established sites of D-2B and D-4B to provide initial baseline characterization for these areas and represents Year 1 (see Figure 2). Permafrost was encountered beneath the 12 cm moss layer at D-4B.

The two soil samples were analyzed for a range of parameters. The analytical report is presented in Appendix C.

The soil samples were sieved and based on the distribution of grain size less than 2mm, texture was determined (Table 5). The texture of the soil at both sites was classified as silt loam.

TABLE 5 PARTICLE SIZE AND TEXTURE		
Site	**D-2B**	**D-4B**
Date Sampled	July 12, 2019	July 12, 2019
% Sand (2.0mm - 0.05mm)	41.2	20.2
% Silt (0.05mm - 2um)	54.7	58.9
% Clay (<2um)	4.1	20.9
Texture	Silt loam	Silt loam

Nutrients and available plant nutrients were analyzed and summarized in Table 6. The soil at D-4B had a much greater total nitrogen content than D-2B. All available plant nutrients were below detection except for potassium. Potassium is a primary nutrient used in large quantities by plants. The range of 80 to 250 ppm is where plant growth is optimal (Legg, unknown year of publication). The soil at D-4B fell within this range.

TABLE 6 PLANT AVAILABLE NUTRIENTS		
Site	**D-2B**	**D-4B**
Date Sampled	July 12, 2019	July 12, 2019
Nutrients		
Total Nitrogen %	0.025	1.12
Plant Available Nutrients		
Nitrate+Nitrite-N (mg/kg)	<2.0	<5.0
Nitrate-N (mg/kg)	<2.0	<5.0
Nitrite-N (mg/kg)	<0.80	<2.0
Available Phosphate-P (mg/kg)	<2.0	<4.0
Available Potassium (mg/kg)	47	96

The soil samples were also analyzed for pH and a suite of 36 metals (Table C-1, Appendix C). The soil at D-2 was alkaline (8.23) and slightly acidic at D-4B (6.00). Of the 36 elements analyzed, boron and tin were not detected.

The most recent Canadian Council of Ministers of the Environment (CCME) guidelines, which include new guidelines from 2018, and the Yukon Contaminated Sites Regulations for agriculture and parklands were tabulated and compared to the concentrations found in the soils at D-2B and D-4B (Table 7). Arsenic, at D-2B, was the only parameter that exceeded the recommended guidelines, highlighted in red. This is most likely attributed to the naturally high arsenic found in the mineralized zones throughout the region (Stantec 2011a). The remaining elements met all of the guidelines and concentrations were very low.

TABLE 7 RANGE OF RESULTS COMPARED TO CCME AND YUKON AGRICULTURE AND PARKLAND GUIDELINES FOR METALS IN SOILS

Element	CCME (mg/kg)		Yukon CSR (mg/kg)		D-2B	D-4B
	Agriculture	Parkland	Agriculture	Parkland		
Antimony (Sb)	20	20	20	20	2.32	3.44
Arsenic (As)	12	12	15	15	**32.8**	5.17
Barium (Ba)	750	500	750	500	348	327
Beryllium (Be)	4	4	4	4	0.31	0.30
Cadmium (Cd)	1.4	10	1.5	1.5	0.380	0.418
Chromium (Cr)	64	64	50	60	18.8	6.18
Cobalt (Co)	40	50	40	50	8.81	3.86
Copper (Cu)	63	63	90	90	27.9	25.9
Lead (Pb)	70	140	100	100	12.6	8.43
Mercury (Hg)	6.6	6.6	0.6	15	0.0329	0.146
Molybdenum (Mo)	5	10	5	10	1.01	0.66
Nickel (Ni)	45	45	150	150	24.3	12.8
Selenium (Se)	1	1	2	1	0.32	0.86
Silver (Ag)	20	20	20	20	0.15	0.58
Thallium (Tl)	1	1	2	--	0.088	0.054
Tin (Sn)	5	50	5	50	<2.0	<2.0
Uranium	23	23			0.600	0.998
Vanadium (V)	130	130	200	200	33.8	8.55
Zinc (Zn)	250	250	150	150	66.8	20.3

ND = not detected

4.0 DISCUSSION

The levels of metals found in the foliar samples collected in 2019 represent the second year assessment for sites D-1 and D-3 and baseline conditions for sites D-2B and D-4B. The data gives a general idea of the metal burden (uptake in tissues as well as through dust deposition) in various species in different ecological zones. Arsenic is potentially a parameter of concern in the Eagle Gold Project area. The 2018 and 2019 soil samples indicate high naturally occurring levels of arsenic in the area. Arsenic is associated with the gold bearing anomalies in the district and these baseline concentrations reflect the natural mineralization of the Project area. Arsenic soil concentrations exceeded the CCME and CSR guidelines in the select samples collected in 2018 (Laberge, 2018b) and in 2019 (Appendix C). However, these relatively high soil concentrations are not reflected as relatively high in the plant tissues. This incongruity may be related to the bioavailability associated with arsenic speciation.

The toxicity of arsenic to biota depends upon the speciation with inorganic forms generally thought to be more toxic than organic forms. Arsenate [As(V)] is the dominant form of arsenic in aerobic soils (Meharg et al, 2002). It is similar to the macronutrient phosphate and creates toxicity in plants by competing with phosphate. Processes within the plant convert arsenate to the more toxic arsenite [As(III)]. Trivalent arsenic (arsenite) is 5 to 10 times more toxic than pentavalent arsenic (arsenate). Elemental arsenic is non-toxic. There was no visible sign of stress in any of the vegetation in the plots. It is not known what species of arsenic are present in the Project's soils or the species present in the plant tissues. Investigations into the speciation of arsenic in plant tissues have shown more than one species present (Meharg et al, 2002). Therefore, the arsenic present in

the soil may not be bioavailable to plants or the availability may be limited by the mycelium associated with the vegetation types, which effectively screen out toxins at the root hairs.

5.0 REFERENCES

Canadian Council of Ministers of the Environment (CCME). 2007. Canadian sediment quality guidelines for the Protection of Aquatic Life. Canadian Council of Ministers of the Environment, Winnipeg, Manitoba

Laberge Environmental Services. 2018a. Vegetation Monitoring at the Eagle Gold Project, 2018. Prepared for Victoria Gold Corp.

Laberge Environmental Services. 2018b. Soil Monitoring at the Eagle Gold Project, 2018. Prepared for Victoria Gold Corp.

Legg, J. Agri-Foods Laboratories. Topsoil Report Ranges. Guelph, Ontario.

Meharg, A.A., J. Harley-Whitaker. 2002. Arsenic uptake and metabolism in arsenic resistant and nonresistant plant species. New Phytologist. 154: 29-43.

Puls, R. 1994. Mineral Levels in Animal Health: Diagnostic Data, 2nd Edition. Sherpa International, Clearbrook, B.C.

Stantec Consulting Ltd. 2011a. Appendix 5, Baseline Environmental Report: Surficial Geology, Terrain and Soils. Prepared for Victoria Gold Corp. Project # 1231-10377.

Stantec Consulting Ltd. 2011b. Appendix 11, Baseline Environmental Report: Vegetation, Parts 1 and 2. Prepared for Victoria Gold Corp. Project # 1231-10377.

StrataGold Corporation. 2019. Eagle Gold Project Environmental Monitoring, Surveillance and Adaptive Management Plan. Version 2019-01.

Yukon Government. Environment Act - Yukon Contaminated Sites Regulations, OIC2002/171.

APPENDIX A

VEGETATION TISSUES DATA

- **TABLE A-1**
- **ANALYTICAL REPORT, JULY 2019**

Table A-1 Range of Detected Metals (mg/kg) in all Tissue Types

Metal	Lowest Detection Limit	D-1	D-2	D-3	D-4B	Toxic
Aluminum (Al)-Total	2.0	10.4 to 54.3	19.7 to 88.7	37.6 to 213.0	11.6 to 70.6	>1200
Antimony (Sb)-Total	0.010	0.011 to 0.491	0.027 to 0.123	0.026 to 0.230	0.015 to 0.081	
Arsenic (As)-Total	0.020	0.066 to 0.334	0.514 to 1.950	0.366 to 2.020	0.369 to 1.410	>10*
Barium (Ba)-Total	0.050	19.2 to 129.0	27.3 to 128.0	13.7 to 126.0	9.8 to 67.8	>20**
Beryllium (Be)-Total	0.010	0.016 to 0.029	not detected	0.012 to 0.028	not detected	
Bismuth (Bi)-Total	0.010	not detected	not detected	0.013 to 0.087	0.010 to 0.051	
Boron (B)-Total	1.0	2.1 to 7.2	2.3 to 24.9	1.5 to 6.3	3.1 to 21.1	>200
Cadmium (Cd)-Total	0.0050	0.0770 to 3.1100	0.0779 to 4.8900	0.0390 to 3.4000	0.0393 to 3.5000	50 - 500
Calcium (Ca)-Total	20	1860 to 7280	2850 to 23400	1650 to 8560	4220 to 17100	
Cesium (Cs)-Total	0.0050	0.0227 to 0.2960	0.0133 to 0.0861	0.0303 to 0.2760	0.0119 to 0.4330	
Chromium (Cr)-Total	0.050	0.057 to 0.527	0.135 to 0.638	0.088 to 0.550	0.088 to 0.269	>40
Cobalt (Co)-Total	0.020	0.127 to 5.900	0.055 to 2.190	0.180 to 6.070	0.071 to 0.884	>30
Copper (Cu)-Total	0.10	2.8 to 5.1	3.7 to 7.9	1.2 to 5.3	1.3 to 7.2	>100
Iron (Fe)-Total	3.0	29.3 to 94.0	73.8 to 294.0	68.7 to 388.0	58.6 to 181.0	>4000
Lead (Pb)-Total	0.020	0.064 to 0.380	0.107 to 0.464	0.125 to 0.618	0.051 to 0.273	>100
Lithium (Li)-Total	0.50	not detected	not detected	not detected	not detected	
Magnesium (Mg)-Total	2.0	904.0 to 2400.0	776.0 to 5580.0	720.0 to 2880.0	1420.0 to 5150.0	
Manganese (Mn)-Total	0.050	353.0 to 2490.0	27.5 to 1290.0	183.0 to 2420.0	44.6 to 1190.0	2000 - 4000
Mercury (Hg)-Total	0.0050	0.0050 to 0.0073	0.0053 to 0.0067	0.0056 to 0.0079	0.0054 to 0.0078	
Molybdenum (Mo)-Total	0.020	0.020 to 0.134	0.031 to 0.951	0.033 to 0.187	0.040 to 0.288	10 - 20
Nickel (Ni)-Total	0.20	0.91 to 7.84	1.11 to 7.45	0.98 to 11.30	0.28 to 2.85	>1500
Phosphorus (P)-Total	10	1530 to 2700	1170 to 5690	845 to 4440	1220 to 2090	
Potassium (K)-Total	20	5470 to 15000	3500 to 32500	3290 to 19400	6290 to 36600	
Rubidium (Rb)-Total	0.050	8.690 to 41.400	1.390 to 30.900	5.770 to 38.900	2.070 to 86.700	
Selenium (Se)-Total	0.050	not detected	0.050 to 26.700	0.051 to 0.075	0.060 to 0.186	5 - 20
Sodium (Na)-Total	20	31.0 to 31.0	22.0 to 42.0	not detected	not detected	
Strontium (Sr)-Total	0.050	6.67 to 61.00	9.98 to 63.90	5.08 to 78.90	10.70 to 56.70	>2000
Tellurium (Te)-Total	0.020	not detected	not detected	not detected	not detected	
Thallium (Tl)-Total	0.0020	not detected	0.0020 to 0.0066	0.0022 to 0.0044	0.0026 to 0.0026	
Tin (Sn)-Total	0.10	0.12 to 1.18	0.16 to 0.30	0.10 to 0.11	0.10 to 0.10	
Uranium (U)-Total	0.0020	0.0021 to 0.0035	0.0029 to 0.0114	0.0036 to 0.0175	0.0026 to 0.0162	
Vanadium (V)-Total	0.10	0.000 to 0.000	0.100 to 0.160	0.120 to 0.360	0.120 to 0.140	
Zinc (Zn)-Total	0.50	30.7 to 160.0	24.0 to 120.0	21.2 to 120.0	27.5 to 196.0	>5000
Zirconium (Zr)-Total	0.20	not detected	0.380 to 0.380	not detected	not detected	

* There is no actual toxic value, only what is considered normal or adequate in the referenced table.

** There is no actual toxic value, only what is considered high in the referenced table.

STRATAGOLD CORPORATION
ATTN: Hugh Coyle
Suite 1000 - 1050 W. Pender St
Vancouver BC V6E 3S7

Date Received: 15-JUL-19
Report Date: 29-AUG-19 13:07 (MT)
Version: FINAL

Client Phone: 604-682-5122

Certificate of Analysis

Lab Work Order #: L2309774

Project P.O. #:	NOT SUBMITTED
Job Reference:	EAGLE GOLD
C of C Numbers:	1 of 5, 2 of 5, 3 of 5, 4 of 5, 5 of 5
Legal Site Desc:	Victoria Gold Corp.

Hilary Woods
Account Manager

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	Sample ID: L2309774-3	L2309774-4	L2309774-5	L2309774-6	L2309774-7
	Description:					
	Sampled Date:	11-JUL-19	11-JUL-19	11-JUL-19	11-JUL-19	11-JUL-19
	Sampled Time:					
	Client ID:	D1 - CENTRE, WILLOW LEAVES	D1 - CENTRE, WILLOW TWIGS	D1 - CENTRE, DWARF BIRCH	D1 - EAST, WILLOW LEAVES	D1 - EAST, WILLOW TWIGS
TISSUE						
Metals	Aluminum (Al)-Total (mg/kg)	46.3	18.8	14.8	54.3	33.6
	Antimony (Sb)-Total (mg/kg)	0.012	0.012	0.013	0.018	0.491
	Arsenic (As)-Total (mg/kg)	0.197	0.103	0.162	0.271	0.334
	Barium (Ba)-Total (mg/kg)	72.8	129	19.2	88.9	109
	Beryllium (Be)-Total (mg/kg)	0.025	<0.010	<0.010	0.029	<0.010
	Bismuth (Bi)-Total (mg/kg)	<0.010	<0.010	<0.010	<0.010	<0.010
	Boron (B)-Total (mg/kg)	3.7	7.2	2.9	2.4	4.7
	Cadmium (Cd)-Total (mg/kg)	2.70	3.11	0.186	3.04	2.86
	Calcium (Ca)-Total (mg/kg)	6630	5750	3530	7280	4420
	Cesium (Cs)-Total (mg/kg)	0.235	0.219	0.0550	0.194	0.156
	Chromium (Cr)-Total (mg/kg)	<0.050	0.248	0.122	0.183	0.527
	Cobalt (Co)-Total (mg/kg)	4.96	2.12	0.288	5.90	1.94
	Copper (Cu)-Total (mg/kg)	4.48	4.07	4.44	3.37	3.38
	Iron (Fe)-Total (mg/kg)	74.4	45.2	55.9	69.3	94.0
	Lead (Pb)-Total (mg/kg)	0.194	0.380	0.066	0.122	0.291
	Lithium (Li)-Total (mg/kg)	<0.50	<0.50	<0.50	<0.50	<0.50
	Magnesium (Mg)-Total (mg/kg)	1870	1270	1550	2400	1150
	Manganese (Mn)-Total (mg/kg)	1230	541	1640	941	404
	Mercury (Hg)-Total (mg/kg)	0.0064	<0.0050	<0.0050	0.0071	<0.0050
	Molybdenum (Mo)-Total (mg/kg)	0.095	0.048	0.030	0.100	0.080
	Nickel (Ni)-Total (mg/kg)	7.09	5.52	3.98	7.84	5.33
	Phosphorus (P)-Total (mg/kg)	2110	1860	2060	2450	1550
	Potassium (K)-Total (mg/kg)	11200	7250	6730	10400	5470
	Rubidium (Rb)-Total (mg/kg)	36.4	39.2	14.5	22.8	19.9
	Selenium (Se)-Total (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	Sodium (Na)-Total (mg/kg)	<20	<20	<20	<20	31
	Strontium (Sr)-Total (mg/kg)	48.5	41.8	6.67	61.0	34.0
	Tellurium (Te)-Total (mg/kg)	<0.020	<0.020	<0.020	<0.020	<0.020
	Thallium (Tl)-Total (mg/kg)	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
	Tin (Sn)-Total (mg/kg)	0.15	0.12	<0.10	<0.10	1.18
	Uranium (U)-Total (mg/kg)	<0.0020	<0.0020	<0.0020	0.0021	0.0035
	Vanadium (V)-Total (mg/kg)	<0.10	<0.10	<0.10	<0.10	<0.10
	Zinc (Zn)-Total (mg/kg)	105	160	76.7	76.8	122
	Zirconium (Zr)-Total (mg/kg)	<0.20	<0.20	<0.20	<0.20	<0.20

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L2309774-8 11-JUL-19 D1 - EAST, DWARF BIRCH	L2309774-9 11-JUL-19 D1 - WEST, WILLOW LEAVES	L2309774-10 11-JUL-19 D1 - WEST, WILLOW TWIGS	L2309774-11 11-JUL-19 D1 - WEST, DWARF BIRCH	L2309774-12 11-JUL-19 D1 - SOUTH, WILLOW LEAVES
Sample ID						
Description						
Sampled Date						
Sampled Time						
Client ID						
TISSUE						
Metals	Aluminum (Al)-Total (mg/kg)	13.4	28.0	14.8	23.2	30.8
	Antimony (Sb)-Total (mg/kg)	0.012	0.012	0.020	0.022	0.013
	Arsenic (As)-Total (mg/kg)	0.120	0.131	0.087	0.167	0.139
	Barium (Ba)-Total (mg/kg)	46.7	32.0	49.1	35.5	30.0
	Beryllium (Be)-Total (mg/kg)	<0.010	0.018	<0.010	<0.010	0.016
	Bismuth (Bi)-Total (mg/kg)	<0.010	<0.010	<0.010	<0.010	<0.010
	Boron (B)-Total (mg/kg)	4.9	2.7	6.2	5.8	2.4
	Cadmium (Cd)-Total (mg/kg)	0.163	1.43	1.64	0.244	1.45
	Calcium (Ca)-Total (mg/kg)	4070	5980	4270	4510	5300
	Cesium (Cs)-Total (mg/kg)	0.0533	0.134	0.0704	0.0227	0.166
	Chromium (Cr)-Total (mg/kg)	0.097	0.065	0.165	0.127	0.068
	Cobalt (Co)-Total (mg/kg)	0.463	3.37	1.13	0.543	4.38
	Copper (Cu)-Total (mg/kg)	4.63	2.96	2.78	4.56	4.86
	Iron (Fe)-Total (mg/kg)	60.6	65.3	35.6	68.0	66.5
	Lead (Pb)-Total (mg/kg)	0.082	0.068	0.067	0.072	0.114
	Lithium (Li)-Total (mg/kg)	<0.50	<0.50	<0.50	<0.50	<0.50
	Magnesium (Mg)-Total (mg/kg)	1700	1840	1100	1890	1920
	Manganese (Mn)-Total (mg/kg)	1820	856	353	2490	971
	Mercury (Hg)-Total (mg/kg)	0.0057	0.0073	<0.0050	0.0051	0.0056
	Molybdenum (Mo)-Total (mg/kg)	0.025	0.103	0.063	0.035	0.071
	Nickel (Ni)-Total (mg/kg)	3.98	4.18	3.06	4.31	4.73
	Phosphorus (P)-Total (mg/kg)	2570	1940	1530	2440	2240
	Potassium (K)-Total (mg/kg)	8350	8780	5900	6960	13500
	Rubidium (Rb)-Total (mg/kg)	16.4	20.6	20.4	8.69	37.0
	Selenium (Se)-Total (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	Sodium (Na)-Total (mg/kg)	<20	<20	<20	<20	<20
	Strontium (Sr)-Total (mg/kg)	10.7	40.8	34.0	10.4	29.6
	Tellurium (Te)-Total (mg/kg)	<0.020	<0.020	<0.020	<0.020	<0.020
	Thallium (Tl)-Total (mg/kg)	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
	Tin (Sn)-Total (mg/kg)	<0.10	<0.10	0.14	<0.10	<0.10
	Uranium (U)-Total (mg/kg)	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
	Vanadium (V)-Total (mg/kg)	<0.10	<0.10	<0.10	<0.10	<0.10
	Zinc (Zn)-Total (mg/kg)	138	41.8	87.2	160	83.6
	Zirconium (Zr)-Total (mg/kg)	<0.20	<0.20	<0.20	<0.20	<0.20

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L2309774-13 11-JUL-19 D1 - SOUTH, WILLOW TWIGS	L2309774-14 11-JUL-19 D1 - SOUTH, DWARF BIRCH	L2309774-15 11-JUL-19 D1 - NORTH, WILLOW LEAVES	L2309774-16 11-JUL-19 D1 - NORTH, WILLOW TWIGS	L2309774-17 11-JUL-19 D1 - NORTH, DWARF BIRCH
Sample ID						
Description						
Sampled Date						
Sampled Time						
Client ID						
TISSUE						
Metals	Aluminum (Al)-Total (mg/kg)	10.4	16.9	36.0	12.5	13.4
	Antimony (Sb)-Total (mg/kg)	<0.010	0.018	<0.010	0.011	<0.010
	Arsenic (As)-Total (mg/kg)	0.066	0.138	0.095	0.072	0.093
	Barium (Ba)-Total (mg/kg)	56.7	53.0	37.6	64.9	46.6
	Beryllium (Be)-Total (mg/kg)	<0.010	<0.010	0.018	<0.010	<0.010
	Bismuth (Bi)-Total (mg/kg)	<0.010	<0.010	<0.010	<0.010	<0.010
	Boron (B)-Total (mg/kg)	5.6	5.6	3.1	4.6	4.0
	Cadmium (Cd)-Total (mg/kg)	1.76	0.142	1.71	2.66	0.137
	Calcium (Ca)-Total (mg/kg)	3240	4150	5910	3810	4110
	Cesium (Cs)-Total (mg/kg)	0.131	0.0516	0.296	0.203	0.176
	Chromium (Cr)-Total (mg/kg)	0.181	0.057	<0.050	0.155	<0.050
	Cobalt (Co)-Total (mg/kg)	1.59	0.406	3.63	1.26	0.230
	Copper (Cu)-Total (mg/kg)	3.85	5.10	3.74	4.10	4.90
	Iron (Fe)-Total (mg/kg)	29.3	63.5	63.1	35.2	47.4
	Lead (Pb)-Total (mg/kg)	0.077	0.064	0.068	0.157	0.067
	Lithium (Li)-Total (mg/kg)	<0.50	<0.50	<0.50	<0.50	<0.50
	Magnesium (Mg)-Total (mg/kg)	1210	1440	1840	917	2240
	Manganese (Mn)-Total (mg/kg)	420	1960	1010	420	2060
	Mercury (Hg)-Total (mg/kg)	<0.0050	0.0050	0.0072	<0.0050	<0.0050
	Molybdenum (Mo)-Total (mg/kg)	0.041	0.020	0.093	0.044	0.034
	Nickel (Ni)-Total (mg/kg)	2.63	3.51	4.67	3.03	3.68
	Phosphorus (P)-Total (mg/kg)	1560	2270	2700	1600	2600
	Potassium (K)-Total (mg/kg)	7000	7410	13000	6270	6420
	Rubidium (Rb)-Total (mg/kg)	29.8	15.1	32.5	26.9	19.6
	Selenium (Se)-Total (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	Sodium (Na)-Total (mg/kg)	<20	<20	<20	<20	<20
	Strontium (Sr)-Total (mg/kg)	24.9	11.5	41.9	29.2	10.2
	Tellurium (Te)-Total (mg/kg)	<0.020	<0.020	<0.020	<0.020	<0.020
	Thallium (Tl)-Total (mg/kg)	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
	Tin (Sn)-Total (mg/kg)	0.16	<0.10	<0.10	0.13	<0.10
	Uranium (U)-Total (mg/kg)	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
	Vanadium (V)-Total (mg/kg)	<0.10	<0.10	<0.10	<0.10	<0.10
	Zinc (Zn)-Total (mg/kg)	116	122	36.6	97.6	78.8
	Zirconium (Zr)-Total (mg/kg)	<0.20	<0.20	<0.20	<0.20	<0.20

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L2309774-18	L2309774-19	L2309774-20	L2309774-21	L2309774-22
Sample ID		L2309774-18	L2309774-19	L2309774-20	L2309774-21	L2309774-22
Description						
Sampled Date		11-JUL-19	10-JUL-19	10-JUL-19	10-JUL-19	10-JUL-19
Sampled Time						
Client ID		D1 - ALL PLOTS, FESCUE	D2 - SOUTH, WILLOW LEAVES	D2 - SOUTH, DWARF BIRCH	D2 - WEST, WILLOW LEAVES	D2 - WEST, WILLOW TWIGS
TISSUE						
Metals	Aluminum (Al)-Total (mg/kg)	12.3	57.3	50.8	74.1	68.1
	Antimony (Sb)-Total (mg/kg)	0.012	0.074	0.067	0.120	0.073
	Arsenic (As)-Total (mg/kg)	0.104	1.32	1.28	1.80	1.13
	Barium (Ba)-Total (mg/kg)	40.6	27.3	63.2	56.7	81.5
	Beryllium (Be)-Total (mg/kg)	<0.010	<0.010	<0.010	<0.010	<0.010
	Bismuth (Bi)-Total (mg/kg)	<0.010	<0.010	<0.010	<0.010	<0.010
	Boron (B)-Total (mg/kg)	2.1	6.8	10.0	2.3	7.2
	Cadmium (Cd)-Total (mg/kg)	0.0770	4.46	0.123	3.28	3.58
	Calcium (Ca)-Total (mg/kg)	1860	7930	4700	9560	5490
	Cesium (Cs)-Total (mg/kg)	0.187	0.0341	0.0225	0.0310	0.0199
	Chromium (Cr)-Total (mg/kg)	0.173	0.250	0.200	0.198	0.208
	Cobalt (Co)-Total (mg/kg)	0.127	2.19	0.263	0.501	0.218
	Copper (Cu)-Total (mg/kg)	2.76	4.45	3.73	4.72	7.88
	Iron (Fe)-Total (mg/kg)	51.8	204	195	204	139
	Lead (Pb)-Total (mg/kg)	0.143	0.249	0.262	0.384	0.207
	Lithium (Li)-Total (mg/kg)	<0.50	<0.50	<0.50	<0.50	<0.50
	Magnesium (Mg)-Total (mg/kg)	904	3450	2680	4440	1410
	Manganese (Mn)-Total (mg/kg)	1070	1290	685	273	79.0
	Mercury (Hg)-Total (mg/kg)	<0.0050	0.0061	0.0055	0.0063	<0.0050
	Molybdenum (Mo)-Total (mg/kg)	0.134	0.219	0.059	0.381	0.144
	Nickel (Ni)-Total (mg/kg)	0.91	6.33	5.78	4.43	2.44
	Phosphorus (P)-Total (mg/kg)	1710	2790	1820	2610	1640
	Potassium (K)-Total (mg/kg)	15000	9280	5900	13300	8160
	Rubidium (Rb)-Total (mg/kg)	41.4	9.18	3.74	7.34	5.67
	Selenium (Se)-Total (mg/kg)	<0.050	<0.050	<0.050	0.053	<0.050
	Sodium (Na)-Total (mg/kg)	<20	42	<20	<20	<20
	Strontium (Sr)-Total (mg/kg)	9.31	35.9	14.8	42.3	23.5
	Tellurium (Te)-Total (mg/kg)	<0.020	<0.020	<0.020	<0.020	<0.020
	Thallium (Tl)-Total (mg/kg)	<0.0020	<0.0020	0.0030	0.0026	0.0027
	Tin (Sn)-Total (mg/kg)	0.19	0.17	<0.10	<0.10	<0.10
	Uranium (U)-Total (mg/kg)	<0.0020	0.0060	0.0069	0.0095	0.0064
	Vanadium (V)-Total (mg/kg)	<0.10	0.11	<0.10	0.14	0.13
	Zinc (Zn)-Total (mg/kg)	30.7	120	83.1	73.8	115
	Zirconium (Zr)-Total (mg/kg)	<0.20	<0.20	<0.20	<0.20	<0.20

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	Sample ID: L2309774-23	L2309774-24	L2309774-25	L2309774-26	L2309774-27
	Description					
	Sampled Date	10-JUL-19	10-JUL-19	10-JUL-19	10-JUL-19	10-JUL-19
	Sampled Time					
	Client ID	D2 - EAST, PAPER BIRCH LEAVES	D2 - EAST, PAPER BIRCH TWIGS	D2 - CENTRE, WILLOW LEAVES	D2 - CENTRE, WILLOW TWIGS	D2 - CENTRE, FESCUE
TISSUE						
Metals	Aluminum (Al)-Total (mg/kg)	88.7	29.4	84.5	38.4	48.7
	Antimony (Sb)-Total (mg/kg)	0.123	0.034	0.118	0.061	0.053
	Arsenic (As)-Total (mg/kg)	1.88	0.514	1.95	0.726	1.28
	Barium (Ba)-Total (mg/kg)	128	114	59.3	70.8	75.0
	Beryllium (Be)-Total (mg/kg)	<0.010	<0.010	<0.010	<0.010	<0.010
	Bismuth (Bi)-Total (mg/kg)	<0.010	<0.010	<0.010	<0.010	<0.010
	Boron (B)-Total (mg/kg)	3.2	3.2	4.4	9.8	2.7
	Cadmium (Cd)-Total (mg/kg)	0.464	0.771	1.61	1.38	0.0779
	Calcium (Ca)-Total (mg/kg)	5360	2850	8940	4880	3280
	Cesium (Cs)-Total (mg/kg)	0.0297	0.0133	0.0555	0.0249	0.0201
	Chromium (Cr)-Total (mg/kg)	0.394	0.155	0.196	0.638	0.292
	Cobalt (Co)-Total (mg/kg)	0.360	0.233	1.06	0.256	0.104
	Copper (Cu)-Total (mg/kg)	4.28	5.94	4.23	5.47	4.75
	Iron (Fe)-Total (mg/kg)	294	73.8	225	103	141
	Lead (Pb)-Total (mg/kg)	0.464	0.174	0.384	0.158	0.208
	Lithium (Li)-Total (mg/kg)	<0.50	<0.50	<0.50	<0.50	<0.50
	Magnesium (Mg)-Total (mg/kg)	2260	776	3070	1320	1380
	Manganese (Mn)-Total (mg/kg)	993	265	317	213	743
	Mercury (Hg)-Total (mg/kg)	0.0058	<0.0050	0.0067	<0.0050	<0.0050
	Molybdenum (Mo)-Total (mg/kg)	0.115	0.031	0.210	0.082	0.644
	Nickel (Ni)-Total (mg/kg)	2.41	6.68	3.37	3.67	1.35
	Phosphorus (P)-Total (mg/kg)	1900	1170	1910	1230	2470
	Potassium (K)-Total (mg/kg)	10200	3500	15700	8330	20100
	Rubidium (Rb)-Total (mg/kg)	4.75	3.27	9.89	5.86	6.36
	Selenium (Se)-Total (mg/kg)	0.105	0.050	<0.050	<0.050	<0.050
	Sodium (Na)-Total (mg/kg)	24	<20	<20	<20	22
	Strontium (Sr)-Total (mg/kg)	23.1	16.5	39.8	23.6	9.98
	Tellurium (Te)-Total (mg/kg)	<0.020	<0.020	<0.020	<0.020	<0.020
	Thallium (Tl)-Total (mg/kg)	0.0032	<0.0020	0.0066	0.0061	<0.0020
	Tin (Sn)-Total (mg/kg)	0.16	<0.10	<0.10	0.19	0.30
	Uranium (U)-Total (mg/kg)	0.0114	0.0029	0.0111	0.0045	0.0064
	Vanadium (V)-Total (mg/kg)	0.16	<0.10	0.16	<0.10	0.10
	Zinc (Zn)-Total (mg/kg)	79.6	70.6	57.8	73.5	26.4
	Zirconium (Zr)-Total (mg/kg)	<0.20	<0.20	<0.20	<0.20	0.38

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	Sample ID: L2309774-28 Description: D2 - NORTH, WILLOW LEAVES Sampled Date: 10-JUL-19	Sample ID: L2309774-29 Description: D2 - NORTH, WILLOW TWIGS Sampled Date: 10-JUL-19	Sample ID: L2309774-30 Description: D2 - NORTH, EQUISETUM Sampled Date: 10-JUL-19	Sample ID: L2309774-31 Description: D3 - SOUTH, WILLOW LEAVES Sampled Date: 11-JUL-19	Sample ID: L2309774-32 Description: D3 - SOUTH, DWARF BIRCH Sampled Date: 11-JUL-19
TISSUE						
Metals	Aluminum (Al)-Total (mg/kg)	66.4	55.7	19.7	213	104
	Antimony (Sb)-Total (mg/kg)	0.080	0.071	0.027	0.165	0.080
	Arsenic (As)-Total (mg/kg)	1.52	1.15	0.583	2.02	1.13
	Barium (Ba)-Total (mg/kg)	63.3	57.5	36.2	118	31.0
	Beryllium (Be)-Total (mg/kg)	<0.010	<0.010	<0.010	0.028	<0.010
	Bismuth (Bi)-Total (mg/kg)	<0.010	<0.010	<0.010	0.087	0.037
	Boron (B)-Total (mg/kg)	24.9	15.3	17.9	4.4	3.0
	Cadmium (Cd)-Total (mg/kg)	4.89	3.25	1.03	2.42	0.233
	Calcium (Ca)-Total (mg/kg)	18600	9300	23400	7270	3650
	Cesium (Cs)-Total (mg/kg)	0.0178	0.0175	0.0861	0.276	0.198
	Chromium (Cr)-Total (mg/kg)	0.188	0.333	0.135	0.373	0.216
	Cobalt (Co)-Total (mg/kg)	0.386	0.139	0.055	5.93	0.749
	Copper (Cu)-Total (mg/kg)	4.28	4.92	4.39	3.49	4.01
	Iron (Fe)-Total (mg/kg)	173	146	78.7	388	170
	Lead (Pb)-Total (mg/kg)	0.278	0.274	0.107	0.618	0.309
	Lithium (Li)-Total (mg/kg)	<0.50	<0.50	<0.50	<0.50	<0.50
	Magnesium (Mg)-Total (mg/kg)	4870	1240	5580	2880	1760
	Manganese (Mn)-Total (mg/kg)	109	62.2	27.5	1150	1100
	Mercury (Hg)-Total (mg/kg)	<0.0050	<0.0050	0.0053	0.0079	<0.0050
	Molybdenum (Mo)-Total (mg/kg)	0.377	0.116	0.951	0.187	0.034
	Nickel (Ni)-Total (mg/kg)	7.45	4.00	1.11	7.29	4.90
	Phosphorus (P)-Total (mg/kg)	5690	1570	2260	3740	2360
	Potassium (K)-Total (mg/kg)	13900	7580	32500	10400	8020
	Rubidium (Rb)-Total (mg/kg)	1.78	1.39	30.9	25.9	18.6
	Selenium (Se)-Total (mg/kg)	3.11	1.47	26.7	0.051	<0.050
	Sodium (Na)-Total (mg/kg)	<20	<20	23	<20	<20
	Strontium (Sr)-Total (mg/kg)	43.0	23.9	63.9	76.0	10.3
	Tellurium (Te)-Total (mg/kg)	<0.020	<0.020	<0.020	<0.020	<0.020
	Thallium (Tl)-Total (mg/kg)	<0.0020	0.0020	<0.0020	0.0044	0.0028
	Tin (Sn)-Total (mg/kg)	<0.10	0.22	<0.10	<0.10	<0.10
	Uranium (U)-Total (mg/kg)	0.0081	0.0081	0.0061	0.0175	0.0096
	Vanadium (V)-Total (mg/kg)	0.13	0.10	<0.10	0.36	0.19
	Zinc (Zn)-Total (mg/kg)	89.7	104	24.0	109	107
	Zirconium (Zr)-Total (mg/kg)	<0.20	<0.20	<0.20	<0.20	<0.20

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	Sample ID: L2309774-33 Description: D3 - CENTRE, WILLOW LEAVES Sampled Date: 11-JUL-19	Sample ID: L2309774-34 Description: D3 - CENTRE, WILLOW TWIGS Sampled Date: 11-JUL-19	Sample ID: L2309774-35 Description: D3 - CENTRE, DWARF BIRCH Sampled Date: 11-JUL-19	Sample ID: L2309774-36 Description: D3 - NORTH, WILLOW LEAVES Sampled Date: 11-JUL-19	Sample ID: L2309774-37 Description: D3 - NORTH, WILLOW TWIGS Sampled Date: 11-JUL-19
TISSUE						
Metals	Aluminum (Al)-Total (mg/kg)	159	147	132	129	67.1
	Antimony (Sb)-Total (mg/kg)	0.116	0.100	0.101	0.087	0.167
	Arsenic (As)-Total (mg/kg)	1.39	1.32	1.15	1.13	0.639
	Barium (Ba)-Total (mg/kg)	73.4	118	41.8	89.9	65.7
	Beryllium (Be)-Total (mg/kg)	0.018	<0.010	<0.010	0.019	<0.010
	Bismuth (Bi)-Total (mg/kg)	0.048	0.072	0.041	0.042	0.021
	Boron (B)-Total (mg/kg)	2.2	3.9	6.3	2.3	2.1
	Cadmium (Cd)-Total (mg/kg)	1.14	1.21	0.189	1.32	0.810
	Calcium (Ca)-Total (mg/kg)	8150	4340	4930	6520	2120
	Cesium (Cs)-Total (mg/kg)	0.116	0.112	0.0854	0.0739	0.0419
	Chromium (Cr)-Total (mg/kg)	0.300	0.385	0.231	0.247	0.241
	Cobalt (Co)-Total (mg/kg)	4.30	1.75	0.609	5.52	1.07
	Copper (Cu)-Total (mg/kg)	2.91	3.54	4.01	2.48	1.45
	Iron (Fe)-Total (mg/kg)	269	222	206	241	112
	Lead (Pb)-Total (mg/kg)	0.382	0.415	0.372	0.323	0.272
	Lithium (Li)-Total (mg/kg)	<0.50	<0.50	<0.50	<0.50	<0.50
	Magnesium (Mg)-Total (mg/kg)	2780	1290	2050	2280	720
	Manganese (Mn)-Total (mg/kg)	538	224	1950	837	183
	Mercury (Hg)-Total (mg/kg)	0.0074	<0.0050	<0.0050	0.0070	<0.0050
	Molybdenum (Mo)-Total (mg/kg)	0.106	0.072	0.037	0.123	0.055
	Nickel (Ni)-Total (mg/kg)	11.2	9.88	6.14	8.12	2.14
	Phosphorus (P)-Total (mg/kg)	3300	2050	2740	2930	845
	Potassium (K)-Total (mg/kg)	14500	8060	6260	10600	3290
	Rubidium (Rb)-Total (mg/kg)	21.0	18.7	11.4	11.4	5.77
	Selenium (Se)-Total (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.050
	Sodium (Na)-Total (mg/kg)	<20	<20	<20	<20	<20
	Strontium (Sr)-Total (mg/kg)	73.6	40.6	13.5	65.5	20.6
	Tellurium (Te)-Total (mg/kg)	<0.020	<0.020	<0.020	<0.020	<0.020
	Thallium (Tl)-Total (mg/kg)	0.0028	0.0029	0.0025	0.0025	<0.0020
	Tin (Sn)-Total (mg/kg)	<0.10	0.10	<0.10	<0.10	<0.10
	Uranium (U)-Total (mg/kg)	0.0160	0.0117	0.0130	0.0101	0.0056
	Vanadium (V)-Total (mg/kg)	0.28	0.28	0.24	0.21	0.13
	Zinc (Zn)-Total (mg/kg)	51.6	90.6	120	49.4	51.7
	Zirconium (Zr)-Total (mg/kg)	<0.20	<0.20	<0.20	<0.20	<0.20

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L2309774-38 11-JUL-19 D3 - NORTH, DWARF BIRCH	L2309774-39 11-JUL-19 D3 - WEST, WILLOW LEAVES	L2309774-40 11-JUL-19 D3 - WEST, WILLOW TWIGS	L2309774-41 11-JUL-19 D3 - WEST, DWARF BIRCH	L2309774-42 11-JUL-19 D3 - EAST, WILLOW LEAVES
TISSUE						
Metals	Aluminum (Al)-Total (mg/kg)	37.6	84.1	114	85.3	131
	Antimony (Sb)-Total (mg/kg)	0.026	0.054	0.230	0.072	0.090
	Arsenic (As)-Total (mg/kg)	0.366	0.675	1.13	0.756	1.12
	Barium (Ba)-Total (mg/kg)	15.0	48.9	126	25.6	81.8
	Beryllium (Be)-Total (mg/kg)	<0.010	0.012	<0.010	<0.010	0.024
	Bismuth (Bi)-Total (mg/kg)	0.013	0.025	0.027	0.046	0.048
	Boron (B)-Total (mg/kg)	2.7	<1.0	2.2	4.5	6.0
	Cadmium (Cd)-Total (mg/kg)	0.0675	0.526	1.13	0.137	3.40
	Calcium (Ca)-Total (mg/kg)	2130	3600	4170	3950	8560
	Cesium (Cs)-Total (mg/kg)	0.0303	0.0671	0.112	0.0540	0.0697
	Chromium (Cr)-Total (mg/kg)	0.088	0.133	0.550	0.196	0.244
	Cobalt (Co)-Total (mg/kg)	0.278	2.88	1.37	0.469	6.07
	Copper (Cu)-Total (mg/kg)	2.28	1.24	3.16	3.27	3.53
	Iron (Fe)-Total (mg/kg)	68.7	170	181	137	252
	Lead (Pb)-Total (mg/kg)	0.125	0.217	0.355	0.365	0.343
	Lithium (Li)-Total (mg/kg)	<0.50	<0.50	<0.50	<0.50	<0.50
	Magnesium (Mg)-Total (mg/kg)	1050	1360	1050	1610	2700
	Manganese (Mn)-Total (mg/kg)	1070	296	253	1740	1260
	Mercury (Hg)-Total (mg/kg)	0.0056	0.0058	<0.0050	<0.0050	0.0072
	Molybdenum (Mo)-Total (mg/kg)	<0.020	0.060	0.082	0.037	0.130
	Nickel (Ni)-Total (mg/kg)	2.98	4.28	4.86	4.40	11.3
	Phosphorus (P)-Total (mg/kg)	1660	1560	1650	2720	4440
	Potassium (K)-Total (mg/kg)	4480	4710	5040	5920	10600
	Rubidium (Rb)-Total (mg/kg)	7.02	8.63	14.1	8.09	10.8
	Selenium (Se)-Total (mg/kg)	<0.050	<0.050	<0.050	<0.050	0.075
	Sodium (Na)-Total (mg/kg)	<20	<20	<20	<20	<20
	Strontium (Sr)-Total (mg/kg)	5.08	36.0	37.0	10.1	78.9
	Tellurium (Te)-Total (mg/kg)	<0.020	<0.020	<0.020	<0.020	<0.020
	Thallium (Tl)-Total (mg/kg)	<0.0020	<0.0020	0.0022	<0.0020	0.0028
	Tin (Sn)-Total (mg/kg)	<0.10	<0.10	0.11	<0.10	<0.10
	Uranium (U)-Total (mg/kg)	0.0036	0.0089	0.0082	0.0077	0.0098
	Vanadium (V)-Total (mg/kg)	<0.10	0.12	0.23	0.14	0.22
	Zinc (Zn)-Total (mg/kg)	53.9	23.1	92.4	67.8	78.1
	Zirconium (Zr)-Total (mg/kg)	<0.20	<0.20	<0.20	<0.20	<0.20

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L2309774-43	L2309774-44	L2309774-45	L2309774-46	L2309774-47
	Sample ID	L2309774-43	L2309774-44	L2309774-45	L2309774-46	L2309774-47
	Description					
	Sampled Date	11-JUL-19	11-JUL-19	12-JUL-19	12-JUL-19	12-JUL-19
	Sampled Time					
	Client ID	D3 - EAST, DWARF BIRCH	D3 - THROUGH PLOT, FESCUE	D4B - CENTRE, DWARF BIRCH	D4B - CENTRE, EQUISETUM	D4B - WEST, DWARF BIRCH
TISSUE						
Metals	Aluminum (Al)-Total (mg/kg)	82.2	66.7	70.6	25.9	42.3
	Antimony (Sb)-Total (mg/kg)	0.066	0.075	0.081	0.031	0.049
	Arsenic (As)-Total (mg/kg)	0.773	0.669	1.41	0.720	0.844
	Barium (Ba)-Total (mg/kg)	13.7	33.1	37.7	43.3	56.3
	Beryllium (Be)-Total (mg/kg)	<0.010	<0.010	<0.010	<0.010	<0.010
	Bismuth (Bi)-Total (mg/kg)	0.051	0.020	0.013	<0.010	<0.010
	Boron (B)-Total (mg/kg)	2.2	1.5	13.6	5.4	12.7
	Cadmium (Cd)-Total (mg/kg)	0.119	0.0390	0.138	0.345	0.233
	Calcium (Ca)-Total (mg/kg)	4070	1650	5360	13600	5430
	Cesium (Cs)-Total (mg/kg)	0.0940	0.169	0.0332	0.330	0.0214
	Chromium (Cr)-Total (mg/kg)	0.158	0.474	0.236	0.206	0.151
	Cobalt (Co)-Total (mg/kg)	0.598	0.180	0.233	0.141	0.188
	Copper (Cu)-Total (mg/kg)	5.26	2.35	4.80	4.74	4.30
	Iron (Fe)-Total (mg/kg)	142	117	181	84.6	132
	Lead (Pb)-Total (mg/kg)	0.314	0.334	0.273	0.120	0.207
	Lithium (Li)-Total (mg/kg)	<0.50	<0.50	<0.50	<0.50	<0.50
	Magnesium (Mg)-Total (mg/kg)	2070	966	2590	3900	2440
	Manganese (Mn)-Total (mg/kg)	2420	1450	1040	52.7	1190
	Mercury (Hg)-Total (mg/kg)	<0.0050	<0.0050	0.0062	0.0078	0.0060
	Molybdenum (Mo)-Total (mg/kg)	0.033	0.110	0.040	0.274	0.042
	Nickel (Ni)-Total (mg/kg)	5.63	0.98	1.20	0.28	2.55
	Phosphorus (P)-Total (mg/kg)	3420	2180	1250	1720	1550
	Potassium (K)-Total (mg/kg)	8390	19400	9210	31000	8920
	Rubidium (Rb)-Total (mg/kg)	18.5	38.9	8.46	60.7	5.56
	Selenium (Se)-Total (mg/kg)	<0.050	<0.050	<0.050	0.119	0.064
	Sodium (Na)-Total (mg/kg)	<20	<20	<20	<20	<20
	Strontium (Sr)-Total (mg/kg)	8.19	9.28	10.7	37.9	15.2
	Tellurium (Te)-Total (mg/kg)	<0.020	<0.020	<0.020	<0.020	<0.020
	Thallium (Tl)-Total (mg/kg)	<0.0020	<0.0020	<0.0020	<0.0020	0.0026
	Tin (Sn)-Total (mg/kg)	<0.10	<0.10	<0.10	0.10	<0.10
	Uranium (U)-Total (mg/kg)	0.0084	0.0058	0.0162	0.0107	0.0056
	Vanadium (V)-Total (mg/kg)	0.15	0.12	0.14	<0.10	<0.10
	Zinc (Zn)-Total (mg/kg)	91.7	21.2	195	27.5	196
	Zirconium (Zr)-Total (mg/kg)	<0.20	<0.20	<0.20	<0.20	<0.20

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L2309774-48	L2309774-49	L2309774-50	L2309774-51	L2309774-52
	Sample ID	L2309774-48	L2309774-49	L2309774-50	L2309774-51	L2309774-52
	Description					
	Sampled Date	12-JUL-19	12-JUL-19	12-JUL-19	12-JUL-19	12-JUL-19
	Sampled Time					
	Client ID	D4B - WEST, WILLOW LEAVES	D4B - SOUTH, WILLOW LEAVES	D4B - SOUTH, WILLOW TWIGS	D4B - EAST, WILLOW LEAVES	D4B - EAST, DWARF BIRCH
TISSUE						
Metals	Aluminum (Al)-Total (mg/kg)	24.2	43.5	49.0	38.9	42.3
	Antimony (Sb)-Total (mg/kg)	0.034	0.054	0.057	0.061	0.055
	Arsenic (As)-Total (mg/kg)	0.621	0.984	1.02	1.00	0.850
	Barium (Ba)-Total (mg/kg)	35.8	9.84	12.3	14.5	62.1
	Beryllium (Be)-Total (mg/kg)	<0.010	<0.010	<0.010	<0.010	<0.010
	Bismuth (Bi)-Total (mg/kg)	<0.010	0.017	0.051	0.010	<0.010
	Boron (B)-Total (mg/kg)	3.1	3.3	9.0	8.3	21.1
	Cadmium (Cd)-Total (mg/kg)	3.50	0.437	0.503	1.13	0.0393
	Calcium (Ca)-Total (mg/kg)	12800	7650	4220	12700	10500
	Cesium (Cs)-Total (mg/kg)	0.0127	0.0202	0.0220	0.0132	0.0119
	Chromium (Cr)-Total (mg/kg)	0.100	0.148	0.214	0.245	0.158
	Cobalt (Co)-Total (mg/kg)	0.513	0.514	0.281	0.884	0.096
	Copper (Cu)-Total (mg/kg)	4.56	1.34	1.84	3.05	4.01
	Iron (Fe)-Total (mg/kg)	95.6	134	126	133	141
	Lead (Pb)-Total (mg/kg)	0.122	0.166	0.188	0.186	0.222
	Lithium (Li)-Total (mg/kg)	<0.50	<0.50	<0.50	<0.50	<0.50
	Magnesium (Mg)-Total (mg/kg)	2950	3220	1520	3460	3870
	Manganese (Mn)-Total (mg/kg)	104	59.0	44.6	485	478
	Mercury (Hg)-Total (mg/kg)	0.0062	<0.0050	<0.0050	0.0058	<0.0050
	Molybdenum (Mo)-Total (mg/kg)	0.089	0.288	0.079	0.179	0.115
	Nickel (Ni)-Total (mg/kg)	1.95	<0.20	0.58	0.42	2.85
	Phosphorus (P)-Total (mg/kg)	1530	1480	1240	1220	1340
	Potassium (K)-Total (mg/kg)	11700	12300	8870	9640	6290
	Rubidium (Rb)-Total (mg/kg)	7.33	5.99	5.76	2.76	2.07
	Selenium (Se)-Total (mg/kg)	0.075	0.186	0.118	0.171	0.060
	Sodium (Na)-Total (mg/kg)	<20	<20	<20	<20	<20
	Strontium (Sr)-Total (mg/kg)	46.4	27.3	17.9	41.9	29.4
	Tellurium (Te)-Total (mg/kg)	<0.020	<0.020	<0.020	<0.020	<0.020
	Thallium (Tl)-Total (mg/kg)	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
	Tin (Sn)-Total (mg/kg)	<0.10	<0.10	<0.10	<0.10	<0.10
	Uranium (U)-Total (mg/kg)	0.0038	0.0062	0.0050	0.0098	0.0056
	Vanadium (V)-Total (mg/kg)	<0.10	<0.10	0.12	<0.10	<0.10
	Zinc (Zn)-Total (mg/kg)	140	37.4	95.7	81.7	171
	Zirconium (Zr)-Total (mg/kg)	<0.20	<0.20	<0.20	<0.20	<0.20

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L2309774-53	L2309774-54	L2309774-55		
	Description					
	Sampled Date	12-JUL-19	12-JUL-19	12-JUL-19		
	Sampled Time					
	Client ID	D4B - NORTH, WILLOW LEAVES	D4B - NORTH, WILLOW TWIGS	D4B - NORTH, EQUISETUM		
Grouping	**Analyte**					
TISSUE						
Metals	Aluminum (Al)-Total (mg/kg)	57.6	36.2	11.6		
	Antimony (Sb)-Total (mg/kg)	0.064	0.056	0.015		
	Arsenic (As)-Total (mg/kg)	1.38	0.731	0.369		
	Barium (Ba)-Total (mg/kg)	11.9	13.5	67.8		
	Beryllium (Be)-Total (mg/kg)	<0.010	<0.010	<0.010		
	Bismuth (Bi)-Total (mg/kg)	0.010	<0.010	<0.010		
	Boron (B)-Total (mg/kg)	10.6	13.0	9.9		
	Cadmium (Cd)-Total (mg/kg)	1.36	1.20	1.26		
	Calcium (Ca)-Total (mg/kg)	8700	4440	17100		
	Cesium (Cs)-Total (mg/kg)	0.0917	0.0455	0.433		
	Chromium (Cr)-Total (mg/kg)	0.199	0.269	0.088		
	Cobalt (Co)-Total (mg/kg)	0.315	0.115	0.071		
	Copper (Cu)-Total (mg/kg)	4.35	7.18	5.27		
	Iron (Fe)-Total (mg/kg)	163	87.5	58.6		
	Lead (Pb)-Total (mg/kg)	0.208	0.122	0.051		
	Lithium (Li)-Total (mg/kg)	<0.50	<0.50	<0.50		
	Magnesium (Mg)-Total (mg/kg)	4240	1420	5150		
	Manganese (Mn)-Total (mg/kg)	262	151	70.0		
	Mercury (Hg)-Total (mg/kg)	0.0054	<0.0050	0.0061		
	Molybdenum (Mo)-Total (mg/kg)	0.192	0.073	0.198		
	Nickel (Ni)-Total (mg/kg)	1.96	0.85	1.54		
	Phosphorus (P)-Total (mg/kg)	1590	1360	2090		
	Potassium (K)-Total (mg/kg)	19100	8410	36600		
	Rubidium (Rb)-Total (mg/kg)	27.2	16.8	86.7		
	Selenium (Se)-Total (mg/kg)	<0.050	<0.050	0.068		
	Sodium (Na)-Total (mg/kg)	<20	<20	<20		
	Strontium (Sr)-Total (mg/kg)	27.6	17.6	56.7		
	Tellurium (Te)-Total (mg/kg)	<0.020	<0.020	<0.020		
	Thallium (Tl)-Total (mg/kg)	<0.0020	<0.0020	<0.0020		
	Tin (Sn)-Total (mg/kg)	<0.10	<0.10	<0.10		
	Uranium (U)-Total (mg/kg)	0.0059	0.0034	0.0026		
	Vanadium (V)-Total (mg/kg)	0.13	<0.10	<0.10		
	Zinc (Zn)-Total (mg/kg)	85.5	117	56.4		
	Zirconium (Zr)-Total (mg/kg)	<0.20	<0.20	<0.20		

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Duplicate	Bismuth (Bi)	DUP-H	L2309774-1, -2
Duplicate	Boron (B)	DUP-H	L2309774-1, -2
Duplicate	Chromium (Cr)	DUP-H	L2309774-1, -2
Duplicate	Cobalt (Co)	DUP-H	L2309774-1, -2
Duplicate	Copper (Cu)	DUP-H	L2309774-1, -2
Duplicate	Silver (Ag)	DUP-H	L2309774-1, -2
Duplicate	Tin (Sn)	DUP-H	L2309774-1, -2
Duplicate	Titanium (Ti)	DUP-H	L2309774-1, -2
Duplicate	Zinc (Zn)	DUP-H	L2309774-1, -2

Qualifiers for Individual Parameters Listed:

Qualifier	Description
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
DUP-H	Duplicate results outside ALS DQO, due to sample heterogeneity.
PSAL	Limited sample was available for PSA (100g minimum is standard). Measurement Uncertainty for PSA results may be higher than usual.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
HG-200.2-CVAF-VA	Soil	Mercury in Soil by CVAAS	EPA 200.2/1631E (mod)

Soil samples are digested with hot nitric and hydrochloric acids, followed by CVAAS analysis. This method is fully compliant with the BC SALM strong acid leachable metals digestion method.

HG-DRY-CVAFS-N-VA	Tissue	Mercury in Tissue by CVAFS (DRY)	EPA 200.3, EPA 245.7

This method is conducted following British Columbia Lab Manual method "Metals in Animal Tissue and Vegetation (Biota) - Prescriptive". Tissue samples are homogenized and sub-sampled prior to hotblock digestion with nitric and hydrochloric acids, in combination with addition of hydrogen peroxide. Analysis is by atomic fluorescence spectrophotometry or atomic absorption spectrophotometry, adapted from US EPA Method 245.7.

MET-200.2-CCMS-VA	Soil	Metals in Soil by CRC ICPMS	EPA 200.2/6020A (mod)

Soil/sediment is dried, disaggregated, and sieved (2 mm). Strong Acid Leachable Metals in the <2mm fraction are solubilized by heated digestion with nitric and hydrochloric acids. Instrumental analysis is by Collision / Reaction Cell ICPMS.

Limitations: This method is intended to liberate environmentally available metals. Silicate minerals are not solubilized. Some metals may be only partially recovered (matrix dependent), including Al, Ba, Be, Cr, S, Sr, Ti, Tl, V, W, and Zr. Elemental Sulfur may be poorly recovered by this method. Volatile forms of sulfur (e.g. sulfide, H2S) may be excluded if lost during sampling, storage, or digestion.

MET-DRY-CCMS-N-VA	Tissue	Metals in Tissue by CRC ICPMS (DRY)	EPA 200.3/6020A

This method is conducted following British Columbia Lab Manual method "Metals in Animal Tissue and Vegetation (Biota) - Prescriptive". Tissue samples are homogenized and sub-sampled prior to hotblock digestion with nitric and hydrochloric acids, in combination with addition of hydrogen peroxide. Instrumental analysis is by collision cell inductively coupled plasma - mass spectrometry (modified from EPA Method 6020A).

Method Limitation: This method employs a strong acid/peroxide digestion, and is intended to provide a conservative estimate of bio-available metals. Near complete recoveries are achieved for most toxicologically important metals, but elements associated with recalcitrant minerals may be only partially recovered.

N-TOT-LECO-SK	Soil	Total Nitrogen by combustion method	CSSS (2008) 22.4

The sample is ignited in a combustion analyzer where nitrogen in the reduced nitrous oxide gas is determined using a thermal conductivity detector.

N2/N3-AVAIL-SK	Soil	Nitrate, Nitrite and Nitrate+Nitrite-N	APHA 4500 NO3F

Available Nitrate and Nitrite are extracted from the soil using a dilute calcium chloride solution. Nitrate plus Nitrite is quantitatively reduced to nitrite by passage of the sample through a copperized cadmium column. The nitrite (reduced nitrate plus original nitrite) is then determined by diazotizing with sulfanilamide followed by coupling with N-(1-naphthyl) ethylenediamine dihydrochloride. The resulting water soluble dye has a magenta color which is measured at colorimetrically at 520nm. Nitrite is determined on the same extract by following the same instrumental procedure without a cadmium column.
Reference: Recommended Methods of Soil Analysis for Canadian Prairie Agricultural Soils. Alberta Agriculture (1988) p. 19 and 28

PH-1:2-VA	Soil	pH in Soil (1:2 Soil:Water Extraction)	BC WLAP METHOD: PH, ELECTROMETRIC, SOIL

This analysis is carried out in accordance with procedures described in "pH, Electrometric in Soil and Sediment - Prescriptive Method", Rev. 2005, Section B Physical, Inorganic and Misc. Constituents, BC Environmental Laboratory Manual. The procedure involves mixing the dried (at <60°C) and sieved (No. 10 / 2mm) sample with deionized/distilled water at a 1:2 ratio of sediment to water. The pH of the solution is then measured using a standard pH probe.

Reference Information

PO4/K-AVAIL-SK	Soil	Plant Available Phosphorus and Potassium	Comm. Soil Sci. Plant Anal, 25 (5&6)

Plant available phosphorus and potassium are extracted from the soil usng Modified Kelowna solution. Phosphorous in the soil extract is determined colorimetrically at 880 nm, while potassiumis determined by flame emission at 770 nm.

PSA-1-SK	Soil	Particle Size Analysis:Mini-Pipet Method	SSIR-51 Method 3.2.1

Dry, < 2 mm soil is treated with sodium hexametaphosphate to ensure complete dispersion of primary soil particles. After treatment, sub-samples of the homogenized soil suspension are taken at specific times and sampling depths as determined by Stoke's Law. The dry weight of soil found in each sub-sample is used determine the silt and clay content. The sand fraction is determined by difference.

The soil texture is determined according to the CSSC soil texture triangle.

PSA-3-SK	Soil	Particle size - Pipette removal OM & CO3	SSIR-51 Method 3.2.1

Dry, < 2 mm soil is treated hydrochloric acid top remove carbonates, then hydrogen peroxide to remove organic matter. The soil is then treated with sodium hexametaphosphate to ensure complete dispersion of primary soil particles. After treatment, sub-samples of the homogenized soil suspension are taken at specific times and sampling depths as determined by Stoke's Law. The dry weight of soil found in each sub-sample is used determine the silt and clay content. The sand fraction is determined by difference.

The soil texture is determined according to the CSSC soil texture triangle.

S-TOT-LECO-SK	Soil	Total Sulphur by combustion method	ISO 15178:2000

The air-dried sample is ignited in a combustion analyzer where sulfur in the reduced SO2 gas is determined using a thermal conductivity detector.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
SK	ALS ENVIRONMENTAL - SASKATOON, SASKATCHEWAN, CANADA
VA	ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA

Chain of Custody Numbers:

1 of 5 2 of 5 3 of 5 4 of 5 5 of 5

GLOSSARY OF REPORT TERMS

Surrogate - A compound that is similar in behaviour to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.
mg/kg - milligrams per kilogram based on dry weight of sample.
mg/kg wwt - milligrams per kilogram based on wet weight of sample.
mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight of sample.
mg/L - milligrams per litre.
< - Less than.
D.L. - The reported Detection Limit, also known as the Limit of Reporting (LOR).
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

L2309774-COFC

ALS Environmental

Chain of Custody / Analytical Request Form
Canada Toll Free: 1 800 668 9878
www.alsglobal.com

COC # _____

Page 1 of 5

Report To		**Report Format / Distribution**		**Service Requested** (Rush for routine analysis subject to availability)
Company:	StrataGold Corporation	■ Standard □ Other		■ Regular (Standard Turnaround Times - Business Days)
Contact:	Hugh Coyle	■ PDF ■ Excel ■ Digital □ Fax		○ Priority (2-4 Business Days) - 50% Surcharge - Contact ALS to Confirm TAT
Address:	1000 - 1050 West Pender Street	Email 1:	hcoyle@vitgoldcorp.com	○ Emergency (1-2 Bus. Days) - 100% Surcharge - Contact ALS to Confirm TAT
	Vancouver, BC V6E 3S7	Email 2:	bonnieburns@northwestel.net	○ Same Day or Weekend Emergency - Contact ALS to Confirm TAT
Phone:	604-696-6600 Fax:	Email 3:	Jknox@vitgoldcorp.com,	**Analysis Request**
Invoice To	Same as Report ? ■ Yes □ No	**Client / Project Information**		Please indicate below Filtered, Preserved or both (F, P, F/P)
Hardcopy of Invoice with Report?	□ Yes ■ No	Job #:	Eagle Gold	
Company:		PO / AFE:		
Contact:		LSD:	Victoria Gold Corp.	
Address:				
Phone:	Fax:	Quote #:	Q69297, Dublin Gulch Samples	
Lab Work Order # (lab use only)		**ALS Contact:**	Heather Mackenzie	**Sampler:** Bonnie Burns &Crystal Beaudry

Sample #	Sample Identification (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	Total Nitrogen	Nitrate, Nitrite etc	Metals, CCME	Particle Size Analysis	Total Sulphur	Plant Available P and K		Mercury in tissue	Metals in tissue				Number of Containers
	D-2	12-Jul-19		Soil	X	X	X	X	X	X							2
	D-4	12-Jul-19		Soil	X	X	X	X	X	X							2
	D1 - Centre, willow leaves	11-Jul-19										X	X				1
	D1 - Centre, willow twigs	11-Jul-19										X	X				1
	D1 - Centre, dwarf birch	11-Jul-19										X	X				1
	D1 - East, willow leaves	11-Jul-19										X	X				1
	D1 - East, willow twigs	11-Jul-19										X	X				1
	D1 - East, dwarf birch	11-Jul-19										X	X				1
	D1 - West, willow leaves	11-Jul-19										X	X				1
	D1 - West, willow twigs	11-Jul-19										X	X				1
	D1 - West, dwarf birch	11-Jul-19										X	X				1
	D1 - South, willow leaves	11-Jul-19										X	X				1
	D1 - South, willow twigs	11-Jul-19										X	X				1

Special Instructions / Regulations with water or land use (CCME-Freshwater Aquatic Life/BC CSR - Commercial/AB Tier 1 - Natural, etc) / Hazardous Details

DO NOT RINSE THE TISSUE SAMPLES. WE WANT THE ANALYSIS TO INCLUDE THE DUST ON THE LEAVES ETC AS WELL AS INCLUDING THE UPTAKE OF METALS IN THE PLANTS.

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.
By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided on a separate Excel tab.
Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses.

SHIPMENT RELEASE (client use)			SHIPMENT RECEPTION (lab use only)			SHIPMENT VERIFICATION (lab use only)			
Released by:	Date (dd-mmm-yy)	Time (hh-mm)	Received by:	Date:	Time:	Temperature:	Verified by:	Date:	Time:	Observations: Yes / No ? If Yes add SIF
Bonnie Burns	15-Jul-19			July 5/19	10:15	5 °C				
			BC.	16/7/19	11:40	1 °C				

GENF 20.00 Front

L2309774-COFC

ALS Environmental

Chain of Custody / An
Canada Toll Free
www.alsglobal.com

COC #

Report To		**Report Format / Distribution**	**Service Requested** (Rush for routine analysis subject to availability)
Company:	StrataGold Corporation	☑ Standard ☐ Other	● Regular (Standard Turnaround Times - Business Days)
Contact:	Hugh Coyle	☑ PDF ☑ Excel ☑ Digital ☐ Fax	○ Priority (2-4 Business Days) - 50% Surcharge - Contact ALS to Confirm TAT
Address:	1000 - 1050 West Pender Street	Email 1: hcoyle@vitgoldcorp.com	○ Emergency (1-2 Bus. Days) - 100% Surcharge - Contact ALS to Confirm TAT
	Vancouver, BC V6E 3S7	Email 2: bonnieburns@northwestel.net	○ Same Day or Weekend Emergency - Contact ALS to Confirm TAT
Phone:	604-696-6600 Fax:	Email 3: Jknox@vitgoldcorp.com,	**Analysis Request**
Invoice To	Same as Report ? ☑ Yes ☐ No	**Client / Project Information**	Please indicate below Filtered, Preserved or both (F, P, F/P)
Hardcopy of Invoice with Report?	☐ Yes ☑ No	Job #: Eagle Gold	
Company:		PO / AFE:	
Contact:		LSD: Victoria Gold Corp.	
Address:			
Phone:	Fax:	Quote #: Q69297, Dublin Gulch Samples	
Lab Work Order # (lab use only)		**ALS Contact:** Heather Mackenzie **Sampler:** Bonnie Burns & Crystal Beaudry	

Sample #	Sample Identification (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	Mercury in tissue	Metals in tissue	Number of Containers
	D1 - South-dwarf birch	11-Jul-19			X	X	1
	D1 - North, willow leaves	11-Jul-19			X	X	1
	D1 - North, willow twigs	11-Jul-19			X	X	1
	D1 - North, dwarf birch	11-Jul-19			X	X	1
	D1 - all plots, fescue	11-Jul-19			X	X	1
	D2 - South, willow leaves	10-Jul-19			X	X	1
	D2 - South, dwarf birch	10-Jul-19			X	X	1
	D2 - West, willow leaves	10-Jul-19			X	X	1
	D2 - West, willow twigs	10-Jul-19			X	X	1
	D2 - East, paper birch leaves	10-Jul-19			X	X	1
	D2 - East, paper birch twigs	10-Jul-19			X	X	1
	D2 - Centre, willow leaves	10-Jul-19			X	X	1
	D2 - Centre, willow twigs	10-Jul-19			X	X	1

Special Instructions / Regulations with water or land use (CCME-Freshwater Aquatic Life/BC CSR - Commercial/AB Tier 1 - Natural, etc) / Hazardous Details

DO NOT RINSE THE TISSUE SAMPLES. WE WANT THE ANALYSIS TO INCLUDE THE DUST ON THE LEAVES ETC AS WELL AS INCLUDING THE UPTAKE OF METALS IN THE PLANTS.

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.

By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided on a separate Excel tab.

Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses.

SHIPMENT RELEASE (client use)			SHIPMENT RECEPTION (lab use only)				SHIPMENT VERIFICATION (lab use only)			
Released by:	Date (dd-mmm-yy)	Time (hh-mm)	Received by:	Date:	Time:	Temperature:	Verified by:	Date:	Time:	Observations: Yes / No ? If Yes add SIF
Bonnie Burns			BC	16/7/19	11:40	1 °C				

ALS Environmental

Chain of Custody / Analy
Canada Toll Free: 1
www.alsglob

L2309774-COFC

_____

Page 3 of 5

Report To		**Report Format / Distribution**	**Service Requested** (Rush for routine analysis subject to availability)
Company:	StrataGold Corporation	☒ Standard ☐ Other	● Regular (Standard Turnaround Times - Business Days)
Contact:	Hugh Coyle	☒ PDF ☒ Excel ☒ Digital ☐ Fax	○ Priority (2-4 Business Days) - 50% Surcharge - Contact ALS to Confirm TAT
Address:	1000 - 1050 West Pender Street	Email 1: hcoyle@vitgoldcorp.com	○ Emergency (1-2 Bus. Days) - 100% Surcharge - Contact ALS to Confirm TAT
	Vancouver, BC V6E 3S7	Email 2: bonnieburns@northwestel.net	○ Same Day or Weekend Emergency - Contact ALS to Confirm TAT
Phone:	604-696-6600 Fax:	Email 3: Jknox@vitgoldcorp.com, cbeaudry@vitgoldcorp.c	**Analysis Request**
Invoice To	Same as Report ? ☒ Yes ☐ No	**Client / Project Information**	Please indicate below Filtered, Preserved or both (F, P, F/P)
Hardcopy of Invoice with Report?	☐ Yes ☒ No	Job #: Eagle Gold	
Company:		PO / AFE:	
Contact:		LSD: Victoria Gold Corp.	
Address:			
Phone:	Fax:	Quote #: Q69297, Dublin Gulch Samples	
Lab Work Order # (lab use only)		**ALS Contact:** Heather Mackenzie **Sampler:** Bonnie Burns & Crystal Beaudry	

Sample #	Sample Identification (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	Mercury in tissue	Metals in tissue										Number of Containers
	D2- Centre, fescue	10-Jul-19			X	X										1
	D2 - North, willow leaves	10-Jul-19			X	X										1
	D2 - North, willow twigs	10-Jul-19			X	X										1
	D2 - North, equisetum	10-Jul-19			X	X										1
	D3 - South, willow leaves	11-Jul-19			X	X										1
	D3 - South, willow twigs	11-Jul-19			X	X										1
	D3 - Centre, willow leaves	11-Jul-19			X	X										1
	D3 - Centre, willow twigs	11-Jul-19			X	X										1
	D3 - Centre, dwarf birch	11-Jul-19			X	X										1
	D3 - North, willow leaves	11-Jul-19			X	X										1
	D3 - North, willow twigs	11-Jul-19			X	X										1
	D3 - North, dwarf birch	11-Jul-19			X	X										1
	D3 - West, willow leaves	11-Jul-19			X	X										1

Special Instructions / Regulations with water or land use (CCME-Freshwater Aquatic Life/BC CSR - Commercial/AB Tier 1 - Natural, etc) / Hazardous Details

DO NOT RINSE THE TISSUE SAMPLES. WE WANT THE ANALYSIS TO INCLUDE THE DUST ON THE LEAVES ETC AS WELL AS INCLUDING THE UPTAKE OF METALS IN THE PLANTS.

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.

By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided on a separate Excel tab.

Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses.

SHIPMENT RELEASE (client use)			SHIPMENT RECEPTION (lab use only)				SHIPMENT VERIFICATION (lab use only)			
Released by:	Date (dd-mmm-yy)	Time (hh:mm)	Received by:	Date:	Time:	Temperature:	Verified by:	Date:	Time:	Observations: Yes / No ? If Yes add SIF
Bonnie Burns			BC	16/7/19	11:40	1 °C				

GENF 20.00 Front

ALS Environmental

Chain of Custody / A
Canada Toll Fr
www.als

L2309774-COFC

COC # _____

Report To		Report Format / Distribution		Service Requested (Rush for routine analysis subject to availability)
Company:	StrataGold Corporation	☑ Standard ☐ Other		● Regular (Standard Turnaround Times - Business Days)
Contact:	Hugh Coyle	☑ PDF ☑ Excel ☑ Digital ☐ Fax		○ Priority (2-4 Business Days) - 50% Surcharge - Contact ALS to Confirm TAT
Address:	1000 - 1050 West Pender Street	Email 1:	hcoyle@vitgoldcorp.com	○ Emergency (1-2 Bus. Days) - 100% Surcharge - Contact ALS to Confirm TAT
	Vancouver, BC V6E 3S7	Email 2:	bonnieburns@northwestel.net	○ Same Day or Weekend Emergency - Contact ALS to Confirm TAT
Phone:	604-696-6600 Fax:	Email 3:	jknox@vitgoldcorp.com	**Analysis Request**
Invoice To	Same as Report ? ☑ Yes ☐ No	**Client / Project Information**		Please indicate below Filtered, Preserved or both (F, P, F/P)
Hardcopy of Invoice with Report?	☐ Yes ☑ No	Job #:	Eagle Gold	
Company:		PO / AFE:		
Contact:		LSD:	Victoria Gold Corp.	
Address:				
Phone:	Fax:	Quote #:	Q69297, Dublin Gulch Samples	
Lab Work Order # (lab use only)		**ALS Contact:**	Heather Mackenzie	**Sampler:** Bonnie Burns & Crystal Beaudry

Sample #	Sample Identification (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	Mercury in tissue	Metals in tissue									Number of Containers
	D3 - West, willow twigs	11-Jul-19			X	X									1
	D3 - West, dwarf birch	11-Jul-19			X	X									1
	D3 - East, willow leaves	11-Jul-19			X	X									1
	D3 - East, dwarf birch	11-Jul-19			X	X									1
	D3 through plot, fescue	11-Jul-19			X	X									1
	D4B - Centre, dwarf birch	12-Jul-19			X	X									1
	D4B - Centre, equisetum	12-Jul-19			X	X									1
	D4B - West, dwarf birch	12-Jul-19			X	X									1
	D4B - West, willow leaves	12-Jul-19			X	X									1
	D4B - South, willow leaves	12-Jul-19			X	X									1
	D4B - South, willow twigs	12-Jul-19			X	X									1
	D4B - East, willow leaves	12-Jul-19			X	X									1
	D4B - East, dwarf birch	12-Jul-19			X	X									1

DO NOT RINSE THE TISSUE SAMPLES. WE WANT THE ANALYSIS TO INCLUDE THE DUST ON THE LEAVES ETC AS WELL AS INCLUDING THE UPTAKE OF METALS IN THE PLANTS.

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.

By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided on a separate Excel tab.

Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses.

SHIPMENT RELEASE (client use)			SHIPMENT RECEPTION (lab use only)				SHIPMENT VERIFICATION (lab use only)			
Released by:	Date (dd-mmm-yy)	Time (hh-mm)	Received by:	Date:	Time:	Temperature:	Verified by:	Date:	Time:	Observations: Yes / No ? If Yes add SIF
Bonnie Burns			BC	16/7/19	11:40	1 °C				

ALS Environmental

Chain of Custody / Canada Toll F
www.a...

L2309774-COFC

COC # _____

Page 5 of 5

Report To		**Report Format / Distribution**		**Service Requested** (Rush for routine analysis subject to availability)
Company:	StrataGold Corporation	☑ Standard ☐ Other		● Regular (Standard Turnaround Times - Business Days)
Contact:	Hugh Coyle	☑ PDF ☑ Excel ☑ Digital ☐ Fax		○ Priority (2-4 Business Days) - 50% Surcharge - Contact ALS to Confirm TAT
Address:	1000 - 1050 West Pender Street	Email 1:	hcoyle@vitgoldcorp.com	○ Emergency (1-2 Bus. Days) - 100% Surcharge - Contact ALS to Confirm TAT
	Vancouver, BC V6E 3S7	Email 2:	bonnieburns@northwestel.net	○ Same Day or Weekend Emergency - Contact ALS to Confirm TAT
Phone:	604-696-6600 Fax:	Email 3:	Jknox@vitgoldcorp.com	**Analysis Request**
Invoice To	Same as Report ? ☑ Yes ☐ No	**Client / Project Information**		Please indicate below Filtered, Preserved or both (F, P, F/P)
Hardcopy of Invoice with Report?	☐ Yes ☑ No	Job #:	Eagle Gold	
Company:		PO / AFE:		
Contact:		LSD:	Victoria Gold Corp.	
Address:				
Phone:	Fax:	Quote #:	Q69297, Dublin Gulch Samples	
Lab Work Order # (lab use only)		**ALS Contact:**	Heather Mackenzie	**Sampler:** Bonnie Burns & Crystal Beaudry

Sample #	Sample Identification (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	Mercury in tissue	Metals in tissue										Number of Containers
	D4B - North, willow leaves	12-Jul-19			X	X										1
	D4B - North, willow twigs	12-Jul-19			X	X										1
	D4B - North, equisetum	12-Jul-19			X	X										1

Special Instructions / Regulations with water or land use (CCME-Freshwater Aquatic Life/BC CSR - Commercial/AB Tier 1 - Natural, etc) / Hazardous Details

DO NOT RINSE THE TISSUE SAMPLES. WE WANT THE ANALYSIS TO INCLUDE THE DUST ON THE LEAVES ETC AS WELL AS INCLUDING THE UPTAKE OF METALS IN THE PLANTS.

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.

By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided on a separate Excel tab.

Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses.

SHIPMENT RELEASE (client use)			SHIPMENT RECEPTION (lab use only)				SHIPMENT VERIFICATION (lab use only)			
Released by:	Date (dd-mmm-yy)	Time (hh-mm)	Received by:	Date:	Time:	Temperature:	Verified by:	Date:	Time:	Observations: Yes / No ? If Yes add SIF
Bonnie Burns			BC	16/7/19	11:40	1 °C				

GENF 20.00 Front

APPENDIX B

PHOTOGRAPHS, JULY 2019

APPENDIX B PHOTOGRAPHS, JULY 2019

Photo #1: Collecting foliar samples at D-1, north plot.

Photo #4: Identifying plants at the west plot at D-2.

Photo #2: White heather (*Cassiope tetragona*) at D-1.

Photo #5: Dwarf birch (B*etula glandulosa*) dominated site D-3.

Photo #3: Equisetum dominated the north plot at D-2.

Photo #6: Collecting vegetation samples at D-3.

Photo #7: Moss (Polytricum sp) at D-3.

Photo #8: D-4B, looking from near centre plot to south plot.

Photo #9: Sampling willow leaves at D-4B, east plot.

Photo # 10: Ladies tresses orchid, (*Spiranthes romanzoffiana*) at D-4B.

Photo #11: Blueberry willow (*Salix myrtillifolia*) at D-4B.

APPENDIX C

SOILS DATA

- **TABLE C-1**
- **ANALYTICAL REPORT, JULY 2019**

Table C-1 SUMMARY OF ANALYTICAL RESULTS (mg/kg)			
Site	**D-2**	**D-4B**	**Lowest Detection Limit**
Date Sampled	12-Jul-2019	12-Jul-2019	
pH (1:2 soil:water)	8.23	6.00	0.1
Aluminum (Al)	8340	5200	50
Antimony (Sb)	2.32	3.44	0.10
Arsenic (As)	32.8	5.17	0.10
Barium (Ba)	348	327	0.50
Beryllium (Be)	0.31	0.30	0.10
Bismuth (Bi)	0.24	<0.20	0.20
Boron (B)	<5.0	<5.0	5.0
Cadmium (Cd)	0.380	0.418	0.020
Calcium (Ca)	11600	38600	50
Chromium (Cr)	18.8	6.18	0.50
Cobalt (Co)	8.81	3.86	0.10
Copper (Cu)	27.9	25.9	0.50
Iron (Fe)	22000	5920	50
Lead (Pb)	12.6	8.43	0.50
Lithium (Li)	10.2	<2.0	2.0
Magnesium (Mg)	5760	2330	20
Manganese (Mn)	425	510	1.0
Mercury (Hg)	0.0329	0.146	0.0050
Molybdenum (Mo)	1.01	0.66	0.10
Nickel (Ni)	24.3	12.8	0.50
Phosphorus (P)	808	1080	50
Potassium (K)	840	220	100
Selenium (Se)	0.32	0.86	0.20
Silver (Ag)	0.15	0.58	0.10
Sodium (Na)	119	107	50
Strontium (Sr)	35.0	156	0.50
Sulfur (S)	<1000	1600	1000
Sulfur (S)-Total	<500	5100	500
Thallium (Tl)	0.088	0.054	0.050
Tin (Sn)	<2.0	<2.0	2.0
Titanium (Ti)	425	109	1.0
Tungsten (W)	1.73	<0.50	0.50
Uranium (U)	0.600	0.998	0.050
Vanadium (V)	33.8	8.55	0.20
Zinc (Zn)	66.8	20.3	2.0
Zirconium (Zr)	3.2	3.2	1.0

STRATAGOLD CORPORATION
ATTN: Hugh Coyle
Suite 1000 - 1050 W. Pender St
Vancouver BC V6E 3S7

Date Received: 15-JUL-19
Report Date: 29-AUG-19 13:07 (MT)
Version: FINAL

Client Phone: 604-682-5122

Certificate of Analysis

Lab Work Order #: L2309774

Project P.O. #:	NOT SUBMITTED
Job Reference:	EAGLE GOLD
C of C Numbers:	1 of 5, 2 of 5, 3 of 5, 4 of 5, 5 of 5
Legal Site Desc:	Victoria Gold Corp.

Hilary Woods
Account Manager

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L2309774-1	L2309774-2			
	Description	Soil	Soil			
	Sampled Date	12-JUL-19	12-JUL-19			
	Sampled Time					
	Client ID	D-2	D-4B			
Grouping	**Analyte**					
SOIL						
Physical Tests	pH (1:2 soil:water) (pH)	8.23	6.00			
Particle Size	% Sand (2.0mm - 0.05mm) (%)	41.2	20.2 PSAL			
	% Silt (0.05mm - 2um) (%)	54.7	58.9 PSAL			
	% Clay (<2um) (%)	4.1	20.9 PSAL			
	Texture	Silt loam	Silt loam			
Anions and Nutrients	Total Nitrogen by LECO (%)	0.025	1.12			
Plant Available Nutrients	Nitrate+Nitrite-N (mg/kg)	<2.0 DLM	<5.0 DLM			
	Nitrate-N (mg/kg)	<2.0 DLM	<5.0 DLM			
	Nitrite-N (mg/kg)	<0.80 DLM	<2.0 DLM			
	Available Phosphate-P (mg/kg)	<2.0	<4.0 DLM			
	Available Potassium (mg/kg)	47	96 DLM			
Metals	Aluminum (Al) (mg/kg)	8340	5200			
	Antimony (Sb) (mg/kg)	2.32	3.44			
	Arsenic (As) (mg/kg)	32.8	5.17			
	Barium (Ba) (mg/kg)	348	327			
	Beryllium (Be) (mg/kg)	0.31	0.30			
	Bismuth (Bi) (mg/kg)	0.24	<0.20			
	Boron (B) (mg/kg)	<5.0	<5.0			
	Cadmium (Cd) (mg/kg)	0.380	0.418			
	Calcium (Ca) (mg/kg)	11600	38600			
	Chromium (Cr) (mg/kg)	18.8	6.18			
	Cobalt (Co) (mg/kg)	8.81	3.86			
	Copper (Cu) (mg/kg)	27.9	25.9			
	Iron (Fe) (mg/kg)	22000	5920			
	Lead (Pb) (mg/kg)	12.6	8.43			
	Lithium (Li) (mg/kg)	10.2	<2.0			
	Magnesium (Mg) (mg/kg)	5760	2330			
	Manganese (Mn) (mg/kg)	425	510			
	Mercury (Hg) (mg/kg)	0.0329	0.146			
	Molybdenum (Mo) (mg/kg)	1.01	0.66			
	Nickel (Ni) (mg/kg)	24.3	12.8			
	Phosphorus (P) (mg/kg)	808	1080			
	Potassium (K) (mg/kg)	840	220			
	Selenium (Se) (mg/kg)	0.32	0.86			
	Silver (Ag) (mg/kg)	0.15	0.58			
	Sodium (Na) (mg/kg)	119	107			

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L2309774-1	L2309774-2			
	Description	Soil	Soil			
	Sampled Date	12-JUL-19	12-JUL-19			
	Sampled Time					
	Client ID	D-2	D-4B			
Grouping	**Analyte**					
SOIL						
Metals	Strontium (Sr) (mg/kg)	35.0	156			
	Sulfur (S) (mg/kg)	<1000	1600			
	Sulfur (S)-Total (mg/kg)	<500	5100			
	Thallium (Tl) (mg/kg)	0.088	0.054			
	Tin (Sn) (mg/kg)	<2.0	<2.0			
	Titanium (Ti) (mg/kg)	425	109			
	Tungsten (W) (mg/kg)	1.73	<0.50			
	Uranium (U) (mg/kg)	0.600	0.998			
	Vanadium (V) (mg/kg)	33.8	8.55			
	Zinc (Zn) (mg/kg)	66.8	20.3			
	Zirconium (Zr) (mg/kg)	3.2	3.2			

* Please refer to the Reference Information section for an explanation of any qualifiers detected.