095504

GEOCHEMICAL ASSESSMENT REPORT

for work performed on the

KLUANE PROPERTIES

Gladstone:

A 1 – 30	YD68503 – YD68532	A 153 – 192	YD68655 – YD68694
A 31 – 32	YD108374 – YD108375	A 193 – 204	YD68595 – YD68606
A 33 – 88	YD68535 – YD68590	A 205 – 240	YD68707 – YD68742
A 89 – 92	YD108376 – YD108379	A 241 – 252	YD68643 – YD68654
A 93 – 104	YD68695 – YD68706	A 253 – 294	YD68755 – YD68796
A 105 – 140	YD68607 – YD68642	A 295 – 404	YD125033 – YD125142
A 141 – 152	YD68743 – YD68754		

NTS 115G08, 115G07, 115G01, 115H04
Latitude 61° 19' N, Longitude 138° 26' W

Cliff:

Cliff 1 – 60 YD125143 – YD125202

NTS 115H04
Latitude 61° 9' N, Longitude 137° 38' W

095504

Tahl:

Tahl 1 – 32 YD125203 – YD125234

NTS 115G07
Latitude 61° 22' N, Longitude 138° 36' W

Located in the
Whitehorse Mining District, Yukon Territory

prepared by:
SCOTT BERDAHL

Claims owned by:
18526 Yukon Inc.

Work performed:
JUNE 20 - 24, 2011

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INTRODUCTION

18526 Yukon Inc.'s Kluane properties comprise the "Gladstone," "Cliff" and "Tahl" properties, located east of Kluane Lake in the Ruby Range mountains of the southwestern Yukon Territory. The properties were staked in 2010 and 2011 to cover potential hard-rock sources placer gold in Gladstone, Twelfth of July and surrounding placer creeks of the Ruby Range.

This report describes the June 2011 soil sampling program conducted on the Kluane properties by 18526 Yukon Inc. Contour soil lines were taken over a small region of the overall property as a first pass assessment of mineral potential. Approximately 25 km of soil lines were completed at 50 m station spacing. Anomalous concentrations of gold up to a survey maximum 244.9 ppb were encountered in soils to the south of Gladstone Creek, whereas on the Cliff property an approximately 600 x 1000 m zone of elevated to anomalous gold and arsenic values was detected, with additional anomalous values around the periphery.

WORK HISTORY

Placer gold was discovered on Ruby Creek in June of 1903 by Skookum Jim Mason and Dawson Charlie, discoverers of the Klondike gold fields, along with Jim Boss. That summer saw a stampede of over 500 prospectors to the region, with claims staked on Fourth of July, Twelfth of July and surrounding creeks. Gold production soon commenced on these creeks and spread northwest to Gladstone, Cultus, Cyr and Swanson creeks.

Sporadic records of placer activity in the Ruby Range exist for much of the twentieth century. A decent overview for Gladstone Creek through to the early 1980s is described by Ostensoe (1984). From 1952 through 1955, 5,770 ounces of gold were recovered from Gladstone Creek, and evidence suggests that returns of over 1,000 ounces per year have been the norm during production since the late 1970s. Gladstone's current placer operator has recovered nearly 50,000 ounces from the creek since 1991. The 2010 Yukon Placer Mining Overview published by the Yukon Government gives figures of 1859 and 1156 ounces of placer gold produced from the Kluane Lake Region in 2009 and 2010, respectively (Lebarge, 2010).

Exploration for the hard rock source of the Ruby Range placer has thus far been sparse, and fairly limited in scope. A sampling program by Big Creek Resources in 1988 reportedly returned a gold-in-soils value of 845 ppb (Yukon MINFILE *115G 104*), but this has not been followed up on. Yukon prospector JP Ross worked in the area intermittently from the late 1980s through to his passing in 2008, conducting general prospecting and stream sediment sampling. Most notable was his discovery of gold near Killermun Lake (30 km southeast of Gladstone, immediately northwest of the Cliff), where anomalous to visible gold is found in quartz-

carbonate veins and along recessive-weathering shear structures. Near Gladstone Creek, Ross located quartz vein float which assayed 267.19 g/t Au (Ross, 2005). At the time of writing, both of these occurrences are held by Rockhaven Resources.

Ross was advised by geologist Craig Hart in the mid 2000s to follow up on a metamorphic gradient crosscutting the Ruby Range (Ross, 2005), which passes through the headwaters of several placer streams and intersects the Killermun occurrence, as a possible gold source. The first detailed mapping of this gradient and the geology of the eastern Kluane Lake area was conducted by YGS geologist Steve Israel in 2010. This mapping was used by 18526 Yukon Inc. as a guide for 2010 and 2011 regional staking.

PROPERTY INFORMATION

At the time of the 2011 soils survey, the Gladstone property consisted of 404 quartz claims. The Cliff property consisted of 60 claims, and the Tahl 32 claims. All claims are registered with the Whitehorse Mining Recorder in the name of 18526 Yukon Inc. (Table 1). Additional staking has since brought the Gladstone property to a size of 764 claims and the Cliff property to 122. Ten "Dipper" claims have also been staked north of Gladstone Creek. The 2011 soils program was conducted and paid for by 18526 Yukon Inc.

Table 1 - Claim Tenure Information

Property	*Claim Name*	*Grant Numbers*	*Owner*
Gladstone	A 1 – 30	YD68503 – YD68532	18526 Yukon Inc. - 100%
	A 31 – 32	YD108374 – YD108375	18526 Yukon Inc. - 100%
	A 33 – 88	YD68535 – YD68590	18526 Yukon Inc. - 100%
	A 89 – 92	YD108376 – YD108379	18526 Yukon Inc. - 100%
	A 93 – 104	YD68695 – YD68706	18526 Yukon Inc. - 100%
	A 105 – 140	YD68607 – YD68642	18526 Yukon Inc. - 100%
	A 141 – 152	YD68743 – YD68754	18526 Yukon Inc. - 100%
	A 153 – 192	YD68655 – YD68694	18526 Yukon Inc. - 100%
	A 193 – 204	YD68595 – YD68606	18526 Yukon Inc. - 100%
	A 205 – 240	YD68707 – YD68742	18526 Yukon Inc. - 100%
	A 241 – 252	YD68643 – YD68654	18526 Yukon Inc. - 100%
	A 253 – 294	YD68755 – YD68796	18526 Yukon Inc. - 100%
	A 295 – 404	YD125033 – YD125142	18526 Yukon Inc. - 100%
Cliff	Cliff 1 – 60	YD125143 – YD125202	18526 Yukon Inc. - 100%
Tahl	Tahl 1 – 32	YD125203 – YD125234	18526 Yukon Inc. - 100%

LOCATION AND ACCESS

The Kluane properties—Gladstone, Cliff and Tahl—are located in the Ruby Range, to the east of Kluane Lake, in the southwestern Yukon Territory, Canada.

The Gladstone property stretches southeast from the southern side of Gladstone Creek for over 30 km to the headwaters of Twelfth of July Creek. The 2011 soils survey was centered near the northwestern end of the property, at 61° 19' N latitude and 138° 26' W longitude. The property sits 24 km north of the Alaska Highway near the Silver City airstrip and Kluane B&B on the eastern shore of Kluane Lake, and is less than 10 km from the community of Destruction Bay along the Alaska Highway on the opposite shore of the lake. The property is road accessible at its northwest end and nearly road accessible at its southeast end via a network of dirt roads maintained by placer miners operating in the Ruby Range. It can also be accessed by boat across Kluane Lake in the summer, or across the lake ice in mid to late winter. An old, road-accessible airstrip (condition unknown to author) is situated south of the placer workings on Twelfth of July Creek, about 8 km south of the southeast end of the property. Central, mountainous regions of the property are best accessed by helicopter.

Gladstone sits 23 km southeast of Burwash Landing, 56 km northwest of Haines Junction, and 167 km northwest of the Whitehorse International Airport.

The Cliff property lies 17 km to the southeast of the Gladstone property, immediately east of Killermun and Shutdunmun Lakes at approximately 61° 9' N latitude and 137° 38' W longitude. It is 36 km northeast of Silver City, 17 km east of the aforementioned Twelfth of July airstrip, and 40 km northwest of Haines Junction. Both Killermun and Shutdunmun Lakes are float plane accessible. Most of the property is helicopter accessible, and even the treed, low-lying valley underlying the northern end of the property has various abundant clearings for helicopter pickup.

The Tahl claims are situated 4 km north of the northwestern end of the Gladstone property, on a north-facing hillside to the north of Gladstone Creek. They are largely above treeline and helicopter accessible.

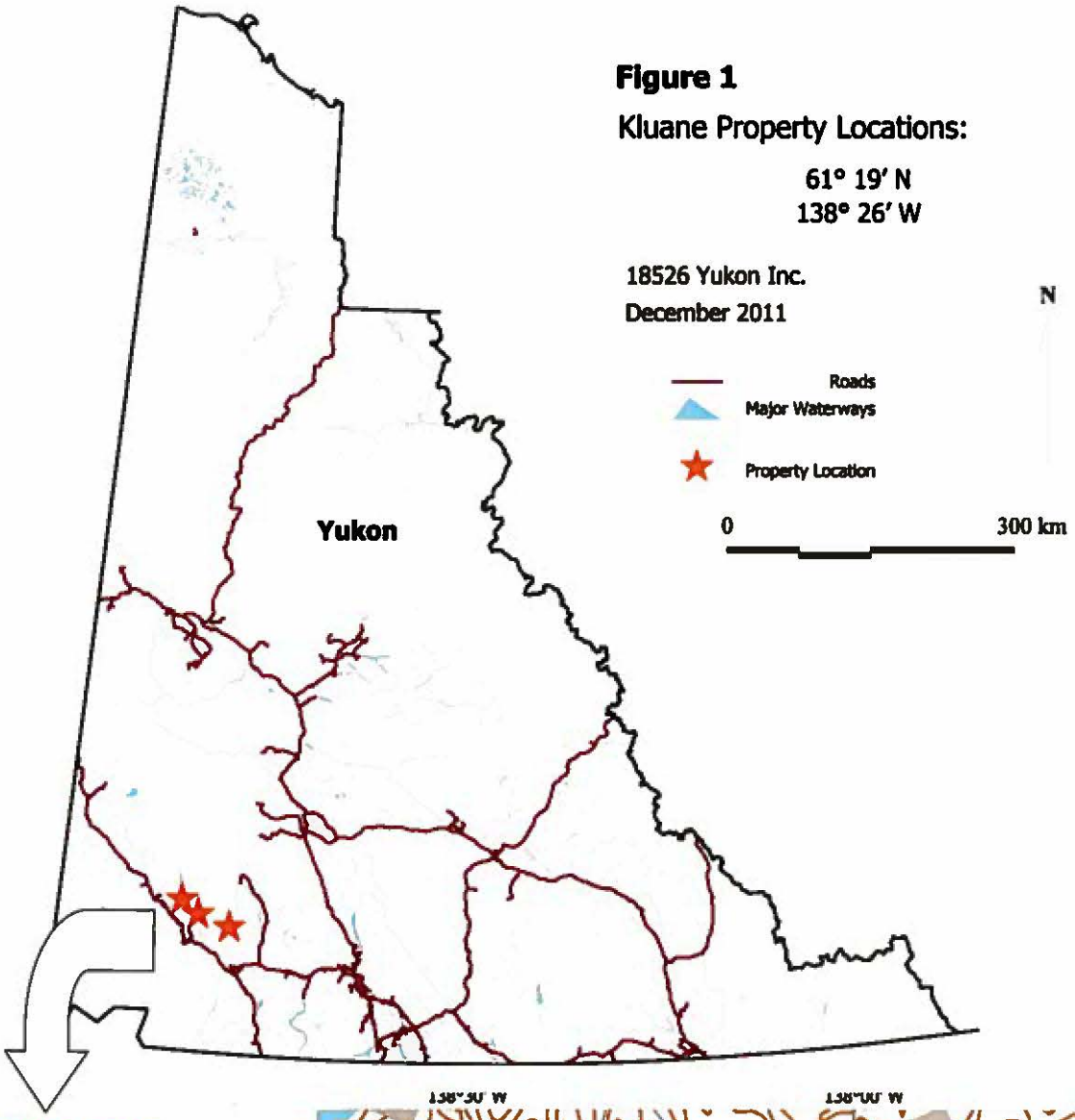
Access to the 2011 sampling program was provided by Kluane Helicopters Ltd. using an ASTAR helicopter from a roadside camp on the placer roads near Cultus Creek.

Figure 1

Kluane Property Locations:

61° 19' N
138° 26' W

18526 Yukon Inc.
December 2011



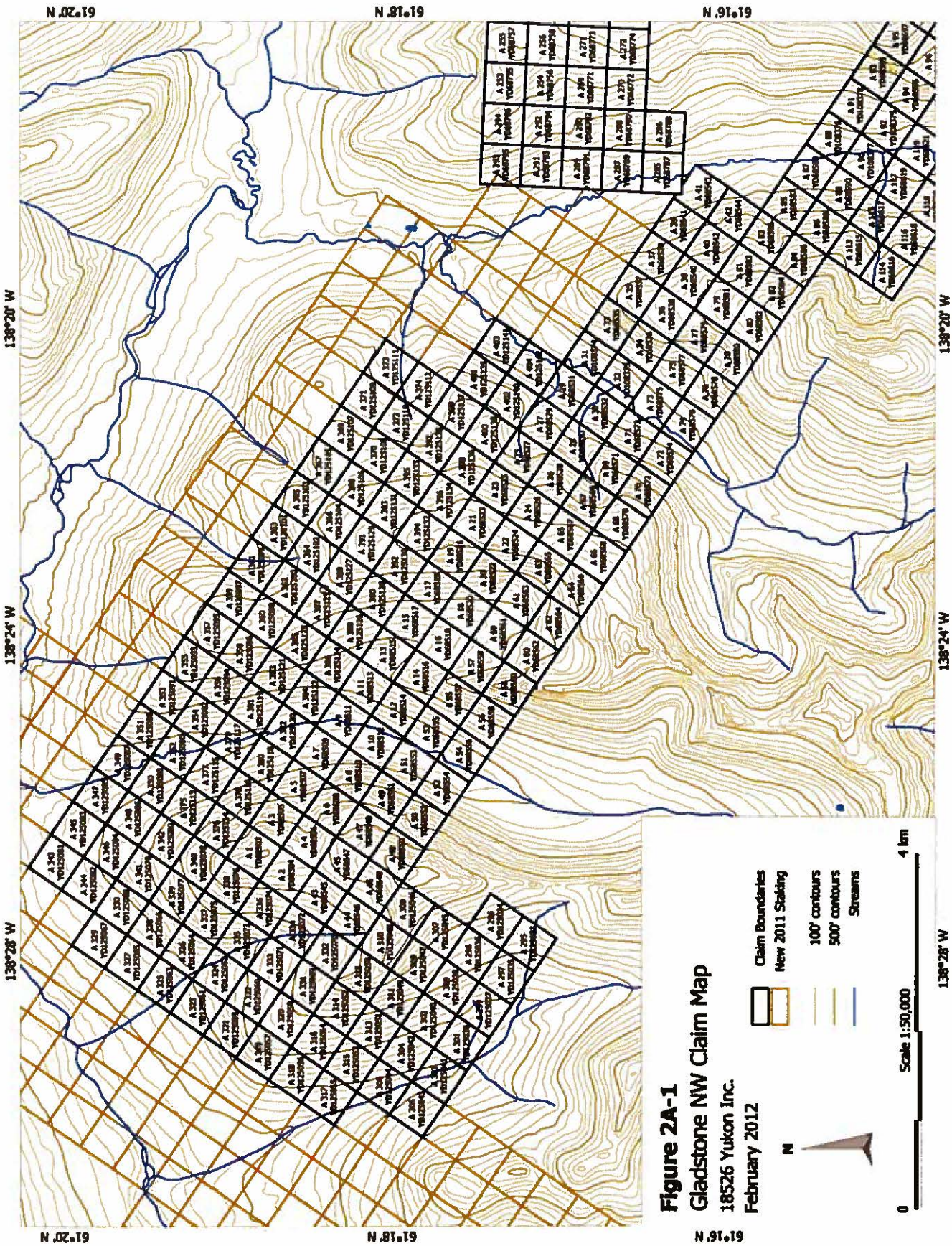


Figure 2A-1
Gladstone NW Claim Map
18526 Yukon Inc.
February 2012

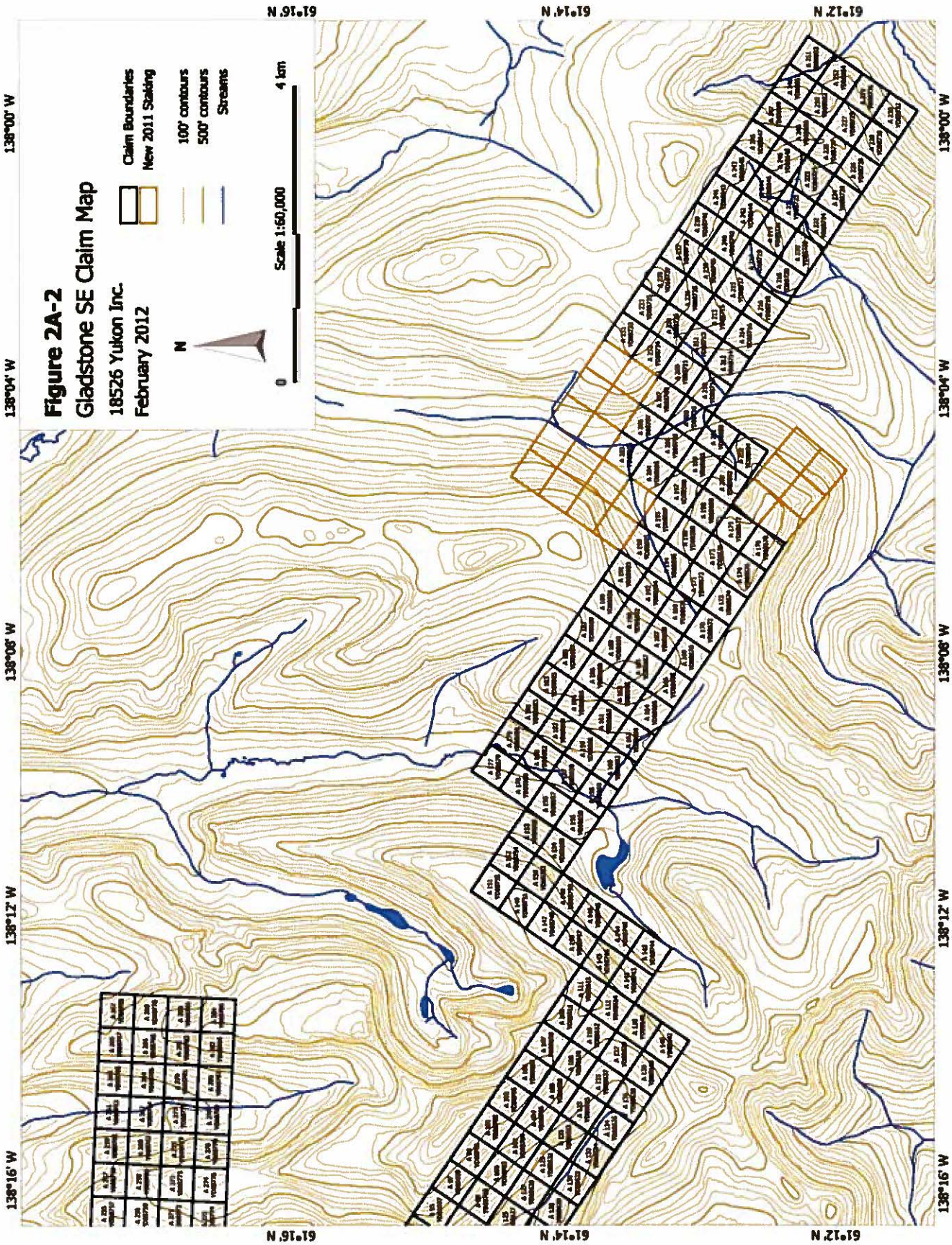


Figure 2A-2
Gladstone SE Claim Map
18526 Yukon Inc.
February 2012
Claim Boundaries
New 2011 Staking
100' contours
500' contours
Streams
N
Scale 1:60,000
0
4 km
61°16' N
61°14' N
61°12' N
138°00' W
138°04' W
138°08' W
138°12' W
138°16' W

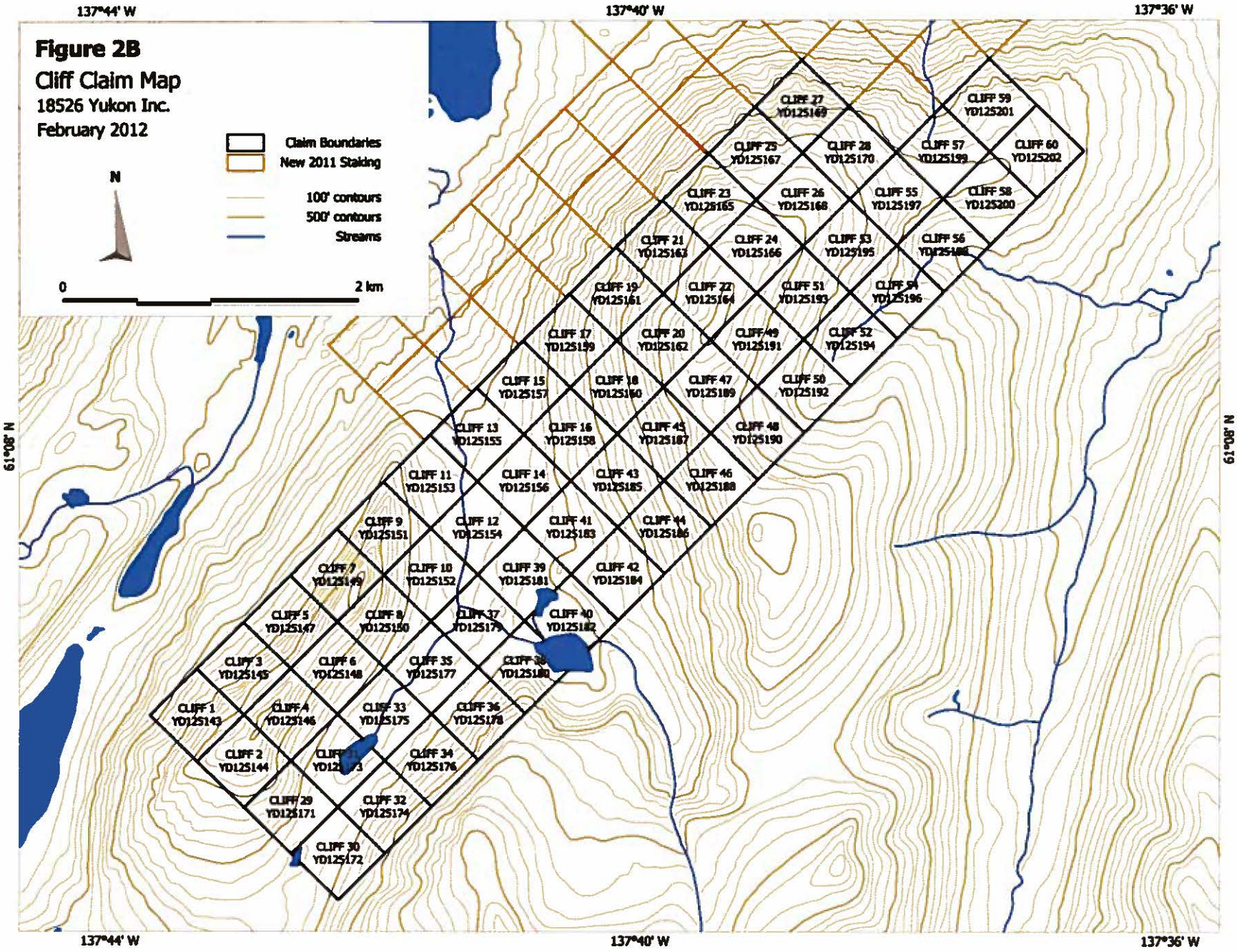


Figure 2B
Cliff Claim Map
18526 Yukon Inc.
February 2012
Claim Boundaries
New 2011 Staking
100' contours
500' contours
Streams
N
0
2 km
137°44' W
137°40' W
137°36' W
N 80°19
CLIFF 1 YD125143
CLIFF 2 YD125144
CLIFF 3 YD125145
CLIFF 4 YD125146
CLIFF 5 YD125147
CLIFF 6 YD125148
CLIFF 7 YD125149
CLIFF 8 YD125150
CLIFF 9 YD125151
CLIFF 10 YD125152
CLIFF 11 YD125153
CLIFF 12 YD125154
CLIFF 13 YD125155
CLIFF 14 YD125156
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CLIFF 27 YD125169
CLIFF 28 YD125170
CLIFF 29 YD125171
CLIFF 30 YD125172
CLIFF 32 YD125174
CLIFF 33 YD125175
CLIFF 34 YD125176
CLIFF 35 YD125177
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CLIFF 37 YD125179
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CLIFF 41 YD125183
CLIFF 42 YD125184
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CLIFF 44 YD125186
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CLIFF 46 YD125188
CLIFF 47 YD125189
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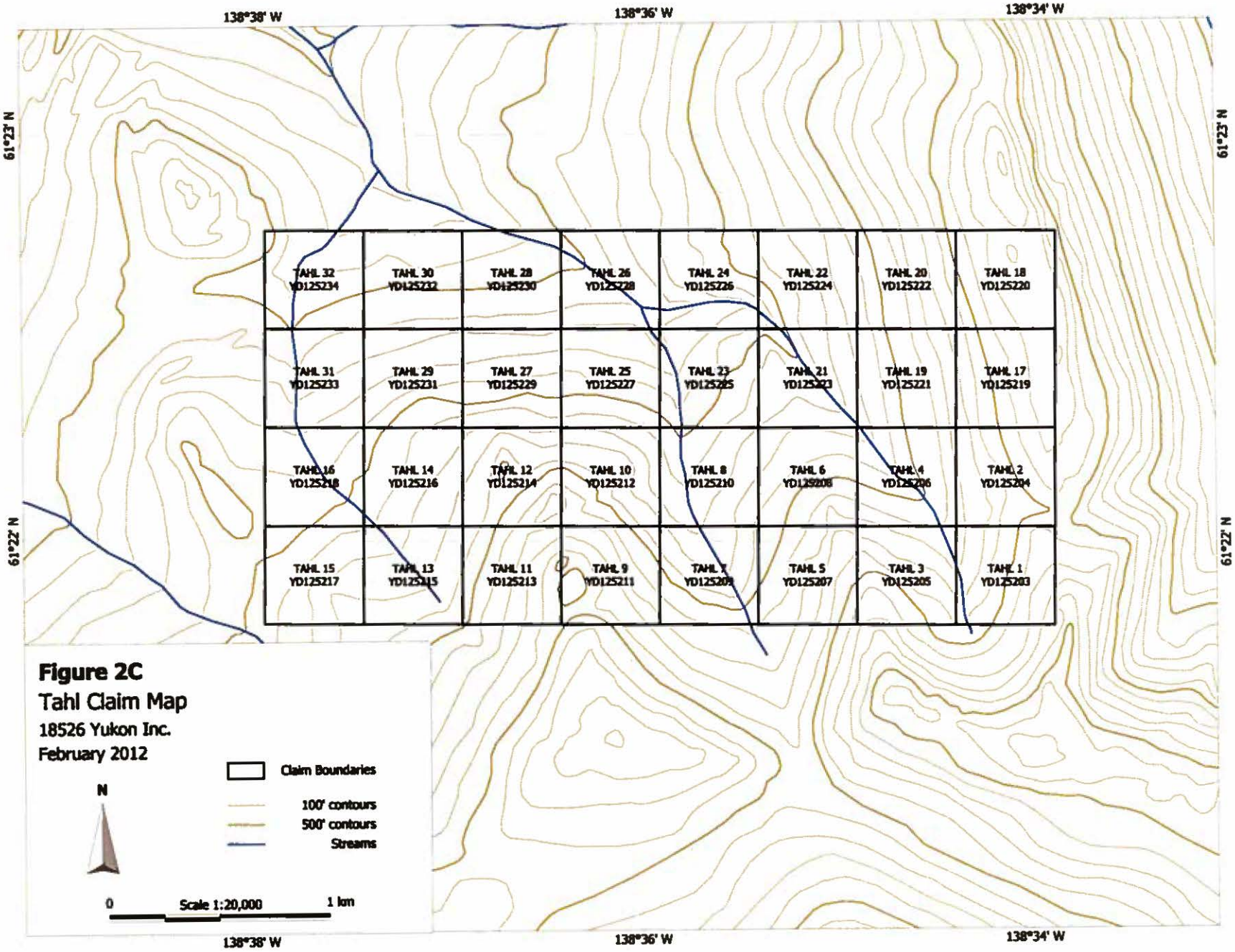
CLIFF 51 YD125193
CLIFF 52 YD125194
CLIFF 53 YD125195
CLIFF 54 YD125196
CLIFF 55 YD125197
CLIFF 56 YD125198
CLIFF 57 YD125199
CLIFF 58 YD125200
CLIFF 59 YD125201
CLIFF 60 YD125202


138°38' W
138°36' W
138°34' W
61°23' N
61°22' N
TAHL 32 YD125234
TAHL 30 YD125232
TAHL 28 YD125230
TAHL 26 YD125228
TAHL 24 YD125226
TAHL 22 YD125224
TAHL 20 YD125222
TAHL 18 YD125220
TAHL 31 YD125233
TAHL 29 YD125231
TAHL 27 YD125229
TAHL 25 YD125227
TAHL 23 YD125225
TAHL 21 YD125223
TAHL 19 YD125221
TAHL 17 YD125219
TAHL 16 YD125218
TAHL 14 YD125216
TAHL 12 YD125214
TAHL 10 YD125212
TAHL 8 YD125210
TAHL 6 YD125208
TAHL 4 YD125206
TAHL 2 YD125204
TAHL 15 YD125217
TAHL 13 YD125215
TAHL 11 YD125213
TAHL 9 YD125211
TAHL 7 YD125209
TAHL 5 YD125207
TAHL 3 YD125205
TAHL 1 YD125203
Figure 2C
Tahl Claim Map
18526 Yukon Inc.
February 2012
Claim Boundaries
100' contours
500' contours
Streams
N
0
Scale 1:20,000
1 km

PHYSIOGRAPHY

18526 Yukon Inc.'s Kluane properties are located in the Ruby Range, a region of rounded and glacially incised mountains to the east of Kluane Lake. The local climate is relatively dry, receiving roughly 30 cm of precipitation annually. Temperatures range from highs of 10 to 30°C in the summer months (May to August) and can drop as low as -50°C in the winter, with a high degree of variability at any time of year. The region is accessible for regular surface exploration from late May/early June through to September, though snows can linger on north facing slopes well into the summer, and the first winter snows can begin at high altitude as early as late August. Streams generally freeze up around October.

Typical autumn landscape in the Ruby Range near 18526 Yukon Inc.'s "Gladstone" property, showing glacial morphology and steep, talus-covered valley walls. Photo taken August 31, 2010.

Elevations on the Gladstone property range from 1050 m (3500 ft) along Gladstone Creek, at the northeast end of the property, to nearly 2300 m (7500 ft) along its highest ridges. The property covers multiple creeks and drainage systems. Local valleys are broad and glacially sculpted, with steep talus walls. Peaks are generally subdued, with felsenmeer and frost boils common in alpine areas. Valley bottoms are often covered by till and exhibit glacially sculpted landforms.

Vegetation ranges from alpine grasses and moss at high elevations to dwarf birch and willow below about 1600 m (5250 ft), grading into sparse black spruce in certain areas below 1400 m (4500 ft). Soil profiles are in places affected by loess and thick organics. Permafrost dominates at lower elevations and on north-facing slopes, and appears in some places to dictate the nature of overlying vegetation.

The Cliff property stretches along the eastern flank of the broad, northeast-southwest trending glacial valley housing Killermun and Shutdunmun lakes, covering a 2130 m (7000 ft) mountain plateau along its north end and a hanging tributary valley towards the southern end of the property, as well as a steep 1830 m (6000 ft) ridge separating the upper tributary valley from Shutdumun Lake. Along its north and west sides, the mountain plateau drops sharply some 1000 m (3280 ft) into the Killermun-Shutdunmun valley, lending the property its name.

Vegetation on the Cliff property is dominantly alpine grasses and mosses, though dwarf birch, willow and black spruce are present in the lower elevations of the hanging valley. Overburden ranges from felsenmeer frost boils at high altitudes through talus on steeper slopes and glacial till in the hanging valley, with minor permafrost concentrated on north-facing slopes.

The Tahl property is located on a north-facing mountain slope immediately east of Talbot Arm. Vegetation on the property grades from alpine mosses and grasses along its southern boundary to willow, dwarf birch and sparse black spruce at lower elevations. Much of the property is underlain by permafrost, which proved detrimental to sampling, and a thick layer of organics.

REGIONAL GEOLOGY

The Kluane project area is underlain almost entirely by the Kluane Schist, a metapelitic quartz-mica schist unit with minor carbonate and ultramafic inclusions (Israel, 2011). The Kluane Schist presently sits at the base of a northeast-dipping, structurally stacked crustal cross section, beneath the Ruby Range batholith and the Lower Carboniferous Yukon-Tanana terrane. Zircon dating and structural observations indicate that the Kluane Schist was deposited and subsequently emplaced beneath the Yukon Tanana terrane during a brief (>25 My) window in the late Cretaceous, prior to the bulk of intrusions associated with the Ruby Range batholith (*ibid.*). Syn-to-post kinematic magmatic episodes exploited the structural corridor between the Kluane Schist and Yukon Tanana terrane, overprinting the original contact and forming the remainder of the batholith's mass (*ibid.*).

This tectonic framework of the Kluane Schist bears striking similarities to the Taku terrane of the Juneau Gold Belt, including ages, terrane affinities, structural juxtapositions and timing (*ibid.*). The Taku terrane—host to significant orogenic deposits in southeast Alaska—was emplaced beneath rocks correlative with the Yukon Tanana terrane, while intrusions of the Coastal Plutonic Complex exploited this contact during deformation (McClelland, 2000; Israel, 2011).

A distinct gneiss unit of uncertain origin structurally overlies the Kluane Schist at certain points along its contact with the Ruby Range batholith. These gneisses may represent be a

metamorphic expression of the Kluane Schist, the Ruby Range batholith, or the overlying Yukon-Tanana terrane, or some combination thereof. In any case, the thrust fault contact between the gneiss unit and the Kluane Schist may be an important gold corridor (Israel, 2011), as both of prospector JP Ross's Ruby Range gold discoveries (near Gladstone Creek and Killermun Lake) are located near this structure. The recently staked parts of 18526 Yukon Inc.'s Cliff property also overlie this thrust.

LOCAL GEOLOGY

The Kluane Schist comprises two main units—a light to dark grey, fine-grained muscovite schist and a higher-grade, dark grey to black biotite schist with occasional garnets and plagioclase porphyroblasts (Israel, 2011). The metamorphic gradient between these units runs roughly northwest-southeast through the project area, and was used as a guide in targeted staking efforts on the Gladstone Property, which follows this gradient through the schist for several dozen km. Both schist units are variably carbonaceous, with an increased incidence of carbonate units toward the northwest (*ibid.*). Thin, isolated ultramafic units also occur within the schists, and are thought to be fragments of oceanic crust interleaved with the Kluane Schist during accretion (Mezger, 2000).

The Cliff property also overlies this metamorphic boundary in the Kluane Schist, as well as the fault contact between it and the overlying gneiss unit described by Israel (2011).

The Tahl property overlies the basal thrust contact of the Ruby Range batholith with the underlying Kluane Schist.

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The Tahl property overlies the basal thrust contact of the Ruby Range batholith with the underlying Kluane Schist.

SURVEY DESCRIPTION

The 2011 Kluane soil sampling program was conducted on the 21st (for the Tahl and Gladstone properties), 22nd (Gladstone property) and 23rd (Cliff property) of June by a team of nine workers hired, trained and supervised by 18526 Yukon Inc., as well as the author. Members of the crew ran claim staking programs concurrently on the 22nd and 23rd of June, expanding the Gladstone and Cliff claim blocks.

Soil samples were taken at 50 m intervals along topographical contour lines. Where obstacles—usually large talus fields—impeded sampling, samplers descended to continue sampling below the obstruction. Sampling conditions varied across the surveys, with the worst conditions (thick organic layer, volcanic ash, and ubiquitous permafrost) encountered on the Tahl property and better (though still not ideal) conditions on the Cliff. In all, 442 samples were collected and analyzed in the Kluane program, with 216 of those collected from Gladstone, 126 from the Cliff, and 100 from the Tahl property (Figures 3A, 3B & 3C).

Sampling targeted the "C" horizon, though in areas where permafrost or other conditions made this impossible, samplers targeted the deepest mineral soil available. Sites without accessible mineral soils were skipped after multiple sampling attempts failed. Successful sample depths ranged from 10 to 110 cm, averaging about 41 cm throughout the survey. Soil augers were the primary tool used for sample collection, though picks and shovels were also used to assist with collection. Tools were cleaned of residual soil between sampling stations.

At each station, samples were laid on a clean plastic sheet to be photographed and described before being collected into KRAFT 4 x 6" paper sample bags. Precise sample locations were recorded at the time of sampling using handheld GPS devices. Each sample location was also photographed and marked with labeled orange flagging tape.

Samples were air dried briefly at camp and then in a dry facility (diurnal summer temperatures ~ 5 to 20 °C) before being delivered to ACME Analytical Labs in Whitehorse, Yukon. Each sample was screened by ACME to 180 microns and shipped Vancouver, British Columbia for analysis. Thirty gram pulps were processed using hot (95 °C) Aqua Regia digestion and analysed for 36 elements (ACME's "1DX3" package), as were various standard and duplicate pulps for quality control. After analysis, ACME disposed of the samples.

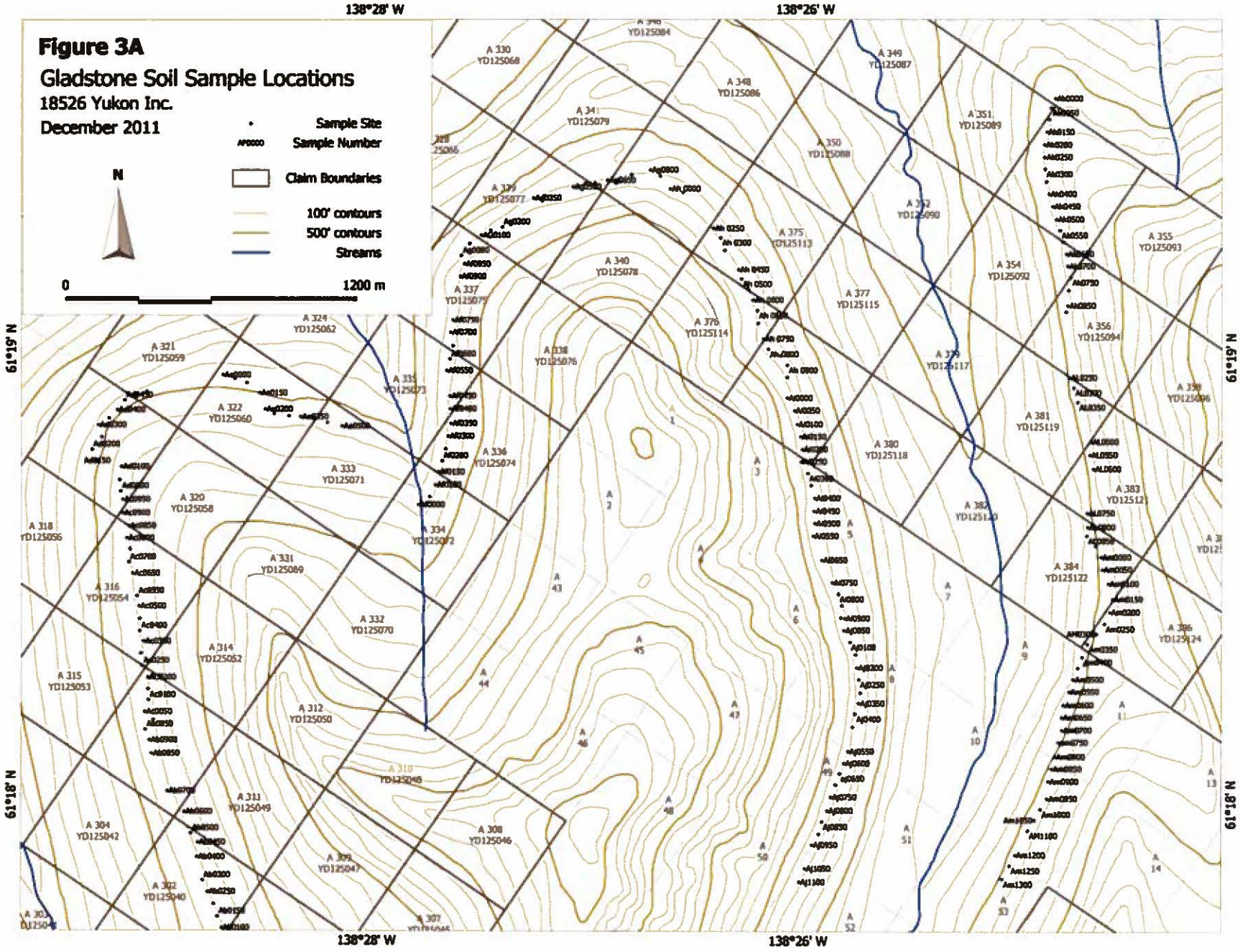
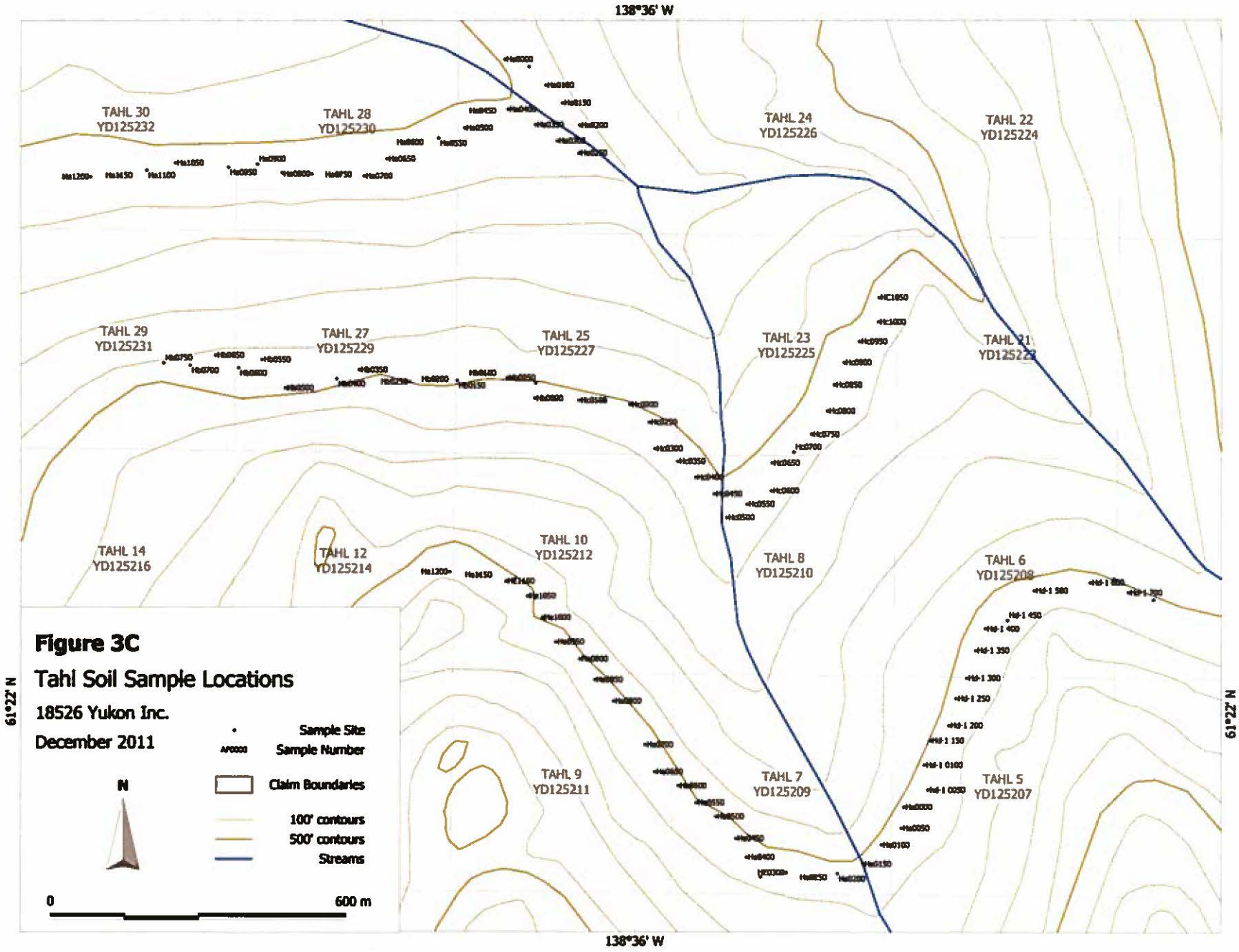


Figure 3A
Gladstone Soil Sample Locations
18526 Yukon Inc.
December 2011
Sample Site
Sample Number
Claim Boundaries
100' contours
500' contours
Streams
N
0
1200 m
138°28' W
138°26' W
N 81°19'
A 330 YD125068
A 348 YD125086
A 349 YD125087
A 341 YD125079
A 350 YD125088
A 351 YD125089
A 352 YD125090
A 375 YD125113
A 340 YD125078
A 354 YD125092
A 355 YD125093
A 337 YD125077
A 377 YD125115
A 376 YD125114
A 356 YD125094
A 324 YD125062
A 321 YD125059
A 338 YD125076
A 379 YD125117
A 335 YD125073
A 322 YD125060
A 336 YD125074
A 381 YD125119
A 380 YD125118
A 333 YD125071
A 320 YD125058
A 382 YD125120
A 383 YD125121
A 318 YD125056
A 334 YD125072
A 331 YD125069
A 384 YD125122
A 316 YD125054
A 332 YD125070
A 314 YD125052
A 315 YD125053
A 312 YD125050
A 310 YD125048
A 311 YD125049
A 304 YD125042
A 308 YD125046
A 309 YD125047
A 302 YD125040

Figure 3B
Cliff Soil Sample Locations
18526 Yukon Inc.
December 2011
Sample Site
Sample Number
Claim Boundaries
100' contours
500' contours
Streams
N
0
600 m
137°40' W
137°38' W
N 60°19
N 80°19
CLIFF 25 YD125167
CLIFF 23 YD125169
CLIFF 26 YD125168
CLIFF 55 YD125197
CLIFF 24 YD125166
CLIFF 53 YD125195
CLIFF 56 YD125198
CLIFF 19 YD125161
CLIFF 22 YD125164
CLIFF 51 YD125193
CLIFF 17 YD125159
CLIFF 20 YD125162
CLIFF 49 YD125191
CLIFF 52 YD125194
CLIFF 15 YD125157
CLIFF 18 YD125160
CLIFF 47 YD125189
CLIFF 16 YD125158
CLIFF 45 YD125187
CLIFF 48 YD125190
CLIFF 14 YD125156
CLIFF 46 YD125188
CLIFF 41 YD125183
CLIFF 44 YD125186
CLIFF 39
CLIFF 42


138°36' W
TAHL 30
YD125232
TAHL 28
YD125230
TAHL 24
YD125226
TAHL 22
YD125224
TAHL 29
YD125231
TAHL 27
YD125229
TAHL 25
YD125227
TAHL 23
YD125225
TAHL 21
YD125223
TAHL 14
YD125216
TAHL 12
YD125214
TAHL 10
YD125212
TAHL 8
YD125210
TAHL 6
YD125208
TAHL 9
YD125211
TAHL 7
YD125209
TAHL 5
YD125207
N 22°19
138°36' W
Figure 3C
Tahl Soil Sample Locations
18526 Yukon Inc.
December 2011
Sample Site
Sample Number
Claim Boundaries
100' contours
500' contours
Streams
N
0
600 m

RESULTS

Figures 4A and 4B show significant results from the 2011 Kluane soils survey.

On the Gladstone property, sporadic gold anomalies up to 244.9 ppb Au were detected (Figure 4A-1), with several continuous clusters of elevated to anomalous samples. Arsenic values followed a similar trend (Figure 4A-2), with the most notable anomaly occurring across ~0.5 km on claims A 5 & A 8, up to a Gladstone property high of 199.4 ppm As. Antimony concentrations increase markedly in the eastern half of the Gladstone survey, particularly towards the south, where an ~1.8 km stretch returned many of the most anomalous samples from the overall 2011 survey, to 5.8 ppm Sb (Figure 4A-3).

Contour sampling on the Cliff property revealed a coincident gold and arsenic anomaly that may be continuous across multiple lines of the survey, on Cliff claims 53-56 & 58. Gold values in this area run up to 198.6 ppb, and reach 201.3 ppb elsewhere on the property (Figure 4B-1). Arsenic values returned up to 670.5 ppm (Figure 4B-2). Another strong arsenic anomaly occurs across ~200 m on adjacent Cliff claims 16 & 43, with values up to 299.5 ppm As. Antimony values across the Cliff survey are generally low.

Sampling failed to turn up significant elemental anomalies on the Tahl property. This may be in part due to prevalent permafrost, which limited sampling to a thick organic layer and possible loess occurrences across much of the survey. An isolated occurrence of 63.7 ppb Au was detected, as was a subtle, coincident area of elevated gold, arsenic and antimony on Tahl claims 7 & 9, including an overall survey high 8.4 ppm Sb.

Original assay sheets listing additional elemental abundances are included as Appendix A. Exact sample locations and field notes are included as an Excel spreadsheet (file type .xls) on the accompanying compact disk.

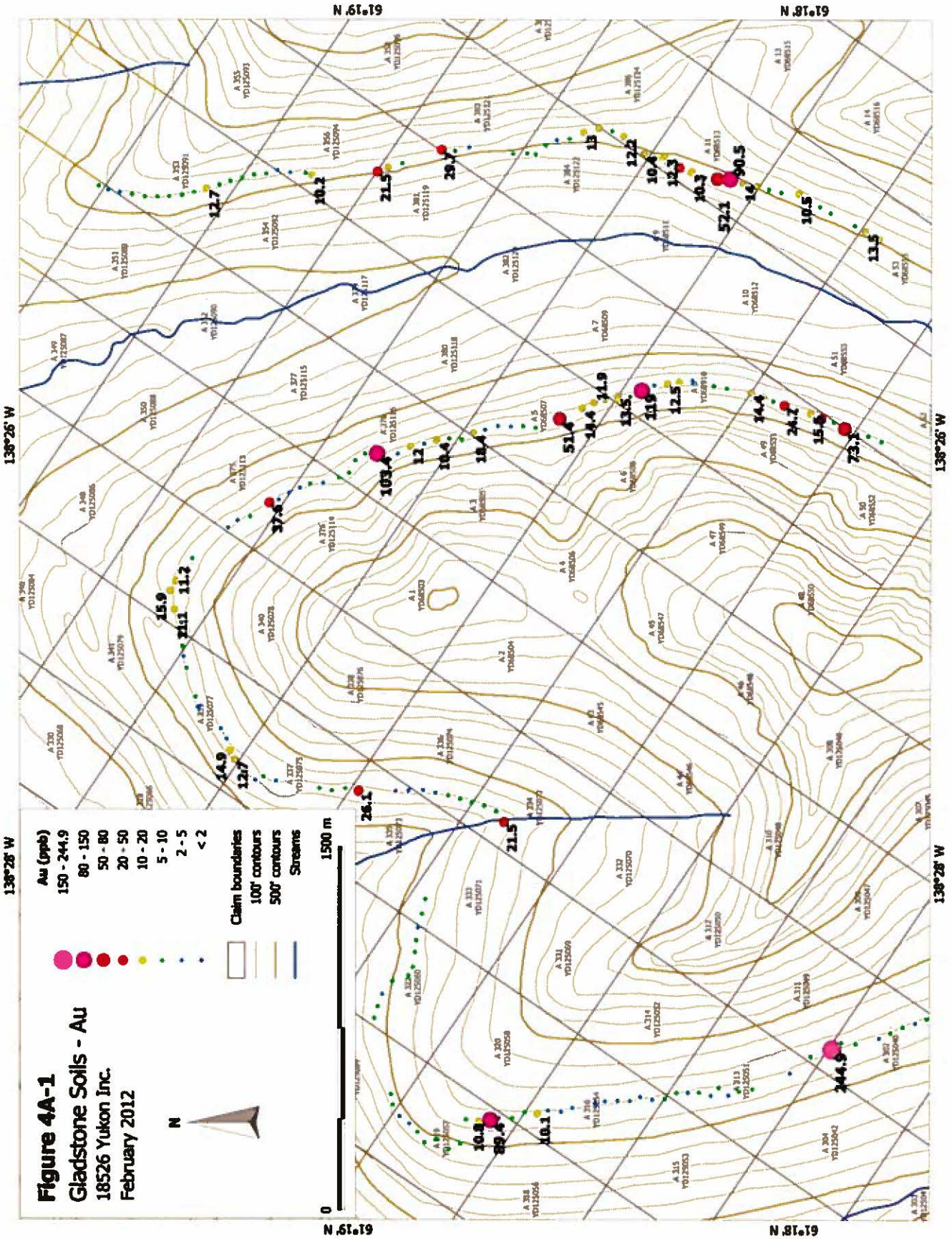
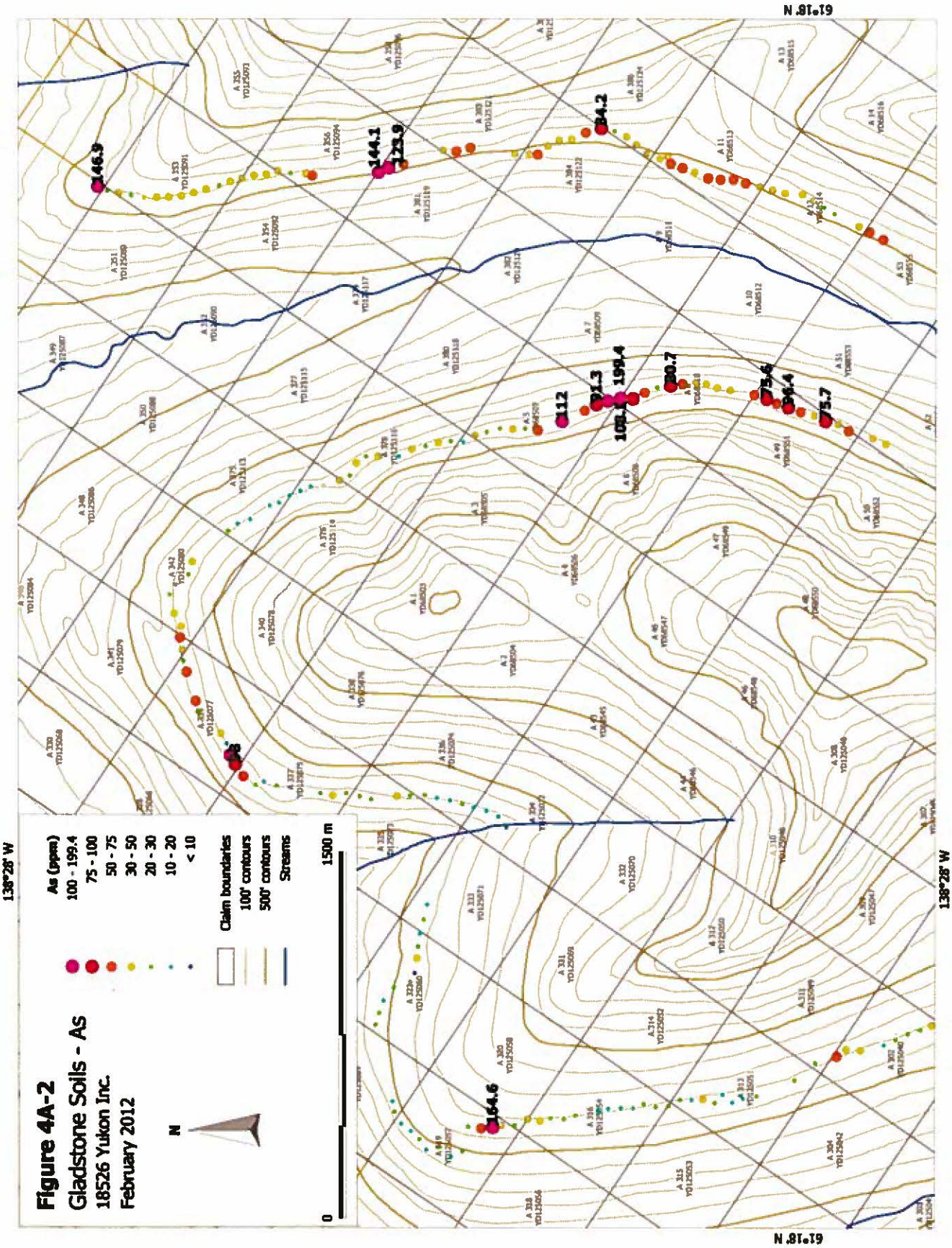
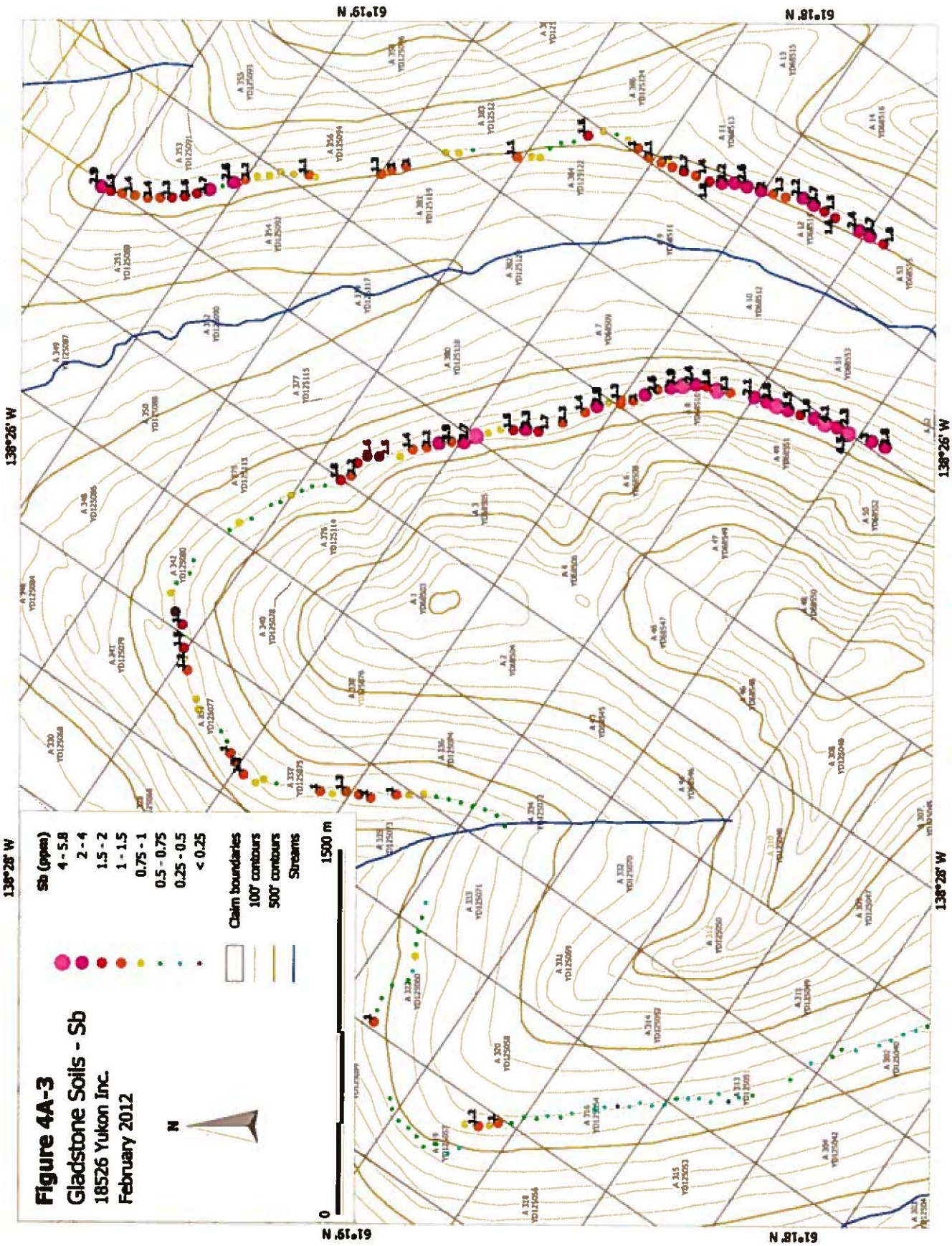
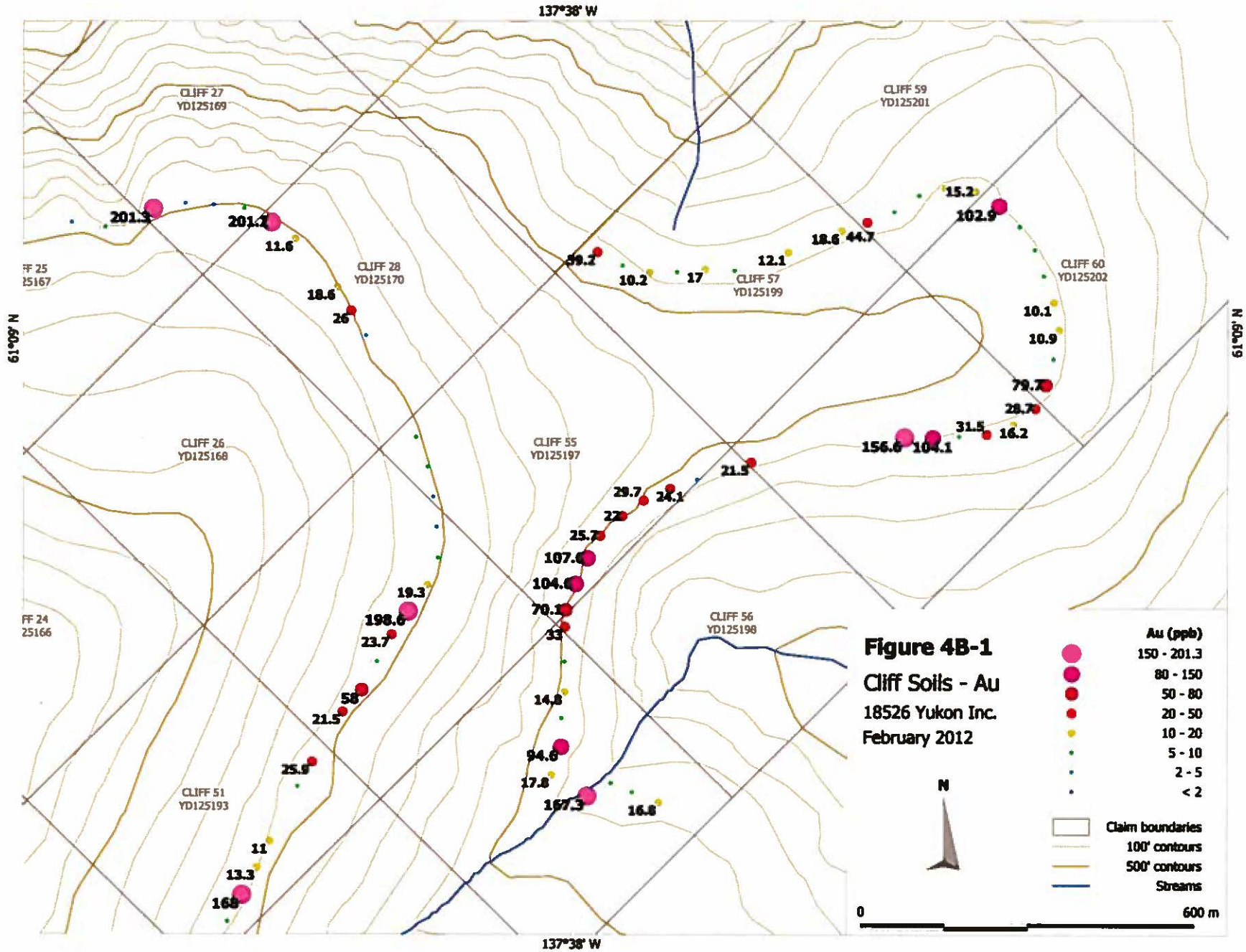
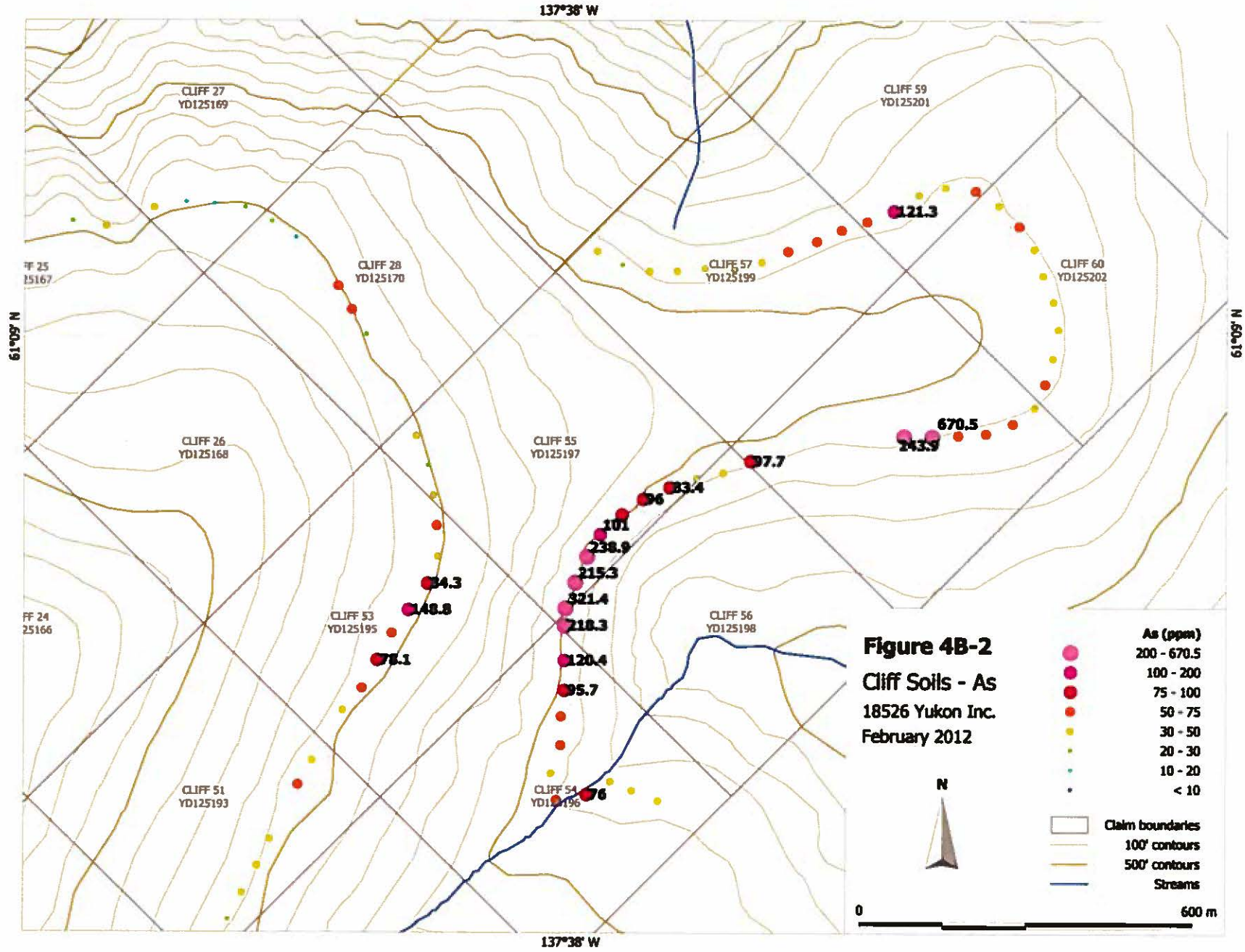


Figure 4A-1
Gladstone Soils - Au
18526 Yukon Inc.
February 2012
Au (ppb)
150 - 244.9
80 - 150
50 - 80
20 - 50
10 - 20
5 - 10
2 - 5
< 2
Claim boundaries
100' contours
500' contours
Streams
N
0
1500 m
61°19' N
61°18' N
138°26' W


61°18' N
138°28' W
146.9
144.1
123.9
84.2
112
71.3
199.4
100.7
75.6
76.4
75.7
164.6
As (ppm)
100 - 199.4
75 - 100
50 - 75
30 - 50
20 - 30
10 - 20
< 10
Claim boundaries
100' contours
500' contours
Streams
N
0
1500 m
Figure 4A-2
Gladstone Soils - As
18526 Yukon Inc.
February 2012


61°19' N
61°18' N
138°26' W
138°28' W
Sb (ppm)
4 - 5.8
2 - 4
1.5 - 2
1 - 1.5
0.75 - 1
0.5 - 0.75
0.25 - 0.5
< 0.25
Claim boundaries
100' contours
500' contours
Streams
N
1500 m
0
Figure 4A-3
Gladstone Soils - Sb
18526 Yukon Inc.
February 2012


137°38' W
N 60°19
CLIFF 27
YD125169
CLIFF 28
YD125170
CLIFF 26
YD125168
CLIFF 55
YD125197
CLIFF 59
YD125201
CLIFF 60
YD125202
CLIFF 57
YD125199
CLIFF 56
YD125198
CLIFF 51
YD125193
201.3
201.2
11.6
18.6
26
39.2
10.2
17
12.1
18.6
44.7
15.2
102.9
10.1
10.9
79.7
28.7
31.5
16.2
156.6
104.1
21.5
29.7
24.1
22
25.7
107.6
104.6
70.1
33
19.3
198.6
23.7
58
21.5
25.5
14.8
94.6
17.8
167.3
16.8
11
13.3
168
Figure 4B-1
Cliff Soils - Au
18526 Yukon Inc.
February 2012
Au (ppb)
150 - 201.3
80 - 150
50 - 80
20 - 50
10 - 20
5 - 10
2 - 5
< 2
N
Claim boundaries
100' contours
500' contours
Streams
0
600 m


137°38' W
N 60-19
CLIFF 27
YD125169
CLIFF 28
YD125170
CLIFF 26
YD125168
CLIFF 25
YD125167
CLIFF 24
YD125166
CLIFF 53
YD125195
CLIFF 51
YD125193
CLIFF 55
YD125197
CLIFF 54
YD125196
CLIFF 56
YD125198
CLIFF 57
YD125199
CLIFF 59
YD125201
CLIFF 60
YD125202
121.3
670.5
243.9
97.7
83.4
96
101
238.9
215.3
321.4
218.3
120.4
95.7
76
34.3
148.8
78.1
Figure 4B-2
Cliff Soils - As
18526 Yukon Inc.
February 2012
As (ppm)
200 - 670.5
100 - 200
75 - 100
50 - 75
30 - 50
20 - 30
10 - 20
< 10
N
Claim boundaries
100' contours
500' contours
Streams
0
600 m

INTERPRETATION AND CONCLUSIONS

Results from the 2011 Kluane reconnaissance soils program indicate good potential for economic gold mineralization on parts of the Gladstone and Cliff properties, as well as on the large tracts of both properties that remain unsampled.

Gladstone

On the Gladstone property contour sample lines were selected to test broad areas upslope of each sample, thus weak anomalies may indicate more significant areas of mineralization at higher elevations, especially in areas where those anomalies display lateral continuity. Based on gold concentrations, and using arsenic as a pathfinder, the most prospective parts of the survey are located in the southeastern corner of the survey, on both sides of an apparently unnamed north-flowing tributary to Gladstone Creek (between Cyr and Swanson Creeks). These zones of elevated to anomalous Au-As-Sb values overlie the recently mapped gradient between muscovite and biotite members of the Kluane Schist (Israel, 2011), offering support to the regional idea followed in staking the property. Considering the northwest-southeast strike of this gradient and of the Kluane Schist's structural fabric, the anomalies on either side of the tributary creek may be related, indicating mineralization potential downslope of each sample line in the creek valley, as well as upslope on the valley walls. Follow up should include investigation for veins, faults and other crustal weaknesses which may have permitted mineralized fluid flow.

The region of anomalous antimony values in the southeastern Gladstone survey area does not appear to be linked to underlying mineralogical trends in the Kluane Schist, though it may be indicative of a lithological gradient within the schists, or it may be linked to mineralizing structures. Follow up on the gold and arsenic anomalies should also seek to understand the nature of the antimony signature.

Soils on the northern and western sides of the Gladstone survey were generally more affected by permafrost. Several coincident gold and arsenic anomalies exist in these areas as well, and should be subject to further investigation. Due to variable terrain and difficulties associated with contour sampling on Gladstone, as well as the transported nature of mid to base of slope anomalies, ridge-and-spur sampling is recommended for future first-pass reconnaissance on mountainous parts of the property.

Cliff

The strong, coincident gold and arsenic anomaly located on the Cliff property displays good continuity along and between soil lines, and should be investigated further. Infill grid sampling is recommended on claims 53-58, with extensions as needed. Given the felsenmeer cover of this part of the property, trenching may be important in establishing suitable drill targets.

Interestingly, according to current mapping, the Cliff anomaly is situated near the same metamorphic gradient between muscovite and biotite members of the Kluane Schist that is covered for 40 km by the current Gladstone property, lending further evidence to the idea that this gradient may be an important feature in terms of regional mineralization.

To the southeast of the main anomaly, soil lines CA and CB returned two strong arsenic anomalies with elevated to anomalous gold values. Though not as continuous as the main anomaly, these may be transported base-of-slope anomalies indicative of gold-bearing arsenopyrite mineralization higher up the slope and within the mountainside itself.

Further contour and ridge-and-spur sampling should be conducted on the remainder of the Cliff property to assess for additional gold potential. New staking has covered much of the broad glacial valley to the north of the Cliff, covering a thrust contact with overlying gneisses. RGS data and geological correlation with known gold occurrences immediately to the northwest suggest this area has high potential for gold mineralization as well.

Tahl

The Tahl property, underlain by the Ruby Range batholith, returned only one significant gold value (63.7 ppb Au) and generally weak arsenic values. As discussed, this may be a result of poor soil sampling conditions caused by pervasive permafrost, or it may simply reflect a lack of mineralization in the underlying weathered bedrock. It is worth noting that the weak Au-As-Sb anomaly towards the southern end of the property overlies the inferred fault trace between the Ruby Range batholith and the Kluane Schist. A brief stream sediment sampling program on the network of streams draining the property could give a much better idea of the ground's potential, or lack thereof, and could help to explain the provenance of the 90 ppb Au silt sample recovered by the Yukon Geological Survey's RGS program downstream of the property.

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Also referenced: [*http://www.yukon-news.com/opinions/columns/25278/*], accessed January 2012. History column regarding Fourth of July/Gladstone discoveries, likely by Michael Gates of Whitehorse, Yukon. (Yukon News server down at time of report, so no additional information available.)

STATEMENT OF EXPENDITURES

Expenses for the 2011 soils program were as follows:

	Gladstone	**Cliff**	**Tahl**
Helicopter	$8750	$6000	$4885
Wages	$14,000	$3000	$1000
Food & Equipment	$1000		
Assays	$5400	$3150	$2500
Report Preparation	$1250	$0	$0
Totals	**$30,400**	**$12,150**	**$8385**

STATEMENT OF QUALIFICATIONS

I, JAMES SCOTT BERDAHL, hereby certify that:

1. I am a geologist employed by 18526 YUKON INC., Box 11250, Whitehorse, Yukon, Y1A 6N4.
2. I am a graduate of the Massachusetts Institute of Technology, with a degree in geology (B.Sc., 2008).
3. I have been employed in mineral exploration, as a prospector's assistant or as a project geologist, annually for over a decade, and full-time for the past year.
4. I supervised and assisted with the geochemical survey described above in June of 2011.
5. The data contained herein is true and correct to the best of my knowledge.

J. Scott Berdahl

February 12, 2012

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www.acmelab.com

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P.O. Box 11250
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Submitted By: Ron Berdahl
Receiving Lab: Canada-Whitehorse
Received: August 15, 2011
Report Date: September 29, 2011
Page: 1 of 12

CERTIFICATE OF ANALYSIS WHI11001178.1

CLIENT JOB INFORMATION

Project: Gladstone 2011
Shipment ID:
P.O. Number
Number of Samples: 320

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
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.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	318	Dry at 60C			WHI
SS80	318	Dry at 60C sieve 100g to -80 mesh			WHI
1DX3	316	1:1:1 Aqua Regia digestion ICP-MS analysis	30	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: 18526 Yukon Inc.
P.O. Box 11250
Whitehorse Yukon Y1A 6N4
Canada

CC: Scott Berdahl

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

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: Gladstone 2011
Report Date: September 29, 2011

CERTIFICATE OF ANALYSIS WHI11001178.1

	Method	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	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	1
C A0000	Soil	1.2	77.9	7.3	93	0.2	64.4	25.1	572	4.41	124.9	11.6	2.1	33	0.2	0.4	0.2	124	0.34	0.073	9
C A0050	Soil	1.3	45.8	8.7	82	0.1	44.3	17.2	462	4.41	45.0	7.3	2.0	31	0.2	0.4	0.2	126	0.36	0.056	8
C A0100	Soil	1.0	60.2	6.0	90	0.1	50.3	17.9	464	4.16	81.0	6.6	2.2	31	0.2	0.4	0.2	117	0.39	0.081	8
C A0150	Soil	1.1	59.8	6.1	75	0.1	51.4	19.0	492	3.76	93.5	26.8	2.2	36	<0.1	0.5	0.2	103	0.46	0.099	9
C A0200	Soil	1.2	46.0	6.8	72	0.2	46.0	17.6	460	3.95	54.3	15.1	2.0	30	0.2	0.3	0.2	109	0.35	0.064	9
C A0250	Soil	1.3	105.9	8.3	103	0.3	82.6	30.6	834	5.36	140.2	39.2	2.3	37	0.3	0.4	0.2	148	0.39	0.076	10
C A0300	Soil	1.0	65.3	6.0	84	<0.1	52.0	18.8	504	4.63	33.1	3.7	1.5	32	0.3	0.3	0.2	142	0.45	0.060	7
C A0350	Soil	1.5	67.6	7.5	88	0.3	49.8	19.8	531	4.19	72.4	5.6	1.8	40	<0.1	0.4	0.2	119	0.43	0.073	10
C A0400	Soil	1.1	79.4	6.4	92	0.2	65.3	24.0	537	4.43	109.7	12.6	1.6	39	0.2	0.3	0.2	137	0.37	0.073	7
C A0450	Soil	1.0	55.1	6.6	78	0.2	52.8	18.5	516	3.97	37.9	6.3	1.9	39	0.2	0.3	0.2	116	0.41	0.070	8
C A0500	Soil	0.9	68.5	6.1	85	0.2	64.3	20.8	553	4.18	52.9	6.4	1.8	46	0.2	0.3	0.2	117	0.43	0.101	8
C A0550	Soil	0.8	48.7	4.8	73	0.1	46.2	16.6	391	3.41	32.7	16.8	2.1	36	0.2	0.3	0.1	100	0.42	0.089	7
C A0600	Soil	1.3	66.9	7.7	106	<0.1	67.1	27.1	636	4.75	55.8	4.6	1.6	43	0.3	0.4	0.2	131	0.42	0.069	8
C A0650	Soil	1.4	70.2	7.7	102	0.3	59.8	24.7	638	4.50	73.3	12.3	1.6	43	0.2	0.5	0.2	128	0.45	0.088	9
C A0700	Soil	1.0	39.7	6.9	77	0.1	40.4	14.4	361	3.75	74.9	5.2	1.8	29	0.2	0.4	0.2	104	0.31	0.040	7
C A0750	Soil	1.5	40.7	9.0	97	0.3	39.9	18.2	654	3.71	36.9	3.4	0.8	48	0.3	0.4	0.2	107	0.61	0.082	6
C A0800	Soil	1.1	45.0	7.6	89	0.2	41.8	17.5	498	3.85	72.5	3.9	1.8	29	0.2	0.5	0.2	107	0.34	0.050	8
C A0850	Soil	1.4	68.4	9.2	108	0.3	62.7	27.7	783	5.25	190.1	10.2	2.2	43	0.2	0.7	0.3	144	0.45	0.067	11
C B0000	Soil	1.6	87.1	9.8	116	0.4	65.6	31.8	708	5.07	299.5	20.2	1.9	44	0.2	0.9	0.3	127	0.39	0.090	10
C B0050	Soil	0.9	53.4	5.2	79	<0.1	49.7	18.9	429	3.68	137.1	11.0	2.0	33	<0.1	0.4	0.1	98	0.34	0.063	8
C B0100	Soil	1.2	66.8	8.0	95	0.2	56.3	23.5	571	4.38	138.4	9.5	1.8	36	0.1	0.6	0.2	117	0.34	0.083	9
C B0150	Soil	1.1	86.6	6.4	98	0.2	68.1	25.5	658	5.06	61.4	7.9	2.1	39	0.2	0.3	0.2	144	0.47	0.100	9
C B0200	Soil	0.8	58.4	5.4	85	0.1	52.8	20.3	497	4.08	40.7	22.3	2.2	30	<0.1	0.3	0.2	123	0.31	0.058	9
C B0250	Soil	1.2	69.6	6.0	97	0.1	61.3	25.2	606	4.45	72.1	6.9	1.9	39	0.1	0.3	0.2	133	0.38	0.067	9
C B0300	Soil	1.1	64.3	6.5	95	0.2	56.2	20.0	656	4.39	45.1	6.1	2.4	44	0.2	0.3	0.2	125	0.48	0.109	9
C B0350	Soil	1.2	81.9	6.6	113	0.2	66.1	26.9	651	4.82	58.6	7.4	2.2	42	0.3	0.4	0.2	142	0.47	0.109	10
C B0400	Soil	1.6	107.4	8.2	119	0.2	79.4	35.4	840	5.50	71.2	8.7	2.0	46	0.2	0.5	0.2	149	0.45	0.089	10
C B0450	Soil	1.7	52.0	8.1	94	0.2	45.6	19.6	662	3.97	32.7	1.7	1.2	37	0.4	0.4	0.2	108	0.42	0.101	8
C B0500	Soil	1.7	90.3	9.0	104	0.3	65.1	26.0	606	4.95	75.4	9.2	1.6	42	0.2	0.5	0.3	132	0.44	0.104	9
C B0550	Soil	0.9	55.7	4.8	74	0.2	52.8	16.6	398	3.70	34.3	4.0	1.7	28	<0.1	0.2	0.1	115	0.27	0.043	7

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Project: Gladstone 2011
Report Date: September 29, 2011

CERTIFICATE OF ANALYSIS WHI11001178.1

	Method	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
C A0000	Soil	87	1.37	248	0.152	3	3.00	0.019	0.60	0.1	0.03	7.9	0.3	<0.05	9	<0.5	<0.2
C A0050	Soil	81	1.18	217	0.167	3	2.65	0.016	0.47	0.1	0.03	7.4	0.3	<0.05	10	<0.5	<0.2
C A0100	Soil	75	1.24	246	0.153	2	2.58	0.017	0.53	0.1	0.02	7.7	0.3	<0.05	9	<0.5	<0.2
C A0150	Soil	65	1.13	218	0.129	3	2.36	0.019	0.45	0.2	0.02	6.5	0.2	<0.05	8	<0.5	<0.2
C A0200	Soil	66	1.05	203	0.139	2	2.43	0.022	0.46	0.1	0.02	6.8	0.2	<0.05	8	<0.5	<0.2
C A0250	Soil	96	1.50	336	0.178	2	3.44	0.021	0.71	0.1	0.04	10.7	0.4	<0.05	11	<0.5	<0.2
C A0300	Soil	90	1.35	255	0.171	2	3.05	0.016	0.48	0.1	0.04	8.9	0.3	<0.05	10	<0.5	<0.2
C A0350	Soil	74	1.18	272	0.126	2	2.76	0.024	0.38	0.5	0.03	6.8	0.2	<0.05	10	<0.5	<0.2
C A0400	Soil	86	1.40	360	0.149	2	2.97	0.024	0.75	0.2	0.03	8.1	0.3	<0.05	10	<0.5	<0.2
C A0450	Soil	78	1.16	297	0.145	1	3.00	0.026	0.55	0.5	0.03	7.6	0.2	<0.05	9	<0.5	<0.2
C A0500	Soil	87	1.32	325	0.155	2	3.10	0.039	0.62	0.3	0.02	7.9	0.3	<0.05	10	<0.5	<0.2
C A0550	Soil	68	1.06	245	0.149	1	2.31	0.027	0.53	0.2	0.01	6.3	0.2	<0.05	8	<0.5	<0.2
C A0600	Soil	97	1.39	291	0.156	2	3.05	0.020	0.59	0.2	0.04	7.7	0.3	<0.05	11	<0.5	<0.2
C A0650	Soil	88	1.30	294	0.132	2	2.98	0.020	0.54	0.2	0.04	7.5	0.3	<0.05	10	<0.5	<0.2
C A0700	Soil	66	1.07	186	0.145	1	2.30	0.015	0.47	0.2	0.02	6.0	0.2	<0.05	9	<0.5	<0.2
C A0750	Soil	75	1.10	305	0.094	2	2.48	0.017	0.47	0.1	0.04	5.2	0.2	0.06	8	<0.5	<0.2
C A0800	Soil	69	1.10	194	0.142	2	2.54	0.016	0.46	0.2	0.04	6.6	0.2	<0.05	9	<0.5	<0.2
C A0850	Soil	101	1.48	367	0.151	2	3.35	0.021	0.53	0.2	0.04	8.8	0.3	<0.05	11	<0.5	<0.2
C B0000	Soil	82	1.24	262	0.124	2	3.00	0.021	0.50	0.2	0.06	7.8	0.3	<0.05	10	0.7	<0.2
C B0050	Soil	68	1.04	205	0.143	2	2.24	0.023	0.51	0.3	0.01	6.2	0.2	<0.05	8	<0.5	<0.2
C B0100	Soil	78	1.14	222	0.123	2	2.64	0.018	0.40	0.2	0.02	6.7	0.2	<0.05	10	<0.5	<0.2
C B0150	Soil	93	1.46	365	0.195	<1	3.24	0.028	0.63	0.2	0.02	9.9	0.3	0.05	11	<0.5	<0.2
C B0200	Soil	82	1.22	267	0.163	1	2.80	0.023	0.49	0.7	0.02	7.6	0.2	<0.05	9	<0.5	<0.2
C B0250	Soil	85	1.37	322	0.161	2	3.05	0.022	0.59	0.5	0.02	8.2	0.3	<0.05	10	<0.5	<0.2
C B0300	Soil	78	1.26	302	0.170	<1	2.78	0.023	0.62	0.2	0.01	8.4	0.3	<0.05	9	0.7	<0.2
C B0350	Soil	93	1.43	333	0.183	2	3.19	0.027	0.68	0.2	0.03	9.4	0.3	0.07	10	<0.5	<0.2
C B0400	Soil	98	1.58	369	0.188	1	3.61	0.030	0.67	0.2	0.02	10.2	0.4	0.10	11	<0.5	<0.2
C B0450	Soil	69	1.02	257	0.121	2	2.43	0.016	0.40	0.1	0.08	6.3	0.2	0.11	9	<0.5	<0.2
C B0500	Soil	87	1.32	299	0.140	2	3.04	0.024	0.57	0.2	0.04	8.3	0.3	0.11	10	<0.5	<0.2
C B0550	Soil	78	1.19	281	0.173	2	2.58	0.019	0.58	0.1	<0.01	7.6	0.3	<0.05	9	<0.5	<0.2

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Project: Gladstone 2011
Report Date: September 29, 2011

CERTIFICATE OF ANALYSIS WHI11001178.1

	Method	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	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	1
C B0600	Soil	1.0	46.1	7.2	86	0.2	46.2	18.1	628	3.91	31.3	4.3	1.8	37	0.3	0.5	0.2	104	0.44	0.083	8
C B0650	Soil	1.1	74.5	6.7	100	0.2	69.5	24.1	619	4.80	91.4	6.7	2.2	36	0.2	0.4	0.2	132	0.36	0.078	9
C B0700	Soil	1.3	66.3	7.6	92	0.2	59.8	23.7	635	4.39	47.2	4.1	2.0	44	0.1	0.4	0.2	120	0.47	0.073	9
C B0750	Soil	1.3	45.3	9.9	90	0.2	42.3	18.7	696	3.91	36.1	3.7	1.5	38	0.3	0.4	0.2	109	0.35	0.111	8
C C0100	Soil	1.0	41.0	7.2	85	0.1	37.4	12.7	397	3.65	30.4	25.9	1.7	26	0.1	0.4	0.2	100	0.25	0.057	8
C C0150	Soil	1.0	46.1	11.5	81	0.2	41.1	16.0	473	3.67	54.7	6.7	1.7	32	0.2	0.4	0.2	103	0.29	0.068	8
C C0150	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.	L.N.R.
C C0200	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
C C0250	Soil	0.8	38.9	5.0	69	<0.1	39.4	14.3	406	3.39	44.2	11.0	0.9	20	0.1	0.3	0.2	99	0.21	0.074	4
C C0250X	Soil	0.9	44.2	6.2	75	0.1	41.9	15.5	470	3.67	51.9	8.0	0.9	21	0.1	0.4	0.2	107	0.20	0.069	5
C C0300	Soil	1.1	36.3	7.4	63	0.2	39.2	13.6	431	3.46	34.1	13.3	0.8	19	0.1	0.3	0.2	104	0.18	0.065	5
C C0350	Soil	0.7	37.6	4.1	65	0.2	40.4	14.6	398	3.41	34.9	168.0	1.0	18	0.1	0.2	0.1	105	0.23	0.093	4
C C0400	Soil	0.6	33.6	3.9	64	<0.1	37.5	13.5	361	3.16	27.3	5.0	1.0	19	0.2	0.2	0.1	97	0.29	0.116	4
C C0450	Soil	0.8	38.2	5.2	70	0.1	39.8	14.5	489	3.49	27.0	8.6	1.1	19	0.2	0.3	0.2	102	0.20	0.075	5
C C0500	Soil	0.7	35.9	4.2	64	<0.1	39.1	14.2	415	3.34	21.4	7.6	1.1	21	0.2	0.3	0.2	97	0.30	0.112	5
C C0550	Soil	1.1	38.5	5.8	63	0.2	41.2	15.0	463	3.63	21.1	23.2	0.9	18	0.2	0.3	0.2	100	0.18	0.070	5
C C0600	Soil	1.6	41.0	7.7	72	0.2	41.6	18.5	672	3.87	16.2	4.4	0.8	25	0.1	0.4	0.2	111	0.23	0.087	6
C C0650	Soil	1.1	40.3	6.2	64	0.2	39.4	15.6	452	3.60	17.1	2.8	0.7	23	<0.1	0.3	0.2	103	0.19	0.072	5
C C0700	Soil	0.7	32.0	4.6	60	<0.1	37.2	14.0	368	3.35	14.0	15.9	1.2	18	0.2	0.2	0.1	99	0.17	0.054	5
C C0750	Soil	1.2	40.1	6.1	70	0.1	42.6	18.0	537	3.81	17.6	3.8	0.8	22	<0.1	0.3	0.2	109	0.20	0.089	6
C C0800	Soil	1.4	42.1	6.8	69	0.2	40.9	17.8	571	3.88	20.4	5.4	0.6	25	0.1	0.3	0.2	113	0.25	0.098	7
C C0850	Soil	0.7	35.5	5.2	66	<0.1	40.8	14.0	381	3.55	22.0	4.2	1.1	21	0.1	0.2	0.2	106	0.24	0.082	4
C C0900	Soil	0.9	39.4	5.5	73	0.1	40.3	15.6	421	3.69	39.3	9.0	1.0	21	0.1	0.2	0.2	108	0.20	0.081	5
C C0900X	Soil	0.8	38.8	5.4	73	0.1	40.5	16.2	411	3.74	39.9	7.8	1.0	22	<0.1	0.2	0.2	108	0.20	0.080	5
C C0950	Soil	1.0	47.6	6.3	82	0.1	49.3	18.2	461	3.93	46.2	5.2	0.9	26	<0.1	0.3	0.2	110	0.20	0.087	5
C C1000	Soil	0.9	44.0	5.6	68	0.2	41.7	13.9	323	3.38	43.0	8.7	0.7	22	<0.1	0.2	0.2	103	0.20	0.086	4
C C1050	Soil	1.5	55.7	7.6	80	0.1	52.0	22.4	528	3.96	68.0	5.1	0.9	24	0.2	0.4	0.2	106	0.22	0.103	5
C D0000	Soil	0.9	40.6	5.9	70	0.1	42.3	15.4	459	3.40	45.3	21.5	1.4	22	0.2	0.4	0.1	96	0.25	0.088	6
C D0050	Soil	0.8	44.2	6.2	81	0.1	45.9	17.8	524	3.64	63.4	58.0	1.1	28	0.1	0.3	0.2	103	0.31	0.102	5
C D0100	Soil	0.8	41.5	5.9	73	0.1	43.6	15.8	479	3.62	78.1	9.5	1.0	21	0.1	0.3	0.2	101	0.25	0.091	4

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CERTIFICATE OF ANALYSIS WHI11001178.1

	Method	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	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	1
C B0600	Soil	1.0	46.1	7.2	86	0.2	46.2	18.1	628	3.91	31.3	4.3	1.8	37	0.3	0.5	0.2	104	0.44	0.083	8
C B0650	Soil	1.1	74.5	6.7	100	0.2	69.5	24.1	619	4.80	91.4	6.7	2.2	36	0.2	0.4	0.2	132	0.36	0.078	9
C B0700	Soil	1.3	66.3	7.6	92	0.2	59.8	23.7	635	4.39	47.2	4.1	2.0	44	0.1	0.4	0.2	120	0.47	0.073	9
C B0750	Soil	1.3	45.3	9.9	90	0.2	42.3	18.7	696	3.91	36.1	3.7	1.5	38	0.3	0.4	0.2	109	0.35	0.111	8
C C0100	Soil	1.0	41.0	7.2	85	0.1	37.4	12.7	397	3.65	30.4	25.9	1.7	26	0.1	0.4	0.2	100	0.25	0.057	8
C C0150	Soil	1.0	46.1	11.5	81	0.2	41.1	16.0	473	3.67	54.7	6.7	1.7	32	0.2	0.4	0.2	103	0.29	0.068	8
C C0150	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.	L.N.R.
C C0200	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
C C0250	Soil	0.8	38.9	5.0	69	<0.1	39.4	14.3	406	3.39	44.2	11.0	0.9	20	0.1	0.3	0.2	99	0.21	0.074	4
C C0250X	Soil	0.9	44.2	6.2	75	0.1	41.9	15.5	470	3.67	51.9	8.0	0.9	21	0.1	0.4	0.2	107	0.20	0.069	5
C C0300	Soil	1.1	36.3	7.4	63	0.2	39.2	13.6	431	3.46	34.1	13.3	0.8	19	0.1	0.3	0.2	104	0.18	0.065	5
C C0350	Soil	0.7	37.6	4.1	65	0.2	40.4	14.6	398	3.41	34.9	168.0	1.0	18	0.1	0.2	0.1	105	0.23	0.093	4
C C0400	Soil	0.6	33.6	3.9	64	<0.1	37.5	13.5	361	3.16	27.3	5.0	1.0	19	0.2	0.2	0.1	97	0.29	0.116	4
C C0450	Soil	0.8	38.2	5.2	70	0.1	39.8	14.5	489	3.49	27.0	8.6	1.1	19	0.2	0.3	0.2	102	0.20	0.075	5
C C0500	Soil	0.7	35.9	4.2	64	<0.1	39.1	14.2	415	3.34	21.4	7.6	1.1	21	0.2	0.3	0.2	97	0.30	0.112	5
C C0550	Soil	1.1	38.5	5.8	63	0.2	41.2	15.0	463	3.63	21.1	23.2	0.9	18	0.2	0.3	0.2	100	0.18	0.070	5
C C0600	Soil	1.6	41.0	7.7	72	0.2	41.6	18.5	672	3.87	16.2	4.4	0.8	25	0.1	0.4	0.2	111	0.23	0.087	6
C C0650	Soil	1.1	40.3	6.2	64	0.2	39.4	15.6	452	3.60	17.1	2.8	0.7	23	<0.1	0.3	0.2	103	0.19	0.072	5
C C0700	Soil	0.7	32.0	4.6	60	<0.1	37.2	14.0	368	3.35	14.0	15.9	1.2	18	0.2	0.2	0.1	99	0.17	0.054	5
C C0750	Soil	1.2	40.1	6.1	70	0.1	42.6	18.0	537	3.81	17.6	3.8	0.8	22	<0.1	0.3	0.2	109	0.20	0.089	6
C C0800	Soil	1.4	42.1	6.8	69	0.2	40.9	17.8	571	3.88	20.4	5.4	0.6	25	0.1	0.3	0.2	113	0.25	0.098	7
C C0850	Soil	0.7	35.5	5.2	66	<0.1	40.8	14.0	381	3.55	22.0	4.2	1.1	21	0.1	0.2	0.2	106	0.24	0.082	4
C C0900	Soil	0.9	39.4	5.5	73	0.1	40.3	15.6	421	3.69	39.3	9.0	1.0	21	0.1	0.2	0.2	108	0.20	0.081	5
C C0900X	Soil	0.8	38.8	5.4	73	0.1	40.5	16.2	411	3.74	39.9	7.8	1.0	22	<0.1	0.2	0.2	108	0.20	0.080	5
C C0950	Soil	1.0	47.6	6.3	82	0.1	49.3	18.2	461	3.93	46.2	5.2	0.9	26	<0.1	0.3	0.2	110	0.20	0.087	5
C C1000	Soil	0.9	44.0	5.6	68	0.2	41.7	13.9	323	3.38	43.0	8.7	0.7	22	<0.1	0.2	0.2	103	0.20	0.086	4
C C1050	Soil	1.5	55.7	7.6	80	0.1	52.0	22.4	528	3.96	68.0	5.1	0.9	24	0.2	0.4	0.2	106	0.22	0.103	5
C D0000	Soil	0.9	40.6	5.9	70	0.1	42.3	15.4	459	3.40	45.3	21.5	1.4	22	0.2	0.4	0.1	96	0.25	0.088	6
C D0050	Soil	0.8	44.2	6.2	81	0.1	45.9	17.8	524	3.64	63.4	58.0	1.1	28	0.1	0.3	0.2	103	0.31	0.102	5
C D0100	Soil	0.8	41.5	5.9	73	0.1	43.6	15.8	479	3.62	78.1	9.5	1.0	21	0.1	0.3	0.2	101	0.25	0.091	4

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	Method	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
C B0600	Soil	67	1.13	263	0.141	2	2.58	0.023	0.45	0.2	0.04	6.3	0.2	0.07	8	<0.5	<0.2
C B0650	Soil	106	1.47	389	0.176	1	3.10	0.022	0.73	0.2	0.03	9.0	0.3	<0.05	11	<0.5	<0.2
C B0700	Soil	79	1.17	323	0.155	2	2.61	0.023	0.55	0.2	0.03	7.7	0.3	0.06	9	<0.5	<0.2
C B0750	Soil	69	1.00	236	0.131	2	2.76	0.017	0.37	0.1	0.06	6.4	0.2	0.09	9	<0.5	<0.2
C C0100	Soil	61	0.89	149	0.150	1	2.25	0.014	0.33	0.1	0.02	5.3	0.2	<0.05	8	<0.5	<0.2
C C0150	Soil	64	0.94	229	0.138	2	2.38	0.019	0.42	0.2	0.03	6.2	0.2	0.05	8	<0.5	<0.2
C C0150	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.
C C0200	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
C C0250	Soil	63	0.95	242	0.138	1	2.11	0.011	0.58	0.2	0.02	5.5	0.3	0.07	8	<0.5	<0.2
C C0250X	Soil	68	1.00	257	0.136	2	2.27	0.012	0.55	0.3	0.02	5.8	0.3	0.06	9	<0.5	<0.2
C C0300	Soil	65	0.91	212	0.133	1	2.30	0.010	0.48	0.1	0.02	5.4	0.2	0.06	8	<0.5	<0.2
C C0350	Soil	68	0.99	262	0.156	<1	2.36	0.010	0.69	0.2	0.01	6.5	0.3	<0.05	8	<0.5	<0.2
C C0400	Soil	58	0.92	256	0.138	<1	2.06	0.011	0.55	0.2	0.01	5.9	0.2	<0.05	7	<0.5	<0.2
C C0450	Soil	64	0.94	252	0.138	<1	2.44	0.011	0.47	0.2	0.02	6.1	0.2	0.06	8	<0.5	<0.2
C C0500	Soil	61	0.93	246	0.133	1	2.21	0.012	0.49	0.1	<0.01	5.6	0.2	<0.05	7	0.5	<0.2
C C0550	Soil	64	0.91	233	0.126	<1	2.43	0.011	0.42	0.2	0.02	5.7	0.2	0.07	8	<0.5	<0.2
C C0600	Soil	70	0.96	274	0.125	1	2.54	0.013	0.40	0.2	0.03	5.8	0.2	0.09	9	<0.5	<0.2
C C0650	Soil	64	0.99	231	0.116	<1	2.39	0.014	0.39	0.2	0.03	5.4	0.2	0.08	8	<0.5	<0.2
C C0700	Soil	62	0.91	239	0.137	<1	2.27	0.013	0.45	0.2	0.02	5.7	0.2	<0.05	7	<0.5	<0.2
C C0750	Soil	68	1.04	277	0.137	<1	2.52	0.012	0.45	0.2	0.02	6.1	0.3	0.07	9	<0.5	<0.2
C C0800	Soil	71	1.02	310	0.120	2	2.70	0.012	0.45	0.2	0.04	5.9	0.3	0.11	9	0.6	<0.2
C C0850	Soil	69	1.09	270	0.151	<1	2.42	0.013	0.65	0.2	<0.01	6.8	0.3	<0.05	9	<0.5	<0.2
C C0900	Soil	68	1.00	309	0.145	<1	2.54	0.011	0.61	0.2	0.01	6.7	0.3	0.05	9	<0.5	<0.2
C C0900X	Soil	65	1.05	300	0.140	<1	2.72	0.012	0.60	0.1	0.02	6.7	0.3	0.08	9	0.6	<0.2
C C0950	Soil	73	1.22	318	0.146	<1	2.99	0.012	0.52	0.2	0.01	7.0	0.3	0.07	10	0.5	<0.2
C C1000	Soil	64	1.01	291	0.127	<1	2.47	0.011	0.50	0.2	0.01	5.9	0.3	0.09	9	<0.5	<0.2
C C1050	Soil	63	1.00	223	0.116	<1	2.70	0.012	0.33	0.2	0.04	5.7	0.2	0.10	8	0.6	<0.2
C D0000	Soil	60	0.95	224	0.140	<1	2.23	0.014	0.48	0.2	0.02	5.9	0.2	<0.05	7	0.8	<0.2
C D0050	Soil	71	1.06	274	0.146	<1	2.49	0.014	0.57	0.1	0.03	6.6	0.2	0.05	8	<0.5	<0.2
C D0100	Soil	68	0.99	231	0.149	<1	2.31	0.011	0.60	0.2	<0.01	6.5	0.3	<0.05	8	<0.5	<0.2

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Project: Gladstone 2011
Report Date: September 29, 2011

CERTIFICATE OF ANALYSIS WHI11001178.1

Method		1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
Analyte		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
MDL		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	1
C D0150	Soil	1.0	45.1	6.5	74	0.1	47.6	17.6	519	3.67	73.4	23.7	1.2	24	0.2	0.3	0.2	97	0.29	0.090	5
C D0200	Soil	1.0	61.2	5.7	82	0.2	74.0	23.9	628	3.95	148.8	198.6	1.1	31	0.2	0.3	0.1	99	0.37	0.121	6
C D0250	Soil	0.8	44.2	5.6	73	<0.1	49.4	19.2	483	3.50	84.3	19.3	1.3	19	0.3	0.3	0.1	92	0.25	0.082	5
C D0300	Soil	1.1	43.6	7.1	81	<0.1	44.7	18.7	582	3.77	45.6	5.3	1.1	17	0.3	0.4	0.2	102	0.16	0.060	5
C D0350	Soil	1.6	45.5	9.0	84	0.2	52.4	19.8	601	4.02	50.8	4.5	1.5	19	0.2	0.4	0.2	114	0.16	0.061	7
C D0400	Soil	1.4	42.1	8.7	76	0.1	44.1	16.4	497	3.87	35.3	4.7	1.1	21	0.1	0.4	0.2	107	0.18	0.055	6
C D0450	Soil	1.0	34.9	5.6	65	<0.1	39.1	13.1	406	3.10	24.9	6.9	1.3	21	0.1	0.2	0.1	93	0.31	0.114	5
C D0500	Soil	1.4	45.5	9.3	81	0.1	47.3	17.2	515	3.82	39.8	6.4	1.3	25	0.1	0.3	0.1	112	0.30	0.100	6
C D0550	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.	L.N.R.
C D0700	Soil	0.8	36.0	4.8	70	<0.1	39.0	14.1	462	3.37	23.0	2.4	1.2	20	0.1	0.2	0.1	99	0.29	0.103	4
C D0750	Soil	1.3	44.4	6.9	77	0.2	46.3	18.2	553	3.76	74.5	26.0	1.1	26	0.3	0.4	0.2	106	0.24	0.078	6
C D0800	Soil	1.3	48.8	7.6	85	0.2	50.8	20.7	641	4.00	60.0	18.6	1.2	28	0.1	0.3	0.2	113	0.29	0.095	6
C D0900	Soil	1.2	39.4	8.6	73	<0.1	45.2	19.1	600	3.72	19.0	11.6	1.5	20	0.2	0.4	0.2	103	0.24	0.079	7
C D0950	Soil	1.0	57.1	5.8	83	<0.1	51.8	20.9	652	4.24	25.8	201.2	1.1	19	0.1	0.2	0.2	125	0.16	0.054	4
C D1000	Soil	1.0	51.9	6.1	82	0.2	46.3	18.1	524	4.00	20.6	7.2	1.2	19	0.1	0.3	0.2	118	0.20	0.062	5
C D1050	Soil	1.0	51.0	6.4	83	0.2	44.8	18.0	568	3.94	17.6	3.5	1.6	21	0.1	0.4	0.3	114	0.22	0.060	7
C D1100	Soil	1.2	55.3	7.3	83	<0.1	51.6	20.8	584	4.11	13.8	3.6	1.2	20	0.1	0.3	0.2	123	0.15	0.044	6
C D1150	Soil	1.8	60.6	9.5	92	0.2	51.9	24.5	708	4.65	41.3	201.3	1.0	33	0.2	0.7	0.3	127	0.23	0.087	9
C D1300	Soil	1.6	64.5	9.1	100	<0.1	66.3	25.9	797	4.69	28.0	4.2	1.8	26	0.3	0.4	0.3	131	0.26	0.094	8
C D1230	Soil	1.1	48.8	7.2	79	0.1	45.8	16.8	480	3.89	30.4	6.5	1.3	15	0.2	0.3	0.2	113	0.12	0.046	7
C D01400	Soil	1.1	39.9	6.5	77	<0.1	41.3	15.3	421	3.57	37.2	27.4	1.2	19	<0.1	0.3	0.2	105	0.16	0.053	5
C D-A	Soil	1.0	93.6	6.2	61	0.2	97.6	25.0	568	4.90	38.9	5.6	1.4	27	0.1	1.8	0.2	119	0.42	0.104	6
C D-B	Soil	1.7	66.9	9.4	74	0.2	76.1	23.1	609	4.81	89.2	16.2	1.2	28	0.2	4.7	0.3	110	0.34	0.058	8
C D-C	Soil	1.4	61.0	7.5	84	0.3	49.6	19.5	542	4.18	66.0	10.9	1.2	26	0.1	0.3	0.2	116	0.21	0.080	6
C D-D	Soil	0.9	46.1	5.7	76	<0.1	47.8	17.0	489	3.82	20.6	6.4	1.2	23	0.2	0.3	0.2	113	0.26	0.069	6
C D-E	Soil	1.0	51.6	5.0	82	<0.1	45.9	18.8	558	3.74	30.8	10.3	1.3	24	0.2	0.3	0.1	110	0.29	0.099	5
C E0000	Soil	0.9	54.8	6.9	79	0.2	50.6	16.6	361	3.78	33.4	16.8	2.0	20	<0.1	0.2	0.2	118	0.21	0.094	8
C E0050	Soil	0.6	46.3	5.6	75	0.2	46.0	16.0	341	3.69	36.7	7.2	1.8	18	<0.1	0.2	0.2	113	0.22	0.090	6
C E0100	Soil	0.5	48.8	5.5	77	0.1	50.0	14.3	350	3.74	43.3	6.7	2.1	18	0.1	0.2	0.2	114	0.20	0.092	8
C E0150	Soil	0.9	57.8	6.1	80	0.2	55.5	18.6	366	3.95	76.0	167.3	1.6	22	<0.1	0.2	0.2	120	0.23	0.095	6

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	Method	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
C D0150	Soil	67	0.99	240	0.143	<1	2.38	0.013	0.53	0.2	0.02	6.3	0.2	<0.05	8	0.8	<0.2
C D0200	Soil	115	1.32	243	0.136	<1	2.50	0.016	0.49	0.2	<0.01	6.1	0.3	<0.05	8	0.6	<0.2
C D0250	Soil	60	0.94	190	0.145	1	2.36	0.012	0.48	0.1	0.02	5.7	0.2	0.06	7	0.8	<0.2
C D0300	Soil	68	1.06	222	0.158	<1	2.74	0.011	0.57	0.2	0.01	6.8	0.3	<0.05	8	0.8	<0.2
C D0350	Soil	76	1.08	261	0.184	2	2.84	0.013	0.63	0.3	0.03	6.8	0.3	0.06	9	0.7	<0.2
C D0400	Soil	67	0.99	229	0.155	<1	2.47	0.012	0.52	0.2	0.03	6.3	0.2	<0.05	8	0.8	<0.2
C D0450	Soil	57	0.85	199	0.140	<1	1.99	0.011	0.54	0.2	0.01	5.8	0.2	<0.05	7	0.8	<0.2
C D0500	Soil	73	1.05	280	0.177	1	2.56	0.018	0.67	0.2	0.02	7.5	0.3	<0.05	8	0.5	<0.2
C D0550	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.
C D0700	Soil	59	0.89	224	0.160	<1	2.18	0.011	0.59	0.1	<0.01	6.6	0.3	<0.05	8	<0.5	<0.2
C D0750	Soil	66	1.07	241	0.148	<1	2.61	0.016	0.45	0.2	0.03	6.4	0.2	<0.05	8	0.7	<0.2
C D0800	Soil	69	1.07	277	0.172	1	2.79	0.014	0.58	0.2	0.03	7.4	0.3	<0.05	9	1.0	<0.2
C D0900	Soil	64	0.96	222	0.177	2	2.72	0.012	0.48	0.2	0.03	6.2	0.2	<0.05	8	1.1	<0.2
C D0950	Soil	74	1.08	302	0.202	<1	3.02	0.011	0.78	0.2	<0.01	8.2	0.3	<0.05	9	0.7	<0.2
C D1000	Soil	75	1.03	229	0.212	1	2.73	0.012	0.65	0.2	0.02	7.7	0.2	<0.05	9	0.7	<0.2
C D1050	Soil	74	1.01	228	0.218	2	2.60	0.012	0.60	0.2	0.02	7.3	0.3	<0.05	8	0.8	<0.2
C D1100	Soil	80	1.05	286	0.222	<1	2.90	0.014	0.65	0.2	0.04	8.1	0.3	<0.05	9	0.7	<0.2
C D1150	Soil	78	1.06	291	0.188	4	2.93	0.015	0.51	0.3	0.06	7.0	0.3	<0.05	10	<0.5	0.3
C D1300	Soil	86	1.17	317	0.238	2	3.22	0.017	0.63	0.3	0.03	8.5	0.3	<0.05	10	0.9	<0.2
C D1230	Soil	73	0.95	167	0.213	2	2.64	0.011	0.49	0.2	0.02	7.3	0.3	<0.05	9	0.7	<0.2
C D01400	Soil	65	0.93	229	0.183	1	2.37	0.011	0.44	0.2	0.01	6.5	0.2	<0.05	8	<0.5	<0.2
C D-A	Soil	86	1.23	281	0.169	2	2.52	0.018	0.81	0.2	<0.01	9.7	0.3	<0.05	8	0.8	<0.2
C D-B	Soil	70	1.09	214	0.126	2	2.41	0.012	0.63	0.2	0.02	7.7	0.3	<0.05	7	0.6	<0.2
C D-C	Soil	72	1.09	238	0.184	<1	2.83	0.014	0.56	0.2	0.03	7.5	0.2	<0.05	9	0.7	<0.2
C D-D	Soil	67	0.96	307	0.197	<1	2.58	0.015	0.50	0.2	0.02	7.3	0.2	<0.05	9	<0.5	<0.2
C D-E	Soil	64	0.98	231	0.203	<1	2.33	0.013	0.63	0.2	0.03	7.4	0.3	<0.05	8	0.5	<0.2
C E0000	Soil	83	1.15	333	0.213	<1	3.08	0.013	0.86	0.3	0.02	8.9	0.3	<0.05	10	0.7	<0.2
C E0050	Soil	80	1.12	322	0.190	<1	2.90	0.012	0.84	0.2	<0.01	8.1	0.3	<0.05	9	<0.5	<0.2
C E0100	Soil	85	1.19	327	0.204	<1	3.00	0.012	0.95	0.4	0.01	8.9	0.4	<0.05	11	<0.5	<0.2
C E0150	Soil	85	1.19	339	0.207	<1	3.03	0.013	0.92	0.2	0.01	8.8	0.3	<0.05	10	0.6	<0.2

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	Method	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	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	1
C E0200	Soil	0.6	51.9	5.8	81	0.2	51.8	17.7	354	4.12	54.3	8.0	1.9	20	<0.1	0.2	0.2	127	0.24	0.089	7
C E0250	Soil	1.2	43.1	6.6	79	0.2	40.9	16.5	471	3.80	47.7	17.8	1.3	22	0.1	0.4	0.3	114	0.23	0.078	6
C E0300	Soil	1.0	51.0	7.9	87	0.2	48.8	18.7	521	4.23	54.4	94.6	1.3	25	0.3	0.3	0.2	120	0.24	0.057	6
C E0350	Soil	0.6	46.1	4.4	79	<0.1	44.5	15.5	415	3.61	57.4	6.0	0.9	20	0.1	0.1	0.2	109	0.28	0.103	4
C E0400	Soil	1.1	63.3	6.9	90	0.2	56.8	22.9	567	4.36	95.7	14.8	1.1	27	0.2	0.3	0.2	128	0.33	0.105	5
C E0450	Soil	1.3	68.6	7.2	79	0.2	55.0	18.8	458	4.21	120.4	8.5	1.1	35	0.1	0.3	0.2	121	0.35	0.094	5
C E0500	Soil	1.1	76.8	9.5	105	0.1	62.2	26.1	645	4.33	218.3	33.0	0.6	47	0.3	0.7	0.2	106	0.30	0.094	7
C E0550	Soil	1.2	66.4	8.5	92	0.2	55.1	23.3	559	4.16	321.4	70.1	0.7	57	0.3	0.6	0.2	110	0.35	0.089	4
C E0600	Soil	1.2	72.9	7.2	96	0.2	63.8	25.5	588	4.41	215.3	104.6	0.8	44	0.2	0.6	0.2	111	0.40	0.091	5
C E0650	Soil	1.2	81.4	7.5	97	0.2	71.3	26.0	637	4.90	238.9	107.6	0.9	43	0.2	0.5	0.2	126	0.29	0.078	4
C E0700	Soil	1.0	59.8	7.5	99	0.1	54.1	25.6	706	3.90	101.0	25.7	0.8	64	0.4	0.4	0.2	109	0.57	0.136	6
C E0750	Soil	0.9	51.3	6.4	99	0.1	58.0	23.5	618	4.50	84.4	22.0	0.8	49	0.1	0.4	0.2	117	0.32	0.072	6
C E0800	Soil	1.1	62.0	9.6	98	0.3	55.7	22.4	736	4.10	96.0	29.7	0.5	74	0.2	0.3	0.2	103	0.60	0.093	5
C E0850	Soil	0.9	51.5	6.8	94	0.2	50.4	20.5	597	4.30	77.9	17.9	0.7	40	0.1	0.4	0.2	116	0.35	0.092	5
C E0850X	Soil	0.8	57.0	7.1	99	0.2	53.8	22.5	707	4.28	83.4	24.1	1.0	41	0.1	0.4	0.2	128	0.39	0.130	7
C E0900	Soil	0.7	49.3	5.8	92	<0.1	54.5	19.4	573	4.24	39.1	3.2	0.9	29	0.2	0.3	0.2	127	0.32	0.081	5
C E0950	Soil	0.7	43.1	5.6	82	0.1	43.8	16.2	497	3.75	46.4	8.0	0.9	25	<0.1	0.2	0.1	111	0.24	0.079	4
C E1000	Soil	0.7	52.9	6.2	90	0.2	54.5	18.3	529	4.22	97.7	21.5	1.0	28	0.2	0.3	0.2	122	0.28	0.074	5
C F0000	Soil	1.0	49.0	10.5	94	0.3	50.0	20.7	604	3.97	243.9	156.6	0.8	41	0.3	0.5	0.2	105	0.37	0.092	5
C F0050	Soil	1.5	76.9	10.7	144	0.3	57.5	22.3	672	5.34	670.5	104.1	1.4	61	1.4	1.3	0.5	121	0.31	0.092	8
C F0100	Soil	0.7	47.9	6.4	92	0.2	54.3	19.4	531	4.46	72.3	9.7	1.0	35	0.2	0.4	0.2	127	0.32	0.062	7
C F0150	Soil	0.7	54.1	8.5	97	0.1	57.5	21.3	592	4.36	52.8	31.5	1.8	30	0.2	0.3	0.2	120	0.20	0.039	6
C F0200	Soil	0.9	49.8	7.0	86	0.4	50.8	18.7	470	4.00	65.9	16.2	1.4	21	0.2	0.3	0.2	113	0.18	0.041	6
C F0250	Soil	0.9	47.3	6.8	86	0.1	48.7	17.8	526	4.00	46.8	28.7	1.6	18	0.2	0.3	0.2	114	0.17	0.049	5
C F0300	Soil	0.7	39.9	6.3	73	<0.1	41.6	18.4	479	3.44	53.6	79.7	1.5	23	0.1	0.3	0.1	92	0.23	0.060	5
C F0350	Soil	0.8	43.8	8.2	89	0.2	47.0	17.6	441	4.04	49.9	7.3	1.2	26	0.2	0.3	0.2	107	0.26	0.046	7
C F0400	Soil	1.0	41.3	7.7	74	0.1	41.5	17.1	489	3.68	42.5	10.9	1.6	24	0.1	0.4	0.2	97	0.24	0.048	6
C F0450	Soil	1.3	41.2	7.7	75	0.1	38.8	13.7	404	3.65	45.7	10.1	0.7	18	0.2	0.5	0.2	97	0.14	0.055	6
C F0500	Soil	0.8	46.1	7.2	77	0.5	45.2	17.2	498	3.79	42.3	7.4	1.4	22	0.2	0.3	0.2	107	0.22	0.063	5
C F0550	Soil	1.1	35.6	7.0	64	0.1	30.7	12.8	343	3.06	35.2	8.0	1.4	24	0.2	0.4	0.2	81	0.23	0.036	6

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Project: Gladstone 2011
Report Date: September 29, 2011

CERTIFICATE OF ANALYSIS WHI11001178.1

Method		1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
Analyte		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
C E0200	Soil	87	1.24	344	0.221	<1	3.12	0.013	1.00	0.2	<0.01	9.5	0.4	<0.05	10	<0.5	<0.2
C E0250	Soil	67	0.93	239	0.171	<1	2.63	0.014	0.57	0.2	0.02	6.7	0.3	0.11	9	<0.5	0.4
C E0300	Soil	77	1.07	312	0.196	1	2.80	0.015	0.63	0.2	0.03	7.6	0.3	<0.05	9	0.7	<0.2
C E0350	Soil	74	1.02	293	0.204	<1	2.34	0.013	0.83	0.2	<0.01	8.0	0.3	<0.05	8	0.6	<0.2
C E0400	Soil	80	1.09	313	0.236	<1	2.67	0.017	0.90	0.2	0.04	8.9	0.3	<0.05	10	<0.5	<0.2
C E0450	Soil	77	1.01	307	0.221	<1	2.63	0.011	0.84	0.2	0.02	8.3	0.3	<0.05	9	1.0	<0.2
C E0500	Soil	70	0.97	242	0.134	<1	2.60	0.013	0.36	0.2	0.01	5.7	0.2	<0.05	9	<0.5	<0.2
C E0550	Soil	70	1.00	304	0.163	<1	2.51	0.011	0.84	0.2	0.01	7.3	0.3	<0.05	9	0.6	<0.2
C E0600	Soil	75	1.03	257	0.159	<1	2.46	0.013	0.71	0.3	0.02	6.8	0.3	<0.05	8	0.7	<0.2
C E0650	Soil	83	1.15	296	0.189	<1	2.90	0.012	0.82	0.2	0.02	8.2	0.3	<0.05	9	0.9	<0.2
C E0700	Soil	70	1.02	358	0.158	<1	2.70	0.020	0.88	0.2	0.03	6.2	0.3	0.08	9	<0.5	<0.2
C E0750	Soil	71	1.24	257	0.218	<1	3.38	0.028	0.74	0.2	0.02	8.2	0.3	<0.05	11	1.5	<0.2
C E0800	Soil	88	1.24	304	0.158	<1	2.82	0.021	0.86	0.2	0.04	6.4	0.3	0.07	9	0.9	<0.2
C E0850	Soil	75	1.11	302	0.171	<1	2.88	0.014	0.95	0.2	0.02	7.4	0.3	<0.05	9	0.8	<0.2
C E0850X	Soil	84	1.15	315	0.241	2	2.94	0.015	0.98	0.3	<0.01	8.3	0.3	0.17	9	0.9	<0.2
C E0900	Soil	85	1.19	321	0.209	<1	2.93	0.011	0.94	0.2	0.01	8.3	0.3	<0.05	10	0.6	<0.2
C E0950	Soil	73	1.01	302	0.195	<1	2.41	0.010	0.87	0.2	<0.01	7.7	0.3	<0.05	8	0.7	<0.2
C E1000	Soil	82	1.11	333	0.212	<1	2.71	0.010	0.95	0.1	<0.01	8.5	0.3	<0.05	9	0.7	<0.2
C F0000	Soil	73	1.05	252	0.162	1	2.49	0.012	0.73	0.1	0.02	6.6	0.3	0.06	8	<0.5	<0.2
C F0050	Soil	95	1.30	254	0.141	1	3.11	0.015	0.66	0.1	0.02	7.8	0.3	0.07	10	1.1	<0.2
C F0100	Soil	85	1.25	266	0.199	2	2.96	0.015	0.89	0.1	0.02	7.8	0.3	0.05	10	<0.5	<0.2
C F0150	Soil	87	1.34	274	0.235	2	3.15	0.019	0.72	0.2	<0.01	8.1	0.3	<0.05	10	0.6	<0.2
C F0200	Soil	73	1.09	232	0.202	2	2.98	0.012	0.73	0.2	0.01	7.1	0.3	<0.05	9	0.5	<0.2
C F0250	Soil	79	1.07	281	0.227	2	3.06	0.014	0.83	0.2	0.02	7.7	0.3	<0.05	9	<0.5	<0.2
C F0300	Soil	61	0.93	217	0.168	1	2.35	0.014	0.58	0.2	<0.01	6.2	0.3	<0.05	7	<0.5	<0.2
C F0350	Soil	71	1.07	230	0.173	2	2.79	0.013	0.64	0.2	0.03	6.2	0.3	<0.05	9	<0.5	<0.2
C F0400	Soil	65	0.97	215	0.176	2	2.64	0.013	0.52	0.2	0.02	6.2	0.3	<0.05	8	<0.5	<0.2
C F0450	Soil	63	0.89	147	0.132	1	2.45	0.011	0.46	0.2	0.04	4.7	0.3	<0.05	8	0.6	<0.2
C F0500	Soil	73	1.00	263	0.203	1	2.93	0.014	0.63	0.2	0.01	7.0	0.3	<0.05	9	<0.5	<0.2
C F0550	Soil	51	0.81	155	0.135	1	2.07	0.012	0.32	0.2	0.01	4.5	0.2	<0.05	6	<0.5	<0.2

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	Method	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	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	1
C F0600	Soil	0.8	36.4	7.4	70	<0.1	38.8	15.4	544	3.33	53.3	8.9	1.4	32	0.2	0.3	0.2	89	0.32	0.087	5
C F0650	Soil	0.6	42.4	5.9	81	<0.1	42.3	17.7	538	3.73	49.6	102.9	1.4	25	0.2	0.3	0.2	105	0.23	0.073	5
C F0700	Soil	1.1	53.3	6.5	86	0.2	46.7	18.8	617	4.08	61.3	15.2	1.5	30	0.1	0.3	0.2	111	0.21	0.054	5
C F0750	Soil	0.9	45.5	6.5	74	0.2	44.5	16.0	483	3.81	36.3	11.8	1.2	15	0.2	0.3	0.2	106	0.17	0.055	6
C F0800	Soil	0.8	40.7	6.5	82	<0.1	42.6	17.6	514	3.87	41.9	8.9	1.4	28	<0.1	0.3	0.2	106	0.26	0.041	5
C F0850	Soil	1.5	50.2	8.8	96	0.2	43.9	18.7	640	4.36	121.3	9.5	1.3	44	0.1	0.8	0.2	113	0.34	0.082	7
C F0900	Soil	0.9	45.8	7.5	85	0.2	45.5	16.0	449	3.98	70.9	44.7	1.5	28	<0.1	0.4	0.2	113	0.29	0.067	6
C F0950	Soil	0.7	45.3	5.3	83	<0.1	43.6	16.0	490	3.81	57.5	18.6	1.6	25	<0.1	0.4	0.1	110	0.27	0.080	6
C F1000	Soil	0.9	44.8	6.3	83	0.1	45.9	16.4	477	3.78	65.1	13.3	1.5	26	<0.1	0.4	0.2	114	0.30	0.083	5
C F1050	Soil	0.9	53.7	5.9	88	0.2	53.0	18.2	476	4.39	73.3	12.1	1.6	29	<0.1	0.2	0.2	134	0.26	0.054	6
C F1100	Soil	0.7	43.8	5.1	75	<0.1	43.4	15.7	384	3.62	45.3	8.0	2.1	24	<0.1	0.2	0.2	111	0.31	0.084	7
C F1150	Soil	0.6	42.3	4.8	67	0.1	43.3	15.2	410	3.68	34.4	6.2	1.6	25	<0.1	0.2	0.1	114	0.31	0.083	5
C F1200	Soil	0.4	37.0	4.5	68	<0.1	37.0	13.8	404	3.26	30.6	17.0	1.4	23	0.1	0.2	0.1	101	0.35	0.106	5
C F1250	Soil	0.6	40.8	5.8	77	<0.1	38.2	14.6	413	3.62	37.8	7.0	1.4	22	<0.1	0.2	0.2	113	0.22	0.062	6
C F1300	Soil	0.8	45.6	6.5	85	0.1	45.1	18.1	561	4.12	33.9	10.2	1.1	30	0.1	0.1	0.2	133	0.29	0.081	4
C F1350	Soil	0.7	43.4	6.2	81	0.1	43.2	16.1	467	3.88	28.9	8.5	1.2	26	<0.1	0.2	0.2	122	0.24	0.068	5
C F1400	Soil	0.8	46.5	6.8	85	0.1	44.0	17.3	496	4.08	43.5	39.2	1.1	25	<0.1	0.1	0.2	127	0.27	0.086	4
C F	Soil	0.5	41.5	5.0	68	0.1	41.1	14.7	405	3.64	33.5	8.9	1.8	25	0.1	0.2	0.2	113	0.33	0.088	6
HA0000	Soil	0.8	30.9	6.7	84	<0.1	30.5	15.2	425	3.11	7.7	0.9	1.2	44	<0.1	0.3	0.1	80	0.75	0.112	8
HA0050	Soil	1.0	37.6	7.1	64	0.1	37.4	15.7	373	3.22	10.1	3.8	1.6	32	<0.1	0.4	0.1	83	0.59	0.088	9
HA0100	Soil	0.6	33.3	6.0	69	0.1	37.5	16.5	342	3.27	8.7	3.4	1.7	35	0.1	0.4	0.1	81	0.64	0.107	9
HA0150	Soil	0.9	50.0	5.4	66	0.2	31.5	9.6	227	2.47	8.5	2.7	0.8	55	0.1	0.5	<0.1	61	0.94	0.101	9
HA0200	Soil	0.9	71.6	6.0	55	0.4	27.8	9.5	335	2.04	9.1	7.1	0.4	82	0.3	0.7	0.1	45	1.30	0.144	14
HA0250	Soil	0.7	27.4	4.5	63	<0.1	30.9	11.9	379	2.76	11.6	<0.5	1.5	35	0.1	0.3	<0.1	74	0.67	0.147	8
HA0300	Soil	0.6	44.3	5.3	75	<0.1	48.4	15.4	409	3.26	9.6	2.7	2.0	32	0.2	0.3	<0.1	85	0.62	0.095	9
HA0350	Soil	0.8	28.5	4.2	70	<0.1	38.0	15.0	383	2.85	10.0	1.2	1.4	26	<0.1	0.2	0.1	84	0.50	0.103	6
HA0400	Soil	0.4	31.3	3.7	56	<0.1	35.8	10.9	294	2.73	6.6	5.6	1.8	27	<0.1	0.2	<0.1	72	0.51	0.132	6
HA0450	Soil	1.1	26.7	2.0	40	0.2	26.3	42.0	1802	3.32	3.4	5.7	0.8	20	0.2	0.2	<0.1	71	0.35	0.094	7
HA0500	Soil	0.5	42.7	3.5	81	0.2	50.9	14.3	245	3.38	6.9	1.6	1.3	19	<0.1	0.2	0.1	112	0.46	0.125	6
HA0550	Soil	0.5	22.7	3.6	63	<0.1	38.7	12.1	271	2.77	8.4	0.6	1.5	21	0.1	0.2	0.1	80	0.45	0.114	6

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	Method	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
C F0600	Soil	62	0.92	225	0.163	2	2.37	0.014	0.52	0.2	0.02	5.6	0.3	<0.05	7	<0.5	<0.2
C F0650	Soil	70	1.03	246	0.206	<1	2.75	0.017	0.67	0.2	0.01	6.9	0.3	<0.05	8	<0.5	<0.2
C F0700	Soil	77	1.04	245	0.215	<1	2.78	0.015	0.69	0.2	0.01	7.8	0.3	<0.05	9	<0.5	<0.2
C F0750	Soil	72	0.94	219	0.200	1	2.88	0.012	0.60	0.2	0.03	6.8	0.3	<0.05	9	<0.5	<0.2
C F0800	Soil	72	1.05	215	0.206	<1	2.54	0.015	0.67	0.2	0.01	6.8	0.2	<0.05	9	<0.5	<0.2
C F0850	Soil	74	1.03	311	0.168	1	2.68	0.015	0.52	0.2	0.03	7.1	0.2	0.07	10	0.9	<0.2
C F0900	Soil	76	1.04	305	0.210	<1	2.74	0.014	0.81	0.2	0.01	7.6	0.3	<0.05	9	<0.5	<0.2
C F0950	Soil	77	1.08	305	0.209	<1	2.59	0.015	0.86	0.2	<0.01	7.9	0.3	<0.05	9	<0.5	<0.2
C F1000	Soil	77	1.08	323	0.211	<1	2.54	0.016	0.85	0.2	<0.01	8.2	0.3	<0.05	9	<0.5	<0.2
C F1050	Soil	90	1.32	433	0.246	<1	3.06	0.017	1.09	0.3	<0.01	9.9	0.4	<0.05	11	<0.5	<0.2
C F1100	Soil	75	1.08	348	0.208	<1	2.48	0.016	0.92	0.3	<0.01	8.6	0.3	<0.05	9	<0.5	<0.2
C F1150	Soil	75	1.09	368	0.208	<1	2.38	0.015	0.93	0.2	<0.01	8.8	0.3	<0.05	8	<0.5	<0.2
C F1200	Soil	65	0.94	331	0.202	<1	2.11	0.015	0.89	0.2	<0.01	8.0	0.3	<0.05	8	<0.5	<0.2
C F1250	Soil	73	0.99	362	0.224	<1	2.64	0.013	0.91	0.2	0.01	8.6	0.3	<0.05	9	<0.5	<0.2
C F1300	Soil	88	1.19	460	0.271	<1	2.96	0.018	1.13	0.2	<0.01	10.4	0.4	<0.05	10	<0.5	<0.2
C F1350	Soil	80	1.12	412	0.247	<1	2.75	0.015	0.99	0.2	0.01	9.4	0.4	<0.05	9	<0.5	<0.2
C F1400	Soil	82	1.13	436	0.256	<1	2.93	0.015	1.11	0.2	<0.01	9.6	0.4	<0.05	10	<0.5	<0.2
C F	Soil	75	1.09	370	0.212	<1	2.39	0.015	0.94	0.2	<0.01	9.1	0.3	<0.05	8	<0.5	<0.2
HA0000	Soil	57	1.00	263	0.152	<1	1.83	0.026	0.41	0.1	<0.01	4.8	0.2	<0.05	6	<0.5	<0.2
HA0050	Soil	61	1.00	240	0.138	<1	1.87	0.021	0.22	0.1	0.02	4.9	0.2	<0.05	6	<0.5	<0.2
HA0100	Soil	63	1.09	261	0.157	1	2.01	0.025	0.33	<0.1	0.01	5.2	0.2	<0.05	6	<0.5	<0.2
HA0150	Soil	45	0.75	278	0.086	2	1.45	0.023	0.19	<0.1	0.04	3.3	0.1	0.06	5	0.8	<0.2
HA0200	Soil	36	0.55	346	0.043	3	1.27	0.025	0.10	0.1	0.06	2.4	0.1	0.14	3	0.6	<0.2
HA0250	Soil	54	0.93	253	0.159	1	1.59	0.033	0.35	0.7	<0.01	3.9	0.1	<0.05	5	0.7	<0.2
HA0300	Soil	73	1.14	217	0.142	1	2.02	0.029	0.41	<0.1	<0.01	5.3	0.2	<0.05	6	<0.5	<0.2
HA0350	Soil	65	0.96	191	0.154	<1	1.76	0.022	0.36	0.2	<0.01	4.9	0.2	<0.05	6	<0.5	<0.2
HA0400	Soil	60	0.89	140	0.105	1	1.57	0.025	0.31	0.2	<0.01	4.2	0.1	<0.05	5	<0.5	<0.2
HA0450	Soil	25	0.34	135	0.091	1	0.81	0.020	0.11	<0.1	<0.01	2.3	<0.1	<0.05	4	<0.5	<0.2
HA0500	Soil	86	1.20	275	0.191	<1	2.38	0.026	0.69	0.2	<0.01	6.8	0.2	<0.05	8	<0.5	<0.2
HA0550	Soil	69	1.03	163	0.133	2	1.84	0.021	0.34	0.2	0.01	5.2	0.2	<0.05	5	<0.5	<0.2

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Project: Gladstone 2011
Report Date: September 29, 2011

CERTIFICATE OF ANALYSIS WHI11001178.1

Method		1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
Analyte		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
MDL		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	1
HA0600	Soil	0.6	27.7	4.1	67	0.1	39.8	17.6	435	3.11	5.5	0.9	1.2	20	<0.1	0.3	0.1	83	0.33	0.059	5
HA0650	Soil	1.0	24.3	3.3	38	0.1	14.3	12.8	493	2.43	11.3	<0.5	0.6	24	0.2	0.3	<0.1	62	0.41	0.087	6
HA0700	Soil	0.9	31.5	5.0	81	0.1	53.5	14.8	250	3.62	15.4	4.4	1.2	22	0.1	0.2	0.1	117	0.45	0.084	6
HA0750	Soil	0.4	26.1	3.8	76	0.1	44.9	12.8	226	3.00	4.7	7.9	1.4	21	<0.1	0.2	0.1	84	0.37	0.080	6
HA0800	Soil	0.4	24.2	4.3	73	<0.1	42.2	10.9	197	2.77	1.6	4.3	1.4	26	0.1	0.2	<0.1	86	0.48	0.078	5
HA0850	Soil	0.8	31.8	4.9	65	<0.1	44.3	15.7	278	3.36	12.5	4.8	1.4	19	<0.1	0.2	0.2	98	0.33	0.075	6
HA0900	Soil	0.6	34.8	4.4	66	0.1	45.1	12.3	225	3.08	9.6	2.2	1.7	23	<0.1	0.2	0.1	89	0.44	0.102	6
HA0950	Soil	0.4	22.6	4.9	64	<0.1	42.2	12.1	224	2.87	8.6	3.5	1.4	19	<0.1	0.2	0.1	81	0.36	0.087	6
HA1050	Soil	0.6	20.8	3.0	52	<0.1	26.1	16.5	576	2.66	5.0	2.0	1.0	20	0.1	0.2	<0.1	71	0.41	0.109	6
HA1100	Soil	1.7	38.6	5.2	45	0.3	23.7	35.6	1444	3.00	8.0	2.0	0.6	30	0.1	0.4	0.1	74	0.47	0.080	6
HA1150	Soil	1.5	42.7	3.3	51	0.4	26.6	32.2	1564	2.32	5.0	2.4	0.5	34	0.5	0.4	<0.1	51	0.59	0.128	7
HA1200	Soil	0.9	21.9	3.0	31	0.1	9.3	17.4	598	1.73	2.6	3.4	0.3	19	0.2	0.1	<0.1	53	0.30	0.079	4
HA1250	Soil	0.6	26.8	3.4	71	<0.1	40.3	11.4	235	3.17	5.9	<0.5	1.1	22	<0.1	0.2	0.1	99	0.40	0.046	6
HA	Soil	0.9	28.5	5.0	84	0.1	55.9	16.3	260	3.68	10.8	0.8	1.3	21	<0.1	0.2	0.1	117	0.45	0.086	5
HB0000	Soil	1.6	43.2	5.5	78	0.1	40.5	30.6	1087	3.73	13.1	3.4	0.8	30	0.2	0.4	0.2	105	0.60	0.067	6
HB0050	Soil	0.7	29.6	3.9	82	<0.1	42.9	20.0	405	3.67	10.7	7.9	1.2	24	0.2	0.2	0.2	103	0.47	0.072	5
HB0100	Soil	1.1	27.1	4.1	56	0.1	37.7	14.7	374	3.30	9.6	63.7	1.0	22	<0.1	0.3	0.1	95	0.37	0.044	5
HB0150	Soil	1.1	29.2	5.2	76	<0.1	40.1	20.3	444	3.76	13.6	1.6	0.9	22	0.2	0.3	0.1	109	0.40	0.056	5
HB0200	Soil	2.9	44.0	7.2	67	0.2	33.1	37.4	1712	5.11	42.6	2.5	1.0	28	0.2	0.5	0.2	140	0.49	0.099	7
HB0250	Soil	1.7	74.8	6.1	89	0.7	51.2	30.9	964	3.95	20.0	6.1	1.0	46	0.2	0.5	0.2	102	0.83	0.114	11
HB0350	Soil	2.2	62.2	6.0	60	0.3	39.3	21.8	888	2.65	14.2	5.1	0.4	42	0.2	0.6	0.1	64	0.74	0.110	7
HB0400	Soil	1.1	22.4	5.1	60	<0.1	33.4	14.3	365	2.80	10.6	2.9	0.8	22	0.2	0.2	0.1	85	0.38	0.055	4
HB0500	Soil	3.1	50.5	8.4	62	0.2	30.2	57.8	3055	2.69	7.6	3.0	0.5	32	0.2	0.6	0.2	77	0.48	0.092	8
HB0550	Soil	1.6	33.4	6.7	62	0.1	46.4	31.9	668	3.61	13.7	3.4	1.1	21	<0.1	0.3	0.2	103	0.37	0.057	6
HB0550X	Soil	1.3	34.0	5.6	65	0.1	46.4	32.2	663	3.58	12.0	2.4	1.1	21	<0.1	0.2	0.1	103	0.34	0.062	6
HB0600	Soil	1.2	35.4	4.8	74	0.1	57.6	17.8	379	3.83	8.0	0.9	1.0	26	<0.1	0.3	0.1	149	0.44	0.045	5
HB0650	Soil	0.9	26.7	2.8	66	<0.1	44.8	12.2	269	2.93	7.9	2.1	0.9	21	<0.1	0.2	<0.1	92	0.36	0.042	5
HB0700	Soil	1.1	49.4	4.6	71	0.2	56.4	17.6	359	3.44	12.9	1.9	1.3	20	<0.1	0.3	0.1	107	0.44	0.048	6
HB0750	Soil	1.2	29.3	5.4	68	<0.1	43.5	15.6	420	3.39	12.4	2.8	1.0	22	<0.1	0.3	0.2	104	0.42	0.050	5
HC0000	Soil	0.7	29.0	4.7	72	<0.1	41.3	12.4	237	3.17	17.5	3.5	1.3	20	<0.1	0.3	0.3	102	0.42	0.082	6

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Method		1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
Analyte		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
HA0600	Soil	74	1.05	174	0.136	1	2.05	0.016	0.23	0.1	<0.01	4.9	0.2	<0.05	7	<0.5	<0.2
HA0650	Soil	21	0.29	109	0.085	1	0.69	0.022	0.06	<0.1	0.05	1.8	<0.1	<0.05	3	0.6	<0.2
HA0700	Soil	106	1.28	216	0.175	<1	2.26	0.024	0.40	0.1	<0.01	6.3	0.2	<0.05	8	0.7	<0.2
HA0750	Soil	90	1.17	175	0.150	1	2.19	0.021	0.36	0.1	0.01	5.6	0.2	<0.05	7	<0.5	<0.2
HA0800	Soil	101	1.25	217	0.161	<1	2.35	0.024	0.37	0.2	0.05	6.1	0.2	<0.05	7	<0.5	<0.2
HA0850	Soil	74	1.06	157	0.128	<1	2.04	0.017	0.30	0.2	<0.01	5.1	0.2	<0.05	6	<0.5	<0.2
HA0900	Soil	77	1.08	190	0.131	1	2.14	0.021	0.40	0.1	0.03	5.4	0.2	<0.05	6	<0.5	<0.2
HA0950	Soil	74	1.05	167	0.133	<1	2.03	0.018	0.35	0.2	0.01	4.9	0.2	<0.05	6	0.6	<0.2
HA1050	Soil	43	0.59	124	0.095	<1	1.25	0.017	0.18	0.1	<0.01	3.1	<0.1	<0.05	4	<0.5	<0.2
HA1100	Soil	32	0.44	153	0.066	1	1.05	0.024	0.08	<0.1	0.02	2.7	0.1	<0.05	4	<0.5	<0.2
HA1150	Soil	42	0.56	202	0.046	2	1.33	0.022	0.13	<0.1	0.07	2.8	0.1	0.14	4	1.0	<0.2
HA1200	Soil	13	0.21	76	0.058	<1	0.40	0.024	0.04	<0.1	<0.01	0.9	<0.1	<0.05	2	<0.5	<0.2
HA1250	Soil	86	1.21	245	0.159	<1	2.21	0.018	0.28	0.1	<0.01	6.5	0.2	<0.05	7	<0.5	<0.2
HA	Soil	113	1.36	220	0.193	<1	2.37	0.025	0.43	0.1	<0.01	6.5	0.2	<0.05	7	<0.5	<0.2
HB0000	Soil	68	1.02	264	0.124	1	2.00	0.015	0.27	0.2	0.02	5.3	0.2	0.05	6	<0.5	<0.2
HB0050	Soil	75	1.18	206	0.157	<1	2.14	0.018	0.35	0.2	<0.01	5.9	0.1	<0.05	7	<0.5	<0.2
HB0100	Soil	72	1.04	183	0.135	<1	1.85	0.020	0.26	0.2	0.02	4.9	0.1	<0.05	6	<0.5	<0.2
HB0150	Soil	82	1.11	201	0.146	1	2.09	0.016	0.28	0.2	0.02	5.0	0.1	<0.05	7	<0.5	<0.2
HB0200	Soil	60	0.80	216	0.096	1	1.77	0.014	0.17	0.1	0.03	4.7	0.1	<0.05	6	0.9	<0.2
HB0250	Soil	85	1.05	326	0.090	2	2.17	0.019	0.37	0.1	0.06	5.1	0.2	0.05	6	1.0	<0.2
HB0350	Soil	44	0.64	220	0.042	2	1.30	0.016	0.15	<0.1	0.07	2.4	0.1	0.12	4	1.1	<0.2
HB0400	Soil	75	0.97	191	0.147	1	1.65	0.014	0.28	0.1	0.02	3.7	0.1	<0.05	6	<0.5	<0.2
HB0500	Soil	52	0.62	247	0.070	2	1.22	0.015	0.13	<0.1	0.10	2.6	0.2	0.10	5	<0.5	<0.2
HB0550	Soil	87	1.08	172	0.132	3	1.91	0.016	0.31	0.1	0.03	4.5	0.1	<0.05	6	<0.5	<0.2
HB0550X	Soil	86	1.07	171	0.132	1	2.00	0.016	0.34	<0.1	0.01	4.7	0.1	<0.05	6	1.0	<0.2
HB0600	Soil	144	1.48	191	0.227	1	2.31	0.026	0.29	<0.1	0.02	6.8	0.1	<0.05	9	<0.5	<0.2
HB0650	Soil	97	1.13	186	0.148	<1	1.82	0.017	0.28	0.1	<0.01	5.1	0.1	<0.05	7	<0.5	<0.2
HB0700	Soil	86	1.09	187	0.150	1	1.98	0.019	0.35	0.1	<0.01	5.5	0.1	0.06	6	<0.5	<0.2
HB0750	Soil	77	1.02	137	0.134	<1	1.68	0.016	0.30	0.1	0.03	4.4	0.2	0.07	6	<0.5	<0.2
HC0000	Soil	80	1.14	182	0.186	2	2.12	0.021	0.37	0.3	0.01	5.0	0.2	<0.05	7	<0.5	<0.2

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	Method	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	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	1
HC0050	Soil	0.8	28.9	4.3	71	0.1	37.6	12.3	272	2.95	9.8	3.6	1.2	21	<0.1	0.3	0.1	88	0.39	0.067	6
HC0100	Soil	1.1	31.3	4.7	61	0.1	40.4	14.7	371	2.92	12.8	2.9	1.1	21	<0.1	0.3	0.2	85	0.38	0.089	5
HC0150	Soil	1.2	34.7	5.5	67	0.2	42.4	18.2	382	3.13	12.9	3.7	1.1	22	<0.1	0.3	0.4	92	0.43	0.087	5
HC0200	Soil	1.0	39.3	5.0	59	<0.1	46.2	14.8	350	3.08	13.4	3.9	1.2	23	<0.1	0.3	0.2	88	0.45	0.107	8
HC0250	Soil	0.6	35.2	4.7	67	<0.1	42.0	11.6	220	2.77	7.5	5.4	1.4	21	<0.1	0.4	0.2	88	0.44	0.081	7
HC0300	Soil	0.7	36.1	3.9	66	<0.1	48.3	13.8	250	3.30	14.7	3.2	1.4	19	<0.1	0.3	0.2	100	0.41	0.080	6
HC0350	Soil	0.8	36.8	4.5	62	0.1	46.8	15.7	280	3.41	14.4	11.5	1.5	18	<0.1	0.3	0.2	97	0.33	0.072	6
HC0400	Soil	0.8	25.7	4.2	58	0.1	39.3	11.9	277	3.05	9.9	4.8	1.4	21	<0.1	0.3	0.2	92	0.48	0.097	6
HC0450	Soil	0.7	35.6	5.0	72	<0.1	47.0	16.4	376	3.45	12.0	3.6	1.6	25	<0.1	0.3	0.2	95	0.56	0.095	8
HC0500	Soil	0.6	40.5	4.8	67	<0.1	43.3	14.4	345	3.21	9.5	4.1	1.7	22	0.1	0.3	0.1	92	0.45	0.112	8
HC0550	Soil	0.6	36.8	4.0	73	<0.1	46.6	14.8	316	3.31	8.7	5.9	1.7	25	<0.1	0.2	0.1	95	0.56	0.099	6
HC0600	Soil	0.6	24.3	5.0	78	<0.1	35.8	11.0	237	2.83	4.0	2.7	1.5	22	0.1	0.3	0.1	80	0.42	0.095	7
HC0650	Soil	0.5	30.3	3.8	66	<0.1	42.7	12.8	303	2.96	5.1	4.3	1.5	22	<0.1	0.2	0.1	91	0.44	0.094	6
HC0700	Soil	0.6	30.8	5.2	71	<0.1	43.8	18.5	472	3.71	10.7	2.0	1.3	23	<0.1	0.2	0.1	108	0.47	0.092	6
HC0750	Soil	0.4	32.8	5.3	81	<0.1	42.3	13.5	261	3.44	11.5	2.8	1.6	22	0.1	0.2	0.1	107	0.44	0.107	7
HC0800	Soil	0.7	25.8	4.6	60	<0.1	36.5	11.1	236	3.05	5.8	1.9	1.3	23	0.1	0.2	0.1	91	0.47	0.092	6
HC0850	Soil	0.8	35.7	4.7	65	<0.1	43.6	15.0	370	3.35	9.5	2.3	1.4	31	<0.1	0.2	0.1	96	0.65	0.080	6
HC0900	Soil	0.7	37.1	6.1	78	0.1	45.4	13.4	281	3.34	8.5	6.1	1.6	25	<0.1	0.3	0.1	95	0.51	0.076	6
HC0950	Soil	0.7	38.3	6.1	94	0.1	45.8	12.4	257	3.29	12.7	3.6	1.6	27	0.2	0.3	0.3	111	0.54	0.100	7
HC1000	Soil	0.7	52.0	5.0	69	0.1	49.9	15.2	405	3.57	10.4	5.3	1.9	22	<0.1	0.2	0.2	91	0.42	0.098	8
HC1050	Soil	0.5	49.5	4.0	67	0.2	43.1	13.7	278	2.90	6.1	4.5	1.9	22	<0.1	0.2	0.1	77	0.43	0.116	8
HD0050	Soil	0.9	47.8	5.4	80	0.1	47.7	16.0	380	3.51	13.6	4.0	1.6	24	0.1	0.4	0.1	112	0.43	0.106	7
HD0100	Soil	1.3	33.1	4.5	62	0.1	32.4	10.8	234	2.84	10.6	3.1	0.9	22	0.2	0.5	0.1	89	0.31	0.052	5
HD0150	Soil	0.9	50.4	4.7	84	<0.1	53.0	18.9	367	3.75	14.8	3.3	1.5	24	<0.1	0.4	0.1	127	0.35	0.072	7
HD0200	Soil	1.9	57.7	4.4	62	0.3	31.5	10.7	363	2.23	8.0	4.4	0.3	48	0.3	0.6	0.2	56	0.68	0.169	9
HD0250	Soil	0.9	35.6	5.5	74	<0.1	42.4	14.1	338	3.19	11.8	3.7	0.9	27	<0.1	0.7	0.1	102	0.41	0.065	5
HD0300	Soil	2.5	34.3	5.3	37	0.3	14.3	21.0	1562	2.99	18.4	3.6	0.3	25	0.2	0.4	0.1	80	0.38	0.114	6
HD0350	Soil	1.0	30.5	6.0	73	0.2	43.2	16.1	270	3.40	17.1	6.9	1.4	21	<0.1	1.0	0.1	92	0.36	0.076	6
HD0400	Soil	1.3	38.3	4.7	61	0.1	45.4	20.3	695	2.84	7.6	2.2	0.6	29	<0.1	0.4	0.1	96	0.44	0.093	5
HD0450	Soil	1.6	49.6	6.6	86	0.2	74.0	22.9	450	3.76	7.2	2.0	0.9	27	<0.1	0.7	0.1	129	0.44	0.089	6

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CERTIFICATE OF ANALYSIS WHI11001178.1

	Method	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
HC0050	Soil	68	1.03	175	0.147	<1	1.93	0.017	0.29	0.2	0.03	4.7	0.2	<0.05	6	<0.5	<0.2
HC0100	Soil	66	0.91	152	0.122	<1	1.77	0.017	0.26	0.2	0.02	4.5	0.2	<0.05	6	<0.5	<0.2
HC0150	Soil	75	1.00	136	0.126	2	1.94	0.019	0.25	0.2	0.03	4.5	0.2	<0.05	7	<0.5	<0.2
HC0200	Soil	70	1.01	182	0.131	2	1.84	0.022	0.29	0.2	0.02	4.6	0.2	<0.05	7	<0.5	<0.2
HC0250	Soil	78	1.13	190	0.155	2	2.13	0.019	0.35	0.2	0.04	5.5	0.2	0.10	7	<0.5	<0.2
HC0300	Soil	87	1.17	166	0.177	1	2.18	0.022	0.37	0.4	0.03	5.6	0.2	<0.05	7	<0.5	<0.2
HC0350	Soil	78	1.13	168	0.169	1	2.28	0.024	0.32	0.3	0.03	5.5	0.2	<0.05	7	<0.5	<0.2
HC0400	Soil	77	1.15	190	0.174	1	2.12	0.019	0.42	0.2	0.05	5.3	0.2	0.14	8	<0.5	<0.2
HC0450	Soil	79	1.16	197	0.158	1	2.20	0.021	0.34	0.1	0.03	5.9	0.2	<0.05	7	<0.5	<0.2
HC0500	Soil	76	1.09	178	0.139	1	2.14	0.019	0.32	0.1	0.03	5.9	0.2	<0.05	7	<0.5	<0.2
HC0550	Soil	79	1.17	166	0.150	2	2.03	0.026	0.35	0.2	0.02	5.7	0.2	<0.05	7	<0.5	<0.2
HC0600	Soil	70	1.11	166	0.146	1	2.14	0.018	0.20	<0.1	0.05	4.9	0.2	0.15	7	<0.5	<0.2
HC0650	Soil	79	1.16	145	0.155	<1	2.09	0.022	0.32	0.2	0.01	5.5	0.2	<0.05	7	<0.5	<0.2
HC0700	Soil	82	1.24	178	0.173	1	2.26	0.021	0.32	0.1	0.02	5.9	0.2	<0.05	8	<0.5	<0.2
HC0750	Soil	80	1.18	176	0.177	<1	2.37	0.019	0.27	0.2	0.03	5.9	0.2	<0.05	8	<0.5	<0.2
HC0800	Soil	75	1.12	170	0.155	1	2.05	0.023	0.27	<0.1	0.02	5.3	0.2	<0.05	8	<0.5	<0.2
HC0850	Soil	74	1.14	178	0.141	1	2.10	0.024	0.27	0.2	0.02	5.7	0.2	0.09	7	<0.5	<0.2
HC0900	Soil	78	1.21	166	0.153	1	2.26	0.021	0.33	<0.1	0.04	5.9	0.2	0.07	7	<0.5	<0.2
HC0950	Soil	83	1.21	219	0.159	1	2.40	0.022	0.32	0.2	0.05	6.6	0.3	<0.05	8	0.6	<0.2
HC1000	Soil	72	1.15	147	0.143	1	2.27	0.019	0.28	0.1	0.02	5.4	0.2	<0.05	7	<0.5	<0.2
HC1050	Soil	66	1.01	133	0.132	<1	1.99	0.019	0.26	0.1	0.03	5.0	0.2	<0.05	6	<0.5	<0.2
HD0050	Soil	85	1.15	207	0.204	<1	2.40	0.028	0.48	0.2	0.02	6.5	0.2	<0.05	8	<0.5	<0.2
HD0100	Soil	57	0.74	138	0.138	<1	1.51	0.024	0.22	0.2	0.02	3.8	0.1	<0.05	6	<0.5	<0.2
HD0150	Soil	103	1.31	221	0.240	<1	2.55	0.028	0.58	0.2	0.02	7.5	0.2	<0.05	9	<0.5	<0.2
HD0200	Soil	45	0.59	253	0.047	2	1.46	0.021	0.12	0.1	0.10	2.0	0.1	0.23	4	0.8	<0.2
HD0250	Soil	90	1.06	205	0.172	1	1.95	0.026	0.36	0.2	0.03	5.8	0.2	<0.05	7	<0.5	<0.2
HD0300	Soil	23	0.23	134	0.053	<1	0.78	0.017	0.04	0.1	0.11	1.5	0.1	0.23	4	0.6	<0.2
HD0350	Soil	86	1.12	195	0.169	1	2.11	0.016	0.25	0.1	0.05	5.0	0.2	<0.05	7	<0.5	<0.2
HD0400	Soil	89	0.84	194	0.133	<1	1.53	0.023	0.26	0.1	0.05	3.8	0.2	0.16	6	<0.5	<0.2
HD0450	Soil	150	1.38	234	0.186	1	2.63	0.023	0.40	0.1	0.05	7.3	0.2	0.07	9	<0.5	<0.2

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	Method	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	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	1
HD0500	Soil	0.7	37.6	4.9	88	0.1	57.1	18.5	339	3.68	7.7	2.0	1.4	29	0.1	0.3	<0.1	118	0.47	0.086	6
HD0550	Soil	2.3	49.3	7.5	64	0.2	39.5	18.0	605	2.92	8.7	2.9	0.5	39	0.2	0.6	0.1	87	0.52	0.105	7
HD0600	Soil	1.1	37.7	5.5	82	0.2	46.3	17.2	418	3.80	37.0	8.2	1.2	26	<0.1	1.2	0.1	105	0.44	0.082	8
HD0650	Soil	0.9	40.2	5.7	81	0.1	55.3	17.0	262	3.86	24.4	9.7	1.3	20	<0.1	2.0	0.1	107	0.35	0.073	7
HD0700	Soil	1.8	50.8	4.0	51	0.2	26.6	11.5	796	1.80	5.4	3.3	0.2	50	0.2	0.7	0.1	38	0.80	0.174	9
HD0750	Soil	0.7	35.4	3.8	70	<0.1	61.6	16.2	309	3.17	7.2	14.8	1.1	26	<0.1	0.3	<0.1	113	0.40	0.050	5
HE0000	Soil	1.0	30.9	4.7	72	0.1	34.8	20.5	714	2.93	8.8	3.0	1.2	20	<0.1	0.3	<0.1	89	0.30	0.078	7
HE0050	Soil	0.7	41.6	6.4	76	0.1	43.8	13.9	242	2.93	14.9	16.4	1.5	19	<0.1	0.6	0.1	106	0.30	0.074	7
HE0100	Soil	0.6	38.3	4.4	73	0.1	38.8	15.1	263	3.07	13.0	2.7	1.6	18	0.1	0.4	0.1	92	0.39	0.102	7
HE0150	Soil	0.8	48.0	5.8	91	0.1	49.2	21.1	542	3.78	15.4	2.3	1.6	22	<0.1	0.4	0.1	116	0.36	0.088	6
HE0200	Soil	0.7	42.8	3.7	90	<0.1	41.9	18.5	412	3.02	9.1	0.9	1.2	26	0.2	0.4	0.1	104	0.50	0.105	6
HE0250	Soil	0.7	58.0	4.9	91	<0.1	50.5	20.8	306	3.96	9.7	2.9	1.6	22	<0.1	0.5	0.1	141	0.47	0.111	6
HE0300	Soil	0.7	48.9	4.1	87	0.1	54.8	19.8	258	3.90	6.8	1.6	1.5	22	<0.1	0.4	0.1	136	0.41	0.092	7
HE0350	Soil	0.9	65.9	4.2	117	0.1	46.1	22.4	440	4.66	14.6	2.9	1.8	24	0.1	0.4	0.1	145	0.39	0.084	9
HE0400	Soil	0.9	55.5	3.9	95	<0.1	49.1	18.8	315	4.13	11.5	1.4	1.7	28	<0.1	0.3	0.1	153	0.39	0.067	8
HE0450	Soil	1.1	50.1	4.2	90	0.1	43.7	25.5	657	4.60	15.5	5.7	1.8	24	<0.1	0.6	0.1	129	0.40	0.077	9
HE0500	Soil	1.3	62.4	5.3	109	0.2	56.3	20.9	379	4.67	22.5	2.7	1.2	36	0.1	0.7	0.1	158	0.54	0.065	6
HE0550	Soil	1.3	48.7	6.0	104	0.2	56.5	20.1	405	4.49	39.2	11.8	1.2	25	<0.1	1.4	0.2	153	0.38	0.056	6
HE0600	Soil	1.7	49.9	7.2	109	0.3	52.8	20.8	635	4.39	64.8	10.7	1.1	35	<0.1	1.8	0.2	119	0.50	0.090	8
HE0650	Soil	1.3	47.1	7.3	91	0.2	52.3	18.4	459	4.11	27.1	7.6	1.3	25	0.1	0.8	0.1	123	0.40	0.081	6
HE0700	Soil	1.5	43.2	6.8	101	0.3	51.3	23.7	595	4.41	33.6	9.9	1.4	26	<0.1	1.0	0.1	128	0.45	0.088	7
HE0800	Soil	1.2	43.1	6.7	93	0.1	59.8	20.3	444	4.04	20.5	11.8	1.3	26	0.2	8.4	0.1	122	0.43	0.073	6
HE0850	Soil	1.6	47.7	5.5	72	<0.1	43.0	16.2	411	3.27	9.7	1.0	1.0	23	0.1	0.6	0.1	94	0.38	0.067	6
HE0900	Soil	1.4	55.0	5.3	68	0.1	45.6	16.7	412	3.43	9.6	<0.5	1.2	21	<0.1	0.4	0.1	92	0.33	0.056	7
HE0950	Soil	1.1	56.1	4.0	98	<0.1	58.3	21.1	449	3.87	13.2	4.1	1.4	27	0.1	0.4	0.1	123	0.53	0.096	5
HE1000	Soil	1.0	49.6	2.7	64	<0.1	36.7	16.4	387	3.66	9.1	1.6	1.5	22	<0.1	0.2	<0.1	106	0.43	0.070	7
HE1050	Soil	1.6	38.5	5.7	70	<0.1	32.4	16.0	431	3.83	8.8	1.9	1.4	24	<0.1	0.5	0.1	93	0.29	0.048	8
HE1100	Soil	1.5	51.1	4.9	77	<0.1	37.4	18.0	514	4.23	7.1	4.8	1.8	24	<0.1	0.4	0.1	111	0.29	0.046	9
HE1150	Soil	1.4	67.5	4.1	94	0.1	49.6	23.6	615	4.94	8.5	<0.5	1.7	35	<0.1	0.3	<0.1	144	0.60	0.065	8
HE1200	Soil	1.9	51.3	6.5	95	0.1	30.0	22.8	720	4.73	6.7	2.7	1.6	35	0.2	0.4	0.1	132	0.64	0.081	8

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	Method	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
HD0500	Soil	108	1.31	251	0.219	<1	2.64	0.034	0.58	0.1	0.04	7.8	0.3	<0.05	9	<0.5	<0.2
HD0550	Soil	76	0.75	227	0.094	1	1.70	0.024	0.17	<0.1	0.07	3.7	0.1	0.16	7	0.6	<0.2
HD0600	Soil	91	1.20	238	0.160	1	2.34	0.019	0.29	0.2	0.05	6.2	0.2	<0.05	8	<0.5	<0.2
HD0650	Soil	111	1.32	212	0.194	1	2.47	0.019	0.38	0.2	0.04	6.5	0.2	0.06	8	<0.5	<0.2
HD0700	Soil	30	0.47	267	0.033	2	1.06	0.022	0.07	<0.1	0.13	1.2	0.1	0.38	3	0.7	<0.2
HD0750	Soil	135	1.31	222	0.221	<1	2.06	0.036	0.49	0.1	0.02	6.4	0.2	<0.05	8	<0.5	<0.2
HE0000	Soil	73	0.95	191	0.153	<1	2.04	0.021	0.32	0.2	0.01	4.6	0.2	<0.05	7	<0.5	<0.2
HE0050	Soil	88	1.16	187	0.184	<1	2.50	0.022	0.37	0.3	0.04	6.1	0.2	0.06	8	<0.5	<0.2
HE0100	Soil	72	0.97	169	0.164	3	2.05	0.021	0.41	0.2	<0.01	5.3	0.2	<0.05	7	<0.5	<0.2
HE0150	Soil	87	1.18	237	0.170	2	2.78	0.025	0.43	0.4	0.02	6.6	0.2	<0.05	8	<0.5	<0.2
HE0200	Soil	75	0.98	240	0.159	2	2.10	0.027	0.48	0.1	0.04	6.2	0.2	<0.05	7	<0.5	<0.2
HE0250	Soil	106	1.28	281	0.242	2	2.63	0.025	0.66	0.2	0.01	7.8	0.2	<0.05	9	<0.5	<0.2
HE0300	Soil	115	1.49	268	0.257	2	2.84	0.025	0.66	0.1	0.03	6.6	0.2	<0.05	10	<0.5	<0.2
HE0350	Soil	98	1.48	278	0.277	2	2.66	0.025	0.76	0.1	0.02	7.4	0.2	<0.05	10	<0.5	<0.2
HE0400	Soil	106	1.46	259	0.271	2	2.68	0.034	0.64	0.1	0.03	7.7	0.2	<0.05	9	0.5	<0.2
HE0450	Soil	92	1.39	273	0.249	2	2.60	0.025	0.65	0.1	0.03	6.9	0.2	<0.05	9	<0.5	<0.2
HE0500	Soil	111	1.49	373	0.232	2	2.76	0.037	0.65	<0.1	0.02	8.4	0.2	<0.05	10	0.8	<0.2
HE0550	Soil	114	1.43	354	0.226	2	2.76	0.024	0.52	<0.1	0.04	7.8	0.2	<0.05	10	0.6	<0.2
HE0600	Soil	98	1.22	303	0.134	2	2.73	0.021	0.30	0.1	0.04	6.0	0.1	<0.05	9	<0.5	<0.2
HE0650	Soil	91	1.18	313	0.209	2	2.51	0.026	0.53	0.1	0.04	6.3	0.2	<0.05	9	<0.5	<0.2
HE0700	Soil	99	1.19	320	0.197	2	2.66	0.028	0.51	<0.1	0.05	6.7	0.2	<0.05	9	0.9	<0.2
HE0800	Soil	112	1.23	233	0.199	2	2.48	0.028	0.41	0.2	0.03	6.2	0.2	<0.05	8	<0.5	<0.2
HE0850	Soil	72	0.94	175	0.172	2	1.70	0.019	0.28	0.2	0.03	3.5	0.1	<0.05	7	<0.5	<0.2
HE0900	Soil	70	1.05	223	0.199	2	1.91	0.018	0.32	<0.1	0.02	3.6	0.1	<0.05	7	<0.5	<0.2
HE0950	Soil	107	1.38	289	0.263	2	2.37	0.028	0.49	<0.1	<0.01	5.5	0.2	<0.05	8	<0.5	<0.2
HE1000	Soil	66	1.12	288	0.279	2	2.21	0.024	0.68	<0.1	0.01	4.0	0.2	<0.05	7	<0.5	<0.2
HE1050	Soil	55	1.01	173	0.182	2	2.06	0.016	0.33	<0.1	0.02	3.3	0.1	<0.05	7	<0.5	<0.2
HE1100	Soil	56	1.12	278	0.236	1	2.14	0.016	0.43	<0.1	0.03	3.8	0.2	<0.05	8	0.9	<0.2
HE1150	Soil	82	1.46	331	0.302	2	2.68	0.025	0.67	0.1	0.02	6.2	0.2	<0.05	9	<0.5	<0.2
HE1200	Soil	52	1.24	254	0.250	3	2.55	0.017	0.45	<0.1	0.03	5.4	0.1	<0.05	9	0.9	<0.2

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Project: Gladstone 2011
Report Date: September 29, 2011

CERTIFICATE OF ANALYSIS WHI11001178.1

Method		1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
Analyte		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
MDL		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	1
HE LINE	Soil	1.3	48.5	6.4	90	0.2	55.2	19.3	442	4.31	26.6	3.7	1.4	24	0.1	0.9	0.1	122	0.42	0.083	6
AA0000	Soil	1.1	39.0	8.6	110	0.2	49.0	18.0	559	4.14	24.3	4.9	3.2	22	<0.1	0.4	0.2	71	0.29	0.089	11
AA0050	Soil	0.8	29.6	5.8	99	0.1	41.8	12.9	369	3.58	13.2	6.0	3.0	20	<0.1	0.4	0.2	63	0.25	0.088	10
AA0100	Soil	0.4	27.6	5.9	98	0.2	45.1	13.1	354	3.47	8.0	8.1	3.9	18	<0.1	0.4	0.2	59	0.26	0.074	10
AA0150	Soil	1.6	62.4	7.3	95	0.5	41.7	34.1	946	3.21	14.6	8.7	2.3	27	0.4	0.6	0.2	57	0.33	0.133	16
AA0200	Soil	0.7	36.7	6.2	109	0.2	54.1	16.3	408	4.19	21.8	8.0	4.1	20	0.1	0.5	0.2	72	0.28	0.088	12
AA0250	Soil	1.0	38.6	5.6	90	0.3	48.6	16.3	475	3.71	27.9	8.9	2.9	20	<0.1	0.5	0.2	68	0.29	0.091	11
AA0300	Soil	1.0	53.4	5.7	109	0.1	58.1	19.3	574	4.29	36.0	8.1	4.0	20	<0.1	0.6	0.2	79	0.26	0.097	12
AA0350	Soil	0.9	37.8	4.9	104	0.2	54.5	17.0	417	3.99	28.0	20.1	3.0	19	<0.1	0.5	0.2	73	0.25	0.076	11
AA0400	Soil	0.7	47.5	3.7	91	0.2	52.8	15.6	364	3.50	18.3	18.5	3.1	18	<0.1	0.4	0.2	66	0.24	0.077	10
AA0450	Soil	1.6	70.5	6.1	113	0.3	60.2	30.5	798	4.31	30.7	5.7	2.9	26	<0.1	0.5	0.2	82	0.32	0.107	16
AA0500	Soil	0.8	41.9	4.3	96	0.2	54.3	16.5	484	3.89	27.8	15.5	3.0	20	<0.1	0.4	0.2	67	0.29	0.095	10
AA0550	Soil	1.0	49.2	5.0	95	0.4	54.5	17.5	427	3.93	41.7	16.7	3.3	18	<0.1	0.4	0.2	68	0.24	0.089	13
AA0600	Soil	1.2	51.6	6.9	99	0.4	55.5	19.5	456	4.45	25.4	5.2	3.4	23	<0.1	0.3	0.2	79	0.31	0.085	12
AA0650	Soil	1.0	58.9	4.6	88	0.2	58.2	18.8	539	3.95	48.0	11.5	2.3	21	<0.1	0.5	0.2	74	0.30	0.107	10
AA0700	Soil	0.7	57.8	4.9	90	0.2	85.0	19.1	516	4.09	66.1	22.8	2.6	19	<0.1	0.6	0.2	76	0.29	0.085	7
AA0750	Soil	0.8	53.3	3.9	88	0.2	54.5	15.4	439	3.77	27.5	9.1	2.7	19	<0.1	0.3	0.2	66	0.31	0.092	8
AB0000	Soil	1.1	50.2	4.8	87	0.2	48.3	16.7	533	3.62	20.6	11.1	2.1	25	0.1	0.3	0.2	61	0.38	0.118	9
AB0050	Soil	1.3	45.7	4.8	91	0.3	48.9	16.8	603	3.65	22.0	5.4	1.7	29	<0.1	0.3	0.2	65	0.39	0.109	10
AB0100	Soil	2.4	74.8	10.1	99	0.4	54.2	17.8	674	4.55	37.8	8.4	3.0	27	<0.1	0.5	0.3	83	0.32	0.072	13
AB0150	Soil	1.2	63.2	5.5	98	0.3	57.6	19.8	605	4.18	25.8	4.6	2.2	24	0.1	0.4	0.2	73	0.30	0.096	11
AB0200	Soil	1.5	62.6	7.0	91	0.4	59.2	21.7	695	4.14	29.4	6.8	2.0	27	<0.1	0.4	0.2	75	0.33	0.097	12
AB0250	Soil	1.4	65.6	5.9	101	0.4	58.9	20.6	552	4.26	27.0	7.6	3.0	22	0.1	0.4	0.3	75	0.26	0.105	17
AB0300	Soil	1.1	51.2	5.0	89	0.2	52.0	18.5	550	3.71	15.5	4.4	2.1	26	<0.1	0.3	0.2	65	0.36	0.097	9
AB0400	Soil	1.2	61.0	5.6	91	0.2	55.7	19.3	522	3.99	44.1	6.5	3.0	19	<0.1	0.3	0.2	71	0.24	0.073	10
AB0450	Soil	1.6	63.0	7.7	95	0.3	57.4	21.7	609	4.25	37.9	6.5	2.2	25	<0.1	0.5	0.2	79	0.28	0.085	14
AB0500	Soil	1.4	72.1	6.6	93	0.3	66.1	17.5	526	4.16	57.9	244.9	3.0	24	<0.1	0.5	0.2	71	0.32	0.081	17
AB0600	Soil	1.8	100.9	8.2	94	0.5	67.8	24.4	768	4.18	24.0	7.3	1.9	35	0.2	0.4	0.3	77	0.46	0.075	24
AB0700	Soil	1.6	83.7	7.5	93	0.5	58.8	21.6	671	3.77	22.3	4.3	1.4	34	0.2	0.5	0.2	71	0.46	0.066	13
AB0750	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.

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	Method	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
HE LINE	Soil	95	1.20	325	0.224	1	2.53	0.028	0.56	0.1	0.02	6.5	0.2	<0.05	8	<0.5	<0.2
AA0000	Soil	61	1.08	83	0.051	1	2.33	0.008	0.12	<0.1	0.03	3.8	0.1	<0.05	7	<0.5	<0.2
AA0050	Soil	58	1.02	76	0.045	<1	2.17	0.007	0.10	<0.1	0.02	3.3	0.1	<0.05	7	0.6	<0.2
AA0100	Soil	61	1.05	71	0.054	1	2.15	0.007	0.12	<0.1	0.02	3.4	0.2	<0.05	6	<0.5	<0.2
AA0150	Soil	51	0.73	118	0.038	2	1.76	0.013	0.07	<0.1	0.07	4.4	0.1	<0.05	6	0.5	<0.2
AA0200	Soil	77	1.15	79	0.064	1	2.39	0.007	0.17	<0.1	0.02	4.2	0.2	<0.05	7	<0.5	<0.2
AA0250	Soil	67	0.97	79	0.055	1	2.04	0.010	0.12	<0.1	0.04	3.7	0.1	<0.05	6	0.8	<0.2
AA0300	Soil	76	1.19	88	0.072	<1	2.33	0.007	0.20	<0.1	0.02	4.7	0.2	<0.05	7	<0.5	<0.2
AA0350	Soil	85	1.18	79	0.066	<1	2.30	0.007	0.15	<0.1	0.03	4.1	0.2	<0.05	7	<0.5	<0.2
AA0400	Soil	88	1.10	72	0.062	1	2.14	0.006	0.14	<0.1	0.02	4.0	0.2	<0.05	6	<0.5	<0.2
AA0450	Soil	69	1.03	113	0.073	2	2.26	0.010	0.16	<0.1	0.05	4.7	0.2	<0.05	7	1.4	<0.2
AA0500	Soil	84	1.14	70	0.054	<1	2.10	0.007	0.12	<0.1	0.03	4.0	0.1	<0.05	7	<0.5	<0.2
AA0550	Soil	91	1.13	70	0.048	<1	2.36	0.010	0.10	<0.1	0.03	4.3	0.1	<0.05	6	<0.5	<0.2
AA0600	Soil	66	1.18	100	0.069	2	2.60	0.009	0.18	<0.1	0.03	4.6	0.2	<0.05	8	<0.5	<0.2
AA0650	Soil	99	1.23	77	0.054	<1	2.15	0.007	0.19	<0.1	0.02	5.1	0.2	<0.05	6	<0.5	<0.2
AA0700	Soil	160	1.38	78	0.053	<1	2.22	0.008	0.19	<0.1	<0.01	5.8	0.2	<0.05	7	<0.5	<0.2
AA0750	Soil	79	1.14	77	0.057	<1	2.12	0.007	0.18	0.4	0.01	4.4	0.2	<0.05	7	<0.5	<0.2
AB0000	Soil	52	0.96	81	0.049	<1	1.94	0.007	0.25	<0.1	0.02	3.5	0.2	<0.05	6	<0.5	<0.2
AB0050	Soil	54	0.95	101	0.056	1	1.99	0.009	0.20	<0.1	0.02	3.7	0.2	<0.05	6	<0.5	<0.2
AB0100	Soil	62	1.08	103	0.056	<1	2.35	0.011	0.17	0.1	0.03	4.4	0.2	<0.05	7	<0.5	<0.2
AB0150	Soil	58	1.09	93	0.054	<1	2.27	0.009	0.21	<0.1	0.03	4.4	0.2	<0.05	7	<0.5	<0.2
AB0200	Soil	56	1.01	103	0.053	<1	2.23	0.011	0.20	<0.1	0.04	4.3	0.2	<0.05	7	<0.5	<0.2
AB0250	Soil	61	1.13	93	0.058	<1	2.38	0.007	0.23	<0.1	0.03	5.0	0.2	<0.05	7	0.7	<0.2
AB0300	Soil	54	1.05	92	0.053	<1	2.07	0.011	0.21	0.1	0.01	3.9	0.2	<0.05	7	<0.5	<0.2
AB0400	Soil	58	1.03	78	0.060	<1	2.18	0.008	0.22	<0.1	0.02	4.7	0.2	<0.05	6	<0.5	<0.2
AB0450	Soil	60	1.01	107	0.070	<1	2.23	0.012	0.25	<0.1	<0.01	4.5	0.2	<0.05	7	<0.5	<0.2
AB0500	Soil	57	1.00	76	0.059	<1	2.14	0.008	0.23	<0.1	0.01	4.7	0.2	<0.05	7	<0.5	<0.2
AB0600	Soil	59	1.00	134	0.057	1	2.22	0.012	0.21	<0.1	0.02	4.2	0.2	<0.05	7	<0.5	<0.2
AB0700	Soil	50	0.86	122	0.053	1	1.92	0.014	0.19	0.1	0.03	3.6	0.2	<0.05	7	0.8	<0.2
AB0750	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.

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	Method	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	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	1
AB0850	Soil	2.1	107.6	8.3	118	0.3	82.1	25.2	634	4.71	24.5	8.3	2.2	34	<0.1	0.5	0.2	86	0.43	0.103	14
AB0900	Soil	1.2	63.4	7.0	90	0.2	60.0	21.0	502	4.08	19.3	6.2	2.9	22	<0.1	0.3	0.2	70	0.27	0.074	12
AB0950	Soil	1.3	69.8	5.5	92	0.3	66.4	20.9	476	3.99	13.9	3.2	2.8	24	<0.1	0.2	0.2	67	0.32	0.094	12
AC0000	Soil	2.3	99.1	9.4	105	0.4	63.6	23.5	718	4.05	18.9	5.3	1.4	31	0.3	0.4	0.3	77	0.40	0.082	15
AC0050	Soil	2.0	98.0	7.2	118	0.3	79.6	27.2	705	4.76	24.4	4.6	2.6	28	0.1	0.4	0.3	85	0.33	0.101	12
AC0100	Soil	1.6	74.1	9.2	112	0.3	73.0	20.4	640	4.59	43.2	8.5	3.5	23	<0.1	0.4	0.2	71	0.29	0.094	14
AC0150	Soil	1.4	76.1	5.5	99	0.2	71.4	22.0	565	4.10	14.3	3.7	2.8	24	<0.1	0.3	0.2	62	0.32	0.110	12
AC0200	Soil	1.4	60.7	6.8	84	0.2	74.8	19.7	572	3.92	29.1	5.7	1.3	29	<0.1	0.5	0.2	78	0.35	0.059	8
AC0250	Soil	1.3	67.8	6.4	93	0.2	66.6	21.4	667	4.19	22.2	5.4	1.8	25	0.3	0.4	0.2	78	0.31	0.077	8
AC0300	Soil	1.5	62.6	7.7	89	0.2	66.0	22.7	689	4.28	20.7	3.8	2.1	25	<0.1	0.4	0.2	80	0.28	0.075	9
AC0350	Soil	1.3	65.7	5.8	97	0.2	68.1	20.7	563	4.22	22.0	2.3	1.7	25	0.1	0.3	0.2	79	0.31	0.076	8
AC0400	Soil	1.1	51.5	5.1	79	0.2	71.6	19.0	540	3.70	17.6	2.7	1.3	26	<0.1	0.3	0.2	74	0.33	0.088	7
AC0450	Soil	0.9	54.1	4.9	71	0.2	56.2	17.5	480	3.69	15.9	2.1	1.4	27	<0.1	0.2	0.2	72	0.38	0.090	7
AC0500	Soil	0.9	56.2	6.0	74	0.3	59.0	17.2	526	3.80	16.5	3.9	0.9	25	<0.1	0.3	0.2	76	0.31	0.087	8
AC0550	Soil	1.1	62.6	5.4	75	0.2	61.5	18.7	525	3.89	18.3	4.7	1.5	22	<0.1	0.3	0.2	73	0.27	0.086	7
AC0650	Soil	1.9	65.5	11.1	100	0.3	71.0	23.6	770	4.43	20.6	3.3	1.9	24	<0.1	0.3	0.2	80	0.29	0.065	9
AC0700	Soil	2.1	79.5	8.7	107	0.4	82.5	23.3	644	4.78	29.9	3.6	1.2	37	0.2	0.6	0.3	87	0.45	0.061	9
AC0750	Soil	1.2	66.4	8.2	80	0.2	60.0	21.6	619	4.06	20.2	3.8	1.7	24	<0.1	0.3	0.2	77	0.34	0.080	8
AC0800	Soil	1.3	72.5	8.4	107	0.2	72.4	25.4	761	4.64	45.1	10.1	1.5	26	<0.1	0.6	0.2	82	0.31	0.074	11
AC0850	Soil	2.3	70.9	11.5	97	0.5	56.1	21.3	714	4.42	30.0	8.1	1.1	22	0.1	0.6	0.2	79	0.26	0.057	11
AC0900	Soil	2.1	78.1	11.9	111	0.8	64.7	34.1	1388	4.27	25.2	6.4	0.8	29	0.4	0.7	0.3	76	0.39	0.073	12
AC0950	Soil	3.0	72.0	13.3	95	1.0	73.2	26.9	614	4.87	36.1	9.7	1.7	23	0.3	1.0	0.3	83	0.29	0.050	9
AD0000	Soil	1.7	42.1	10.4	104	0.2	71.2	20.7	567	4.58	164.6	89.4	1.8	26	0.1	0.9	0.3	76	0.30	0.061	9
AD0050	Soil	0.9	56.2	7.4	84	0.2	161.9	22.7	524	4.21	54.8	10.8	1.8	26	<0.1	1.2	0.2	86	0.39	0.073	8
AD0100	Soil	1.4	51.0	7.6	72	0.2	71.2	18.8	433	4.06	22.5	5.0	1.4	18	0.1	0.8	0.2	83	0.25	0.068	6
AD0150	Soil	0.8	62.1	6.6	75	0.3	73.8	18.2	545	4.01	25.7	8.3	1.8	22	<0.1	0.4	0.2	81	0.32	0.063	8
AD0200	Soil	1.5	96.6	5.6	64	0.3	112.4	26.9	547	4.77	17.7	6.7	1.5	28	0.1	0.4	0.2	118	0.40	0.072	7
AD0250	Soil	1.3	58.3	8.6	73	0.3	83.2	18.5	498	4.39	21.7	5.6	0.8	23	<0.1	0.6	0.2	91	0.33	0.047	7
AD0300	Soil	1.5	62.3	7.0	75	0.2	71.1	21.2	516	4.44	19.5	5.6	1.8	23	<0.1	0.5	0.2	94	0.29	0.071	8
AD0350	Soil	2.1	52.0	8.3	74	0.2	64.9	18.3	449	4.17	21.2	5.7	0.7	20	0.2	0.7	0.2	81	0.25	0.039	8

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Project: Gladstone 2011
Report Date: September 29, 2011

CERTIFICATE OF ANALYSIS WHI11001178.1

	Method	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
AB0850	Soil	70	1.15	120	0.074	<1	2.50	0.014	0.21	<0.1	0.03	4.8	0.2	<0.05	8	<0.5	<0.2
AB0900	Soil	63	1.10	76	0.066	<1	2.21	0.008	0.24	<0.1	0.02	5.1	0.2	<0.05	7	<0.5	<0.2
AB0950	Soil	58	1.05	75	0.056	<1	2.13	0.008	0.23	<0.1	0.02	4.3	0.2	<0.05	6	<0.5	<0.2
AC0000	Soil	58	0.95	122	0.057	1	2.09	0.010	0.23	<0.1	0.02	3.8	0.2	<0.05	7	<0.5	<0.2
AC0050	Soil	67	1.19	102	0.064	<1	2.51	0.011	0.26	<0.1	0.01	4.8	0.2	<0.05	8	<0.5	<0.2
AC0100	Soil	61	1.10	78	0.046	<1	2.30	0.008	0.22	<0.1	0.01	4.6	0.2	<0.05	7	<0.5	<0.2
AC0150	Soil	53	0.99	62	0.050	<1	2.02	0.008	0.22	<0.1	<0.01	4.0	0.2	<0.05	6	0.7	<0.2
AC0200	Soil	86	1.10	118	0.068	<1	2.18	0.009	0.23	<0.1	0.02	4.4	0.2	<0.05	7	<0.5	<0.2
AC0250	Soil	69	1.11	107	0.068	<1	2.29	0.008	0.27	0.3	0.03	4.5	0.2	<0.05	7	<0.5	<0.2
AC0300	Soil	70	1.12	109	0.070	<1	2.32	0.008	0.25	<0.1	0.02	4.4	0.2	<0.05	7	<0.5	<0.2
AC0350	Soil	66	1.05	100	0.075	<1	2.25	0.009	0.29	0.2	0.02	4.5	0.2	<0.05	7	<0.5	<0.2
AC0400	Soil	80	1.10	103	0.064	<1	2.13	0.009	0.24	1.2	0.02	4.3	0.2	<0.05	6	<0.5	<0.2
AC0450	Soil	60	0.94	96	0.073	<1	2.01	0.008	0.26	<0.1	<0.01	4.0	0.2	<0.05	6	<0.5	<0.2
AC0500	Soil	65	1.03	113	0.070	<1	2.25	0.014	0.24	<0.1	0.01	4.1	0.2	<0.05	6	0.5	<0.2
AC0550	Soil	65	1.05	108	0.067	<1	2.22	0.009	0.27	<0.1	0.01	4.6	0.2	<0.05	6	0.9	<0.2
AC0650	Soil	73	1.14	111	0.064	<1	2.46	0.009	0.22	<0.1	0.02	4.3	0.2	<0.05	7	<0.5	<0.2
AC0700	Soil	72	1.14	160	0.056	<1	2.60	0.011	0.29	0.1	0.04	4.7	0.2	<0.05	8	<0.5	<0.2
AC0750	Soil	69	1.10	104	0.068	<1	2.28	0.008	0.24	<0.1	<0.01	4.7	0.1	<0.05	7	<0.5	<0.2
AC0800	Soil	76	1.15	132	0.064	<1	2.66	0.010	0.22	0.1	0.01	4.5	0.2	<0.05	8	1.0	<0.2
AC0850	Soil	60	1.00	98	0.046	<1	2.28	0.009	0.17	<0.1	0.02	3.5	0.1	<0.05	8	<0.5	<0.2
AC0900	Soil	62	0.86	148	0.043	1	2.02	0.008	0.13	0.1	0.05	2.8	0.1	<0.05	7	0.6	<0.2
AC0950	Soil	67	0.88	129	0.043	2	2.46	0.011	0.13	0.1	0.05	3.3	0.2	<0.05	7	<0.5	<0.2
AD0000	Soil	78	1.11	73	0.052	3	2.60	0.010	0.18	0.1	0.05	3.6	0.2	<0.05	7	<0.5	<0.2
AD0050	Soil	133	1.46	154	0.079	1	2.44	0.009	0.33	0.1	0.04	5.9	0.2	<0.05	7	<0.5	<0.2
AD0100	Soil	71	1.00	114	0.072	2	2.27	0.008	0.21	<0.1	0.04	4.0	0.2	<0.05	6	<0.5	<0.2
AD0150	Soil	74	1.12	93	0.067	1	2.29	0.012	0.25	<0.1	0.04	4.7	0.2	<0.05	6	<0.5	<0.2
AD0200	Soil	97	1.37	190	0.145	1	2.78	0.014	0.58	<0.1	0.02	7.9	0.4	<0.05	8	0.5	<0.2
AD0250	Soil	82	1.14	77	0.071	<1	2.64	0.009	0.24	<0.1	0.04	4.2	0.2	<0.05	7	<0.5	<0.2
AD0300	Soil	81	1.17	126	0.095	<1	2.49	0.008	0.28	0.4	0.04	5.0	0.2	<0.05	8	<0.5	<0.2
AD0350	Soil	65	0.92	75	0.081	1	2.09	0.018	0.15	0.1	0.05	3.1	0.1	<0.05	7	<0.5	<0.2

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Project: Gladstone 2011
Report Date: September 29, 2011

CERTIFICATE OF ANALYSIS WHI11001178.1

	Method	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	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	1
AD0400	Soil	2.3	39.1	7.8	66	0.2	54.6	37.9	1023	3.88	17.0	4.0	0.9	21	<0.1	0.5	0.2	91	0.31	0.073	6
AD0450	Soil	1.6	60.0	7.1	54	0.1	76.4	18.8	420	4.65	14.2	3.8	1.4	17	<0.1	0.6	0.2	101	0.19	0.056	5
AD0500	Soil	2.2	83.1	7.9	55	0.3	137.0	41.3	1038	5.86	21.8	5.2	1.1	25	<0.1	0.6	0.2	136	0.35	0.065	6
AD0550	Soil	2.0	30.8	8.8	64	0.1	52.1	16.2	372	4.36	17.3	5.8	1.6	17	<0.1	0.5	0.2	101	0.23	0.042	6
AE0000	Soil	1.6	44.3	7.0	52	0.2	57.5	23.1	682	4.49	28.2	5.6	1.3	19	<0.1	1.0	0.2	107	0.26	0.071	5
AE0050	Soil	1.7	39.6	8.7	60	0.1	53.1	21.3	656	4.52	20.7	5.4	1.2	20	<0.1	0.7	0.3	120	0.28	0.057	6
AE0100	Soil	1.1	36.2	6.5	47	0.1	44.8	14.5	339	3.95	18.4	4.2	1.3	16	<0.1	0.6	0.2	95	0.23	0.060	5
AE0150	Soil	0.9	33.4	6.8	53	0.2	49.5	14.5	310	3.85	22.7	6.3	1.4	16	<0.1	0.5	0.2	91	0.25	0.071	6
AE0200	Soil	1.2	33.9	6.0	62	0.2	51.8	16.6	373	3.99	29.4	9.1	1.1	16	<0.1	0.7	0.2	91	0.25	0.065	4
AE0250	Soil	0.6	26.3	5.6	56	<0.1	47.3	12.7	290	3.15	8.9	5.1	1.4	16	<0.1	0.4	0.2	78	0.26	0.066	5
AE0300	Soil	1.6	36.6	6.6	59	0.2	51.2	14.6	314	4.53	33.5	6.7	1.3	15	0.1	0.9	0.2	83	0.25	0.062	5
AE0350	Soil	1.0	30.7	5.7	58	0.1	48.4	15.7	412	4.01	20.2	7.0	1.3	15	<0.1	0.5	0.2	86	0.24	0.074	5
AE0400	Soil	0.7	39.4	6.0	52	<0.1	53.9	13.8	289	3.52	10.3	4.1	1.5	14	<0.1	0.6	0.2	88	0.25	0.068	5
AE0450	Soil	1.0	33.8	5.1	52	0.2	48.1	13.4	306	3.63	21.1	5.5	1.3	17	<0.1	0.7	0.2	91	0.31	0.083	5
AE0500	Soil	0.6	28.2	5.5	50	0.1	48.9	15.3	341	3.62	11.6	6.5	1.5	18	<0.1	0.4	0.2	91	0.28	0.066	5
AF0000	Soil	0.8	40.5	5.2	53	0.1	49.1	15.6	519	3.28	14.4	21.5	1.0	23	0.1	0.5	0.1	80	0.35	0.083	5
AF0050	Soil	1.2	53.1	6.7	63	0.3	50.6	20.4	705	3.69	16.8	7.8	0.9	32	<0.1	0.5	0.2	96	0.49	0.079	6
AF0100	Soil	1.0	39.3	6.4	55	0.2	44.1	17.1	462	3.39	15.5	5.6	1.3	23	0.1	0.6	0.2	87	0.40	0.091	7
AF0150	Soil	0.9	33.6	5.2	58	0.1	48.5	15.9	412	3.61	17.0	8.1	1.8	22	<0.1	0.5	0.2	90	0.37	0.098	7
AF0200	Soil	1.3	39.0	9.0	67	0.3	48.6	18.8	510	3.74	21.7	6.2	1.3	28	<0.1	0.6	0.2	106	0.50	0.076	7

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Project: Gladstone 2011
Report Date: September 29, 2011

CERTIFICATE OF ANALYSIS WHI11001178.1

	Method	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
AD0400	Soil	68	0.94	114	0.100	2	1.98	0.010	0.21	<0.1	0.05	3.9	0.2	<0.05	6	<0.5	<0.2
AD0450	Soil	69	1.06	181	0.124	<1	2.40	0.012	0.66	0.2	0.02	6.6	0.3	<0.05	7	<0.5	<0.2
AD0500	Soil	88	1.29	235	0.170	<1	3.05	0.015	0.55	0.1	0.04	7.8	0.3	<0.05	8	<0.5	<0.2
AD0550	Soil	70	1.06	130	0.119	<1	2.31	0.009	0.40	0.1	0.01	5.5	0.2	<0.05	7	<0.5	<0.2
AE0000	Soil	71	1.03	212	0.129	<1	2.29	0.012	0.55	0.1	0.03	6.7	0.3	<0.05	7	<0.5	<0.2
AE0050	Soil	83	1.13	220	0.141	<1	2.46	0.012	0.48	0.1	0.02	6.9	0.3	<0.05	8	<0.5	<0.2
AE0100	Soil	67	0.95	160	0.114	<1	2.24	0.009	0.41	0.1	0.04	5.7	0.3	<0.05	6	0.5	<0.2
AE0150	Soil	68	1.03	157	0.107	<1	2.19	0.009	0.47	<0.1	0.04	5.7	0.2	<0.05	6	<0.5	<0.2
AE0200	Soil	72	1.02	159	0.104	<1	2.23	0.009	0.39	0.1	0.02	5.7	0.2	<0.05	7	<0.5	<0.2
AE0250	Soil	67	1.03	152	0.107	<1	2.21	0.009	0.41	<0.1	0.04	5.6	0.2	<0.05	6	<0.5	<0.2
AE0300	Soil	72	0.96	132	0.079	1	2.10	0.007	0.29	<0.1	0.05	5.0	0.2	<0.05	6	<0.5	<0.2
AE0350	Soil	76	1.02	144	0.102	<1	2.21	0.007	0.32	0.1	0.04	5.7	0.2	<0.05	7	0.5	<0.2
AE0400	Soil	72	1.06	189	0.122	<1	2.31	0.010	0.47	0.1	0.03	6.3	0.3	<0.05	7	<0.5	<0.2
AE0450	Soil	66	0.99	187	0.113	<1	2.08	0.011	0.50	0.1	0.02	6.0	0.2	<0.05	6	<0.5	<0.2
AE0500	Soil	68	1.02	182	0.122	<1	2.12	0.010	0.45	<0.1	0.03	6.1	0.2	<0.05	6	<0.5	<0.2
AF0000	Soil	59	0.88	165	0.101	1	1.79	0.014	0.36	0.1	0.03	5.1	0.2	<0.05	5	<0.5	<0.2
AF0050	Soil	64	0.93	240	0.109	1	2.01	0.014	0.36	<0.1	0.04	6.1	0.2	<0.05	6	0.6	<0.2
AF0100	Soil	59	0.85	201	0.116	1	1.92	0.012	0.36	0.1	0.03	5.8	0.2	<0.05	6	<0.5	<0.2
AF0150	Soil	67	1.02	191	0.123	<1	2.04	0.012	0.51	0.1	0.02	5.9	0.2	<0.05	6	<0.5	<0.2
AF0200	Soil	72	1.01	258	0.158	2	2.31	0.014	0.49	0.2	0.05	7.3	0.3	<0.05	8	<0.5	<0.2

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Report Date: September 29, 2011

QUALITY CONTROL REPORT WHI11001178.1

	Method	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	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	1
Pulp Duplicates																					
C A0700	Soil	1.0	39.7	6.9	77	0.1	40.4	14.4	361	3.75	74.9	5.2	1.8	29	0.2	0.4	0.2	104	0.31	0.040	7
REP C A0700	QC	0.8	41.1	6.8	80	0.1	40.0	14.1	369	3.82	79.5	5.2	2.1	32	0.1	0.6	0.2	107	0.32	0.045	9
C B0600	Soil	1.0	46.1	7.2	86	0.2	46.2	18.1	628	3.91	31.3	4.3	1.8	37	0.3	0.5	0.2	104	0.44	0.083	8
REP C B0600	QC	1.0	43.5	7.0	83	0.1	42.0	17.0	604	3.80	29.9	8.0	1.8	36	0.4	0.4	0.2	102	0.42	0.078	8
C C0600	Soil	1.6	41.0	7.7	72	0.2	41.6	18.5	672	3.87	16.2	4.4	0.8	25	0.1	0.4	0.2	111	0.23	0.087	6
REP C C0600	QC	1.5	40.4	7.5	71	0.2	41.9	18.6	664	3.87	16.2	5.2	0.8	25	0.2	0.4	0.2	111	0.23	0.090	6
C D0350	Soil	1.6	45.5	9.0	84	0.2	52.4	19.8	601	4.02	50.8	4.5	1.5	19	0.2	0.4	0.2	114	0.16	0.061	7
REP C D0350	QC	1.3	41.1	7.6	78	0.1	46.5	18.5	553	3.70	46.1	8.3	1.3	17	0.3	0.4	0.2	105	0.14	0.055	6
C E0200	Soil	0.6	51.9	5.8	81	0.2	51.8	17.7	354	4.12	54.3	8.0	1.9	20	<0.1	0.2	0.2	127	0.24	0.089	7
REP C E0200	QC	0.6	52.4	6.3	80	0.2	51.6	18.0	366	4.17	52.8	10.1	1.1	21	<0.1	0.2	0.2	126	0.23	0.089	8
C E0750	Soil	0.9	51.3	6.4	99	0.1	58.0	23.5	618	4.50	84.4	22.0	0.8	49	0.1	0.4	0.2	117	0.32	0.072	6
REP C E0750	QC	1.1	51.6	6.3	103	0.2	54.6	23.1	635	4.51	86.0	40.2	0.8	49	<0.1	0.4	0.2	114	0.32	0.072	6
C F0600	Soil	0.8	36.4	7.4	70	<0.1	38.8	15.4	544	3.33	53.3	8.9	1.4	32	0.2	0.3	0.2	89	0.32	0.087	5
REP C F0600	QC	0.8	37.5	7.1	70	<0.1	38.4	15.4	533	3.34	52.8	6.8	1.5	32	0.2	0.3	0.2	89	0.33	0.086	5
C F	Soil	0.5	41.5	5.0	68	0.1	41.1	14.7	405	3.64	33.5	8.9	1.8	25	0.1	0.2	0.2	113	0.33	0.086	6
REP C F	QC	0.7	41.0	5.0	66	0.1	41.2	14.8	400	3.58	32.7	9.1	1.7	25	<0.1	0.2	0.2	109	0.32	0.088	6
HA0900	Soil	0.6	34.8	4.4	66	0.1	45.1	12.3	225	3.08	9.6	2.2	1.7	23	<0.1	0.2	0.1	89	0.44	0.102	6
REP HA0900	QC	0.7	34.9	4.7	68	0.2	44.2	12.2	218	3.07	9.5	2.2	1.5	22	<0.1	0.2	0.1	86	0.43	0.103	6
HB0400	Soil	1.1	22.4	5.1	60	<0.1	33.4	14.3	365	2.80	10.6	2.9	0.8	22	0.2	0.2	0.1	85	0.38	0.055	4
REP HB0400	QC	1.1	24.3	5.2	62	0.1	36.2	15.2	378	3.00	12.1	1.3	0.9	23	<0.1	0.2	0.1	90	0.42	0.055	5
HC0000	Soil	0.7	29.0	4.7	72	<0.1	41.3	12.4	237	3.17	17.5	3.5	1.3	20	<0.1	0.3	0.3	102	0.42	0.082	6
REP HC0000	QC	0.7	28.6	4.8	69	<0.1	40.6	12.1	237	3.15	17.1	6.8	1.2	20	<0.1	0.3	0.2	101	0.41	0.077	6
HC0850	Soil	0.8	35.7	4.7	65	<0.1	43.6	15.0	370	3.35	9.5	2.3	1.4	31	<0.1	0.2	0.1	96	0.65	0.080	6
REP HC0850	QC	0.8	35.3	4.6	65	<0.1	43.0	15.1	374	3.35	9.4	3.9	1.4	30	<0.1	0.2	0.1	97	0.64	0.079	6
HD0400	Soil	1.3	38.3	4.7	61	0.1	45.4	20.3	695	2.84	7.6	2.2	0.6	29	<0.1	0.4	0.1	96	0.44	0.093	5
REP HD0400	QC	1.3	37.9	4.7	62	0.1	45.4	20.5	689	2.87	7.3	3.6	0.6	29	<0.1	0.4	0.1	99	0.44	0.092	5
HE0200	Soil	0.7	42.8	3.7	90	<0.1	41.9	18.5	412	3.02	9.1	0.9	1.2	26	0.2	0.4	0.1	104	0.50	0.105	6
REP HE0200	QC	0.8	44.6	4.0	93	0.1	39.4	18.6	433	3.11	9.9	<0.5	1.2	26	0.1	0.4	0.1	109	0.52	0.117	6

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Project: Gladstone 2011
Report Date: September 29, 2011

QUALITY CONTROL REPORT WHI11001178.1

	Method	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																	
C A0700	Soil	66	1.07	186	0.145	1	2.30	0.015	0.47	0.2	0.02	6.0	0.2	<0.05	9	<0.5	<0.2
REP C A0700	QC	67	1.07	198	0.164	3	2.29	0.015	0.47	0.2	0.02	6.0	0.2	<0.05	9	<0.5	<0.2
C B0600	Soil	67	1.13	263	0.141	2	2.58	0.023	0.45	0.2	0.04	6.3	0.2	0.07	8	<0.5	<0.2
REP C B0600	QC	65	1.07	259	0.135	2	2.40	0.018	0.46	0.1	0.04	5.8	0.2	0.07	7	<0.5	<0.2
C C0600	Soil	70	0.96	274	0.125	1	2.54	0.013	0.40	0.2	0.03	5.8	0.2	0.09	9	<0.5	<0.2
REP C C0600	QC	68	0.97	265	0.120	1	2.54	0.013	0.40	0.1	0.04	5.7	0.3	0.11	9	0.6	<0.2
C D0350	Soil	76	1.08	261	0.184	2	2.84	0.013	0.63	0.3	0.03	6.8	0.3	0.06	9	0.7	<0.2
REP C D0350	QC	70	1.02	235	0.173	<1	2.55	0.012	0.61	0.2	0.02	6.3	0.3	0.07	8	0.7	<0.2
C E0200	Soil	87	1.24	344	0.221	<1	3.12	0.013	1.00	0.2	<0.01	9.5	0.4	<0.05	10	<0.5	<0.2
REP C E0200	QC	88	1.23	341	0.233	<1	3.03	0.013	0.98	0.2	0.03	9.3	0.4	<0.05	10	0.9	<0.2
C E0750	Soil	71	1.24	257	0.218	<1	3.38	0.028	0.74	0.2	0.02	8.2	0.3	<0.05	11	1.5	<0.2
REP C E0750	QC	73	1.26	267	0.216	<1	3.46	0.028	0.75	0.2	0.02	8.3	0.3	0.07	11	0.9	<0.2
C F0600	Soil	62	0.92	225	0.163	2	2.37	0.014	0.52	0.2	0.02	5.6	0.3	<0.05	7	<0.5	<0.2
REP C F0600	QC	62	0.92	225	0.166	<1	2.36	0.015	0.51	0.2	0.01	5.8	0.3	<0.05	7	<0.5	<0.2
C F	Soil	75	1.09	370	0.212	<1	2.39	0.015	0.94	0.2	<0.01	9.1	0.3	<0.05	8	<0.5	<0.2
REP C F	QC	73	1.07	373	0.204	<1	2.36	0.015	0.92	0.2	<0.01	8.8	0.3	<0.05	8	<0.5	<0.2
HA0900	Soil	77	1.08	190	0.131	1	2.14	0.021	0.40	0.1	0.03	5.4	0.2	<0.05	6	<0.5	<0.2
REP HA0900	QC	76	1.07	196	0.128	2	2.15	0.024	0.40	0.2	0.01	5.2	0.2	<0.05	6	0.7	<0.2
HB0400	Soil	75	0.97	191	0.147	1	1.65	0.014	0.28	0.1	0.02	3.7	0.1	<0.05	6	<0.5	<0.2
REP HB0400	QC	76	1.02	200	0.152	1	1.72	0.015	0.29	0.1	0.03	4.3	0.1	<0.05	6	0.7	<0.2
HC0000	Soil	80	1.14	182	0.186	2	2.12	0.021	0.37	0.3	0.01	5.0	0.2	<0.05	7	<0.5	<0.2
REP HC0000	QC	80	1.12	185	0.184	1	2.06	0.019	0.38	0.2	0.02	5.1	0.2	<0.05	7	<0.5	<0.2
HC0850	Soil	74	1.14	178	0.141	1	2.10	0.024	0.27	0.2	0.02	5.7	0.2	0.09	7	<0.5	<0.2
REP HC0850	QC	75	1.11	179	0.139	<1	2.05	0.022	0.28	0.1	0.03	5.7	0.2	<0.05	7	<0.5	<0.2
HD0400	Soil	89	0.84	194	0.133	<1	1.53	0.023	0.26	0.1	0.05	3.8	0.2	0.16	6	<0.5	<0.2
REP HD0400	QC	94	0.85	195	0.140	1	1.52	0.023	0.26	<0.1	0.04	3.8	0.2	<0.05	6	<0.5	<0.2
HE0200	Soil	75	0.98	240	0.159	2	2.10	0.027	0.48	0.1	0.04	6.2	0.2	<0.05	7	<0.5	<0.2
REP HE0200	QC	79	1.02	232	0.183	3	2.26	0.028	0.50	0.2	0.04	6.5	0.2	<0.05	7	<0.5	<0.2

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QUALITY CONTROL REPORT WHI11001178.1

		1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		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	1
AA0350	Soil	0.9	37.8	4.9	104	0.2	54.5	17.0	417	3.99	28.0	20.1	3.0	19	<0.1	0.5	0.2	73	0.25	0.076	11
REP AA0350	QC	0.9	37.4	4.8	107	0.2	54.1	17.1	413	3.87	28.4	7.7	2.9	19	<0.1	0.5	0.2	72	0.27	0.080	11
AB0300	Soil	1.1	51.2	5.0	89	0.2	52.0	18.5	550	3.71	15.5	4.4	2.1	26	<0.1	0.3	0.2	65	0.36	0.097	9
REP AB0300	QC	1.1	51.0	5.3	90	0.2	53.5	19.1	559	3.80	15.9	4.4	2.2	26	<0.1	0.3	0.2	67	0.34	0.102	10
AC0550	Soil	1.1	62.6	5.4	75	0.2	61.5	18.7	525	3.89	18.3	4.7	1.5	22	<0.1	0.3	0.2	73	0.27	0.086	7
REP AC0550	QC	1.1	63.0	5.4	75	0.2	61.7	19.4	544	3.99	18.3	6.3	1.5	23	0.1	0.3	0.2	76	0.29	0.089	8
AD0500	Soil	2.2	83.1	7.9	55	0.3	137.0	41.3	1038	5.86	21.8	5.2	1.1	25	<0.1	0.6	0.2	136	0.35	0.065	6
REP AD0500	QC	2.2	81.4	8.6	57	0.3	137.3	41.9	1059	6.01	22.7	3.0	1.1	26	0.2	0.6	0.2	138	0.36	0.067	7
AE0250	Soil	0.6	26.3	5.6	56	<0.1	47.3	12.7	290	3.15	8.9	5.1	1.4	16	<0.1	0.4	0.2	78	0.26	0.066	5
REP AE0250	QC	0.5	26.7	5.4	57	0.1	47.4	12.2	326	3.21	9.5	8.2	1.5	16	<0.1	0.5	0.2	79	0.30	0.067	6
Reference Materials																					
STD DS8	Standard	13.7	107.9	124.2	327	1.8	38.1	7.8	627	2.52	25.1	115.1	7.6	78	2.4	4.7	6.8	43	0.77	0.078	18
STD DS8	Standard	12.6	108.2	124.7	308	1.7	36.2	7.6	613	2.48	24.9	116.1	6.8	66	2.2	5.6	6.4	41	0.67	0.079	14
STD DS8	Standard	12.9	104.2	114.1	311	1.7	39.0	7.7	618	2.51	27.8	108.5	6.2	62	2.5	5.6	6.3	43	0.68	0.083	14
STD DS8	Standard	12.0	101.2	119.9	291	1.7	35.6	6.9	573	2.28	23.1	112.6	7.1	65	2.1	5.5	6.7	39	0.69	0.075	14
STD DS8	Standard	12.6	115.3	121.5	316	1.7	39.2	7.8	598	2.43	24.6	110.4	6.2	63	2.1	5.6	6.7	42	0.70	0.080	13
STD DS8	Standard	13.0	111.5	123.3	305	1.8	37.6	7.5	629	2.56	22.8	107.3	7.0	69	2.3	5.2	6.7	41	0.73	0.073	17
STD DS8	Standard	12.4	108.6	124.8	309	1.9	38.4	7.4	597	2.57	25.4	126.9	6.6	68	2.2	4.4	6.7	41	0.69	0.081	15
STD DS8	Standard	12.5	109.5	125.4	308	1.9	38.5	7.6	591	2.43	24.9	115.2	6.6	62	2.2	5.3	6.2	40	0.67	0.078	14
STD DS8	Standard	13.4	108.2	119.4	311	1.7	38.6	7.4	627	2.45	24.3	121.8	6.3	64	2.2	5.6	6.2	42	0.70	0.085	15
STD DS8	Standard	13.5	108.2	123.0	309	1.8	40.9	7.4	601	2.77	25.7	116.6	6.6	67	2.3	5.3	6.1	41	0.72	0.080	15
STD DS8	Standard	14.1	114.8	131.0	324	1.8	40.2	7.8	644	2.60	24.8	123.7	7.2	67	2.3	5.5	5.7	45	0.74	0.086	15
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08	14.6
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.02	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
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	<1
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	<1
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	<1
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	<1
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	<1

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		1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
		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
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
AA0350	Soil	85	1.18	79	0.066	<1	2.30	0.007	0.15	<0.1	0.03	4.1	0.2	<0.05	7	<0.5	<0.2
REP AA0350	QC	84	1.24	81	0.073	2	2.41	0.008	0.16	0.1	0.03	4.3	0.2	<0.05	7	0.7	<0.2
AB0300	Soil	54	1.05	92	0.053	<1	2.07	0.011	0.21	0.1	0.01	3.9	0.2	<0.05	7	<0.5	<0.2
REP AB0300	QC	56	1.07	94	0.055	<1	2.12	0.009	0.21	<0.1	0.02	4.1	0.2	<0.05	7	<0.5	<0.2
AC0550	Soil	65	1.05	108	0.067	<1	2.22	0.009	0.27	<0.1	0.01	4.6	0.2	<0.05	6	0.9	<0.2
REP AC0550	QC	65	1.09	110	0.070	<1	2.26	0.009	0.27	<0.1	0.03	4.6	0.2	<0.05	7	<0.5	<0.2
AD0500	Soil	88	1.29	235	0.170	<1	3.05	0.015	0.55	0.1	0.04	7.8	0.3	<0.05	8	<0.5	<0.2
REP AD0500	QC	90	1.34	244	0.172	1	3.14	0.016	0.56	0.2	0.04	8.0	0.3	<0.05	8	0.6	<0.2
AE0250	Soil	67	1.03	152	0.107	<1	2.21	0.009	0.41	<0.1	0.04	5.6	0.2	<0.05	6	<0.5	<0.2
REP AE0250	QC	70	1.04	154	0.112	1	2.24	0.011	0.40	<0.1	0.04	5.7	0.2	<0.05	6	<0.5	<0.2
Reference Materials																	
STD DS8	Standard	122	0.64	285	0.122	5	1.00	0.112	0.46	2.8	0.18	3.2	5.5	0.12	5	5.0	5.1
STD DS8	Standard	116	0.58	280	0.110	2	0.91	0.097	0.41	2.9	0.19	3.0	5.7	0.13	5	3.9	5.3
STD DS8	Standard	116	0.61	288	0.104	3	0.90	0.091	0.41	3.0	0.20	1.9	5.4	0.17	5	6.4	5.5
STD DS8	Standard	110	0.59	262	0.116	3	0.85	0.087	0.39	3.0	0.21	2.0	5.3	0.14	4	5.1	4.7
STD DS8	Standard	119	0.59	253	0.116	2	0.87	0.082	0.40	2.7	0.20	2.2	5.4	0.17	4	5.2	4.7
STD DS8	Standard	114	0.59	276	0.122	4	0.90	0.096	0.40	3.0	0.17	3.1	5.6	<0.05	5	6.2	5.0
STD DS8	Standard	115	0.62	274	0.111	3	0.96	0.101	0.43	2.8	0.22	3.9	5.7	0.13	4	5.4	5.0
STD DS8	Standard	117	0.57	263	0.113	2	0.90	0.097	0.41	2.7	0.18	2.4	5.4	0.16	5	6.4	5.3
STD DS8	Standard	116	0.61	269	0.120	2	0.94	0.115	0.45	3.0	0.21	2.7	5.4	0.14	5	5.2	4.9
STD DS8	Standard	112	0.58	266	0.112	2	0.96	0.091	0.44	2.8	0.17	2.4	5.4	0.18	5	4.3	4.6
STD DS8	Standard	121	0.65	275	0.121	3	0.95	0.100	0.43	3.2	0.23	2.7	5.8	0.24	5	5.5	5.2
STD DS8 Expected		115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

AcmeLabs Acme Analytical Laboratories (Vancouver) Ltd.

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Client: **18526 Yukon Inc.**
P.O. Box 11250
Whitehorse Yukon Y1A 6N4 Canada

Project: Gladstone 2011

Report Date: September 29, 2011

QUALITY CONTROL REPORT WHI11001178.1

		1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		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	1
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	<1
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	<1
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	<1
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	<1
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	<1

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QUALITY CONTROL REPORT WHI11001178.1

		1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
		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
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

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Client: **18526 Yukon Inc.**
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Whitehorse Yukon Y1A 6N4 Canada

Submitted By: Ron Berdahl
Receiving Lab: Canada-Whitehorse
Received: August 15, 2011
Report Date: September 29, 2011
Page: 1 of 6

CERTIFICATE OF ANALYSIS WHI11001179.1

CLIENT JOB INFORMATION

Project: Gladstone 2011
Shipment ID:
P.O. Number
Number of Samples: 142

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
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.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	142	Dry at 60C			WHI
SS80	142	Dry at 60C sieve 100g to -80 mesh			WHI
1DX3	142	1:1:1 Aqua Regia digestion ICP-MS analysis	30	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: 18526 Yukon Inc.
P.O. Box 11250
Whitehorse Yukon Y1A 6N4
Canada

CC: Scott Berdahl

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

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: Gladstone 2011
Report Date: September 29, 2011

CERTIFICATE OF ANALYSIS WHI11001179.1

Method		1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
Analyte		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
MDL		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	1
AF0250	Soil	1.1	30.5	6.8	64	0.2	45.0	17.0	400	3.66	15.7	9.4	1.6	21	<0.1	0.6	0.2	102	0.30	0.081	6
AF0300	Soil	1.4	44.2	7.1	67	0.3	51.0	19.1	577	4.02	18.3	2.9	1.2	22	<0.1	0.7	0.2	117	0.27	0.056	6
AF0350	Soil	1.7	66.0	9.3	78	0.2	67.9	21.9	645	5.03	22.0	4.4	1.7	20	0.1	0.9	0.2	131	0.24	0.074	7
AF0400	Soil	1.5	47.3	7.4	68	0.3	50.4	24.2	834	4.09	24.4	3.9	1.3	26	0.1	0.9	0.2	107	0.36	0.089	6
AF0450	Soil	1.7	60.9	11.7	86	0.4	62.1	23.1	658	4.88	31.1	4.6	1.7	23	0.1	1.0	0.2	123	0.27	0.064	7
AF0550	Soil	2.1	67.5	10.5	85	0.4	62.3	22.8	682	4.35	21.3	<0.5	2.3	29	0.7	1.0	0.5	130	0.38	0.051	12
AF0600	Soil	2.0	61.2	10.2	87	0.3	64.7	21.8	657	4.84	27.5	26.1	1.7	25	0.2	1.0	0.3	120	0.28	0.067	8
AF0650	Soil	1.3	60.5	6.6	76	0.3	61.2	19.0	544	4.44	26.7	6.3	1.8	20	0.1	1.3	0.2	111	0.23	0.079	7
AF0700	Soil	1.8	68.7	9.2	86	0.4	62.9	21.8	678	4.75	30.2	6.9	1.5	30	0.1	0.9	0.2	117	0.39	0.078	8
AF0750	Soil	1.4	64.9	6.9	81	0.5	60.3	19.7	544	4.18	26.1	6.3	1.2	31	<0.1	1.0	0.2	96	0.36	0.076	8
AF0900	Soil	1.4	43.9	6.3	58	0.1	45.4	16.6	444	3.75	26.6	2.7	1.1	24	<0.1	0.7	0.2	112	0.26	0.047	6
AF0950	Soil	1.5	66.3	8.0	69	0.5	58.7	24.5	778	4.01	18.4	6.3	1.1	35	0.1	0.8	0.2	104	0.46	0.068	7
AG0000	Soil	1.6	51.8	8.0	59	<0.1	57.9	16.2	405	4.80	24.3	2.5	1.3	15	<0.1	0.9	0.2	121	0.14	0.039	6
AG0050	Soil	2.0	54.9	9.4	65	0.4	50.6	22.6	813	3.83	51.2	9.5	1.0	29	<0.1	1.2	0.2	96	0.34	0.063	8
AG0100	Soil	2.1	64.9	9.8	62	0.5	53.5	28.7	1068	4.39	98.0	12.7	1.3	27	<0.1	1.0	0.3	107	0.32	0.081	8
AG0150	Soil	2.4	106.9	9.1	54	0.6	49.2	18.2	348	3.58	129.6	14.9	1.0	24	<0.1	1.0	0.2	90	0.23	0.061	8
AG0200	Soil	1.2	23.9	8.4	72	0.2	37.2	13.3	320	3.39	19.3	2.8	1.1	22	0.1	0.6	0.2	96	0.31	0.073	6
AG0250	Soil	1.8	29.1	9.5	71	0.4	38.5	14.8	313	3.67	30.8	4.1	1.0	20	<0.1	0.6	0.3	100	0.26	0.074	6
AG0350	Soil	1.6	43.3	8.7	80	0.2	54.1	23.0	677	4.50	27.8	4.7	1.2	26	0.1	0.8	0.2	118	0.33	0.076	5
AG0400	Soil	1.5	55.0	7.8	71	0.3	56.0	23.1	563	4.03	65.9	7.0	1.3	21	<0.1	0.9	0.2	99	0.27	0.079	6
AG0500	Soil	2.0	60.6	11.4	91	0.4	53.9	26.8	864	4.37	52.0	7.6	1.2	23	0.2	1.2	0.3	100	0.26	0.076	10
AG0550	Soil	0.9	37.8	5.2	60	0.1	44.9	15.6	419	3.58	26.6	4.8	1.4	16	<0.1	0.8	0.2	86	0.28	0.114	5
AG0600	Soil	2.2	69.0	11.3	95	0.3	57.6	30.7	978	4.80	42.1	6.8	1.2	27	<0.1	1.5	0.2	106	0.30	0.080	10
AG0650	Soil	1.1	33.0	5.5	69	0.1	99.0	20.9	475	3.41	59.6	8.6	1.1	28	0.1	0.6	0.2	96	0.40	0.101	6
AG0700	Soil	2.0	62.9	10.7	90	0.5	80.0	25.7	883	4.67	31.6	6.0	1.4	27	<0.1	1.5	0.2	131	0.34	0.067	8
AG0750	Soil	2.0	78.7	10.6	88	0.4	57.8	27.3	1296	4.93	30.4	11.1	1.4	23	<0.1	1.8	0.2	109	0.29	0.075	9
AG0800	Soil	1.8	41.4	8.9	71	0.2	47.1	21.6	834	4.11	23.8	15.9	1.1	25	<0.1	0.9	0.2	111	0.34	0.065	5
AG0850	Soil	1.5	36.0	7.3	59	0.3	41.9	15.6	475	4.08	21.4	11.2	1.1	18	<0.1	0.7	0.2	106	0.24	0.067	6
AH0000	Soil	1.4	36.1	6.7	69	0.2	58.4	18.1	557	3.86	26.0	4.0	0.9	23	<0.1	0.5	0.2	97	0.28	0.066	6
AH0050	Soil	2.2	40.8	9.1	88	0.2	75.6	27.9	977	4.24	42.9	7.5	1.4	25	0.1	0.7	0.2	115	0.37	0.084	7

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Project: Gladstone 2011
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CERTIFICATE OF ANALYSIS WHI11001179.1

	Method	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
AF0250	Soil	71	1.09	233	0.155	2	2.37	0.013	0.52	0.1	0.03	7.0	0.3	<0.05	8	<0.5	<0.2
AF0300	Soil	78	1.16	272	0.171	<1	2.46	0.017	0.61	0.1	0.03	7.2	0.3	<0.05	9	<0.5	<0.2
AF0350	Soil	89	1.33	311	0.194	1	2.97	0.020	0.81	0.2	0.02	8.8	0.3	<0.05	9	<0.5	<0.2
AF0400	Soil	70	1.05	209	0.139	1	2.34	0.017	0.45	0.1	0.03	6.6	0.2	<0.05	8	<0.5	<0.2
AF0450	Soil	81	1.26	241	0.160	1	2.73	0.016	0.52	0.2	0.02	7.0	0.2	<0.05	9	<0.5	<0.2
AF0550	Soil	77	1.09	269	0.176	<1	2.66	0.015	0.55	<0.1	0.02	6.0	0.2	0.15	9	0.8	<0.2
AF0600	Soil	80	1.28	270	0.155	1	2.93	0.016	0.55	0.1	0.03	7.2	0.2	<0.05	9	<0.5	<0.2
AF0650	Soil	76	1.18	238	0.163	<1	2.68	0.015	0.60	0.1	0.02	7.6	0.2	<0.05	8	<0.5	<0.2
AF0700	Soil	77	1.19	264	0.140	<1	2.61	0.016	0.49	<0.1	0.03	6.9	0.2	<0.05	9	<0.5	<0.2
AF0750	Soil	69	1.15	225	0.114	<1	2.45	0.020	0.47	0.1	0.05	6.3	0.2	0.06	8	<0.5	<0.2
AF0900	Soil	65	1.00	223	0.149	<1	2.16	0.014	0.51	0.1	0.01	6.0	0.2	<0.05	7	<0.5	<0.2
AF0950	Soil	74	1.15	272	0.129	<1	2.61	0.017	0.51	0.1	0.06	7.4	0.2	<0.05	7	<0.5	<0.2
AG0000	Soil	80	1.11	188	0.149	<1	2.56	0.011	0.48	0.1	0.01	6.7	0.2	<0.05	8	<0.5	<0.2
AG0050	Soil	69	0.96	228	0.110	<1	2.27	0.012	0.40	0.1	0.06	6.6	0.2	<0.05	7	<0.5	<0.2
AG0100	Soil	72	1.08	225	0.123	1	2.57	0.014	0.47	0.1	0.06	7.4	0.2	0.06	7	<0.5	<0.2
AG0150	Soil	56	0.73	156	0.078	<1	1.90	0.012	0.23	0.1	0.07	5.0	0.1	0.07	6	<0.5	<0.2
AG0200	Soil	65	0.95	184	0.118	<1	2.07	0.013	0.34	<0.1	0.04	5.6	0.2	0.06	7	<0.5	<0.2
AG0250	Soil	68	0.87	163	0.111	<1	2.01	0.011	0.33	0.1	0.05	5.8	0.2	0.08	7	<0.5	<0.2
AG0350	Soil	75	1.09	277	0.168	<1	2.32	0.017	0.61	0.2	0.03	8.4	0.3	<0.05	8	<0.5	<0.2
AG0400	Soil	65	1.05	225	0.123	<1	2.39	0.014	0.49	0.1	0.03	7.0	0.2	<0.05	7	<0.5	<0.2
AG0500	Soil	69	1.03	221	0.108	1	2.46	0.012	0.31	0.1	0.06	6.7	0.2	0.05	8	<0.5	<0.2
AG0550	Soil	59	0.89	193	0.125	<1	1.91	0.012	0.47	0.1	0.02	5.9	0.2	<0.05	6	<0.5	<0.2
AG0600	Soil	72	1.05	239	0.106	<1	2.59	0.019	0.29	0.1	0.05	7.3	0.2	0.06	8	<0.5	<0.2
AG0650	Soil	133	1.20	165	0.123	<1	1.95	0.014	0.28	0.2	0.02	6.4	0.2	<0.05	6	<0.5	<0.2
AG0700	Soil	114	1.29	271	0.146	<1	2.81	0.015	0.54	0.2	0.07	8.5	0.3	0.05	9	<0.5	<0.2
AG0750	Soil	76	0.99	239	0.117	1	2.59	0.013	0.39	<0.1	0.07	7.9	0.2	<0.05	8	<0.5	<0.2
AG0800	Soil	75	1.05	248	0.143	<1	2.24	0.015	0.51	0.1	0.04	7.3	0.3	0.07	7	<0.5	<0.2
AG0850	Soil	73	1.02	208	0.136	<1	2.32	0.013	0.47	0.1	0.05	6.8	0.2	0.06	7	<0.5	<0.2
AH0000	Soil	85	1.07	196	0.135	<1	2.19	0.015	0.37	0.3	0.04	6.5	0.2	0.06	7	<0.5	<0.2
AH0050	Soil	102	1.19	232	0.163	<1	2.41	0.018	0.49	0.3	0.06	7.2	0.3	0.06	7	<0.5	<0.2

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Project: Gladstone 2011
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CERTIFICATE OF ANALYSIS WHI11001179.1

	Method	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	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	1
AH0250	Soil	2.1	38.7	11.6	74	0.4	45.8	22.5	703	3.85	20.7	3.7	1.1	27	<0.1	0.6	0.2	98	0.33	0.096	8
AH0300	Soil	1.1	46.8	6.9	93	0.1	57.4	20.7	669	4.41	14.7	2.0	1.1	27	<0.1	0.8	0.2	110	0.34	0.052	5
AH0350	Soil	1.6	39.0	7.8	79	0.3	47.7	19.7	522	3.95	14.4	6.1	1.1	24	<0.1	0.7	0.2	100	0.29	0.063	6
AH0450	Soil	1.3	39.7	6.1	75	0.2	50.2	19.8	495	3.80	13.7	37.6	1.2	20	<0.1	0.5	0.2	110	0.24	0.053	5
AH0500	Soil	1.6	34.2	7.7	71	0.3	40.3	18.1	427	3.84	12.6	4.3	1.1	21	<0.1	0.6	0.2	102	0.28	0.072	6
AH0550	Soil	1.1	37.4	6.1	71	0.2	43.7	18.0	499	3.46	12.1	3.5	1.2	23	0.1	0.8	0.2	89	0.37	0.120	6
AH0600	Soil	1.4	53.1	7.0	79	0.3	54.9	20.5	549	3.92	11.6	4.7	1.1	22	<0.1	0.6	0.2	111	0.37	0.093	5
AH0650	Soil	1.4	63.6	7.1	87	0.2	63.0	19.3	594	4.45	12.6	5.2	1.2	20	0.2	0.5	0.2	119	0.32	0.086	5
AH0700	Soil	1.7	69.8	9.0	89	0.4	68.5	22.1	627	4.90	29.3	4.7	1.0	27	0.1	0.7	0.2	134	0.34	0.072	6
AH0750	Soil	2.1	77.6	9.7	103	0.3	72.7	27.7	869	5.05	39.8	7.0	1.2	32	0.2	1.8	0.3	121	0.47	0.076	7
AH0800	Soil	2.1	54.3	9.0	91	0.3	56.8	26.0	955	4.35	23.9	7.4	1.2	24	0.2	1.2	0.2	106	0.39	0.064	8
AH0850	Soil	2.1	69.0	11.8	91	0.2	63.1	25.8	635	5.47	31.5	7.3	1.3	22	<0.1	1.7	0.2	125	0.24	0.055	8
AH0900	Soil	2.1	54.4	9.4	84	0.3	55.9	19.1	527	4.27	28.5	7.6	1.4	27	0.1	1.6	0.2	109	0.33	0.051	7
AH0950	Soil	1.6	81.6	9.9	101	0.3	83.0	26.7	840	4.74	44.6	103.4	1.4	30	0.2	1.5	0.2	112	0.42	0.079	6
AI0000	Soil	1.6	76.0	7.3	86	0.2	73.1	26.3	641	4.75	17.9	3.1	1.0	28	0.1	0.9	0.2	133	0.35	0.053	5
AI0050	Soil	1.6	93.2	8.0	96	0.2	84.1	25.5	769	4.67	31.5	12.0	1.3	27	0.2	1.4	0.2	117	0.45	0.121	6
AI0050X	Soil	1.5	90.2	7.0	93	0.2	82.4	24.6	770	4.54	30.8	6.8	1.2	27	0.3	1.3	0.2	113	0.45	0.128	5
AI0100	Soil	1.8	60.6	7.6	79	0.2	64.5	19.9	517	4.84	22.0	3.4	1.0	20	0.1	1.2	0.2	125	0.24	0.044	5
AI0150	Soil	1.3	69.4	9.6	97	0.1	75.4	20.9	743	4.61	30.7	10.4	1.4	23	0.1	3.9	0.2	103	0.36	0.101	6
AI0200	Soil	1.8	68.7	8.5	83	0.2	69.3	21.9	634	4.62	20.5	9.6	1.1	21	0.2	1.1	0.2	118	0.28	0.054	6
AI0250	Soil	1.1	55.2	8.4	75	0.1	55.3	16.6	533	3.82	19.1	5.9	1.2	20	0.2	2.7	0.2	85	0.36	0.123	5
AI0300	Soil	1.4	66.3	10.0	99	0.3	65.1	21.2	706	4.18	41.8	18.4	1.5	27	0.2	4.9	0.2	82	0.38	0.084	8
AI0350	Soil	1.9	74.3	10.5	88	0.4	70.8	22.1	742	4.06	26.6	4.7	0.8	31	0.4	0.8	0.2	108	0.43	0.064	7
AI0400	Soil	2.1	53.8	8.1	88	0.2	58.1	20.3	632	3.92	21.3	3.4	1.2	26	0.4	0.9	0.2	103	0.34	0.062	8
AI0450	Soil	1.1	59.6	7.2	82	0.1	136.0	23.3	549	4.36	31.9	4.9	1.6	22	0.1	1.5	0.2	111	0.31	0.088	6
AI0500	Soil	1.0	65.5	6.8	73	0.1	92.0	22.6	566	4.66	21.2	5.9	1.0	18	<0.1	3.3	0.2	117	0.23	0.068	4
AI0550	Soil	1.5	53.6	8.3	85	0.2	180.5	28.0	583	4.83	58.9	9.6	1.3	24	0.3	1.7	0.2	112	0.30	0.041	7
AI0650	Soil	1.7	83.2	8.3	65	0.2	84.7	27.2	547	4.41	112.0	51.4	1.5	25	0.2	1.3	0.2	102	0.32	0.106	7
AI0750	Soil	1.1	64.6	7.6	62	0.1	188.5	25.3	457	3.98	73.3	14.4	1.5	21	0.1	1.4	0.2	107	0.28	0.062	6
AI0800	Soil	1.4	78.0	7.9	76	0.2	77.2	22.3	593	4.47	91.3	11.9	1.6	27	<0.1	2.8	0.2	99	0.40	0.109	6

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CERTIFICATE OF ANALYSIS WHI11001179.1

	Method	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
AH0250	Soil	69	0.95	207	0.111	<1	2.30	0.015	0.29	0.1	0.05	6.0	0.2	0.07	7	<0.5	<0.2
AH0300	Soil	87	1.33	290	0.178	<1	2.80	0.034	0.58	0.2	0.02	8.1	0.2	<0.05	9	<0.5	<0.2
AH0350	Soil	72	1.07	206	0.137	<1	2.28	0.017	0.39	0.3	0.04	6.6	0.2	0.06	7	<0.5	<0.2
AH0450	Soil	74	1.04	248	0.174	<1	2.33	0.018	0.58	0.2	0.02	7.9	0.2	<0.05	7	<0.5	<0.2
AH0500	Soil	65	0.91	189	0.138	<1	2.10	0.013	0.37	0.1	0.05	6.2	0.2	<0.05	7	<0.5	<0.2
AH0550	Soil	55	0.83	200	0.135	<1	1.90	0.016	0.43	0.1	0.02	6.2	0.2	<0.05	6	<0.5	<0.2
AH0600	Soil	72	1.01	241	0.170	<1	2.39	0.015	0.59	0.2	0.03	7.8	0.3	<0.05	8	0.7	<0.2
AH0650	Soil	79	1.07	281	0.189	<1	2.46	0.015	0.75	0.2	0.02	8.9	0.3	<0.05	8	<0.5	<0.2
AH0700	Soil	91	1.29	273	0.175	1	3.01	0.016	0.75	0.2	0.02	8.2	0.3	<0.05	10	<0.5	<0.2
AH0750	Soil	79	1.17	269	0.131	1	2.65	0.017	0.47	0.1	0.03	8.4	0.3	<0.05	8	0.8	<0.2
AH0800	Soil	69	0.96	214	0.112	<1	2.32	0.012	0.30	0.1	0.04	7.1	0.2	<0.05	8	0.7	<0.2
AH0850	Soil	81	1.09	246	0.124	1	2.71	0.010	0.37	0.1	0.04	8.8	0.3	<0.05	9	0.7	<0.2
AH0900	Soil	73	1.02	190	0.141	<1	2.31	0.015	0.29	0.2	0.03	6.7	0.2	<0.05	8	0.8	<0.2
AH0950	Soil	84	1.17	249	0.155	<1	2.62	0.016	0.65	0.1	0.02	8.4	0.2	<0.05	8	<0.5	<0.2
AI0000	Soil	85	1.15	310	0.183	<1	2.77	0.016	0.56	0.1	0.01	8.6	0.3	<0.05	9	0.7	<0.2
AI0050	Soil	76	1.09	303	0.168	<1	2.37	0.018	0.69	0.1	0.04	8.3	0.3	<0.05	8	0.8	<0.2
AI0050X	Soil	75	1.09	293	0.165	<1	2.44	0.018	0.68	0.1	0.02	8.5	0.3	<0.05	8	0.9	<0.2
AI0100	Soil	82	1.14	224	0.171	<1	2.77	0.013	0.56	0.1	0.03	8.1	0.3	<0.05	8	0.5	<0.2
AI0150	Soil	69	0.96	307	0.138	<1	2.18	0.013	0.72	0.1	0.02	9.1	0.3	<0.05	7	0.6	<0.2
AI0200	Soil	79	1.10	219	0.155	<1	2.53	0.013	0.55	0.1	0.03	7.2	0.2	<0.05	8	0.6	<0.2
AI0250	Soil	55	0.77	260	0.120	<1	1.76	0.012	0.53	0.1	0.02	7.5	0.2	<0.05	6	0.6	<0.2
AI0300	Soil	55	0.83	205	0.071	1	1.81	0.012	0.36	<0.1	0.03	6.6	0.2	<0.05	6	0.5	<0.2
AI0350	Soil	89	1.00	220	0.111	<1	2.21	0.013	0.44	0.1	0.05	5.6	0.2	<0.05	8	0.6	<0.2
AI0400	Soil	84	0.98	242	0.141	1	2.11	0.013	0.49	0.2	0.04	5.9	0.2	0.06	8	0.6	<0.2
AI0450	Soil	159	1.53	216	0.149	<1	2.52	0.015	0.56	0.1	0.01	7.8	0.2	<0.05	8	<0.5	<0.2
AI0500	Soil	109	1.20	282	0.145	<1	2.44	0.015	0.75	0.1	0.02	9.1	0.3	<0.05	8	0.6	<0.2
AI0550	Soil	181	1.70	200	0.125	<1	2.73	0.012	0.44	0.2	0.03	7.6	0.2	<0.05	8	0.6	<0.2
AI0650	Soil	79	1.04	183	0.130	<1	2.32	0.012	0.44	0.3	0.02	6.9	0.2	<0.05	7	<0.5	<0.2
AI0750	Soil	202	1.51	176	0.138	<1	2.62	0.015	0.43	0.2	0.02	6.8	0.2	<0.05	7	0.6	<0.2
AI0800	Soil	70	1.14	223	0.138	<1	2.24	0.025	0.47	0.2	0.02	8.2	0.2	<0.05	7	0.7	<0.2

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	Method	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	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	1
AI0850	Soil	1.8	128.8	7.4	80	0.2	176.5	35.6	504	5.87	199.4	10.4	1.0	21	0.1	0.8	0.3	137	0.16	0.045	4
AI0850X	Soil	2.0	101.6	9.2	77	0.2	120.0	28.1	503	5.27	147.5	8.0	1.2	21	0.2	0.8	0.3	125	0.24	0.046	5
AI0900	Soil	1.6	112.3	7.3	73	0.2	86.7	26.9	588	4.86	108.1	13.5	1.6	31	<0.1	1.3	0.3	130	0.42	0.094	7
AJ0000	Soil	1.4	101.4	9.3	72	0.2	82.1	26.6	568	4.95	133.5	10.9	1.5	35	<0.1	1.3	0.3	119	0.43	0.098	9
AJ0050	Soil	2.1	138.6	10.3	68	0.2	118.0	34.2	621	5.12	76.4	8.4	1.1	25	0.1	1.0	0.3	133	0.30	0.100	6
AJ0100	Soil	1.7	85.0	10.0	77	0.3	81.2	25.6	651	4.81	61.7	119.0	1.3	32	0.2	2.6	0.2	104	0.47	0.103	7
AJ0150	Soil	2.1	72.6	8.0	76	0.2	62.6	27.7	809	3.74	21.6	4.9	0.8	37	0.3	1.1	0.2	92	0.56	0.085	7
AJ0200	Soil	1.8	138.7	8.9	90	0.2	135.2	34.3	814	5.08	80.7	12.5	1.4	40	0.2	3.9	0.3	119	0.64	0.129	8
AJ0250	Soil	1.1	81.6	7.7	83	0.2	124.6	26.0	642	5.08	69.1	12.8	1.5	26	0.1	5.3	0.2	119	0.41	0.118	6
AJ0300	Soil	1.4	86.7	9.1	74	0.3	95.9	24.3	671	4.50	48.2	4.9	1.4	36	0.2	2.4	0.2	118	0.59	0.098	7
AJ0350	Soil	1.3	81.0	6.5	60	0.2	89.0	22.6	570	4.43	36.5	5.0	1.2	31	<0.1	1.8	0.2	114	0.48	0.114	5
AJ0400	Soil	1.3	71.4	7.6	69	0.1	92.4	22.2	578	4.35	45.8	5.1	1.5	22	<0.1	4.3	0.2	93	0.42	0.130	5
AJ0450	Soil	1.2	92.7	6.9	68	0.2	96.1	25.1	588	4.64	30.3	7.0	1.1	26	0.2	1.3	0.2	112	0.33	0.084	5
AJ0550	Soil	1.3	78.3	8.1	59	0.2	83.9	23.7	625	4.68	61.7	14.4	1.2	27	0.2	2.1	0.2	104	0.36	0.104	5
AJ0600	Soil	1.7	87.5	9.5	84	0.3	98.9	30.7	828	5.66	75.6	16.8	1.5	29	0.3	2.8	0.3	128	0.37	0.060	8
AJ0650	Soil	1.6	98.0	11.0	89	0.3	94.2	27.6	723	5.24	66.3	9.2	1.6	30	0.3	5.8	0.2	115	0.42	0.098	7
AJ0700	Soil	1.1	76.7	6.7	61	0.2	82.9	24.2	547	4.09	96.4	24.7	1.1	27	0.1	3.5	0.2	91	0.37	0.135	4
AJ0750	Soil	1.5	74.9	7.8	58	0.1	79.5	23.4	518	4.64	51.6	6.3	1.0	25	<0.1	1.9	0.2	118	0.27	0.068	5
AJ0800	Soil	1.7	107.4	7.7	64	0.2	113.6	34.9	647	5.15	41.5	15.6	1.0	32	0.2	2.6	0.2	122	0.35	0.081	5
AJ0850	Soil	1.2	74.1	8.3	86	0.2	88.9	22.5	679	4.65	75.7	23.8	1.3	24	0.1	4.1	0.2	90	0.35	0.109	5
AJ0900	Soil	1.5	105.7	8.3	65	0.3	97.7	27.9	610	5.06	43.1	6.6	1.3	29	0.2	2.3	0.2	121	0.34	0.086	6
AJ0950	Soil	1.2	90.5	7.1	66	0.2	86.4	24.0	587	4.23	62.6	73.1	1.3	29	0.2	4.5	0.2	85	0.37	0.139	5
AJ1050	Soil	1.5	64.3	9.1	57	0.1	72.6	21.4	552	4.56	41.6	6.8	1.3	23	0.2	3.0	0.2	98	0.29	0.086	6
AJ1100	Soil	1.2	70.8	6.6	71	0.2	79.4	21.9	603	4.20	36.3	6.1	1.0	28	0.2	2.8	0.2	100	0.37	0.068	6
AJ LINE	Soil	1.3	74.2	9.2	87	0.2	89.7	22.5	683	4.84	76.6	11.4	1.4	24	0.1	4.3	0.2	92	0.36	0.112	5
AK0000	Soil	2.0	34.8	11.2	97	<0.1	47.2	13.9	354	4.28	146.9	9.9	1.6	18	0.1	2.9	0.2	105	0.26	0.035	6
AK0050	Soil	1.7	47.0	11.0	77	0.2	55.8	17.9	465	3.93	28.3	4.9	2.1	24	<0.1	1.5	0.2	92	0.25	0.040	8
AK0100	Soil	1.8	56.4	10.5	90	0.2	62.3	19.9	578	4.10	37.1	4.5	2.2	22	0.1	1.4	0.2	97	0.25	0.038	9
AK0150	Soil	1.6	37.9	11.7	103	0.1	52.4	17.0	467	3.75	28.0	5.6	1.5	26	0.2	1.4	0.2	101	0.34	0.057	6
AK0200	Soil	1.1	51.1	8.1	100	0.2	57.8	19.2	563	3.73	24.1	7.1	1.4	34	0.1	1.4	0.2	101	0.43	0.058	6

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Method		1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
Analyte		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
AI0850	Soil	98	1.31	242	0.188	<1	3.05	0.018	0.69	0.3	0.02	8.9	0.3	0.07	9	0.9	<0.2
AI0850X	Soil	87	1.29	219	0.174	<1	2.92	0.016	0.57	0.3	0.02	8.3	0.3	<0.05	9	0.6	<0.2
AI0900	Soil	97	1.40	294	0.191	1	2.80	0.022	0.67	0.2	0.04	9.1	0.3	<0.05	9	<0.5	<0.2
AJ0000	Soil	88	1.32	290	0.159	1	2.70	0.036	0.57	0.4	0.05	7.9	0.3	<0.05	9	1.6	<0.2
AJ0050	Soil	93	1.27	299	0.193	<1	2.83	0.025	0.74	4.2	0.02	9.7	0.4	0.09	9	0.6	<0.2
AJ0100	Soil	72	1.00	230	0.135	2	2.19	0.026	0.48	0.2	0.06	8.1	0.2	0.12	7	<0.5	0.2
AJ0150	Soil	57	0.84	223	0.118	<1	1.81	0.019	0.43	0.2	0.05	4.9	0.2	0.11	6	0.8	<0.2
AJ0200	Soil	105	1.32	270	0.174	<1	2.72	0.022	0.73	0.4	0.15	10.0	0.4	0.14	8	<0.5	<0.2
AJ0250	Soil	120	1.36	249	0.147	<1	2.46	0.014	0.63	0.2	0.03	9.9	0.3	<0.05	8	0.6	<0.2
AJ0300	Soil	104	1.24	291	0.160	4	2.51	0.020	0.65	0.8	0.07	8.6	0.3	<0.05	7	<0.5	<0.2
AJ0350	Soil	86	1.17	257	0.151	<1	2.32	0.016	0.64	0.2	0.02	8.9	0.3	<0.05	7	<0.5	<0.2
AJ0400	Soil	79	1.04	200	0.125	<1	1.93	0.018	0.61	0.2	0.02	8.4	0.2	<0.05	6	0.9	<0.2
AJ0450	Soil	83	1.23	268	0.150	2	2.52	0.015	0.68	0.2	0.01	9.3	0.3	<0.05	7	<0.5	<0.2
AJ0550	Soil	70	0.98	257	0.125	1	2.09	0.014	0.61	0.2	0.01	8.3	0.2	<0.05	6	<0.5	<0.2
AJ0600	Soil	95	1.30	302	0.154	4	2.72	0.016	0.70	0.2	0.02	10.1	0.3	<0.05	8	<0.5	<0.2
AJ0650	Soil	76	1.18	254	0.116	2	2.41	0.018	0.63	0.2	0.03	9.6	0.3	<0.05	7	<0.5	<0.2
AJ0700	Soil	65	0.93	193	0.110	<1	1.83	0.013	0.57	0.3	0.01	7.6	0.2	<0.05	6	<0.5	<0.2
AJ0750	Soil	77	1.21	254	0.151	2	2.59	0.016	0.72	0.2	0.02	8.3	0.3	<0.05	8	<0.5	<0.2
AJ0800	Soil	79	1.26	264	0.149	1	2.72	0.018	0.77	0.1	0.02	8.5	0.4	<0.05	7	<0.5	<0.2
AJ0850	Soil	79	1.06	230	0.099	1	2.03	0.012	0.51	0.1	0.02	8.8	0.2	<0.05	6	<0.5	<0.2
AJ0900	Soil	81	1.23	257	0.152	2	2.72	0.016	0.68	0.1	0.02	8.7	0.3	<0.05	7	<0.5	<0.2
AJ0950	Soil	52	0.84	192	0.102	1	1.74	0.017	0.52	<0.1	0.01	7.3	0.2	<0.05	5	<0.5	<0.2
AJ1050	Soil	65	0.98	183	0.121	2	2.09	0.012	0.56	0.1	0.01	6.9	0.2	<0.05	6	<0.5	<0.2
AJ1100	Soil	81	1.08	219	0.117	2	2.14	0.014	0.53	0.1	0.02	7.1	0.2	<0.05	7	<0.5	<0.2
AJ LINE	Soil	81	1.02	236	0.101	<1	2.02	0.012	0.51	0.2	0.02	8.9	0.3	<0.05	6	<0.5	<0.2
AK0000	Soil	72	0.90	131	0.142	1	2.35	0.011	0.22	0.2	<0.01	5.9	0.1	<0.05	8	<0.5	<0.2
AK0050	Soil	69	0.90	157	0.125	2	2.64	0.016	0.19	0.1	0.02	4.9	0.2	<0.05	7	<0.5	<0.2
AK0100	Soil	78	0.96	168	0.131	2	2.74	0.011	0.20	0.1	0.02	5.6	0.2	<0.05	8	<0.5	<0.2
AK0150	Soil	75	0.96	150	0.158	<1	2.32	0.013	0.35	0.2	0.01	5.4	0.2	<0.05	8	<0.5	<0.2
AK0200	Soil	81	1.05	197	0.152	<1	2.61	0.018	0.43	0.2	0.01	6.6	0.2	<0.05	7	<0.5	<0.2

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Project: Gladstone 2011
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CERTIFICATE OF ANALYSIS WHI11001179.1

Method		1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
Analyte		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
MDL		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	1
AK0250	Soil	1.3	50.8	12.4	100	0.2	61.4	20.6	647	3.97	32.8	6.1	1.5	33	0.2	1.3	0.2	104	0.39	0.064	7
AK0300	Soil	1.8	58.3	13.1	100	0.2	68.3	21.1	684	4.29	37.3	6.4	1.6	29	<0.1	1.9	0.2	110	0.34	0.060	8
AK0350	Soil	1.2	61.8	10.7	103	0.3	68.3	21.3	624	4.24	39.6	7.6	1.4	30	<0.1	1.6	0.2	115	0.37	0.056	7
AK0400	Soil	1.3	60.5	8.9	101	<0.1	68.0	18.1	575	4.23	45.5	7.7	1.5	32	0.1	1.7	0.2	117	0.34	0.052	7
AK0450	Soil	1.5	55.2	12.7	98	0.2	65.6	20.5	621	4.37	39.8	12.7	1.7	40	<0.1	2.0	0.2	116	0.40	0.048	7
AK0500	Soil	1.2	43.0	9.1	95	0.1	52.1	17.1	540	3.72	27.2	5.3	1.2	36	<0.1	0.7	0.2	97	0.48	0.054	6
AK0500 DUPLICATE	Soil	1.0	87.5	8.4	80	0.2	86.3	22.5	564	4.54	43.8	9.1	1.3	20	0.1	1.6	0.2	95	0.31	0.111	5
AK0550	Soil	1.1	45.0	9.0	94	0.1	59.4	17.3	505	3.77	39.7	9.7	1.4	27	<0.1	2.6	0.2	94	0.37	0.077	7
AK0600	Soil	1.8	69.7	13.8	102	0.3	62.3	21.4	660	4.12	35.8	8.4	1.6	33	0.2	1.2	0.2	100	0.39	0.055	10
AK0650	Soil	1.2	71.4	8.6	90	0.3	67.4	19.9	583	3.99	42.9	7.1	1.5	45	<0.1	0.9	0.2	106	0.56	0.059	9
AK0700	Soil	1.0	51.0	10.9	106	0.2	109.2	23.5	657	4.44	46.9	9.5	1.4	35	<0.1	0.9	0.2	140	0.47	0.064	7
AK0750	Soil	2.0	42.9	10.6	97	0.2	59.3	18.3	538	4.27	31.5	4.4	1.7	31	<0.1	0.9	0.2	115	0.38	0.040	7
AK0800	Soil	1.1	36.9	7.8	81	<0.1	48.3	16.7	422	3.40	29.8	4.0	1.1	26	<0.1	0.8	0.1	95	0.37	0.062	6
AK0850	Soil	1.6	56.2	9.9	88	0.2	71.4	18.9	497	4.02	36.6	6.3	1.3	21	<0.1	1.1	0.2	105	0.26	0.032	10
AL0000	Soil	1.4	54.4	11.3	102	0.2	102.5	24.2	593	4.25	60.9	10.2	1.4	38	0.1	0.8	0.2	115	0.42	0.048	7
AL0250	Soil	0.6	66.9	7.0	82	0.3	200.3	23.2	491	3.60	144.1	21.5	1.2	46	0.1	1.3	0.2	88	0.63	0.072	6
AL0300	Soil	0.8	71.7	8.8	80	0.3	173.4	21.1	503	3.56	123.9	18.2	1.2	44	<0.1	1.0	0.2	88	0.61	0.063	7
AL0350	Soil	1.1	71.5	8.8	85	0.2	99.5	20.4	592	3.55	58.6	8.6	0.8	38	0.1	1.0	0.2	94	0.63	0.067	7
AL0500	Soil	2.0	54.6	9.1	100	0.2	90.0	26.0	893	4.94	39.3	29.7	1.5	24	0.1	0.9	0.2	119	0.30	0.047	6
AL0550	Soil	1.6	94.9	7.5	114	0.4	92.6	26.4	809	4.85	54.3	6.6	1.2	33	0.2	0.8	0.2	148	0.44	0.086	7
AL0600	Soil	2.5	55.2	11.1	100	0.1	68.4	22.3	694	4.77	56.1	3.6	1.0	46	<0.1	0.7	0.2	120	0.59	0.081	6
AL0750	Soil	1.4	58.6	10.4	119	0.3	70.1	22.5	648	4.86	37.9	9.7	1.6	27	<0.1	1.1	0.2	125	0.43	0.093	6
AL0800	Soil	1.2	56.3	10.1	93	0.2	60.2	19.9	678	4.46	41.0	8.1	1.1	27	<0.1	0.8	0.2	116	0.41	0.068	6
AL0850	Soil	1.3	59.0	10.6	107	0.2	73.0	23.9	747	5.05	60.3	7.3	1.4	31	0.1	0.9	0.2	139	0.48	0.070	6
AL0900	Soil	1.5	67.4	9.8	94	0.3	70.2	21.6	588	4.45	30.2	5.0	1.1	41	0.1	0.6	0.2	124	0.55	0.058	7
AM0000	Soil	2.1	71.8	13.3	111	0.5	79.2	25.4	780	5.27	32.3	4.1	1.4	35	0.1	0.7	0.3	137	0.43	0.067	9
AM0050	Soil	1.5	66.8	11.3	107	0.3	71.1	21.9	653	4.98	31.5	5.5	1.3	47	0.1	0.5	0.2	128	0.60	0.078	7
AM0100	Soil	1.3	68.9	9.7	102	0.2	118.9	22.8	687	4.88	60.4	13.0	1.8	30	0.2	1.5	0.2	113	0.46	0.086	8
AM0150	Soil	2.1	90.8	12.3	112	0.6	120.9	32.0	1045	5.82	84.2	11.1	1.8	43	0.2	0.9	0.2	124	0.58	0.072	14
AM0200	Soil	1.6	45.3	8.6	95	0.3	60.5	21.9	491	4.48	27.8	5.9	1.9	28	0.1	0.6	0.2	105	0.38	0.086	8

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	Method	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
AK0250	Soil	84	1.02	217	0.162	1	2.62	0.019	0.46	0.2	0.02	6.9	0.2	<0.05	8	<0.5	<0.2
AK0300	Soil	87	1.07	228	0.173	2	2.90	0.016	0.53	0.3	0.02	7.1	0.2	<0.05	8	<0.5	<0.2
AK0350	Soil	90	1.17	219	0.160	<1	2.98	0.018	0.52	0.2	0.02	7.0	0.2	<0.05	8	<0.5	<0.2
AK0400	Soil	96	1.19	232	0.181	<1	2.94	0.019	0.66	0.2	0.02	8.0	0.3	<0.05	9	<0.5	<0.2
AK0450	Soil	96	1.10	218	0.199	<1	2.74	0.022	0.53	0.2	0.03	7.9	0.2	<0.05	8	<0.5	<0.2
AK0500	Soil	76	0.93	172	0.140	1	2.23	0.016	0.53	0.2	0.02	6.2	0.2	<0.05	7	<0.5	<0.2
AK0500 DUPLICATE	Soil	74	1.05	193	0.107	<1	2.09	0.011	0.54	0.2	<0.01	7.8	0.2	<0.05	6	<0.5	<0.2
AK0550	Soil	87	1.01	167	0.140	1	2.42	0.019	0.50	0.2	0.02	6.2	0.2	<0.05	7	<0.5	<0.2
AK0600	Soil	82	1.01	206	0.153	2	2.65	0.016	0.43	0.5	0.02	6.3	0.2	<0.05	7	<0.5	<0.2
AK0650	Soil	97	1.12	223	0.150	2	2.68	0.018	0.43	0.3	0.03	7.1	0.2	<0.05	8	<0.5	<0.2
AK0700	Soil	202	1.69	271	0.231	1	3.20	0.021	0.63	0.2	0.03	10.1	0.3	<0.05	10	<0.5	<0.2
AK0750	Soil	87	1.03	185	0.185	1	2.72	0.016	0.34	0.3	0.02	6.3	0.2	<0.05	8	<0.5	<0.2
AK0800	Soil	73	0.82	195	0.165	1	2.18	0.023	0.47	0.7	0.01	5.8	0.2	<0.05	7	<0.5	<0.2
AK0850	Soil	109	1.14	122	0.139	1	2.84	0.011	0.33	0.2	0.03	6.1	0.2	<0.05	8	<0.5	<0.2
AL0000	Soil	160	1.54	209	0.154	1	2.86	0.017	0.28	0.4	0.03	6.5	0.2	<0.05	8	<0.5	<0.2
AL0250	Soil	137	1.75	147	0.118	2	2.10	0.018	0.35	0.7	0.04	6.1	0.2	<0.05	6	<0.5	<0.2
AL0300	Soil	134	1.71	153	0.118	2	2.30	0.018	0.36	0.4	0.04	6.1	0.2	<0.05	7	<0.5	<0.2
AL0350	Soil	89	1.19	166	0.112	2	2.01	0.017	0.49	0.2	0.03	5.4	0.2	<0.05	6	<0.5	<0.2
AL0500	Soil	91	1.25	233	0.172	<1	2.82	0.015	0.52	0.4	0.02	7.2	0.2	<0.05	9	0.7	<0.2
AL0550	Soil	87	1.35	237	0.160	2	2.93	0.015	0.69	0.2	0.04	8.1	0.3	<0.05	10	<0.5	<0.2
AL0600	Soil	85	1.16	215	0.130	1	2.62	0.013	0.48	0.2	0.03	6.4	0.2	<0.05	9	<0.5	<0.2
AL0750	Soil	86	1.29	242	0.170	<1	3.01	0.016	0.65	0.2	0.02	8.8	0.2	<0.05	10	<0.5	<0.2
AL0800	Soil	87	1.13	226	0.147	1	2.56	0.015	0.62	0.2	0.03	7.9	0.2	<0.05	8	1.0	<0.2
AL0850	Soil	117	1.25	248	0.197	<1	3.05	0.028	0.58	0.2	0.02	9.4	0.3	<0.05	10	0.5	<0.2
AL0900	Soil	102	1.30	261	0.148	1	2.90	0.025	0.52	<0.1	0.04	8.1	0.2	<0.05	9	0.7	<0.2
AM0000	Soil	99	1.25	292	0.168	1	3.20	0.019	0.66	0.2	0.04	8.1	0.3	<0.05	10	<0.5	<0.2
AM0050	Soil	91	1.21	271	0.157	<1	2.98	0.017	0.61	0.2	0.05	8.3	0.2	<0.05	9	0.8	<0.2
AM0100	Soil	146	1.31	296	0.144	1	2.66	0.014	0.67	0.1	0.02	8.7	0.3	<0.05	8	0.6	<0.2
AM0150	Soil	139	1.39	306	0.126	<1	3.31	0.016	0.48	0.2	0.05	9.0	0.2	<0.05	9	0.6	<0.2
AM0200	Soil	79	1.09	223	0.140	1	2.63	0.013	0.45	0.2	0.04	7.2	0.2	<0.05	8	0.5	<0.2

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Method		1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
Analyte		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
MDL		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	1
AM0250	Soil	1.2	60.4	9.3	72	0.2	73.9	22.2	595	4.73	43.7	12.2	2.1	19	0.1	0.9	0.2	108	0.26	0.079	7
AM0300	Soil	1.2	67.5	8.8	85	0.2	83.8	23.2	678	4.94	48.9	8.7	2.3	21	0.1	1.0	0.2	106	0.30	0.107	8
AM0350	Soil	1.0	72.2	7.4	73	0.1	77.8	20.4	582	4.77	43.3	10.4	2.4	20	0.1	1.1	0.2	103	0.32	0.128	8
AM0400	Soil	1.1	68.5	7.3	72	<0.1	77.1	21.2	624	4.70	39.1	10.3	2.5	20	<0.1	1.0	0.2	103	0.32	0.131	8
AM0420 CREEK SAMPLE	Soil	1.2	50.5	8.4	83	0.2	60.9	19.8	453	4.34	35.8	12.3	1.7	23	0.1	0.9	0.1	95	0.36	0.094	7
AM0450	Soil	1.5	87.8	9.6	95	0.3	87.5	24.6	741	5.06	54.2	11.0	1.6	22	0.2	1.4	0.2	101	0.37	0.125	7
AM0500	Soil	1.2	93.4	10.1	92	0.2	96.2	24.5	661	5.46	50.6	25.8	2.2	23	0.1	1.7	0.2	98	0.36	0.133	7
AM0550	Soil	1.6	67.9	11.0	91	0.2	75.6	21.5	674	4.96	47.7	10.3	1.9	26	0.1	1.4	0.2	101	0.35	0.104	7
AM0600	Soil	1.4	75.2	12.8	85	0.2	85.1	25.5	732	5.43	68.0	8.1	1.9	21	0.1	1.8	0.2	107	0.26	0.078	8
AM0650	Soil	1.5	77.0	9.7	85	0.2	87.9	23.1	689	5.49	69.0	52.1	1.8	23	0.1	2.2	0.2	103	0.32	0.109	6
AM0700	Soil	1.3	72.9	12.3	88	0.2	83.3	21.9	696	5.24	71.4	90.5	1.9	23	0.1	2.6	0.2	96	0.34	0.113	6
AM0750	Soil	1.4	71.8	9.3	88	0.1	83.3	21.6	660	4.87	54.8	14.0	2.4	24	0.1	2.5	0.2	93	0.37	0.139	6
AM0800	Soil	1.3	70.9	8.1	72	0.2	76.4	19.3	570	4.94	44.8	12.3	1.9	22	0.1	2.0	0.2	100	0.33	0.134	6
AM0850	Soil	1.4	73.5	7.7	79	0.2	79.2	20.2	586	4.77	35.1	5.9	2.2	23	0.1	1.3	0.2	93	0.33	0.118	7
AM0900	Soil	1.1	62.8	8.2	72	0.1	69.7	17.8	551	4.42	34.3	6.4	2.1	24	<0.1	1.4	0.2	91	0.37	0.128	7
AM0950	Soil	1.4	67.1	9.1	73	0.3	70.8	19.1	584	4.54	41.9	10.5	1.5	25	0.1	2.2	0.2	89	0.37	0.107	6
AM1000	Soil	1.6	80.8	10.6	98	0.1	98.0	25.1	686	4.45	30.3	6.9	1.9	24	0.4	3.7	0.2	94	0.36	0.110	8
AM1050	Soil	1.2	64.7	7.7	74	0.2	64.8	20.9	656	4.31	29.0	6.5	1.2	28	0.2	1.5	0.2	99	0.39	0.080	6
AM1100	Soil	1.1	64.0	6.8	77	0.3	72.0	21.6	626	4.33	29.4	6.8	1.4	28	0.1	1.6	0.2	95	0.37	0.081	6
AM1200	Soil	1.1	66.5	7.4	67	0.2	74.6	22.4	586	4.45	35.0	5.6	1.5	26	0.1	2.4	0.2	99	0.37	0.100	6
AM1250	Soil	1.6	96.0	10.0	79	0.3	93.0	25.6	800	5.13	50.3	13.5	1.5	32	0.1	3.7	0.2	105	0.33	0.080	8
AM1300	Soil	1.2	82.0	7.7	74	0.2	71.9	23.1	683	4.86	64.8	10.3	1.4	23	0.1	1.8	0.2	108	0.29	0.081	6

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Project: Gladstone 2011
Report Date: September 29, 2011

CERTIFICATE OF ANALYSIS WHI11001179.1

Method	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
AM0250 Soil	77	1.16	199	0.139	1	2.55	0.015	0.46	0.2	0.01	7.0	0.2	<0.05	8	0.6	<0.2
AM0300 Soil	91	1.22	226	0.122	<1	2.61	0.011	0.47	0.3	0.02	7.8	0.2	<0.05	8	0.8	<0.2
AM0350 Soil	76	1.19	212	0.122	1	2.42	0.013	0.61	0.3	0.01	8.2	0.2	<0.05	7	0.7	<0.2
AM0400 Soil	75	1.17	228	0.129	<1	2.56	0.015	0.61	0.3	<0.01	7.9	0.2	<0.05	7	<0.5	<0.2
AM0420 CREEK SAMPLE Soil	67	1.00	176	0.105	<1	2.22	0.011	0.37	0.3	0.02	6.9	0.2	<0.05	7	<0.5	<0.2
AM0450 Soil	80	1.11	190	0.101	<1	2.33	0.015	0.51	0.3	0.02	7.1	0.2	<0.05	7	0.7	<0.2
AM0500 Soil	82	1.18	215	0.113	<1	2.45	0.014	0.60	0.3	<0.01	8.4	0.2	<0.05	7	<0.5	<0.2
AM0550 Soil	75	1.09	223	0.096	2	2.25	0.013	0.49	0.3	0.02	7.4	0.2	<0.05	7	0.9	<0.2
AM0600 Soil	85	1.22	224	0.105	<1	2.60	0.014	0.56	0.3	0.02	7.9	0.2	<0.05	8	<0.5	<0.2
AM0650 Soil	80	1.17	230	0.103	<1	2.33	0.012	0.61	0.4	0.02	8.2	0.3	<0.05	7	<0.5	<0.2
AM0700 Soil	75	1.06	224	0.092	<1	2.19	0.011	0.55	0.5	0.01	7.9	0.2	<0.05	7	<0.5	<0.2
AM0750 Soil	73	1.04	189	0.094	1	2.02	0.012	0.50	0.5	<0.01	7.6	0.2	<0.05	6	0.8	<0.2
AM0800 Soil	73	1.11	224	0.114	<1	2.22	0.012	0.64	0.5	0.02	8.6	0.2	<0.05	7	0.6	<0.2
AM0850 Soil	78	1.16	193	0.101	1	2.21	0.011	0.47	0.3	0.02	7.1	0.2	<0.05	7	<0.5	<0.2
AM0900 Soil	70	1.05	194	0.104	<1	2.02	0.014	0.55	0.3	<0.01	7.2	0.2	<0.05	6	<0.5	<0.2
AM0950 Soil	64	0.94	213	0.087	<1	1.95	0.011	0.48	0.7	0.02	7.0	0.2	0.06	6	<0.5	<0.2
AM1000 Soil	63	0.98	188	0.111	2	2.06	0.012	0.52	0.2	0.02	6.8	0.2	0.10	7	0.9	<0.2
AM1050 Soil	64	1.03	230	0.097	<1	2.06	0.014	0.49	0.2	0.02	6.3	0.2	0.08	7	0.9	<0.2
AM1100 Soil	76	1.17	207	0.099	1	2.26	0.013	0.44	0.2	0.04	6.3	0.2	0.06	7	<0.5	<0.2
AM1200 Soil	72	1.08	217	0.109	1	2.08	0.012	0.57	0.2	0.02	7.4	0.3	0.05	7	0.7	<0.2
AM1250 Soil	75	1.19	274	0.094	1	2.57	0.013	0.53	0.2	0.03	8.1	0.3	0.05	8	<0.5	<0.2
AM1300 Soil	69	1.19	251	0.111	1	2.57	0.013	0.46	0.2	0.02	7.6	0.2	0.06	8	<0.5	<0.2

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QUALITY CONTROL REPORT WHI11001179.1

	Method	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	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	1
Pulp Duplicates																					
AF0250	Soil	1.1	30.5	6.8	64	0.2	45.0	17.0	400	3.66	15.7	9.4	1.6	21	<0.1	0.6	0.2	102	0.30	0.081	6
REP AF0250	QC	1.2	30.8	6.5	66	0.2	45.6	17.4	404	3.70	16.6	3.9	1.5	21	<0.1	0.6	0.2	101	0.30	0.084	6
AH0250	Soil	2.1	38.7	11.6	74	0.4	45.8	22.5	703	3.85	20.7	3.7	1.1	27	<0.1	0.6	0.2	98	0.33	0.096	8
REP AH0250	QC	2.1	37.0	11.0	73	0.3	47.3	21.8	723	3.89	20.8	4.2	1.1	27	<0.1	0.5	0.2	101	0.35	0.095	8
AI0300	Soil	1.4	66.3	10.0	99	0.3	65.1	21.2	706	4.18	41.8	18.4	1.5	27	0.2	4.9	0.2	82	0.38	0.084	8
REP AI0300	QC	1.6	67.9	10.6	101	0.3	68.3	21.6	714	4.24	43.8	11.0	1.7	28	0.2	4.9	0.2	85	0.40	0.085	8
AI0850	Soil	1.8	128.8	7.4	80	0.2	176.5	35.6	504	5.87	199.4	10.4	1.0	21	0.1	0.8	0.3	137	0.16	0.045	4
REP AI0850	QC	1.7	126.6	7.5	78	0.2	165.3	34.6	491	5.80	194.4	16.0	1.0	20	0.1	0.8	0.3	132	0.17	0.044	4
AJ0150	Soil	2.1	72.6	8.0	76	0.2	62.6	27.7	809	3.74	21.6	4.9	0.8	37	0.3	1.1	0.2	92	0.56	0.085	7
REP AJ0150	QC	2.1	72.0	8.4	77	0.3	62.3	27.7	797	3.77	22.9	3.6	0.8	39	0.3	1.2	0.2	95	0.56	0.085	7
AK0000	Soil	2.0	34.8	11.2	97	<0.1	47.2	13.9	354	4.28	146.9	9.9	1.6	18	0.1	2.9	0.2	105	0.26	0.035	6
REP AK0000	QC	2.0	34.6	10.9	95	<0.1	48.9	14.9	388	4.43	146.7	4.7	1.6	18	<0.1	2.9	0.2	105	0.26	0.037	7
AK0100	Soil	1.8	56.4	10.5	90	0.2	62.3	19.9	578	4.10	37.1	4.5	2.2	22	0.1	1.4	0.2	97	0.25	0.038	9
REP AK0100	QC	2.0	56.9	11.1	94	0.2	62.5	21.1	595	4.16	37.3	6.1	2.1	22	0.1	1.6	0.2	100	0.23	0.036	9
AL0550	Soil	1.6	94.9	7.5	114	0.4	92.6	26.4	809	4.85	54.3	6.6	1.2	33	0.2	0.8	0.2	148	0.44	0.086	7
REP AL0550	QC	1.6	92.4	8.0	114	0.4	87.6	26.2	837	4.86	53.9	8.5	1.3	34	0.1	0.8	0.2	143	0.46	0.086	7
AM0950	Soil	1.4	67.1	9.1	73	0.3	70.8	19.1	584	4.54	41.9	10.5	1.5	25	0.1	2.2	0.2	89	0.37	0.107	6
REP AM0950	QC	1.3	64.7	9.0	72	0.3	67.8	19.5	557	4.57	42.0	12.5	1.5	26	<0.1	2.3	0.2	91	0.37	0.109	6
Reference Materials																					
STD DS8	Standard	13.9	113.1	126.7	325	1.9	41.0	8.1	632	2.65	26.4	114.5	7.1	79	2.6	6.1	7.1	43	0.69	0.082	16
STD DS8	Standard	12.9	111.2	118.7	297	1.7	38.9	7.4	535	2.34	23.3	102.2	6.4	66	2.3	5.6	6.8	40	0.64	0.074	15
STD DS8	Standard	13.6	123.1	123.8	338	1.9	41.4	8.6	692	2.66	26.8	109.0	6.6	73	2.3	6.0	6.6	47	0.74	0.085	16
STD DS8	Standard	12.0	111.7	118.0	305	1.7	37.9	7.6	600	2.38	24.4	122.0	6.3	59	2.3	6.0	6.6	41	0.65	0.076	14
STD DS8	Standard	14.6	121.7	123.5	337	1.9	42.0	8.4	665	2.64	27.3	111.4	6.6	75	2.4	6.1	6.6	47	0.76	0.088	15
STD DS8	Standard	14.4	118.3	121.9	326	1.9	41.1	8.1	637	2.56	25.9	110.0	6.4	64	2.1	5.6	6.3	45	0.72	0.079	16
STD DS8	Standard	12.2	104.1	131.5	314	1.9	37.0	7.1	612	2.47	25.1	125.7	6.4	65	2.4	5.5	7.0	41	0.68	0.082	13
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08	14.6
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	<1

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QUALITY CONTROL REPORT WHI11001179.1

	Method	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																	
AF0250	Soil	71	1.09	233	0.155	2	2.37	0.013	0.52	0.1	0.03	7.0	0.3	<0.05	8	<0.5	<0.2
REP AF0250	QC	71	1.11	244	0.159	<1	2.47	0.013	0.55	0.2	0.03	7.2	0.2	<0.05	8	<0.5	<0.2
AH0250	Soil	69	0.95	207	0.111	<1	2.30	0.015	0.29	0.1	0.05	6.0	0.2	0.07	7	<0.5	<0.2
REP AH0250	QC	72	0.92	207	0.117	<1	2.22	0.015	0.28	0.2	0.06	6.4	0.2	0.06	7	<0.5	<0.2
AI0300	Soil	55	0.83	205	0.071	1	1.81	0.012	0.36	<0.1	0.03	6.6	0.2	<0.05	6	0.5	<0.2
REP AI0300	QC	57	0.84	207	0.075	1	1.87	0.014	0.38	0.1	0.03	7.1	0.2	<0.05	6	1.0	<0.2
AI0850	Soil	98	1.31	242	0.188	<1	3.05	0.018	0.69	0.3	0.02	8.9	0.3	0.07	9	0.9	<0.2
REP AI0850	QC	91	1.29	242	0.183	<1	3.12	0.017	0.69	0.2	0.02	8.9	0.4	<0.05	9	0.7	<0.2
AJ0150	Soil	57	0.84	223	0.118	<1	1.81	0.019	0.43	0.2	0.05	4.9	0.2	0.11	6	0.8	<0.2
REP AJ0150	QC	58	0.84	228	0.120	1	1.83	0.018	0.42	0.2	0.06	5.2	0.2	0.09	6	<0.5	<0.2
AK0000	Soil	72	0.90	131	0.142	1	2.35	0.011	0.22	0.2	<0.01	5.9	0.1	<0.05	8	<0.5	<0.2
REP AK0000	QC	75	0.88	131	0.146	2	2.44	0.009	0.22	0.2	<0.01	5.9	0.1	<0.05	8	<0.5	<0.2
AK0100	Soil	78	0.96	168	0.131	2	2.74	0.011	0.20	0.1	0.02	5.6	0.2	<0.05	8	<0.5	<0.2
REP AK0100	QC	78	1.04	180	0.131	2	2.76	0.011	0.21	0.2	0.02	5.6	0.2	<0.05	8	<0.5	<0.2
AL0550	Soil	87	1.35	237	0.160	2	2.93	0.015	0.69	0.2	0.04	8.1	0.3	<0.05	10	<0.5	<0.2
REP AL0550	QC	84	1.33	232	0.151	2	2.91	0.015	0.73	0.3	0.03	8.0	0.3	<0.05	10	0.7	<0.2
AM0950	Soil	64	0.94	213	0.087	<1	1.95	0.011	0.48	0.7	0.02	7.0	0.2	0.06	6	<0.5	<0.2
REP AM0950	QC	65	0.99	205	0.091	<1	1.97	0.015	0.49	0.4	0.03	7.1	0.2	0.06	6	0.7	<0.2
Reference Materials																	
STD DS8	Standard	122	0.62	302	0.118	2	1.01	0.110	0.48	3.1	0.19	3.5	5.3	0.11	5	5.9	5.4
STD DS8	Standard	114	0.59	259	0.120	3	0.92	0.091	0.38	2.7	0.18	2.5	5.2	0.16	4	4.2	4.9
STD DS8	Standard	132	0.64	271	0.136	3	0.99	0.103	0.45	2.9	0.22	2.7	5.3	0.18	5	5.2	5.4
STD DS8	Standard	122	0.59	240	0.115	3	0.84	0.075	0.40	2.7	0.21	2.1	5.2	0.15	4	5.6	4.3
STD DS8	Standard	131	0.66	295	0.128	3	1.06	0.095	0.49	3.1	0.20	3.2	5.4	0.24	5	5.0	5.3
STD DS8	Standard	126	0.65	278	0.117	2	0.98	0.100	0.45	3.1	0.20	2.8	5.5	0.17	5	5.2	4.8
STD DS8	Standard	114	0.62	272	0.103	2	0.96	0.110	0.44	3.1	0.22	3.9	5.5	0.15	5	5.1	4.4
STD DS8 Expected		115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

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	Method	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	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	1
Pulp Duplicates																					
AF0250	Soil	1.1	30.5	6.8	64	0.2	45.0	17.0	400	3.66	15.7	9.4	1.6	21	<0.1	0.6	0.2	102	0.30	0.081	6
REP AF0250	QC	1.2	30.8	6.5	66	0.2	45.6	17.4	404	3.70	16.6	3.9	1.5	21	<0.1	0.6	0.2	101	0.30	0.084	6
AH0250	Soil	2.1	38.7	11.6	74	0.4	45.8	22.5	703	3.85	20.7	3.7	1.1	27	<0.1	0.6	0.2	98	0.33	0.096	8
REP AH0250	QC	2.1	37.0	11.0	73	0.3	47.3	21.8	723	3.89	20.8	4.2	1.1	27	<0.1	0.5	0.2	101	0.35	0.095	8
AI0300	Soil	1.4	66.3	10.0	99	0.3	65.1	21.2	706	4.18	41.8	18.4	1.5	27	0.2	4.9	0.2	82	0.38	0.084	8
REP AI0300	QC	1.6	67.9	10.6	101	0.3	68.3	21.6	714	4.24	43.8	11.0	1.7	28	0.2	4.9	0.2	85	0.40	0.085	8
AI0850	Soil	1.8	128.8	7.4	80	0.2	176.5	35.6	504	5.87	199.4	10.4	1.0	21	0.1	0.8	0.3	137	0.16	0.045	4
REP AI0850	QC	1.7	126.6	7.5	78	0.2	165.3	34.6	491	5.80	194.4	16.0	1.0	20	0.1	0.8	0.3	132	0.17	0.044	4
AJ0150	Soil	2.1	72.6	8.0	76	0.2	62.6	27.7	809	3.74	21.6	4.9	0.8	37	0.3	1.1	0.2	92	0.56	0.085	7
REP AJ0150	QC	2.1	72.0	8.4	77	0.3	62.3	27.7	797	3.77	22.9	3.6	0.8	39	0.3	1.2	0.2	95	0.56	0.085	7
AK0000	Soil	2.0	34.8	11.2	97	<0.1	47.2	13.9	354	4.28	146.9	9.9	1.6	18	0.1	2.9	0.2	105	0.26	0.035	6
REP AK0000	QC	2.0	34.6	10.9	95	<0.1	46.9	14.9	388	4.43	146.7	4.7	1.6	18	<0.1	2.9	0.2	105	0.26	0.037	7
AK0100	Soil	1.8	56.4	10.5	90	0.2	62.3	19.9	578	4.10	37.1	4.5	2.2	22	0.1	1.4	0.2	97	0.25	0.038	9
REP AK0100	QC	2.0	56.9	11.1	94	0.2	62.5	21.1	595	4.16	37.3	6.1	2.1	22	0.1	1.6	0.2	100	0.23	0.036	9
AL0550	Soil	1.6	94.9	7.5	114	0.4	92.6	26.4	809	4.85	54.3	6.6	1.2	33	0.2	0.8	0.2	148	0.44	0.086	7
REP AL0550	QC	1.6	92.4	8.0	114	0.4	87.6	26.2	837	4.86	53.9	8.5	1.3	34	0.1	0.8	0.2	143	0.46	0.086	7
AM0950	Soil	1.4	67.1	9.1	73	0.3	70.8	19.1	584	4.54	41.9	10.5	1.5	25	0.1	2.2	0.2	89	0.37	0.107	6
REP AM0950	QC	1.3	64.7	9.0	72	0.3	67.8	19.5	557	4.57	42.0	12.5	1.5	26	<0.1	2.3	0.2	91	0.37	0.109	6
Reference Materials																					
STD DS8	Standard	13.9	113.1	126.7	325	1.9	41.0	8.1	632	2.65	26.4	114.5	7.1	79	2.6	6.1	7.1	43	0.69	0.082	16
STD DS8	Standard	12.9	111.2	118.7	297	1.7	38.9	7.4	535	2.34	23.3	102.2	6.4	66	2.3	5.6	6.8	40	0.64	0.074	15
STD DS8	Standard	13.6	123.1	123.8	338	1.9	41.4	8.6	692	2.66	26.8	109.0	6.6	73	2.3	6.0	6.6	47	0.74	0.085	16
STD DS8	Standard	12.0	111.7	118.0	305	1.7	37.9	7.6	600	2.38	24.4	122.0	6.3	59	2.3	6.0	6.6	41	0.65	0.076	14
STD DS8	Standard	14.6	121.7	123.5	337	1.9	42.0	8.4	665	2.64	27.3	111.4	6.6	75	2.4	6.1	6.6	47	0.76	0.088	15
STD DS8	Standard	14.4	118.3	121.9	326	1.9	41.1	8.1	637	2.56	25.9	110.0	6.4	64	2.1	5.6	6.3	45	0.72	0.079	16
STD DS8	Standard	12.2	104.1	131.5	314	1.9	37.0	7.1	612	2.47	25.1	125.7	6.4	65	2.4	5.5	7.0	41	0.68	0.082	13
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08	14.6
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	<1

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Project: Gladstone 2011
Report Date: September 29, 2011

QUALITY CONTROL REPORT WHI11001179.1

	Method	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
	Analyte	Cr	Mg	Ba	Tl	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																	
AF0250	Soil	71	1.09	233	0.155	2	2.37	0.013	0.52	0.1	0.03	7.0	0.3	<0.05	8	<0.5	<0.2
REP AF0250	QC	71	1.11	244	0.159	<1	2.47	0.013	0.55	0.2	0.03	7.2	0.2	<0.05	8	<0.5	<0.2
AH0250	Soil	69	0.95	207	0.111	<1	2.30	0.015	0.29	0.1	0.05	6.0	0.2	0.07	7	<0.5	<0.2
REP AH0250	QC	72	0.92	207	0.117	<1	2.22	0.015	0.28	0.2	0.06	6.4	0.2	0.06	7	<0.5	<0.2
AI0300	Soil	55	0.83	205	0.071	1	1.81	0.012	0.36	<0.1	0.03	6.6	0.2	<0.05	6	0.5	<0.2
REP AI0300	QC	57	0.84	207	0.075	1	1.87	0.014	0.38	0.1	0.03	7.1	0.2	<0.05	6	1.0	<0.2
AI0850	Soil	98	1.31	242	0.188	<1	3.05	0.018	0.69	0.3	0.02	8.9	0.3	0.07	9	0.9	<0.2
REP AI0850	QC	91	1.29	242	0.183	<1	3.12	0.017	0.69	0.2	0.02	8.9	0.4	<0.05	9	0.7	<0.2
AJ0150	Soil	57	0.84	223	0.118	<1	1.81	0.019	0.43	0.2	0.05	4.9	0.2	0.11	6	0.8	<0.2
REP AJ0150	QC	58	0.84	228	0.120	1	1.83	0.018	0.42	0.2	0.06	5.2	0.2	0.09	6	<0.5	<0.2
AK0000	Soil	72	0.90	131	0.142	1	2.35	0.011	0.22	0.2	<0.01	5.9	0.1	<0.05	8	<0.5	<0.2
REP AK0000	QC	75	0.88	131	0.146	2	2.44	0.009	0.22	0.2	<0.01	5.9	0.1	<0.05	8	<0.5	<0.2
AK0100	Soil	78	0.96	168	0.131	2	2.74	0.011	0.20	0.1	0.02	5.6	0.2	<0.05	8	<0.5	<0.2
REP AK0100	QC	78	1.04	180	0.131	2	2.76	0.011	0.21	0.2	0.02	5.6	0.2	<0.05	8	<0.5	<0.2
AL0550	Soil	87	1.35	237	0.160	2	2.93	0.015	0.69	0.2	0.04	8.1	0.3	<0.05	10	<0.5	<0.2
REP AL0550	QC	84	1.33	232	0.151	2	2.91	0.015	0.73	0.3	0.03	8.0	0.3	<0.05	10	0.7	<0.2
AM0950	Soil	64	0.94	213	0.087	<1	1.95	0.011	0.48	0.7	0.02	7.0	0.2	0.06	6	<0.5	<0.2
REP AM0950	QC	65	0.99	205	0.091	<1	1.97	0.015	0.49	0.4	0.03	7.1	0.2	0.06	6	0.7	<0.2
Reference Materials																	
STD DS8	Standard	122	0.62	302	0.118	2	1.01	0.110	0.48	3.1	0.19	3.5	5.3	0.11	5	5.9	5.4
STD DS8	Standard	114	0.59	259	0.120	3	0.92	0.091	0.38	2.7	0.18	2.5	5.2	0.16	4	4.2	4.9
STD DS8	Standard	132	0.64	271	0.136	3	0.99	0.103	0.45	2.9	0.22	2.7	5.3	0.18	5	5.2	5.4
STD DS8	Standard	122	0.59	240	0.115	3	0.84	0.075	0.40	2.7	0.21	2.1	5.2	0.15	4	5.6	4.3
STD DS8	Standard	131	0.66	295	0.128	3	1.06	0.095	0.49	3.1	0.20	3.2	5.4	0.24	5	5.0	5.3
STD DS8	Standard	126	0.65	278	0.117	2	0.98	0.100	0.45	3.1	0.20	2.8	5.5	0.17	5	5.2	4.8
STD DS8	Standard	114	0.62	272	0.103	2	0.96	0.110	0.44	3.1	0.22	3.9	5.5	0.15	5	5.1	4.4
STD DS8 Expected		115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

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QUALITY CONTROL REPORT WHI11001179.1

		1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		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	1
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	<1
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	<1
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	<1
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	<1
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	<1
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	<1

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		1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
		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
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2