RIDGE and SPUR SOIL GEOCHEMICAL ASSESSMENT REPORT
on the

MARIPOSA PROPERTY for

GORDON RICHARDS (registered owner) & PACIFIC RIDGE EXPLORATION LTD. (optioner) for

Rum Run 1 (YC17658), 3 -13 (YC17660-YC17670), 15 (YC17672), 17 (YC17674), 19 (YC17676)
Rum Run 21-36 (YC20192-YC20207), 44 (YC36188), 46 (YC36189), 48 (YC36190)
Toluamide 1-22 (YC5987-YC76008), 59-64 (YC6045-YC76050)

Dawson Mining District, Yukon
Claim Sheet No 115O/01, 115O/02, 115J/16
Latitude 63° 00' N, Longitude 138° 32' W

Fog Laden Yukon and Stewart Rivers

by
George Norman, P. Geo.
Dec 08, 2010

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SUMMARY

The Mariposa Property ("Mariposa"), acquired in September 2009, by way of an option agreement with the Tintina Syndicate ("Tintina"), grants Pacific Ridge the right to earn a 100% interest subject to a 2% NSR through making cash and shares payments.

The Mariposa property, consisting of 246 mineral claims, covering approximately 50 square kilometers and located approximately 60 kilometres southeast of Underworld's Whitegold discovery, lies within a regional major northwest trending structural corridor hosting gold and copper deposits. This assessment report covers 34 Rum Run claims and 28 Toluamide claims.

The Mariposa property covers a 14 kilometres length of a geological setting analogous to the Whitegold style of gold mineralization. Exploration to date defined an open-ended 7- kilometres length of altered sulphide - bearing quartz mica schist unit that lies adjacent to intrusive and mafic rock units, a setting favorable for hosting a gold-mineralizing system. Gold exploration targets at Mariposa also have aeromagnetic signatures similar to those defined at Underworld's White Gold and Kaminak's Coffee properties. Samples collected from bedrock exposed by placer mining have returned gold values up to 3 grams /tonne from sulphide-bearing rocks.

All streams draining the Mariposa property are known to contain placer gold, of which Scroggie Creek has had a long history of placer gold production which continues today. The placer miners recovery of "hackly" gold nuggets, in the headwaters of Mariposa Creek, may suggest the presence of nearby lode gold sources. Within Geological Survey of Canada Current Research Report 2003-A1, it is noted that "The fragility of the pristine gold crystals system is, consequently, a source on adjacent hillsides is suggested ". The Mariposa Property has seen placer mining for over 100 years and sporadic prospecting, geochemical sampling and minor geophysical work over the past 12 years directed to exploring for the bedrock gold source. The exploration work has been on a limited scale utilizing ridge and spur prospecting and geochemical sampling (rock, soil and silt) and more recently with several localized soil grids throughout the claims.

Geochemical soil sampling by Tintina at the western exposed end of the host schist defined an open- ended two kilometre - long gold soil anomaly containing values above 20 ppb gold and ranging to 1300 ppb gold. Additional soil sampling by Tintina also outlined a second open-ended gold target, measuring a kilometer square and overlying nearby intrusive rocks.

RyanWood Exploration Inc. was contracted to complete reconnaissance deep auger soil sampling along ridges and spurs throughout the 14km long property. The purpose of the program was to check the validity of previously located gold in soil anomalies as previous reports on the area indicated that a horizon of loess had been developed in

some areas of the property. This raised concern because a high percentage of samples were taken from shallowly dug sites by mattock or grub hoe. Field work was carried out Oct. 6, 8 and 9, 2010 during which a total of 307 deep soil samples were collected between Oct 6 and Oct. 9, 2009.

The orientation deep auger soiling was a success as it: 1) showed that Tintina's gold in soil anomaly located north and west of the Scroggie airstrip may be compromised due to shallow sampling of loess material; 2) In an area northerly from the confluence of Scroggie and Mariposa creeks, RyanWood sampling confirmed a previously known gold in soil anomaly outlined by Tintina and 3) A new anomaly was discovered further to the east along the northern side of Mariposa creek.

INTRODUCTION

Assessment work for the ridge and soil deep auger soil program carried out by RyanWood Exploration was applied with renewals of 1 year for the Rum Run 1, 3, 4 to 15, 17, 19, 22 to 36 claims and for 2 years on Rum Run 22, 44, 46 & 48 claims and two years on the Toluamide 1-22, 59 to 64 claims. A total of 94 years were applied.

LOCATION AND ACCESS

The Mariposa Project claims are located 70 km south of the Dawson City airport along Scroggie Creek on map sheets 115O/1 & 2, 110J/15 &16 (Refer to Figures 1 and 2). The property is accessible by fixed-wing aircraft from Dawson City to a 750-meter long north-south airstrip along Scroggie Creek in the west-center of the claims. The property is usually accessible in summer by ATV from Pelly Farm on the north side of Pelly River, 40 km west of Pelly Crossing to Scroggie Creek on RUM RUN 13 quartz claim where a placer mining camp is also situated. From here access by ATV over existing placer mining roads is possible along Scroggie and Mariposa Creeks.

CLAIMS

The Mariposa property consists of 246 quartz claims which located within the Dawson Mining District. The 12 Cigar (# 1- #12 inclusive), 45 Rum Run (#1 to #58 not inclusive) and 143 Toluamide (#1 - #143 inclusive) quartz claims located within NTS map sheets 115O/01 & 02, 115J/15 & 16. The claims are owned by Gordon G Richards (Tintina Syndicate) who optioned them to Pacific Ridge Exploration Sept. 17, 2009. Subsequent to the agreement, Pacific Ridge staked 46 Gertie claims (#1 - #46 inclusive) in late Sept. 2009. This report covers the claims as outlined in the above Introduction; their current expiry dates after this assessment work has been applied is provided in Table I.

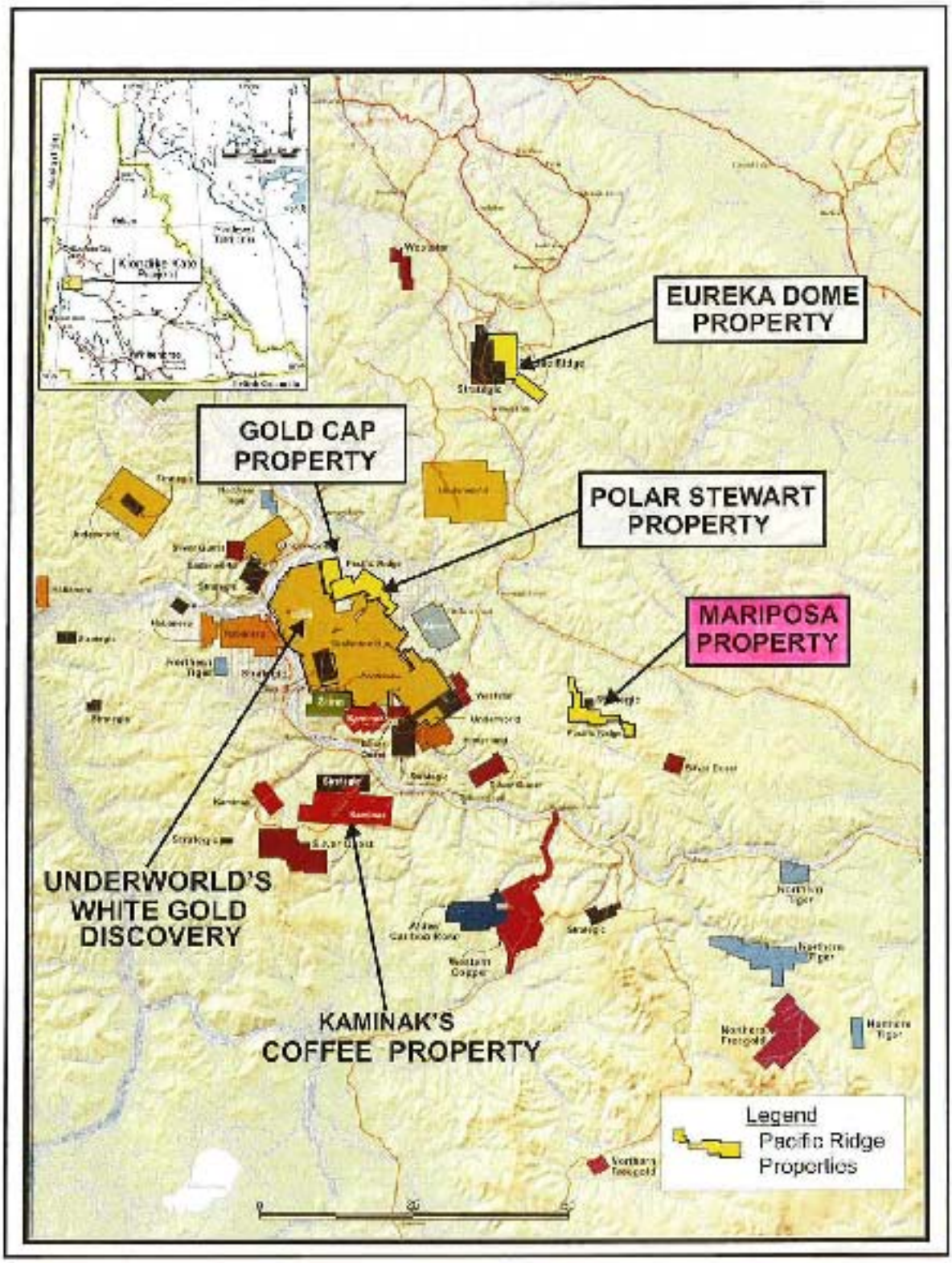


FIGURE 1 LOCATION MAP MARIPOSA PROJECT

Table 1. Mariposa Property Claims Work Applied To

Grant #	Claim Name	Claim #	RecordingDate	Expiry Date	Status	NTS Map #	Ops #
YC17658	Rum Run	1	16/09/1999	16/09/2014	Active	115O02	116187
YC17660	Rum Run	3	16/09/1999	16/09/2014	Active	115O02	116189
YC17661	Rum Run	4	16/09/1999	16/09/2014	Active	115O02	116190
YC17662	Rum Run	5	16/09/1999	16/09/2014	Active	115O02	116191
YC17663	Rum Run	6	16/09/1999	16/09/2014	Active	115O02	116192
YC17664	Rum Run	7	16/09/1999	16/09/2014	Active	115O02	116193
YC17665	Rum Run	8	16/09/1999	16/09/2014	Active	115O02	116194
YC17666	Rum Run	9	16/09/1999	16/09/2014	Active	115O02	116195
YC17667	Rum Run	10	16/09/1999	16/09/2014	Active	115O02	116196
YC17668	Rum Run	11	16/09/1999	16/09/2014	Active	115O02	116197
YC17669	Rum Run	12	16/09/1999	16/09/2014	Active	115O02	116198
YC17670	Rum Run	13	16/09/1999	16/09/2014	Active	115O02	116199
YC17672	Rum Run	15	16/09/1999	16/09/2014	Active	115O02	116201
YC17674	Rum Run	17	16/09/1999	16/09/2014	Active	115O02	116203
YC17676	Rum Run	19	16/09/1999	16/09/2014	Active	115O02	116205
YC20192	Rum Run	21	29/06/2000	29/06/2014	Active	115O02	120181
YC20193	Rum Run	22	29/06/2000	29/06/2014	Active	115O02	120182
YC20194	Rum Run	23	29/06/2000	29/06/2014	Active	115O02	120183
YC20195	Rum Run	24	29/06/2000	29/06/2014	Active	115O02	120184
YC20196	Rum Run	25	29/06/2000	29/06/2014	Active	115O02	120185
YC20197	Rum Run	26	29/06/2000	29/06/2014	Active	115O02	120186
YC20198	Rum Run	27	29/06/2000	29/06/2014	Active	115O02	120187
YC20199	Rum Run	28	29/06/2000	29/06/2014	Active	115O02	120188
YC20200	Rum Run	29	29/06/2000	29/06/2014	Active	115O02	120189
YC20201	Rum Run	30	29/06/2000	29/06/2014	Active	115O02	120190
YC20202	Rum Run	31	29/06/2000	29/06/2014	Active	115O02	120191
YC20203	Rum Run	32	29/06/2000	29/06/2014	Active	115O02	120192
YC20204	Rum Run	33	29/06/2000	29/06/2014	Active	115O02	120193
YC20205	Rum Run	34	29/06/2000	29/06/2014	Active	115O02	120194
YC20206	Rum Run	35	29/06/2000	29/06/2014	Active	115O02	120195
YC20207	Rum Run	36	29/06/2000	29/06/2014	Active	115O02	120196
YC36188	Rum Run	44	28/06/2005	28/06/2013	Active	115J15	154246
YC36189	Rum Run	46	28/06/2005	28/06/2013	Active	115J15	154247
YC36190	Rum Run	48	28/06/2005	28/06/2013	Active	115J15	154248
YC75987	Toluamide	1	07/08/2008	07/11/2013	Active	115O02	183314
YC75988	Toluamide	2	07/08/2008	07/11/2013	Active	115O02	183315
YC75989	Toluamide	3	07/08/2008	07/11/2013	Active	115O02	183316
YC75990	Toluamide	4	07/08/2008	07/11/2013	Active	115O02	183317

YC75991	Toluamide	5	07/08/2008	07/11/2013	Active	115O02	183318
YC75992	Toluamide	6	07/08/2008	07/11/2013	Active	115O02	183319
YC75993	Toluamide	7	07/08/2008	07/11/2013	Active	115O02	183320
YC75994	Toluamide	8	07/08/2008	07/11/2013	Active	115O02	183321
YC75995	Toluamide	9	07/08/2008	07/11/2013	Active	115O02	183322
YC75996	Toluamide	10	07/08/2008	07/11/2013	Active	115O02	183323
YC75997	Toluamide	11	07/08/2008	07/11/2013	Active	115O02	183324
YC75998	Toluamide	12	07/08/2008	07/11/2013	Active	115O02	183325
YC75999	Toluamide	13	07/08/2008	07/11/2013	Active	115O02	183326
YC76000	Toluamide	14	07/08/2008	07/11/2013	Active	115O02	183327
YC76001	Toluamide	15	07/08/2008	07/11/2013	Active	115O02	183328
YC76002	Toluamide	16	07/08/2008	07/11/2013	Active	115O02	183329
YC76003	Toluamide	17	07/08/2008	07/11/2013	Active	115O02	183330
YC76004	Toluamide	18	07/08/2008	07/11/2013	Active	115O02	183331
YC76005	Toluamide	19	07/08/2008	07/11/2013	Active	115O02	183332
YC76006	Toluamide	20	07/08/2008	07/11/2013	Active	115O02	183333
YC76007	Toluamide	21	07/08/2008	07/11/2013	Active	115O02	183334
YC76008	Toluamide	22	07/08/2008	07/11/2013	Active	115O02	183335
YC76045	Toluamide	59	07/08/2008	07/11/2013	Active	115O02	183372
YC76046	Toluamide	60	07/08/2008	07/11/2013	Active	115O02	183373
YC76047	Toluamide	61	07/08/2008	07/11/2013	Active	115O02	183374
YC76048	Toluamide	62	07/08/2008	07/11/2013	Active	115O02	183375
YC76049	Toluamide	63	07/08/2008	07/11/2013	Active	115O02	183376
YC76050	Toluamide	64	07/08/2008	07/11/2013	Active	115O02	183377

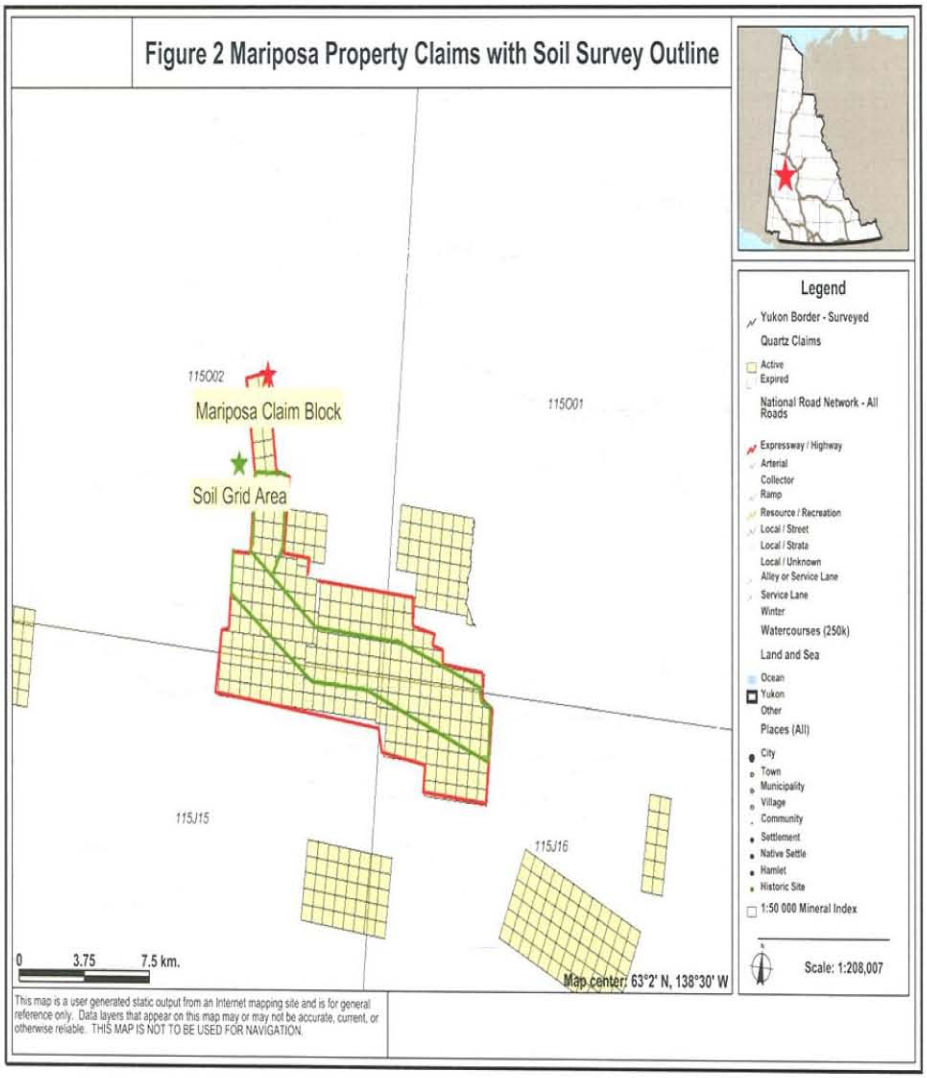


Figure 2 CLAIM MAP with RIDGE and SPUR SOIL SURVEY AREA

HISTORY

(With reference to Gordon G. Richard's Jan 27, 2010 Geochemical Report on the Mariposa Property; Refer to

Placer gold was first discovered in 1898 in Scroggie and Mariposa Creeks and was extensively mined by hand with the aid of steam boilers and points in the early 1900's (Refer to GSC Memoir 97). Two small cuts were mined by tractor, equipped with cable dozer blade in the mid-1950s and caterpillar mining began in 1980 initiated due to high gold prices and has continued uninterrupted until today. Although early records have not been thoroughly researched, approximately 100,000 ounces of gold with a fineness of 905 has been produced from Mariposa and Scroggie Creeks.

A granite batholith mapped by H S Bostock in 1935-37 and shown on GSC Map 711A, Ogilvie, occurs north of the area of placer mining. Schists and gneisses of the Yukon Group underlie the placer mining area. A large body of pyroxenite underlies Pyroxene Mountain to the northeast.

During 1988, mining cuts along Scroggie Creek downstream from Stevens Creek yielded abundant arsenopyrite crystals in the sluice-concentrates over about 300 meters. No source for the arsenopyrite was ever found during the course of excavation for placer mining. In 1990 a black-sand sluice-concentrate, with coarse gold recovered, was analyzed by Chemex Labs for multi-element analyses to determine if other significant metals that might be present in the Scroggie drainage. This concentrate was highly anomalous for several elements including Au, Ag, Bi, Pb, W and Sn which are indicative of intrusion-related gold deposits. Pt and Pd values were also anomalous. Common minerals found in sluice concentrates include gold, magnetite, garnet and kyanite.

Over 100 WINE and FISH Quartz Claims were staked in 1987 over the area encompassing the significant placer gold production area described above. A weak gold anomaly was described in soils north of upper Mariposa Creek. Quartz veins staked in 1917 are described as being located along Mariposa Creek in this same area (Minfile O-075). Other minfile occurrences, in the general include a Cu-Mo occurrence in upper Scroggie Creek, a U occurrence in upper Stevens Creek and a PGM-Au occurrence over Pyroxenite Mt.

Gordon Richards initiated prospecting the area in 1999 and staked the RUM RUN 1-20 quartz claims in Sept 1999. From The following gives a summary of work by Gordon Richards from June 2000 to 2006 on the RUM RUN claims: June 2000: Prospected the general area, conduct representation work on the RUM RUN 1-20 and staked the RUM RUN 21-50 and 53-59 and completed a preliminary examination; July and August 2001: Geochemical sampling, mapping and a VLF – EM geophysical survey was conducted over a portion of the claims; July – August 2003: Magnetometer surveys were initiated in three separate areas and some limited geochemical surveying; Summer of 2005: Infill magnetometer surveying near the south end of the Scroggie airstrip and additional magnetic

survey work on the east side of the property. A VLF-EM survey was initiated to locate Scroggie fault; Summer 2006: An orientation MMI soil survey was completed along selected lines throughout the property. A large portion of the exploration work completed by Gordon Richards has been with the assistance of YMIP grubstake and target evaluation grants.

In 1988, D. Waugh completed work on the Fish 49-62, 81-94 and Wine 25- 57 claims. Most of the work (prospecting and rock sampling) was completed on the FISH 94 claim in an area at the intersection of two structural lineaments. During 2001 Vern Matovitch and Tom Morgan completed prospecting and geochemical rock, soil and silt sampling on the Wolf 1-42 and Pyrex 1-4 claims. In 2009, Gordon Richards completed geochemical soil sampling and rock sampling was completed over selected areas within the Toluamide 1-64 claims.

REGIONAL GEOLOGY

The Yukon-Tanana terrane in the Stewart River area consists of twice-transposed, amphibolite-facies gneiss and schist of mostly of (?) Paleozoic age. Quartz-rich metasedimentary rocks (quartzite, quartz-mica schist, psammite, conglomerate) appear to have deposited during the mid-Paleozoic, rather than the Proterozoic as previously suspected. Broadly contemporaneous amphibolite of intermediate to mafic composition interdigiates with, and lies structurally (and possibly stragraphically) above, the metaclastic rocks. Extensive orthogneiss (including augen granite) intrudes both. The orthogneiss and amphibolite formed the subvolcanic root and volcanic cover, respectively, of a Devono-Mississippian island arc. These rocks served in turn as basement to a Permian magmatic arc, manifested as the Klondike schist and related plutons. A co-magmatic Permian orogeny resulted in extensive transposition and metamorphism of the mid- and late Paleozoic rocks. (geology excerpt from Ryan @ Gordey 2005).

With respect to Figure 3 below, Geology Stewart River Area, after Gordey and Ryan (2005), the Mariposa property is underlaim by Paleozoic units DMa (Amphibolite) and DMps (Quartz Mica Schist). As well a large batholith of early Jurassic EJgd (Granodiorite) underlies the northern section of the claims and further to the northeast outside the claim boundary lies a large body of late Triassic pyroxenite (LTum) known as Pyroxenite Mountain.

EARLY TERTIARY

ETN

ETN: NISLING RANGE SUITE
medium to coarse grained equigranular to porphyritic rocks of intermediate composition (g), fine to coarse grained, equigranular and porphyritic granitic rocks of felsic composition (q) and felsic dyke rocks (f)

f. orange and buff weathering light-coloured feldspar porphyry dyke and flow rocks of intermediate to acid composition

g. biotite-hornblende granodiorite (locally K-feldspar megacrysts), quartz monzonite, quartz diorite; minor granodiorite-gneiss; hornblende and biotite hornblende diorite; biotite quartz feldspar porphyry and porphyritic biotite quartz monzonite **(Ruby Range Suite)**

q. leucocratic, biotite granite; miarolitic alaskite; saccharoidal textured, mafic-poor biotite granite; biotite-hornblende granite to leucocratic granodiorite with sparse, white, alkali feldspar phenocrysts; biotite quartz monzonite **(Nisling Range Suite, Nisling Range Alaskite, Coffee Creek Granite, Annie Ned Granite)**

EARLY JURASSIC

EJgA

EJgA: AISHIHIK SUITE
medium- to coarse- grained, foliated biotite-hornblende granodiorite; biotite rich screens and gneiss schlieren; foliated hornblende diorite to monzodiorite with local K-feldspar megacrysts; may include unfoliated monzonite of the Long Lake Suite **(Aishihik Suite)**

EJL

EJL: LONG LAKE SUITE
mostly felsic granitic rocks (q) but locally grading to syenitic (y)

y. resistant, dark weathering, massive, coarse- to very coarse- grained and porphyritic, mesocratic hornblende syenite; locally sheared, commonly fractured and saussuritized; locally has well developed layering of aligned pink K-feldspar tablets **(Big Creek Syenite)**

q. massive to weakly foliated, fine to coarse grained biotite, biotite-muscovite and biotite-hornblende quartz monzonite to granite, including abundant pegmatite and aplite phases; commonly K-feldspar megacrystic **(Long Lake Suite)**

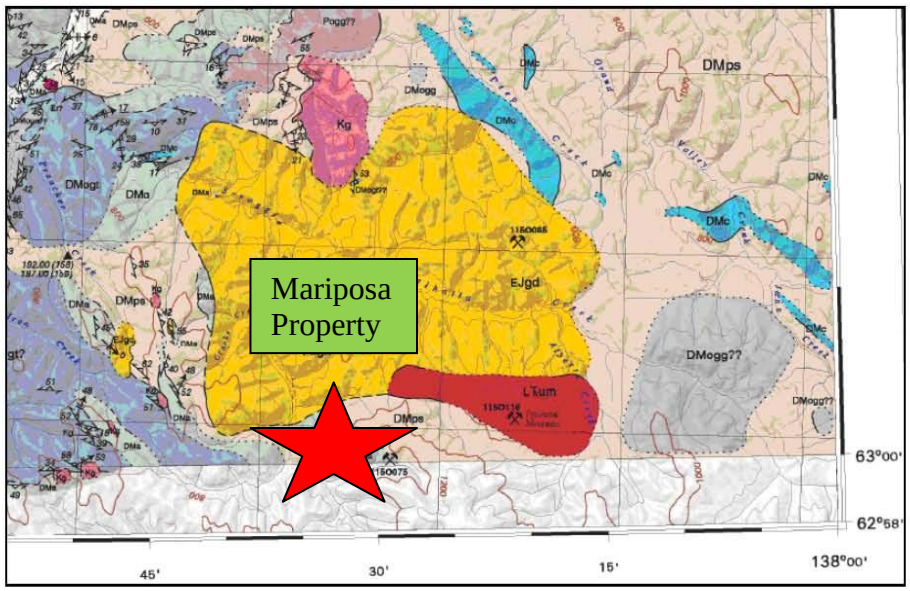


Figure 3 Regional Geology after YK Geological Survey, Open File 4970 (Gordey and Ryan, 2005)

PROPERTY GEOLOGY

(Derived from Gordon G. Richard's Jan 27, 2010 Geochemical Report on the Mariposa Property; also refer to Map 5, RUM Run 2001 Geochemistry and Geology, located in Appendix and map pouch I the back of the hard copy report.)

"The large granitic body exposed on either side of Scroggie and Walhalla Creeks is a coarse white granite near the junction of these creeks but, farther south and east, is more nearly a granodiorite and carries large pink feldspar crystals. Along its southern contact is a zone composed mainly of hornblende and pink feldspar. The body contains numerous xenoliths of the Yukon Group and innumerable pegmatitic intrusions that, in places, make up fully 30 percent of the volume of the rock." (H.S. Bostock, 1942, Map 711A, OGILVIE). Mr. Jim Ryan and others of the Geological Survey of Canada have recently remapped some of the batholith and adjacent areas throughout the Stewart Map Sheet. Based on initial mapping of part of the batholith, Mr. Ryan describes the batholith as a composite intrusive complex with many phases often with diffuse contacts with country rock (personal communication). The area described in this report lies along the southern contact of this batholith. "Granite" in this area contains pink feldspar phenocrysts up to two cm long, plagioclase and quartz. It is often foliated and contains hornblende and lesser biotite of 10 to 20 percent. This fits with Bostock's description of the granodiorite, which term is used throughout this report.

A stock of "granite", separated from the main batholith by three to five km of metamorphic rocks is a coarse-grained, moderately foliated granite composed of one-half cm long quartz grains set in coarse to medium-grained pink feldspar with five to ten percent variably chloritized hornblende and biotite. About 20 percent of the feldspars are white. Mafic biotite-hornblende rich xenoliths are common locally.

A large poorly defined body of pegmatite occurs northwest of the airstrip within the granite batholith. This may be a single large body or more likely an area of intense dyking (see below). It measures three by four km as defined by chips in soil pits, float in creeks, boulders on hillsides and a few outcrops. Dykes of pegmatite can be seen cutting granodiorite outcrop near the miner's camp and along adjacent Scroggie Creek. Pegmatite is typically comprised of 20 – 30 percent quartz, 50 percent Kspar, 20 percent plagioclase and <5 percent biotite plus muscovite. Miarolytic cavities are present but rare. Pegmatite can also be seen as narrow dykes within the country rocks at numerous locations. Pale buff-colored aplite is occasionally seen within the batholith as outcrop and float particularly east and northeast of the miner's camp.

Country rock to the batholith includes schists and gneisses of the Yukon Group. Float and outcrop of metamorphic rocks along Scroggie and Mariposa Creeks display a wide variety of textures. Most common by far are quartz-feldspar-hornblende gneisses of highly variable grain size and texture in places containing garnet of quite variable

size and content. Kyanite, common in placer gold concentrates, is seen in float along most of Scroggie Creek as subround disc-shaped boulders of kyanite-muscovite ± garnet, ± magnetite ± staurolite (?) gneiss and locally in outcrop such as on both sides of Scroggie Creek at the south end of the airstrip. Float of pegmatite, granite and chlorite and biotite rich gneisses is also common. Quartz-eye rhyolite float can be seen in minor amounts along much of Scroggie and Mariposa Creeks.

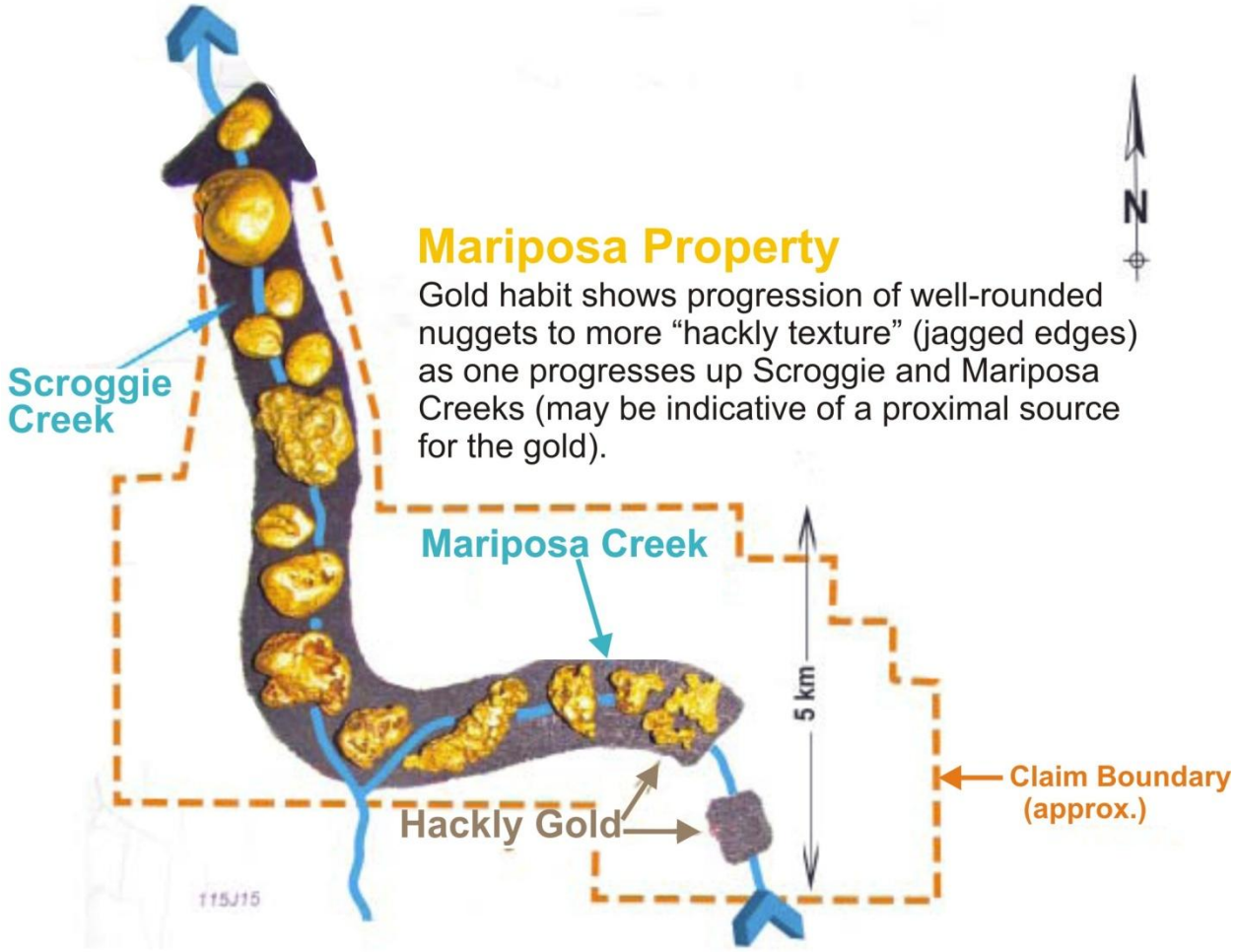
A quartz-muscovite +- garnet schist unit, QMS, up to a few hundred meters thick has been mapped across the area from Mariposa Creek to Cabin Creek. The unit is not massive as intercalations of other schists and gneisses do occur within it as can best be seen on the placer-mined bench opposite the mouth of Stevens Creek. Its muscovite content, generally five to twenty percent but locally over 90 percent, characterize it. Weathering of pyrite, usually forming less than one percent, has produced a distinctive orange surface. The unit strikes northwest and dips about 45 degrees northeast except near Scroggie Creek. Nearing Scroggie Creek from the east, strikes become progressively more northerly and dips steepen to near vertical. This change could be caused by drag along an unexposed north-south fault with right lateral sense of movement. In 1986 during placer mining, the unit along Lower Mariposa Creek was seen by the writer (Gordon Richards) to terminate against a sharp fault. The similar rock type mapped further north of this point may be a faulted offset of the same unit and not a repetition. The unit continues east along Mariposa Creek drainage for several km.

South of the QMS unit along Scroggie Creek, from Mariposa Creek to north of Stevens Creek, a dark green to grey chlorite-biotite gneiss with fine laminations and locally with augen of pink feldspar makes a distinctive unit at least several hundred meters thick. It outcrops across the floor of Scroggie Creek as seen during the course of placer mining in the late 1980's and now evidenced by the abundance of angular pieces of this rock type on the placer tailing piles. A typical specimen shown to Mr. J Ryan of the G.S.C. was identical to rocks mapped as diorite orthogneiss further west along Barker Creek and elsewhere in the general area. North of the quartz-muscovite schist, outcrops of quartzo-feldspathic gneiss containing variable amounts of hornblende and garnet make up the bulk of the exposed country rock.

The Scroggie Creek drainage in the area of this report is described as unglaciated (Duk-Rodkin 1999, G.S.C. O.F.3694). Mr. Lionel Jackson of the G.S.C. suggested older glacial periods of greater than one my bp could have affected the area. During a placer test in the late 1980s of a bench immediately above the southwest corner of RUM RUN 59 (now lapsed), the writer examined material that looked like till. Large rounded boulders and till-like soils occur in the headwaters of Mariposa Creek. It is curious that oxidation of sulfides is absent or only shallowly developed at best on the property whereas elsewhere in unglaciated terrain it is deeply developed. The Casino porphyry Cu-Mo deposit, 25 km south is deeply leached, in places to over 100 meters. Loess is present on hillsides as was seen in two pits dug in 2001.

Placer gold along Scroggie airstrip and upstream is very rounded. Along Mariposa Creek the gold is more angular and textured. Placer gold in upper Mariposa where it was mined in the late 1980's was reported as rough and hackly possibly indicating a nearby bedrock source. Gold collected in 2009 at the bend in Mariposa Creek about one-half way up the creek is intermediate between these textures. The Toluamide claims were staked in to cover this exploration target.''

See photographic representation of the textural changes and locations in Figure 3 and 4.



GOLD NUGGET TEXTURES FROM SCROGGIE AND MARIPOSA CREEKS

FIGURE 4

PREVIOUS WORK SUMMARY

(With reference to Gordon G. Richard's Jan 27, 2010 Geochemical Report on the Mariposa Property)

Previous work, described in previous assessment reports by Gordon Richards, subdivided the property into three areas named the Pegmatite Zone, the QMS Zone and the East Zone.

The Pegmatite Zone occurs on the RUM RUN 1-20. Gold mineralization occurs associated with pegmatite dykes along Scroggie Creek. Gold values up to 3020 ppb Au occur associated with very fine sulfide in quartz breccias within dykes of pegmatite cutting the foliated medium-grained hornblende granodiorite. Immediately to the west, on a moderate sloping hillside devoid of outcrop, soil samples are geochemically anomalous for gold over a one-km diameter area. The rocks and some soils are moderately anomalous for Mo, Pb and Sb. Rock chips in soils and float in creeks indicate this area occurs within a large pegmatite body or intense dyke swarm about three km in diameter. A north trending fault is believed to occur along Scroggie Creek, from evidence collected further south, and may form the east boundary of the large pegmatite body.

This fault and associated splays are targets for gold mineralization. The quartz-breccia sulfide mineralization within pegmatite dykes would have to be more continuous and higher grade if similar mineralization exists under the gold soil anomaly west of Scroggie Creek to be of interest. During June 2001, the placer operator on Scroggie Creek, Mr. Zdenuk Bidrman, showed the writer two gold-quartz pebbles measuring about two cm in maximum dimension. Mr. Bidrman described the collection of about fifty other smaller gold-quartz pieces together with the two larger pieces from a small area of placer mining west of C184 tight against the bank. About one-quarter of the volume of the gold-quartz pieces is gold (See Photo 2) Such pieces, though not common, were occasionally seen by the writer in placer concentrates during his mining of Scroggie and Mariposa Creeks from 1985 to 1992. The occurrence of numerous pieces of gold-quartz pebbles in one restricted area could come from several possible sources. They could be caused by gold-quartz weathered from nearby bedrock or from disintegration of a single or few pieces of gold-quartz weathered from a source previously several thousand feet above the present land surface. The first possibility offers a target worthy of pursuing as small volume high-grade veins associated with the north trending fault and has been suggested by others. "The fragility of the pristine gold crystals projecting from the class suggests that they were not transported far following their introduction into the fluvial system. Consequently, a source on adjacent hillsides is suggested." (Rottweiler, P.N. GSC Current Research 2003-A1).

The QMS Zone occurs on the RUM RUN 21-40. A quartz muscovite schist unit (QMS) was crudely mapped from chips in soil pits across these claims over a strike length of 1500 m open to the northwest. The unit is eventually terminated against the granite-pegmatite intrusive complex in this direction, but extends over ten-km east along Mariposa Creek where it includes the East Zone. Soil results indicated strong geochemically anomalous patterns for Au, As, Bi, Pb, Te, S and Zn over the QMS Zone. Outcrops are very rare on the hillside within the anomalous

patterns but a 45-degree northeasterly dip to foliation within the QMS, and adjacent units nearby, has been well documented. Attitudes steepen to near vertical with a northerly strike along Scroggie Creek. This change of attitude is believed to be related to drag along a north-south fault along Scroggie Creek. Well-formed arsenopyrite crystals were abundant within gold placer concentrates along the portion of Scroggie Creek underlain by the QMS unit as seen by the writer in the late 1980's. The placer gold collected from this area of Scroggie Creek was also unique in being coated by a fine, deep-blood-red powder. The arsenopyrite could be related to gold mineralization associated with the north trending fault or to mineralization related to the anomalous geochemical patterns.

In the QMS target, the occurrence of anomalous Au-Bi-As-Pb in soils with Sn-W in Au placer concentrates within high-grade metamorphic in association with granite and pegmatite is indicative of exothermal intrusion related gold mineralization. The anomalous geochemical patterns are obviously large enough to contain a sizeable gold deposit.

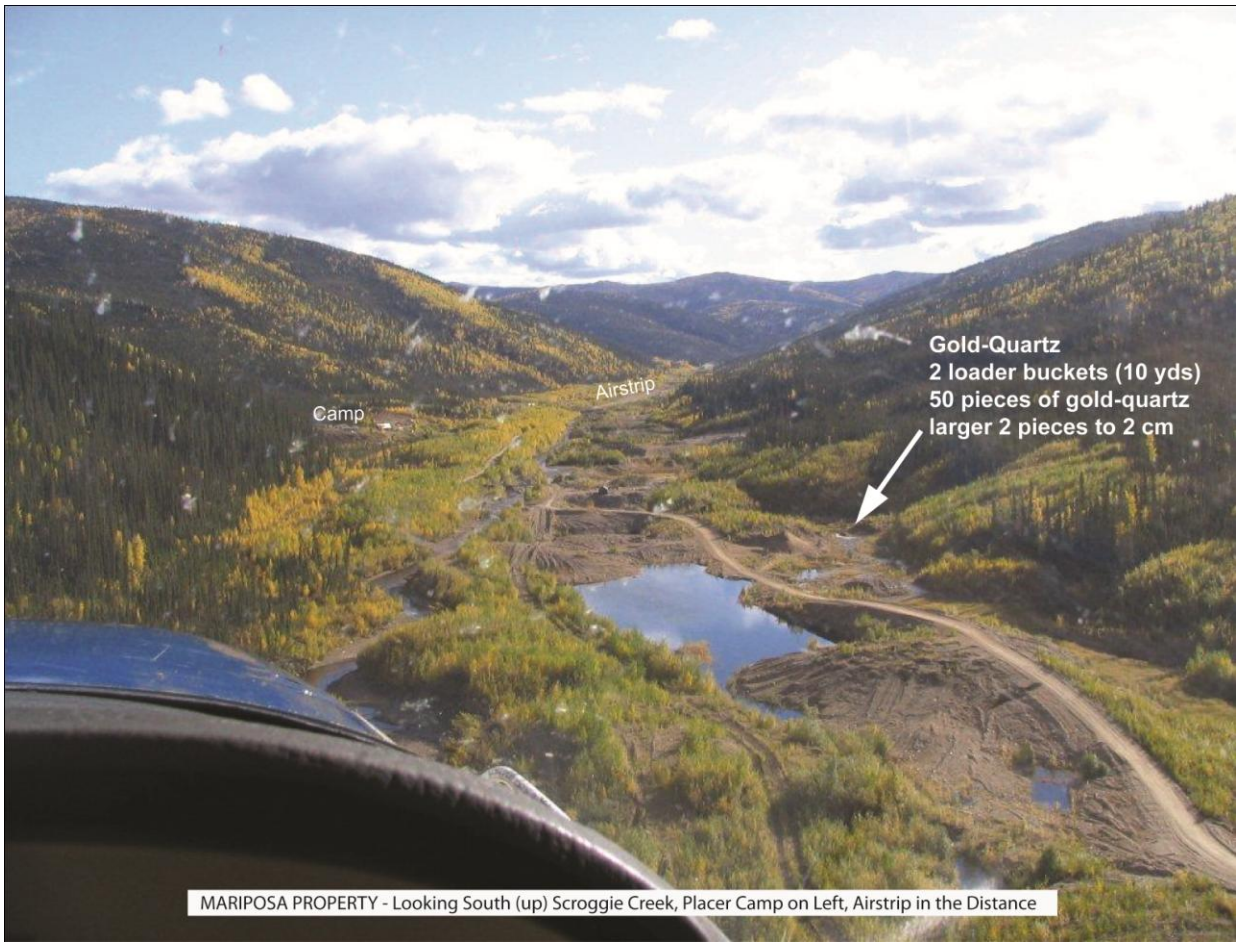


Photo 2 Gold with Quartz Nuggets

ADDITIONAL PREVIOUS WORK

In 1988, D. Waugh completed work on the Fish 49-62, 81-94 and Wine 25- 57 claims. Most of the work (prospecting and rock sampling) was completed on the FISH 94 claim in an area of the intersection of two structural

lineaments. Rock chip samples (179) were collected along two control lines. Samples were analyzed by Katz River Lab with most samples returning very low results, except for 3 samples (RR-6, 7 & 14) which gave 3.1, 2.6 and 2.0 g/t Au (Refer to Figure 5, Mariposa Property Compilation Map).

During 2001 Vern Matovitch and Tom Morgan completed prospecting and geochemical rock, soil and silt sampling on the Wolf 1-42 and Pyrex 1-4 claims. Sampling of a 2 meter chip sample (WF-21-R-018) located at UTM 07V 0625486E and 6987507N returned 2530 ppb Au. This sample is located proximal to the mouth of the first southerly flowing tributary of Mariposa Creek (Refer to Figure 5, Mariposa Property Compilation Map.

Work in 2009 performed by Gordon Richards was designed to further evaluate the strength and extent of the QMS multi-element geochemical anomaly and initiate the geochemical assessment of the Toluamide 1-64 claims staked in 2008. Subsequent to this work, the Property was optioned to Pacific Ridge Exploration who has initiated a compilation of all previous work.

The 2009 soil geochemical surveying work on the QMS multi-element anomaly confirmed that anomalous gold extends north of Cabin Creek, the east flowing creek that enters Scroggie Creek at the south end of the airstrip. Anomalous samples for gold include: K1-164 ppb Au, K2-15 ppb Au, and K18-16 ppb Au. Bi, As, and Pb are anomalous in sole of these or adjacent samples: K17-2 ppm Bi, 17 ppm As and 88 ppm Pb; K18 33 ppm Bi, 17 ppm As and 80 ppm Pb. The data indicates that the northern contact of the QMS lays at the southern limit of soil samples with associated anomalous gold and pathfinder elements. However, the main QMS target lies to the south of the present soil samples.

Rock and soil samples collected from the east facing hillside above Scroggie Ck are shown on the inset on Map 1. The hillside was laid visually open after an intense fire swept across the hillside in 2009. White quartz rich boulders stood out against the fire-blackened earth and were sampled along a contour traverse (See Photo 4). More similar boulders occurred uphill but were not sampled. Best results were from sample R117 with 787.4 ppb Au, 4222.4 ppm Cu and 351 ppm Pb.

Anomalous gold soils were collected near the quartz-rich boulders with values to 26 ppb Au and a higher value of 97 ppb Au about 50 m north of the area of quartz-rich boulders.

Three groups of soils collected by Gordon Richard`s crew include the J and R series samples as shown on Map 3. The westerly two groups, J56-J78, R64-R73 and J79-J114 were both collected north of the QMS returned spotty anomalous gold to 122 ppb at J108.

The other group of soil samples at the east limit of the survey and lying east of the headwaters of Mariposa Creek provides a more consistent grouping of anomalous gold as shown on Map 1. Gold values range up to 256 ppb Au at

R36 but in general range from 5 to 46 ppb Au. This pattern of anomalous gold is open to the north and west. Many of the soil pits in this area were frozen and thus soils collected were sub-standard and included minor amounts of organic material.

The several rock samples collected from the Western Claims area. Two were samples of a fault gouge exposed in the floor of a 25 m wide placer mining cut that has exposed limonitic QMS along Mariposa Creek. No anomalous gold values were returned.

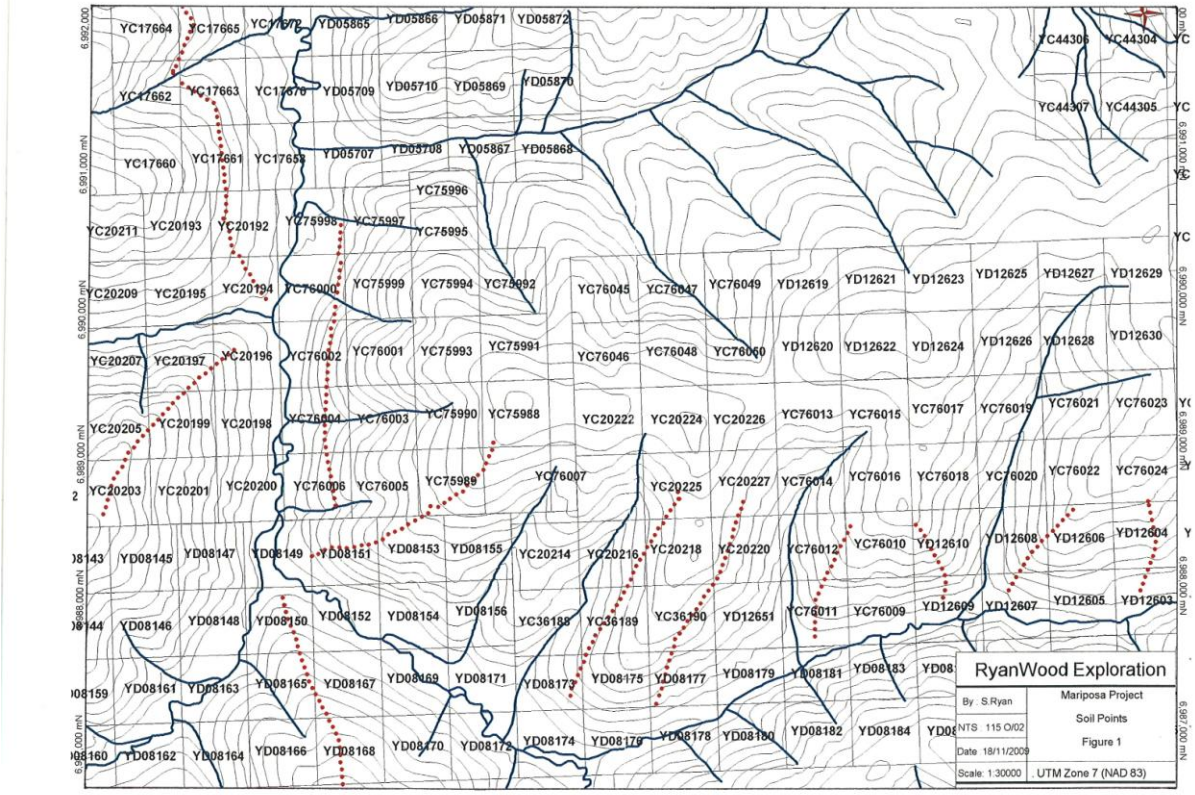


Figure 5 CLAIM MAP with RIDGE and SPUR SOIL SAMPLE SITES

2009 WORK PROGRAM : RIDGE and SPUR SOIL SAMPLING METHODOLOGY

Geochemical soil sampling by Tintina at the western exposed end of the host schist defined an open- ended two kilometre - long gold soil anomaly containing values above 20 ppb gold and ranging to 1300 ppb gold. Additional soil sampling by Tintina also outlined a second open-ended gold target, measuring a kilometer square and overlying nearby intrusive rocks. RyanWood Exploration Inc. was contracted to complete reconnaissance deep auger soil sampling along ridges and spurs throughout the 14km long property. The purpose of the program was to check the validity of previously located gold in soil anomalies as previous reports on the area indicated that a horizon of loess had been developed in some areas of the property. This raised concern because a high percentage of Tintina samples were taken from shallowly dug sites by mattock or grub hoe.

A total of 307 deep auger soil samples were collected from ridge and spur locations as per outlined in Figure 3 above. Sampling in some areas was hampered by permafrost conditions. All samples were taken with an Edelman Dutch auger at an average depth of 70 centimeters. Soil sample locations were marked in the field with pink flagging and aluminum tags. The sample number is inscribed on the aluminum tag and attached to a tree or shrub at shoulder height above the sample site.

The sample site location is located in the field and recorded with a Garmin Map 76 GPS in UTM NAD 83 coordinates. Sample description such as color, depth, slope, sample quality, ground vegetation, tree cover and GPS coordinates are recorded in a Palm PDA data recorder. A total of 400-500 grams of soil is collected and placed in a kraft sample bag (Sample number is written on the bag with a felt marking pen).

The GPS and PDA are down loaded every night and stored in the crew chief's personnel computer. A second backup of the data is transferred to a memory stick which is stored at a separate location in case of fire. The samples air dried packed in rice shipping bags and sent to ACME labs located in Vancouver, B.C.

The samples were analyzed utilizing ACME's Aqua Regia digestion ICP-MS analysis for 36 elements, IDX2-15gram package, the results of which are given in Certificate of Analysis VAN09005508.1 and shown in Appendix I The results are also displayed in Maps 1 (Sample Number I.D.) and Map 2 Mariposa Project Ridge and Spur Soil Gold Geochemistry. Maps 3 and 4 have been included to show additional Tintina soil geochemistry not shown on the Rywood Exploration produced maps.

INTERPREATION RIDGE AND SPUR GOLD SOIL GEOCHEMISTRY

Analytical results for gold in soils at Mariposa project are presented in Appendix II; Maps 1 and 2. Additionally paper copies are located in plastic map pouches located at the back of hard copy reports.

Within the north western portion of the property and westerly from the Scroggie airstrip, RyanWood samples (MPA83951-MPA83980) show that a Tintina's gold in soil anomaly which spans 750m may be compromised due to shallow sampling of loess. Results from Tintina sampling indicate anomalous values in the 20 to 75ppb range are located 300m to 1000 m northerly from a RyanWood deep auger soil anomaly of similar tenor.

No statistical analysis of the data was completed due to the small population of samples collected. Gordon Richards, vendor of the project generally considered that gold values greater than 10 ppb Au were of interest for the Mariposa area.

In an area northerly from the confluence of Scroggie and Mariposa creeks RyanWood sampling (MPA87900-MPA87953) confirmed a previously known gold in soil anomaly outlined by Tintina which returned values up to 1333ppb Au. The RyanWood soil line passed just westerly from the main anomaly and returned a weakly anomalous value of 12ppb. As well 1.5 km to the east, RyanWood samples (MPA87857-MPA87873) also confirmed elevated gold values up to 12 ppb gold in an area where Tintina soil line R63-R73 crosses and which returned 15ppb Au..

In addition to the two areas mentioned above, a new anomaly was discovered by RyanWood ridge and spur deep auger soil sampling further to the east along the northern side of Mariposa creek along line o0f soils MPA81783-MPA81796. Elevated gold values range from 8.2 to 15.4 ppb over 200m.

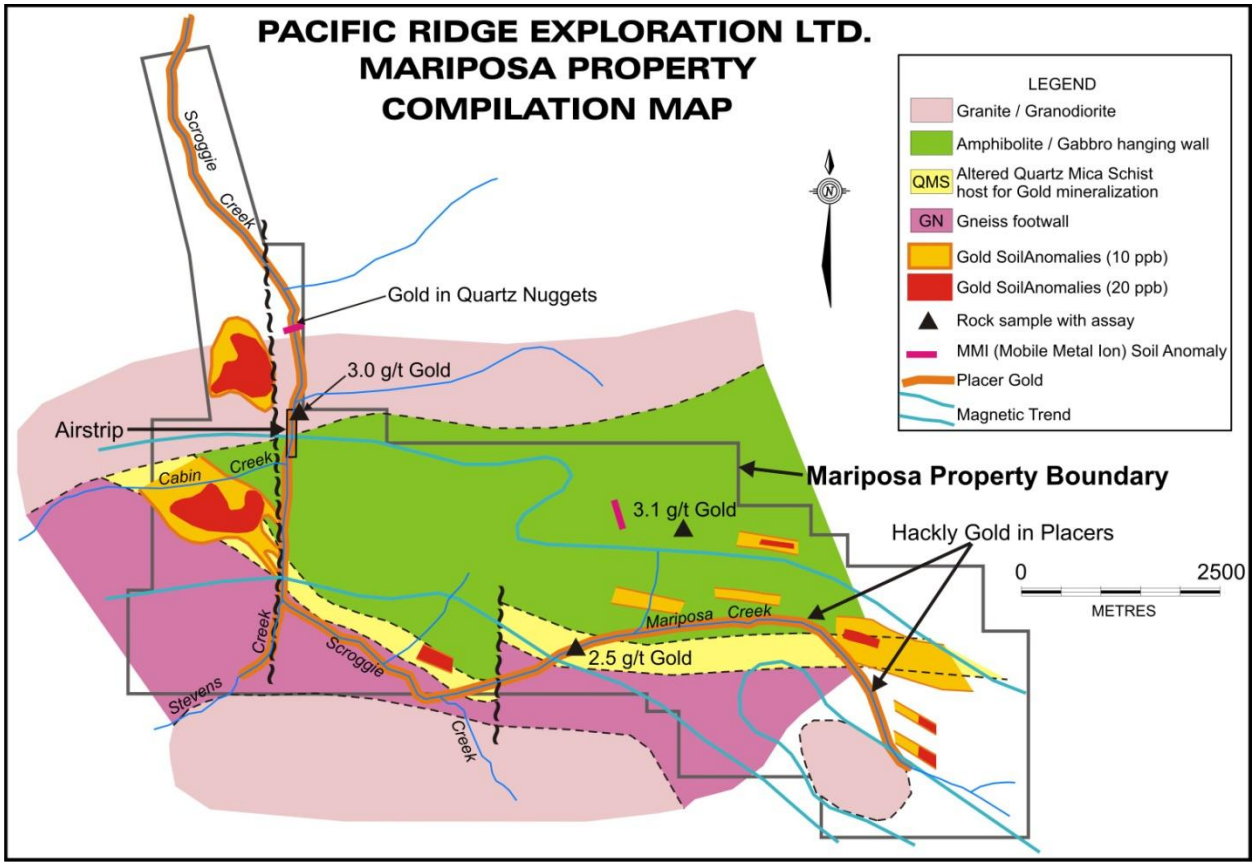


FIGURE 6

RECOMMENDED CONTINUED EXPLORATION

The Mariposa Property has seen placer mining for over 100 years and sporadic prospecting, geochemical sampling and minor geophysical work over the past 12 years directed to exploring for the bedrock gold source. The prior exploration work has been on a limited scale utilizing ridge and spur prospecting and geochemical sampling (rock, soil and silt) and more recently with small sporadic soil small soil grids throughout the claims. Results to date (as of Dec 2009) are sufficient to warrant focus on priority selection of drill targets through completion of property wide surveys including deep auger soil sampling, ground geophysics (magnetometer surveys; Refer to Figure 5 for Regional Magnetics corridor which trends through the Mariposa Property) and follow-up trenching and drilling. Pacific Ridge`s soil sampling survey will be Phase I of this work.

The exploration data collected to date indicates that a bedrock source for the placer gold may be close by as highlighted by the following gold showings and anomalies:

1) The gold anomalous QMS zone west of Scroggie Creek has been shown to extend up to 1700 m from Scroggie Creek to the northwest. The southeast end of this zone is co-incident with placer mining cuts that yielded abundant pristine arsenopyrite crystals in the placer concentrates in the late 1980's. The north trending Scroggie

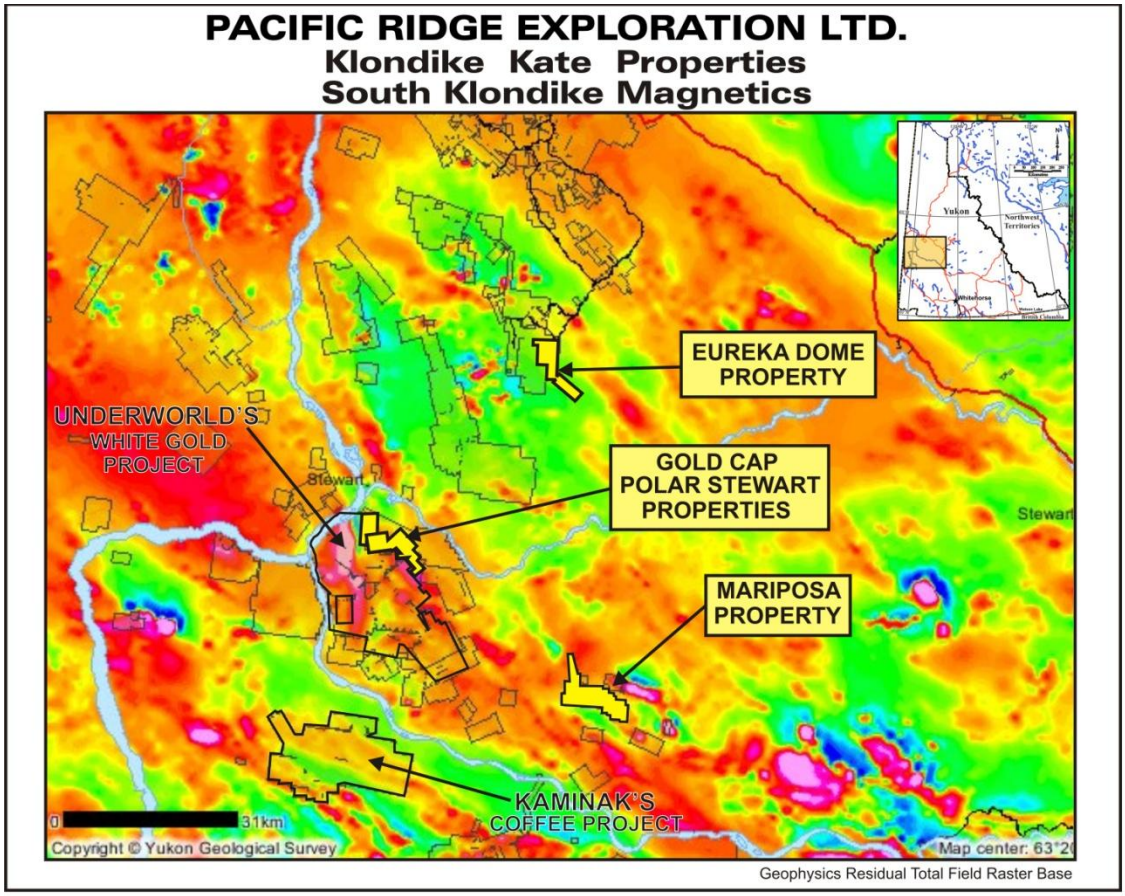


FIGURE 7 SOUTH KLONDIKE REGIONAL MAGNETICS

fault which has been shown to contain anomalous gold also intersects this area. The centre of this soil anomaly contains abundant quartz rich float containing anomalous gold to 784 ppb Au, minor chalcopyrite, and leached sulphide within quartz muscovite schist (QMS) which dips 45 degrees northeast towards granite. The quartz rich zone could extend over much of the 1700 m length of anomalous gold (See Photo 3). The QMS in this area is limonitic over much of its 100-300 m width and 1700 m length.

2) A gold in soil anomaly (RyanWood results indicate that the anomaly is located approximately 500 southerly from where Tintina sampling had originally indicated) lies northwest from the airstrip and upslope from Scroggie Creek where gold with quartz nuggets have been placer mined in past. Also bedrock sampled from a

placer mining cut in Scroggie Creek (north end of airstrip) returned 3020 ppb Au associated with very fine sulphide in quartz breccias within dykes of pegmatite cutting foliated medium grained hornblende granodiorite.

Photo 3 QUARTZ RICH ROCK 08. g/t Au and 0.4% Cu (located within gold in soil anomaly)

3) Placer gold mined along Scroggie Creek has been shown, over the past 30 years of mining, a change in gold nugget texture from very smooth and rounded to progressively more textured or "hackley" appearance commencing from the area of the airstrip and moving upstream along Scroggie and Mariposa Creeks. Further upstream placer mining by Yardley in the late 1980's along upper Mariposa Creek was described by the Gordon Richards' partners (in their years of placer mining) as producing very rough and hackly gold possibly indicating a nearby source of the gold (Refer to Figure 3). Anomalous gold in an area of approximately 600m X 1000m with values up to 256ppb Au (with a +- 10 ppb threshold) has been located to the east from the bend in Mariposa Creek and in close proximity to where the hackly textured gold nugget was described (Refer to Photo 5).

4) Sampling in 2001 of a 2 meter chip sample (WF-21-R-018) of a granite dyke granite with disseminated sulphides returned 2530 ppb Au. This sample is located proximal to the mouth of the first southerly flowing tributary of Mariposa Creek. Anomalous gold in soils up to 1330 ppb have been located in an area underlain by Quartz Muscovite Schist upslope from the sample site.

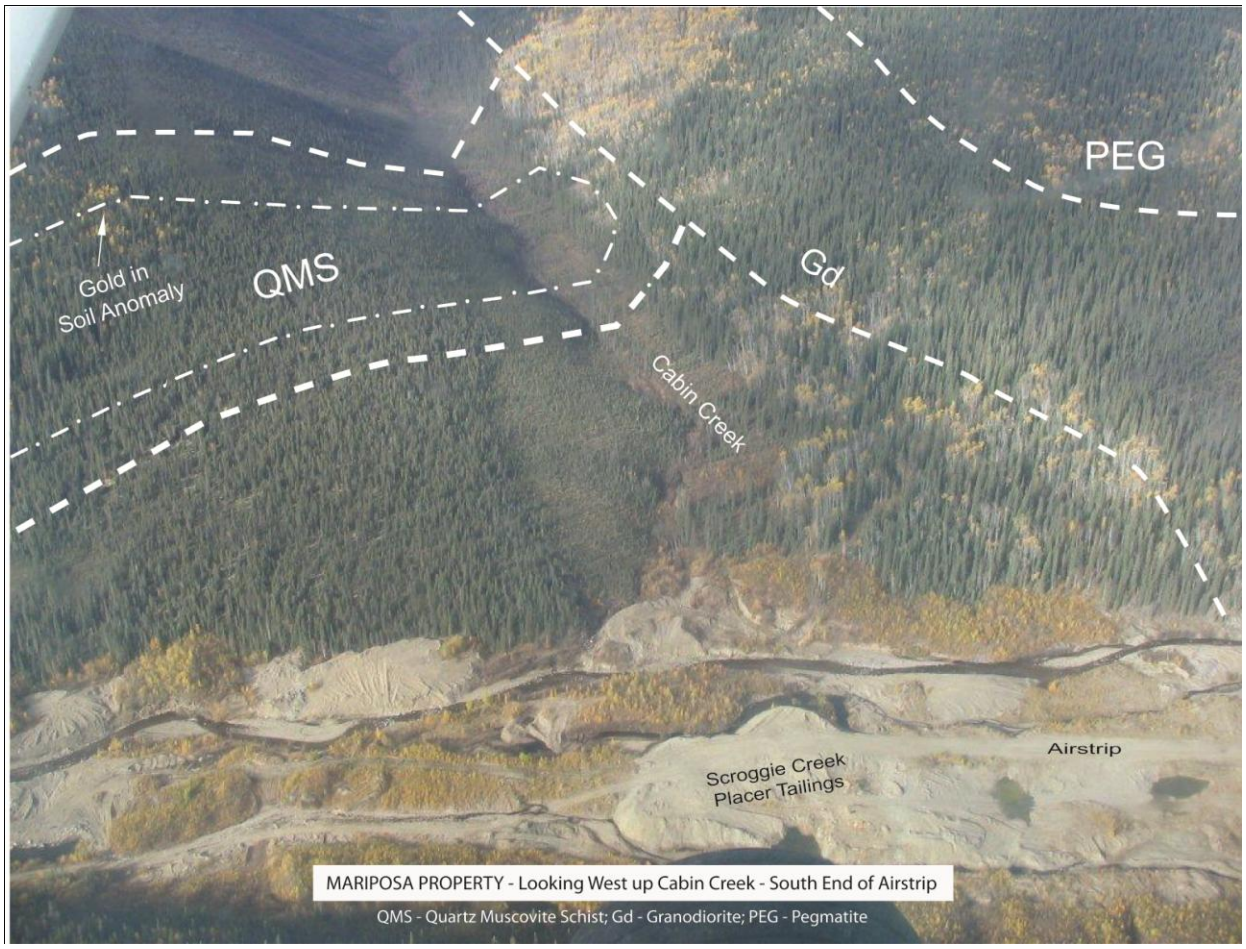


PHOTO 4 Gold in Soil Anomaly Scroggie/Cabin Creeks (Picture taken before 2009 fire)

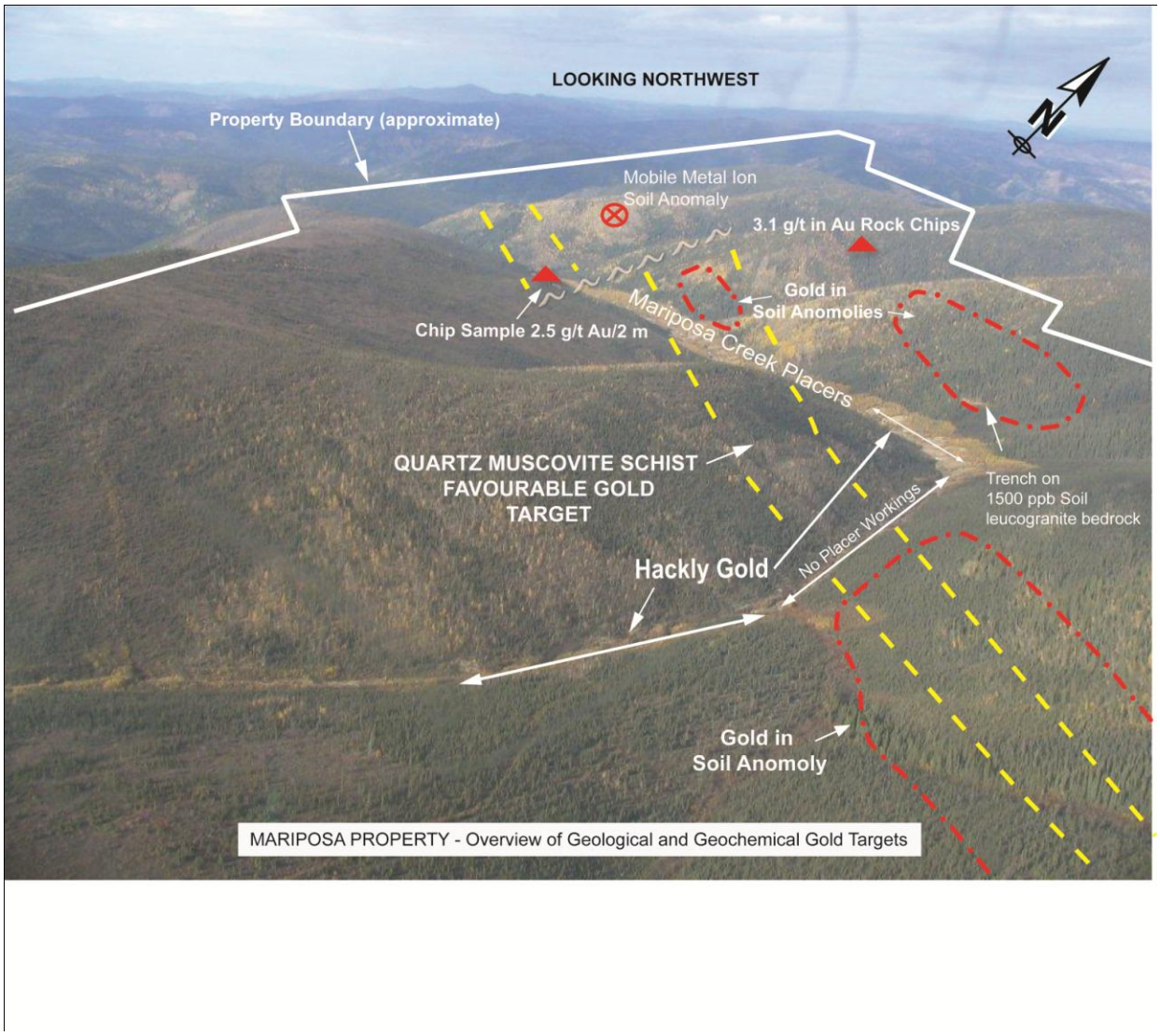


PHOTO 5 OVERVIEW OF MARIPOSA CREEK AREA GOLD ANOMALIES

Exploration work completed to date on the Mariposa Property has shown widespread anomalous gold in soils and bedrock exposures. On the western side of the property gold has been shown to be associated with Quartz Muscovite Schist and pegmatite. To the east, near Mariposa Creek, anomalous gold in soils and the presence of hackly textured placer nuggets indicate a nearby bedrock source for the gold. The work to date has been piece meal and before drilling is contemplated property wide systematic geochemical, geophysical and geological surveys and trenching are required to pick the optimum gold drill targets. Pacific Ridge's Phase I program in 2010 will be to complete property wide soil survey which will include all previous work utilizing a consistence methodology (deep soil auguring as per the successful RyanWood ridge and spur orientation sampling program) for the procurement of the soils.

2010 PROPOSED WORK PROGRAM

The proposed 2010 work program is to complete a 14km X 1.5km property wide deep auger soil survey that would cover all previous soiled areas.

PHOTO 6 Scroggie Airstrip & Placer Camp

CERTIFICATE OF QUALIFICATIONS
George E. Norman, B.Sc. (Honours) Geology

I, George E. Norman, of 12252 North Park Crescent in the city of Surrey, in the Province of British Columbia and of the same business address, certify that:

1. I am a consulting geologist registered with the association of Professional Engineers and Geoscientists of B. C. (#121420) and the Association of Professional Engineers, Geologists and Geophysicists of Alberta (#M23376) providing exploration services to the exploration community.

2. I am a graduate of the University of Alberta with a Bachelor of Science (Honors) degree in Geology (1973).

3. I have practiced my profession continuously since 1973 and have been involved in projects and evaluations conducting exploration for precious and base metal deposits in North, Central and South America.

4. I am responsible for the review of data and its presentation in the report entitled "RIDGE and SPUR SOIL GEOCHEMICAL ASSESSMENT REPORT " on the Mariposa Property.

Dated at Vancouver, BC, this 8th day of Dec, 2010

_____
George Norman, B.Sc., P. Geo.

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APPENDIX I

MARIPOSA RIDGE AND SPUR
2009 STATEMENT OF COST

STATEMENT OF COST MARIPOSA SOIL SURVEY
Ridge and Spur Sampling
Field Work Days : Oct 06.08 & 09
2009

Company	No. of Soil Samples Item/Day	Hours	Fuel	Cost/Sample Cost/hr	Totals	Total on Statement
Ryanwood Exploration						
(Oct 6,8,9	Soil Sampling 9 man days @ $330/day				$ 2,970.00	
	Prep Soil/Grid Lines 1 day @ $330/day				$ 330.00	
	9 Camp fee days @ $50.00/day				$ 450.00	
	9 Food fee days @ $50.00/day				$ 450.00	
					$ 4,200.00	**$ 4,200.00**
Trans North Helicopters	Oct 06/09	0.9	940.5	1193.2	1073.88	
	Oct 08/09	0.8	836	1193.2	954.56	
	Oct 09/09	1.0	1045	1193.2	1193.2	
		2.7	**2821.5**		**3221.64**	**$ 2,058.00**
ACME Labs	184			17.51	$ 3,222.00	**$ 3,222.00**
				Grand Total		**$ 9,480.00**

APPENDIX II

MARIPOSA RIDGE AND SPUR
SOIL LOCATIONS, DESCRIPTIONS AND ANALYTICAL RESULTS

Sample ID	Color	Slope	Depth	Quality	Horiz	Vegetation	Ground Cover	Descrip	Description
MPA59214	Chocolate Brown	Pronounced Slope	80	Good	C	Old Burn	Thin Moss Cover	Fine	Rocky
MPA59214	Chocolate Brown	Pronounced Slope	80	Good	C	Old Burn	Thin Moss Cover	Fine	Rocky
MPA59215	Chocolate Brown	Pronounced Slope	70	Good	C	Old Burn	Thin Moss Cover	Fine	Rocky
MPA59216	Chocolate Brown	Pronounced Slope	70	Excellent	C	Old Burn	Thin Moss Cover	Coarse	Rocky
MPA59217	Chocolate Brown	Pronounced Slope	70	Good	C	Old Burn	Thin Moss Cover	Rocky	
MPA59218	Chocolate Brown	Pronounced Slope	60	Excellent	C	Old Burn	Thin Moss Cover	Rocky	Coarse
MPA59219	Chocolate Brown	Pronounced Slope	70	Excellent	C	Old Burn	Thin Moss Cover	Coarse	
MPA59220	Reddish Orange	Pronounced Slope	70	Excellent	C	White Spruce	Thin Moss Cover	Coarse	Rocky
MPA59221	Chocolate Brown	Pronounced Slope	60	Excellent	C	White Spruce	Thin Moss Cover	Coarse	
MPA59222	Chocolate Brown	Pronounced Slope	70	Excellent	C	White Spruce	Thin Moss Cover	Coarse	Sand
MPA59223	Chocolate Brown	Pronounced Slope	70	Excellent	C	White Spruce	Thin Moss Cover	Coarse	Sand
MPA59224	Chocolate Brown	Pronounced Slope	80	Excellent	C	Old Burn	Thin Moss Cover	Coarse	Rocky
MPA59225	Dark Brown	Pronounced Slope	60	Good	C	Old Burn	Thin Moss Cover	Coarse	
MPA59226	Chocolate Brown	Pronounced Slope	70	Excellent	C	Old Burn	Thin Moss Cover	Coarse	Rocky
MPA59227	Dark Brown	Pronounced Slope	70	Good	C	Old Burn	Thin Moss Cover	Fine	
MPA59228	Dark Brown	Pronounced Slope	70	Poor	B	White Spruce	Sphagnum Moss > 30cm	Wet Soil	Organic 25%
MPA59229	Dark Brown	Pronounced Slope	60	Poor	C	White Spruce	Sphagnum Moss > 30cm	N/A	
MPA59230	Chocolate Brown	Pronounced Slope	80	Excellent	C	Old Burn	Thin Moss Cover	Coarse	Rocky
MPA59231	Chocolate Brown	Pronounced Slope	70	Excellent	C	Old Burn	Thin Moss Cover	Coarse	Rocky
MPA59232	Chocolate Brown	Pronounced Slope	80	Good	C	Old Burn	Thin Moss Cover	Coarse	Rocky
MPA59233	Reddish Orange	Pronounced Slope	70	Excellent	C	Poplar	Thin Moss Cover	Coarse	Rocky

MPA59234	Chocolate Brown	Pronounced Slope	50	Excellent	C	Poplar	Thin Moss Cover	Coarse	Rocky
MPA59234	Chocolate Brown	Pronounced Slope	50	Excellent	C	Poplar	Thin Moss Cover	Coarse	Rocky
MPA59235	Chocolate Brown	Pronounced Slope	90	Excellent	C	Poplar	Leaf Cover	Fine	Sand
MPA59236	Reddish Orange	Subtle Slope	80	Excellent	C	Old Burn	Thin Moss Cover	Coarse	Rocky
MPA59237	Chocolate Brown	Subtle Slope	70	Good	C	Black Spruce	Sphagnum Moss < 30cm	Rocky	Wet Soil
MPA59238	Chocolate Brown	Subtle Slope	70	Good	C	Black Spruce	Sphagnum Moss < 30cm	Rocky	Coarse
MPA59239	Chocolate Brown	Subtle Slope	80	Excellent	C	Black Spruce	Sphagnum Moss < 30cm	Coarse	Rocky
MPA59240	Chocolate Brown	Subtle Slope	70	Good	C	Black Spruce	Sphagnum Moss < 30cm	Coarse	Rocky
MPA79342	Chocolate Brown	Subtle Slope	70	Good	C	Black Spruce	Sphagnum Moss < 30cm	Coarse	Wet Soil
MPA79343	Chocolate Brown	Subtle Slope	60	Good	C	Old Burn	Thin Moss Cover	Coarse	
MPA79344	Chocolate Brown	Pronounced Slope	70	Good	C	Old Burn	Thin Moss Cover	Coarse	Rocky
MPA79345	Chocolate Brown	Pronounced Slope	60	Excellent	C	Old Burn	Thin Moss Cover	Coarse	Rocky
MPA79346	Chocolate Brown	Pronounced Slope	70	Good	C	Old Burn	Thin Moss Cover	Coarse	Rocky
MPA79347	Chocolate Brown	Pronounced Slope	50	Good	C	Old Burn	Thin Moss Cover	Coarse	Rocky
MPA79348	Chocolate Brown	Pronounced Slope	60	Good	C	Old Burn	Thin Moss Cover	Coarse	Rocky
MPA79349	Chocolate Brown	Pronounced Slope	50	Poor	C	Old Burn	Thin Moss Cover	Fine	Organic 10%
MPA79350	Chocolate Brown	Subtle Slope	50	Poor	C	Old Burn	Thin Moss Cover	Fine	
MPA79351	Chocolate Brown	Pronounced Slope	60	Good	C	Old Burn	Thin Moss Cover	Coarse	
MPA79352	Chocolate Brown	Pronounced Slope	60	Good	C	Old Burn	Thin Moss Cover	Coarse	
MPA79353	Chocolate Brown	Pronounced Slope	50	Poor	C	Old Burn	Thin Moss Cover	Fine	
MPA81758	Dark Brown	Subtle Slope	50	Poor	C	Old Burn	Bare Soil	Coarse	Rocky
MPA81759	Dark Brown	Subtle Slope	110	Good	C	Birch Forest	Thin Moss Cover	Coarse	Organic 25%
MPA81760	Grey	Subtle Slope	70	Excellent	C	Birch Forest	Leaf Cover	Coarse	Sand
MPA81761	Dark Brown	Subtle Slope	80	Excellent	C	Birch Forest	Leaf Cover	Coarse	Sand
MPA81762	Dark Brown	Subtle Slope	80	Poor	C	Old Burn	Bare Soil	Coarse	Organic 10%
MPA81763	Dark Brown	Subtle Slope	40	Poor	C	Old Burn	Bare Soil	Frozen	Organic 50%
MPA81764	Dark Grey Black	Subtle Slope	40	Poor	C	Old Burn	Bare Soil	Frozen	Organic 10%
MPA81765	Dark Grey Black	Subtle Slope	60	Poor	C	Old Burn	Bare Soil	Partially Frozen	Organic 10%
MPA81766	Dark Brown	Subtle Slope	70	Poor	C	Old Burn	Bare Soil	Partially Frozen	Organic 25%
MPA81767	Chocolate Brown	Pronounced Slope	100	Excellent	C	Old Burn	Bare Soil	Coarse	Sand
MPA81768	Chocolate Brown	Pronounced Slope	100	Excellent	C	Old Burn	Bare Soil	Coarse	Sand
MPA81769	Chocolate Brown	Pronounced Slope	90	Excellent	C	Old Burn	Bare Soil	Coarse	Sand
MPA81770	Chocolate Brown	Pronounced Slope	80	Excellent	C	Old Burn	Bare Soil	Coarse	Sand
MPA81771	Chocolate Brown	Pronounced Slope	70	Good	C	Poplar	Leaf Cover	Coarse	

MPA81772	Reddish Yellow	Subtle Slope	70	Excellent	C	Poplar	Thin Moss Cover	Coarse	Quartz Chips
MPA81773	Chocolate Brown	Pronounced Slope	70	Excellent	C	Black Spruce	Bare Soil	Coarse	Sand
MPA81773	Chocolate Brown	Pronounced Slope	70	Excellent	C	Black Spruce	Bare Soil	Coarse	Sand
MPA81774	Chocolate Brown	Subtle Slope	80	Good	C	Black Spruce	Bare Soil	Coarse	Organic 10%
MPA81775	Reddish Yellow	Subtle Slope	70	Excellent	C	Black Spruce	Bare Soil	Coarse	Quartz Chips
MPA81776	Chocolate Brown	Subtle Slope	60	Good	C	Black Spruce	Bare Soil	Coarse	Rocky
MPA81777	Chocolate Brown	Subtle Slope	50	Good	C	Black Spruce	Thin Moss Cover	Coarse	Rocky
MPA81778	Chocolate Brown	Subtle Slope	50	Good	C	Black Spruce	Thin Moss Cover	Coarse	Big Round Boulders
MPA81779	Chocolate Brown	Subtle Slope	60	Good	C	Old Burn	Bare Soil	Coarse	Rocky
MPA81780	Chocolate Brown	Subtle Slope	60	Good	C	Old Burn	Bare Soil	Coarse	Rocky
MPA81781	Chocolate Brown	Subtle Slope	60	Good	C	Old Burn	Bare Soil	Coarse	Rocky
MPA81782	Chocolate Brown	Subtle Slope	80	Good	C	Birch Forest	Bare Soil	Coarse	Big Round Boulders
MPA81783	Chocolate Brown	Subtle Slope	110	Excellent	C	Birch Forest	Leaf Cover	Coarse	
MPA81784	Yellow	Subtle Slope	100	Excellent	C	Black Spruce	Reindeer Moss	Coarse	Quartz Chips
MPA81784	Yellow	Subtle Slope	100	Excellent	C	Black Spruce	Reindeer Moss	Coarse	Quartz Chips
MPA81785	Reddish Yellow	Subtle Slope	90	Excellent	C	Black Spruce	Reindeer Moss	Coarse	Quartz Chips
MPA81786	Chocolate Brown	Subtle Slope	80	Excellent	C	Birch Forest	Grass Cover	Coarse	Sand
MPA81787	Chocolate Brown	Subtle Slope	90	Excellent	C	White Spruce	Grass Cover	Coarse	Sand
MPA81788	Chocolate Brown	Subtle Slope	90	Excellent	C	White Spruce	Thin Moss Cover	Coarse	Sand
MPA81789	Chocolate Brown	Pronounced Slope	90	Excellent	C	White Spruce	Thin Moss Cover	Coarse	Sand
MPA81790	Chocolate Brown	Pronounced Slope	70	Excellent	C	White Spruce	Thin Moss Cover	Coarse	Sand
MPA81791	Reddish Yellow	Pronounced Slope	90	Excellent	C	White Spruce	Thin Moss Cover	Coarse	Sand
MPA81792	Chocolate Brown	Pronounced Slope	90	Excellent	C	White Spruce	Thin Moss Cover	Coarse	Sand
MPA81793	Chocolate Brown	Pronounced Slope	80	Excellent	C	White Spruce	Thin Moss Cover	Coarse	Sand
MPA81794	Reddish Brown	Pronounced Slope	80	Excellent	C	White Spruce	Thin Moss Cover	Coarse	Rocky
MPA81795	Chocolate Brown	Pronounced Slope	80	Excellent	C	White Spruce	Thin Moss Cover	Coarse	
MPA81796	Chocolate Brown	Pronounced Slope	80	Excellent	C	White Spruce	Moss Mat	Coarse	
MPA81796	Chocolate Brown	Pronounced Slope	80	Excellent	C	White Spruce	Moss Mat	Coarse	
MPA81797	Yellow	Subtle Slope	80	Excellent	C	Birch Forest	Moss Mat	Coarse	Sand
MPA81798	Chocolate Brown	Subtle Slope	80	Excellent	C	Poplar	Thin Moss Cover	Coarse	Sand
MPA81799	Chocolate Brown	Subtle Slope	70	Excellent	C	Birch Forest	Reindeer Moss	Coarse	Sand
MPA81801	Chocolate Brown	Subtle Slope	80	Excellent	C	Poplar	Reindeer Moss	Coarse	Sand
MPA81802	Chocolate Brown	Subtle Slope	80	Excellent	C	Birch Forest	Reindeer Moss	Coarse	Sand
MPA81803	Chocolate Brown	Subtle Slope	80	Excellent	C	White Spruce	Moss Mat	Coarse	Sand

MPA81804	Chocolate Brown	Pronounced Slope	80	Excellent	C	White Spruce	Moss Mat	Coarse	
MPA81805	Chocolate Brown	Pronounced Slope	60	Good	C	Birch Forest	Moss Mat	Coarse	Rocky
MPA81806	Chocolate Brown	Pronounced Slope	80	Excellent	C	Poplar	Reindeer Moss	Coarse	Sand
MPA81807	Chocolate Brown	Pronounced Slope	70	Excellent	C	Poplar	Reindeer Moss	Coarse	Sand
MPA81808	Chocolate Brown	Pronounced Slope	70	Good	C	Poplar	Leaf Cover	Coarse	Rocky
MPA81809	Chocolate Brown	Pronounced Slope	70	Good	C	Poplar	Leaf Cover	Coarse	Rocky
MPA81810	Reddish Yellow	Pronounced Slope	70	Excellent	C	Poplar	Leaf Cover	Coarse	
MPA81811	Chocolate Brown	Pronounced Slope	80	Excellent	C	Poplar	Leaf Cover	Coarse	Sand
MPA82892	Reddish Brown	Pronounced Slope	60	Excellent	C	Old Burn	Bare Soil	Fine	Sand
MPA82893	Reddish Brown	Pronounced Slope	60	Good	C	Old Burn	Bare Soil	Fine	Rocky
MPA82894	Chocolate Brown	Pronounced Slope	50	Excellent	C	Old Burn	Bare Soil	Fine	Rocky
MPA82895	Reddish Brown	Pronounced Slope	70	Good	C	Old Burn	Bare Soil	Fine	Rocky
MPA82896	Reddish Brown	Steep	50	Good	C	Old Burn	Bare Soil	Fine	Rocky
MPA82897	Chocolate Brown	Steep	90	Excellent	C	Old Burn	Bare Soil	Fine	Sand
MPA82897	Chocolate Brown	Steep	90	Excellent	C	Old Burn	Bare Soil	Fine	Sand
MPA82898	Greyish Green	Pronounced Slope	90	Excellent	C	Old Burn	Bare Soil	Fine	Sand
MPA82899	Greyish Green	Pronounced Slope	90	Excellent	C	Old Burn	Bare Soil	Fine	DUPLICATE
MPA82900	Reddish Orange	Pronounced Slope	70	Excellent	C	Old Burn	Bare Soil	Fine	Sand
MPA83951	Reddish Brown	Subtle Slope	80	Excellent	C	Old Burn	Bare Soil	Sand	
MPA83952	Chocolate Brown	Flat	90	Excellent	C	Old Burn	Bare Soil	Sand	Coarse
MPA83953	Chocolate Brown	Flat	80	Excellent	C	Old Burn	Bare Soil	Sand	
MPA83954	Chocolate Brown	Subtle Slope	30	Poor	B	Old Burn	Bare Soil	Rocky	Fine
MPA83955	Dark Brown	Subtle Slope	80	Excellent	C	Old Burn	Bare Soil	Sand	
MPA83956	Dark Brown	Subtle Slope	40	Good	C	Old Burn	Bare Soil	Sand	Fine
MPA83957	Yellow	Subtle Slope	60	Excellent	C	Old Burn	Bare Soil	Coarse	
MPA83958	Yellow	Subtle Slope	70	Excellent	C	Old Burn	Bare Soil	Coarse	
MPA83959	Yellow	Pronounced Slope	80	Excellent	C	Old Burn	Bare Soil	Coarse	
MPA83960	Chocolate Brown	Pronounced Slope	50	Good	C	Old Burn	Bare Soil	Coarse	Rocky
MPA83961	Chocolate Brown	Pronounced Slope	60	Excellent	C	Old Burn	Bare Soil	Coarse	Sand
MPA83962	Light Brown	Pronounced Slope	90	Excellent	C	Old Burn	Bare Soil	Coarse	
MPA83963	Yellow	Pronounced Slope	60	Excellent	C	Old Burn	Bare Soil	Coarse	
MPA83964	Yellow	Pronounced Slope	70	Excellent	C	Old Burn	Bare Soil	Coarse	Sand
MPA83965	Chocolate Brown	Pronounced Slope	50	Good	C	Old Burn	Bare Soil	Coarse	Rocky
MPA83966	Yellow	Pronounced Slope	90	Excellent	C	Old Burn	Bare Soil	Coarse	

MPA83966	Yellow	Pronounced Slope	90	Excellent	C	Old Burn	Bare Soil	Coarse	
MPA83967	Chocolate Brown	Pronounced Slope	70	Excellent	C	Old Burn	Bare Soil	Sand	Rocky
MPA83968	Chocolate Brown	Pronounced Slope	80	Excellent	C	Old Burn	Bare Soil	Sand	Rocky
MPA83969	Yellow	Pronounced Slope	70	Excellent	C	Old Burn	Bare Soil	Coarse	
MPA83970	Yellow	Pronounced Slope	60	Excellent	C	Old Burn	Bare Soil	Coarse	
MPA83971	Chocolate Brown	Pronounced Slope	50	Excellent	C	Old Burn	Bare Soil	Coarse	Sand
MPA83972	Chocolate Brown	Pronounced Slope	60	Good	C	Old Burn	Bare Soil	Coarse	Rocky
MPA83973	Chocolate Brown	Pronounced Slope	40	Good	C	Old Burn	Bare Soil	Fine	Rocky
MPA83974	Chocolate Brown	Pronounced Slope	50	Good	C	Old Burn	Bare Soil	Fine	Rocky
MPA83975	Chocolate Brown	Pronounced Slope	60	Excellent	C	Old Burn	Bare Soil	Coarse	Sand
MPA83976	Reddish Orange	Pronounced Slope	70	Excellent	C	Old Burn	Bare Soil	Coarse	Rocky
MPA83977	Dark Brown	Pronounced Slope	80	Excellent	C	Old Burn	Bare Soil	Coarse	Sand
MPA83977	Dark Brown	Pronounced Slope	80	Excellent	C	Old Burn	Bare Soil	Coarse	Sand
MPA83978	Dark Brown	Pronounced Slope	60	Excellent	C	Old Burn	Bare Soil	Coarse	Sand
MPA83979	Dark Brown	Pronounced Slope	40	Good	C	Old Burn	Bare Soil	Coarse	Rocky
MPA83980	Dark Brown	Pronounced Slope	40	Good	C	Old Burn	Bare Soil	Fine	Rocky
MPA85150	Chocolate Brown	Pronounced Slope	40	Good	C	Old Burn	Thin Moss Cover	N/A	
MPA85151	Chocolate Brown	Pronounced Slope	50	Good	C	Old Burn	Thin Moss Cover	Coarse	
MPA85152	Chocolate Brown	Pronounced Slope	60	Excellent	C	Old Burn	Thin Moss Cover	Coarse	Sand
MPA85153	Chocolate Brown	Pronounced Slope	70	Good	C	Old Burn	Thin Moss Cover	Fine	
MPA85154	Chocolate Brown	Pronounced Slope	80	Excellent	C	Old Burn	Thin Moss Cover	Coarse	
MPA85155	Chocolate Brown	Pronounced Slope	70	Good	C	Old Burn	Thin Moss Cover	Coarse	
MPA85156	Chocolate Brown	Pronounced Slope	70	Good	C	Old Burn	Thin Moss Cover	Coarse	DUPLICATE
MPA85157	Chocolate Brown	Pronounced Slope	70	Poor	C	Old Burn	Thin Moss Cover	Clay	
MPA87424	Grey	Subtle Slope	90	Excellent	C	White Spruce	Thin Moss Cover	Coarse	Sand
MPA87425	Chocolate Brown	Subtle Slope	90	Excellent	C	White Spruce	Thin Moss Cover	Coarse	Sand
MPA87426	Chocolate Brown	Subtle Slope	90	Excellent	C	White Spruce	Thin Moss Cover	Coarse	Sand
MPA87427	Chocolate Brown	Subtle Slope	90	Excellent	C	White Spruce	Thin Moss Cover	Coarse	Sand
MPA87428	Chocolate Brown	Subtle Slope	70	Excellent	C	Poplar	Leaf Cover	Coarse	Sand
MPA87429	Chocolate Brown	Subtle Slope	70	Good	C	Birch Forest	Leaf Cover	Coarse	Rocky
MPA87430	Chocolate Brown	Subtle Slope	70	Excellent	C	Birch Forest	Leaf Cover	Coarse	Rocky
MPA87431	Chocolate Brown	Subtle Slope	70	Good	C	Birch Forest	Leaf Cover	Coarse	Rocky
MPA87432	Chocolate Brown	Subtle Slope	60	Good	C	Poplar	Leaf Cover	Coarse	Organic 10%
MPA87433	Chocolate Brown	Subtle Slope	70	Good	C	Poplar	Leaf Cover	Coarse	Rocky

MPA87434	Chocolate Brown	Subtle Slope	70	Good	C	Poplar	Leaf Cover	Coarse	Rocky
MPA87435	Chocolate Brown	Subtle Slope	90	Excellent	C	Poplar	Leaf Cover	Coarse	Sand
MPA87436	Chocolate Brown	Subtle Slope	80	Excellent	C	Poplar	Leaf Cover	Coarse	Sand
MPA87437	Chocolate Brown	Pronounced Slope	80	Excellent	C	Poplar	Leaf Cover	Coarse	Sand
MPA87438	Reddish Yellow	Pronounced Slope	80	Excellent	C	Poplar	Leaf Cover	Coarse	Sand
MPA87439	Yellow	Pronounced Slope	90	Excellent	C	Poplar	Leaf Cover	Coarse	Sand
MPA87439	Yellow	Pronounced Slope	90	Excellent	C	Poplar	Leaf Cover	Coarse	Sand
MPA87440	Yellow	Pronounced Slope	90	Excellent	C	Poplar	Leaf Cover	Coarse	Sand
MPA87441	Reddish Yellow	Subtle Slope	90	Excellent	C	Willows	Leaf Cover	Coarse	Sand
MPA87442	Reddish Yellow	Subtle Slope	90	Excellent	C	Poplar	Leaf Cover	Coarse	Sand
MPA87443	Reddish Brown	Subtle Slope	80	Excellent	C	Poplar	Leaf Cover	Coarse	Sand
MPA87444	Reddish Yellow	Subtle Slope	80	Excellent	C	Poplar	Leaf Cover	Coarse	Sand
MPA87445	Chocolate Brown	Subtle Slope	80	Excellent	C	Poplar	Leaf Cover	Coarse	Sand
MPA87446	Chocolate Brown	Subtle Slope	90	Excellent	C	White Spruce	Leaf Cover	Coarse	Sand
MPA87447	Chocolate Brown	Subtle Slope	90	Excellent	C	White Spruce	Leaf Cover	Coarse	Sand
MPA87448	Chocolate Brown	Subtle Slope	90	Excellent	C	White Spruce	Needle Cover	Coarse	Sand
MPA87449	Chocolate Brown	Pronounced Slope	80	Excellent	C	White Spruce	Needle Cover	Coarse	Sand
MPA87450	Chocolate Brown	Pronounced Slope	70	Excellent	C	Poplar	Leaf Cover	Coarse	Sand
MPA87451	Chocolate Brown	Pronounced Slope	80	Excellent	C	Poplar	Leaf Cover	Coarse	Sand
MPA87452	Chocolate Brown	Pronounced Slope	90	Good	C	Poplar	Leaf Cover	Coarse	
MPA87453	Chocolate Brown	Pronounced Slope	50	Good	C	Old Burn	Needle Cover	Coarse	Rocky
MPA87454	Chocolate Brown	Pronounced Slope	90	Excellent	C	Black Spruce	Leaf Cover	Coarse	Sand
MPA87455	Reddish Yellow	Pronounced Slope	80	Excellent	C	Poplar	Leaf Cover	Coarse	Sand
MPA87456	Chocolate Brown	Pronounced Slope	80	Excellent	C	White Spruce	Needle Cover	Coarse	Sand
MPA87457	Dark Brown	Subtle Slope	70	Excellent	C	Old Burn	Bare Soil	Coarse	
MPA87458	Dark Brown	Subtle Slope	60	Good	C	Old Burn	Bare Soil	Coarse	Quartz Chips
MPA87458	Dark Brown	Subtle Slope	60	Good	C	Old Burn	Bare Soil	Coarse	Quartz Chips
MPA87459	Dark Brown	Subtle Slope	70	Excellent	C	Old Burn	Bare Soil	Coarse	Rocky
MPA87460	Dark Brown	Subtle Slope	50	Good	C	Old Burn	Bare Soil	Coarse	Rocky
MPA87850	Reddish Orange	Pronounced Slope	70	Excellent	C	Old Burn	Bare Soil	Fine	Sand
MPA87857	Reddish Yellow	Pronounced Slope	50	Excellent	C	Black Spruce	Thin Moss Cover	Sand	Fine
MPA87858	Reddish Yellow	Pronounced Slope	50	Excellent	C	Black Spruce	Thin Moss Cover	Sand	Fine
MPA87859	Reddish Brown	Pronounced Slope	70	Excellent	C	White Spruce	Thin Moss Cover	Sand	Coarse
MPA87860	Reddish Yellow	Pronounced Slope	70	Excellent	C	White Spruce	Thin Moss Cover	Sand	Fine

MPA87861	Chocolate Brown	Pronounced Slope	50	Good	B	White Spruce	Thin Moss Cover	Fine	
MPA87861	Chocolate Brown	Pronounced Slope	50	Good	B	White Spruce	Thin Moss Cover	Fine	
MPA87862	Reddish Brown	Pronounced Slope	60	Excellent	C	Poplar	Thin Moss Cover	Sand	Coarse
MPA87863	Dark Olivine Green	Pronounced Slope	100	Excellent	C	Poplar	Thin Moss Cover	Sand	Coarse
MPA87864	Chocolate Brown	Pronounced Slope	70	Good	B	Poplar	Thin Moss Cover	Sand	Fine
MPA87865	Chocolate Brown	Pronounced Slope	70	Good	B	White Spruce	Thin Moss Cover	Sand	Fine
MPA87866	Chocolate Brown	Pronounced Slope	60	Excellent	C	White Spruce	Thin Moss Cover	Sand	
MPA87867	Chocolate Brown	Pronounced Slope	60	Good	B	White Spruce	Thin Moss Cover	Fine	Rocky
MPA87868	Chocolate Brown	Pronounced Slope	60	Good	B	White Spruce	Thin Moss Cover	Fine	
MPA87869	Chocolate Brown	Pronounced Slope	70	Good	B	White Spruce	Thin Moss Cover	Fine	Sand
MPA87870	Chocolate Brown	Pronounced Slope	70	Excellent	C	White Spruce	Thin Moss Cover	Fine	Sand
MPA87871	Chocolate Brown	Subtle Slope	60	Good	B	White Spruce	Thin Moss Cover	Mud	Rocky
MPA87872	Reddish Brown	Subtle Slope	60	Excellent	C	Old Burn	Bare Soil	Sand	Coarse
MPA87873	Reddish Brown	Subtle Slope	60	Excellent	C	Old Burn	Bare Soil	Sand	Coarse
MPA87874	Reddish Brown	Subtle Slope	60	Excellent	C	Old Burn	Bare Soil	Sand	Coarse
MPA87875	Dark Olivine Green	Subtle Slope	60	Excellent	C	White Spruce	Needle Cover	Sand	Coarse
MPA87876	Chocolate Brown	Subtle Slope	60	Good	C	Old Burn	Needle Cover	Coarse	Mud
MPA87877	Chocolate Brown	Pronounced Slope	60	Excellent	C	Poplar	Thin Moss Cover	Coarse	Sand
MPA87878	Reddish Brown	Pronounced Slope	70	Excellent	C	Poplar	Thin Moss Cover	Coarse	Sand
MPA87879	Reddish Brown	Pronounced Slope	60	Good	C	Poplar	Thin Moss Cover	Fine	Sand
MPA87880	Chocolate Brown	Pronounced Slope	60	Excellent	C	Poplar	Thin Moss Cover	Fine	Sand
MPA87881	Chocolate Brown	Pronounced Slope	50	Excellent	C	White Spruce	Thin Moss Cover	Fine	
MPA87882	Chocolate Brown	Pronounced Slope	80	Good	C	Poplar	Thin Moss Cover	Fine	Sand
MPA87883	Chocolate Brown	Pronounced Slope	60	Good	B	White Spruce	Thin Moss Cover	Fine	
MPA87884	Chocolate Brown	Pronounced Slope	50	Good	B	White Spruce	Thin Moss Cover	Fine	
MPA87885	Chocolate Brown	Pronounced Slope	50	Good	C	White Spruce	Thin Moss Cover	Fine	Sand
MPA87886	Chocolate Brown	Subtle Slope	70	Excellent	C	Old Burn	Thin Moss Cover	Coarse	
MPA87887	Reddish Orange	Subtle Slope	60	Good	C	Old Burn	Thin Moss Cover	Coarse	Rocky
MPA87888	Chocolate Brown	Pronounced Slope	70	Good	C	Old Burn	Thin Moss Cover	Rocky	
MPA87889	Chocolate Brown	Pronounced Slope	60	Good	C	Old Burn	Thin Moss Cover	Rocky	Coarse
MPA87889	Chocolate Brown	Pronounced Slope	60	Good	C	Old Burn	Thin Moss Cover	Rocky	Coarse
MPA87890	Chocolate Brown	Pronounced Slope	50	Good	C	Old Burn	Thin Moss Cover	Rocky	Coarse
MPA87891	Chocolate Brown	Pronounced Slope	60	Good	C	Old Burn	Thin Moss Cover	Rocky	

MPA87892	Chocolate Brown	Pronounced Slope	70	Excellent	C	Old Burn	Thin Moss Cover	Rocky	Coarse
MPA87893	Chocolate Brown	Pronounced Slope	60	Good	C	Old Burn	Thin Moss Cover	Rocky	Coarse
MPA87894	Chocolate Brown	Pronounced Slope	70	Excellent	C	Old Burn	Thin Moss Cover	Rocky	
MPA87895	Chocolate Brown	Pronounced Slope	70	Good	C	Old Burn	Thin Moss Cover	Rocky	Coarse
MPA87896	Chocolate Brown	Pronounced Slope	50	Good	C	Old Burn	Thin Moss Cover	Rocky	
MPA87897	Reddish Orange	Pronounced Slope	50	Excellent	C	Old Burn	Thin Moss Cover	Rocky	Coarse
MPA87898	Chocolate Brown	Pronounced Slope	50	Poor	C	Old Burn	Thin Moss Cover	Rocky	Fine
MPA87899	Chocolate Brown	Pronounced Slope	70	Excellent	C	Old Burn	Thin Moss Cover	Coarse	Rocky
MPA87900	Chocolate Brown	Pronounced Slope	70	Good	C	Old Burn	Sphagnum Moss < 30cm	Coarse	
MPA87901	Chocolate Brown	Pronounced Slope	100	Excellent	C	Old Burn	Thin Moss Cover	Sand	
MPA87902	Chocolate Brown	Pronounced Slope	100	Excellent	C	Old Burn	Thin Moss Cover	Sand	DUPLICATE
MPA87903	Chocolate Brown	Pronounced Slope	60	Good	C	Old Burn	Thin Moss Cover	Fine	
MPA87904	Chocolate Brown	Pronounced Slope	80	Excellent	C	Old Burn	Thin Moss Cover	Coarse	
MPA87905	Chocolate Brown	Pronounced Slope	70	Excellent	C	Old Burn	Thin Moss Cover	Coarse	
MPA87906	Chocolate Brown	Pronounced Slope	60	Excellent	C	Old Burn	Thin Moss Cover	Coarse	Rocky
MPA87907	Chocolate Brown	Pronounced Slope	70	Excellent	C	Old Burn	Thin Moss Cover	Coarse	Sand
MPA87908	Chocolate Brown	Pronounced Slope	50	Good	C	Old Burn	Thin Moss Cover	Coarse	
MPA87909	Chocolate Brown	Pronounced Slope	60	Excellent	C	Old Burn	Thin Moss Cover	Coarse	Rocky
MPA87910	Chocolate Brown	Pronounced Slope	70	Excellent	C	Old Burn	Thin Moss Cover	Coarse	Rocky
MPA87911	Chocolate Brown	Pronounced Slope	80	Excellent	C	Old Burn	Thin Moss Cover	Coarse	Sand
MPA87912	Chocolate Brown	Pronounced Slope	70	Excellent	C	Old Burn	Thin Moss Cover	Coarse	
MPA87912	Chocolate Brown	Pronounced Slope	70	Excellent	C	Old Burn	Thin Moss Cover	Coarse	
MPA87913	Chocolate Brown	Pronounced Slope	60	Excellent	C	Old Burn	Thin Moss Cover	Coarse	Sand
MPA87914	Chocolate Brown	Pronounced Slope	60	Excellent	C	Old Burn	Thin Moss Cover	Coarse	Quartz Chips
MPA87915	Chocolate Brown	Pronounced Slope	80	Excellent	C	Old Burn	Thin Moss Cover	Coarse	Sand
MPA87916	Chocolate Brown	Pronounced Slope	80	Excellent	C	Old Burn	Thin Moss Cover	Coarse	Sand
MPA87917	Chocolate Brown	Steep	70	Good	C	Old Burn	Thin Moss Cover	Fine	
MPA87918	Chocolate Brown	Steep	80	Excellent	C	Old Burn	Thin Moss Cover	Coarse	Sand
MPA87919	Dark Brown	Steep	60	Good	C	Old Burn	Sphagnum Moss > 30cm	Coarse	Rocky
MPA87920	Reddish Orange	Steep	80	Excellent	C	Old Burn	Thin Moss Cover	Coarse	Rocky
MPA87921	Chocolate Brown	Steep	70	Excellent	C	Old Burn	Sphagnum Moss < 30cm	Coarse	Wet Soil
MPA87922	Chocolate Brown	Steep	60	Excellent	C	Old Burn	Thin Moss Cover	Coarse	Rocky
MPA87923	Chocolate Brown	Pronounced Slope	70	Excellent	C	Old Burn	Thin Moss Cover	Fine	Sand
MPA87924	Chocolate Brown	Pronounced Slope	70	Excellent	C	Old Burn	Thin Moss Cover	Coarse	

MPA87925	Chocolate Brown	Pronounced Slope	60	Good	C	Old Burn	Sphagnum Moss < 30cm	Coarse	Sand
MPA87926	Chocolate Brown	Pronounced Slope	70	Excellent	C	Old Burn	Sphagnum Moss < 30cm	Fine	Rocky
MPA87926	Chocolate Brown	Pronounced Slope	70	Excellent	C	Old Burn	Sphagnum Moss < 30cm	Fine	Rocky
MPA87927	Chocolate Brown	Pronounced Slope	70	Good	C	Old Burn	Thin Moss Cover	Fine	
MPA87928	Chocolate Brown	Pronounced Slope	80	Good	C	Old Burn	Thin Moss Cover	Fine	Sand
MPA87929	Reddish Brown	Pronounced Slope	70	Good	C	Old Burn	Thin Moss Cover	Coarse	
MPA87930	Chocolate Brown	Pronounced Slope	70	Excellent	C	Old Burn	Thin Moss Cover	Coarse	
MPA87931	Chocolate Brown	Pronounced Slope	60	Excellent	C	Old Burn	Thin Moss Cover	Coarse	Rocky
MPA87932	Chocolate Brown	Pronounced Slope	80	Excellent	C	Old Burn	Thin Moss Cover	Coarse	Rocky
MPA87933	Chocolate Brown	Pronounced Slope	60	Excellent	C	Old Burn	Thin Moss Cover	Coarse	Sand
MPA87967	Reddish Brown	Pronounced Slope	50	Excellent	C	Old Burn	Bare Soil	Coarse	Rocky
MPA87968	Reddish Brown	Pronounced Slope	60	Excellent	C	Old Burn	Bare Soil	Coarse	Sand
MPA87969	Reddish Brown	Pronounced Slope	60	Excellent	C	Old Burn	Bare Soil	Coarse	Sand
MPA87970	Reddish Brown	Pronounced Slope	50	Excellent	C	Old Burn	Bare Soil	Coarse	
MPA87971	Reddish Brown	Pronounced Slope	70	Excellent	C	Old Burn	Bare Soil	Coarse	Sand
MPA87972	Reddish Brown	Pronounced Slope	70	Excellent	C	Old Burn	Bare Soil	Coarse	Sand
MPA87972	Reddish Brown	Pronounced Slope	70	Excellent	C	Old Burn	Bare Soil	Coarse	Sand
MPA87973	Reddish Brown	Pronounced Slope	70	Good	C	Old Burn	Bare Soil	Sand	Fine
MPA87974	Reddish Brown	Pronounced Slope	60	Excellent	C	Old Burn	Bare Soil	Sand	Coarse
MPA87975	Reddish Brown	Pronounced Slope	60	Excellent	C	Old Burn	Bare Soil	Sand	Coarse
MPA87976	Chocolate Brown	Pronounced Slope	80	Good	C	Old Burn	Bare Soil	Sand	Coarse
MPA87977	Chocolate Brown	Pronounced Slope	60	Good	B	Old Burn	Bare Soil	Mud	Coarse
MPA87978	Chocolate Brown	Pronounced Slope	70	Good	B	Old Burn	Bare Soil	Mud	Coarse
MPA87979	Reddish Brown	Pronounced Slope	70	Excellent	B	Old Burn	Bare Soil	Mud	Sand
MPA87980	Reddish Brown	Pronounced Slope	60	Excellent	C	Old Burn	Bare Soil	Sand	Coarse
MPA87981	Chocolate Brown	Pronounced Slope	70	Excellent	C	Old Burn	Bare Soil	Sand	Coarse
MPA87982	Chocolate Brown	Pronounced Slope	80	Excellent	C	Old Burn	Bare Soil	DUPLICATE	Coarse
MPA87983	Chocolate Brown	Pronounced Slope	60	Excellent	C	Old Burn	Bare Soil	Sand	Coarse
MPA87984	Chocolate Brown	Pronounced Slope	70	Excellent	C	Old Burn	Bare Soil	Sand	Coarse
MPA87985	Reddish Brown	Pronounced Slope	70	Excellent	C	Old Burn	Bare Soil	Sand	Coarse
MPA87986	Reddish Yellow	Pronounced Slope	50	Excellent	C	Old Burn	Bare Soil	Sand	Coarse
MPA87987	Reddish Brown	Pronounced Slope	70	Excellent	C	Old Burn	Bare Soil	Sand	Coarse
MPA87988	Reddish Brown	Pronounced Slope	60	Excellent	C	White Spruce	Rock Cover	Sand	Coarse
MPA87989	Reddish Brown	Pronounced Slope	60	Good	C	White Spruce	Sphagnum Moss < 30cm	Sand	Rocky

MPA87990	Chocolate Brown	Pronounced Slope	60	Good	C	Old Burn	Thin Moss Cover	Rocky	Coarse
MPA87991	Chocolate Brown	Pronounced Slope	60	Good	C	Old Burn	Thin Moss Cover	Rocky	Coarse
MPA87992	Chocolate Brown	Pronounced Slope	60	Excellent	C	Old Burn	Thin Moss Cover	Sand	Coarse
MPA87993	Chocolate Brown	Pronounced Slope	60	Good	B	Old Burn	Thin Moss Cover	Mud	Fine
MPA87994	Reddish Brown	Pronounced Slope	70	Excellent	C	Old Burn	Thin Moss Cover	Sand	Coarse
MPA87995	Chocolate Brown	Pronounced Slope	90	Excellent	C	Old Burn	Sphagnum Moss > 30cm	Sand	Fine
MPA87996	Chocolate Brown	Pronounced Slope	70	Excellent	C	Old Burn	Thin Moss Cover	Sand	Coarse
MPA87996	Chocolate Brown	Pronounced Slope	70	Excellent	C	Old Burn	Thin Moss Cover	Sand	Coarse
MPA87997	Chocolate Brown	Pronounced Slope	60	Excellent	C	Old Burn	Thin Moss Cover	Sand	Coarse
MPA87998	Dark Brown	Pronounced Slope	70	Excellent	C	Old Burn	Thin Moss Cover	Sand	Coarse
MPA87999	Dark Brown	Pronounced Slope	70	Excellent	C	Old Burn	Thin Moss Cover	Sand	Coarse
MPA88000	Dark Brown	Pronounced Slope	70	Excellent	C	Old Burn	Thin Moss Cover	Sand	Coarse
MPA82868	Chocolate Brown	Subtle Slope	70	Excellent	C	Old Burn	Thin Moss Cover	Coarse	
MPA82869	Reddish Brown	Subtle Slope	60	Excellent	C	Old Burn	Thin Moss Cover	Coarse	
MPA82870	Dark Brown	Subtle Slope	40	Excellent	C	Old Burn	Bare Soil	Coarse	Rocky
MPA82871	Dark Brown	Subtle Slope	40	Excellent	C	Old Burn	Bare Soil	Coarse	Rocky
MPA82872	Reddish Brown	Subtle Slope	70	Excellent	C	Old Burn	Bare Soil	Fine	Sand
MPA82873	Chocolate Brown	Subtle Slope	60	Good	C	Old Burn	Thin Moss Cover	Coarse	
MPA82874	Chocolate Brown	Subtle Slope	50	Good	C	Old Burn	Thin Moss Cover	Coarse	Rocky
MPA82875	Chocolate Brown	Subtle Slope	60	Excellent	C	Old Burn	Thin Moss Cover	Coarse	Rocky
MPA82876	Reddish Brown	Pronounced Slope	80	Excellent	C	Old Burn	Thin Moss Cover	Fine	Sand
MPA82877	Reddish Brown	Pronounced Slope	70	Excellent	C	Old Burn	Bare Soil	Fine	Sand
MPA82878	Dark Olivine Green	Pronounced Slope	70	Excellent	C	Old Burn	Bare Soil	Fine	Sand
MPA82879	Chocolate Brown	Pronounced Slope	80	Excellent	C	Old Burn	Bare Soil	Fine	Sand
MPA82880	Chocolate Brown	Pronounced Slope	60	Excellent	C	Old Burn	Thin Moss Cover	Coarse	Sand
MPA82881	Reddish Brown	Pronounced Slope	60	Excellent	C	Old Burn	Thin Moss Cover	Fine	Sand
MPA82882	Reddish Brown	Subtle Slope	70	Excellent	C	Old Burn	Thin Moss Cover	Fine	Sand
MPA82883	Reddish Brown	Subtle Slope	90	Excellent	C	Old Burn	Thin Moss Cover	Coarse	Sand
MPA82884	Reddish Yellow	Subtle Slope	70	Excellent	C	Old Burn	Bare Soil	Fine	Sand
MPA82885	Chocolate Brown	Subtle Slope	60	Excellent	C	Old Burn	Bare Soil	Fine	Sand
MPA82886	Reddish Yellow	Subtle Slope	40	Excellent	C	Old Burn	Bare Soil	Fine	Sand
MPA82887	Chocolate Brown	Subtle Slope	60	Good	C	Old Burn	Bare Soil	Coarse	
MPA82888	Reddish Brown	Subtle Slope	50	Excellent	C	Old Burn	Bare Soil	Coarse	Sand
MPA82888	Reddish	Subtle	50	Excellent	C	Old Burn	Bare Soil	Coarse	Sand

	Brown	Slope							
MPA82889	Chocolate Brown	Subtle Slope	60	Excellent	C	Old Burn	Bare Soil	Fine	Sand
MPA82890	Light Brown	Subtle Slope	60	Excellent	C	Old Burn	Bare Soil	Fine	Sand
MPA82891	Chocolate Brown	Pronounced Slope	70	Excellent	C	Old Burn	Bare Soil	Fine	Sand

Sample ID	Type	UTM E	UTM N	Au	Mo	Pb	Zn	Ag	Ni	Co	As	Cd	Sb	Bi	Ba	Method
MPA59214	Soil	621215	6990983	4.8	0.6	6.8	67	0.05	19	10.3	4.4	0.2	0.4	0.1	773	1DX15
MPA59214	REP	621215	6990983	4.3	0.6	6.9	66	0.05	19.1	10.1	4.6	0.2	0.4	0.1	787	1DX15
MPA59215	Soil	621224	6990933	2.1	0.9	7.6	57	0.05	23.9	10.6	6.1	0.2	0.4	0.1	704	1DX15
MPA59216	Soil	621232	6990885	0.7	0.6	4.4	68	0.05	10	8.1	2.8	0.05	0.2	0.05	276	1DX15
MPA59217	Soil	621231	6990835	0.8	1.3	5.9	51	0.05	10.8	7.8	4.6	0.1	0.3	0.05	401	1DX15
MPA59218	Soil	621241	6990784	0.25	0.9	6.8	57	0.05	18.5	9.2	9.7	0.05	0.4	0.1	234	1DX15
MPA59219	Soil	621245	6990734	0.25	1.2	8.5	69	0.05	45	11.6	7.8	0.1	0.4	0.1	411	1DX15
MPA59220	Soil	621244	6990682	0.25	0.8	6.5	69	0.05	12.2	8.3	6.3	0.05	0.4	0.05	240	1DX15
MPA59221	Soil	621244	6990631	4.8	0.9	6.6	52	0.05	21.8	9.3	8.1	0.05	0.5	0.05	405	1DX15
MPA59222	Soil	621232	6990582	0.25	0.9	6.2	85	0.05	10.6	8.7	4.3	0.05	0.3	0.05	329	1DX15
MPA59223	Soil	621227	6990583	4.4	1	6	84	0.05	10	9	4.6	0.05	0.4	0.05	334	1DX15
MPA59224	Soil	621257	6990543	31.2	2	7.4	60	0.05	19.8	11.5	5.6	0.1	0.5	0.05	513	1DX15
MPA59225	Soil	621267	6990494	38.3	1.2	7.9	39	0.05	23.6	9.5	4.8	0.2	0.5	0.05	950	1DX15
MPA59226	Soil	621275	6990445	14.4	3.7	7.1	74	0.05	17.9	13.1	5.4	0.1	0.5	0.05	280	1DX15
MPA59227	Soil	621286	6990397	13.3	1.2	6.5	58	0.05	20.3	11.3	6.3	0.1	0.4	0.1	608	1DX15
MPA59228	Soil	621298	6990347	5.6	0.6	5.3	46	0.05	18.3	8.7	5	0.2	0.5	0.05	749	1DX15
MPA59229	Soil	621341	6990323	5.7	1	6.3	53	0.1	20.7	12.1	4.5	0.3	0.5	0.05	960	1DX15
MPA59230	Soil	621364	6990279	63.4	2.9	10.3	73	0.05	116	22.2	3.8	0.2	0.5	0.05	1445	1DX15
MPA59231	Soil	621384	6990233	2.2	1.2	6	76	0.05	12.7	19.5	2	0.05	0.3	0.05	748	1DX15
MPA59232	Soil	621417	6990195	3.7	1	7.9	54	0.1	22.9	10.7	5.5	0.2	0.5	0.1	972	1DX15
MPA59233	Soil	621439	6990149	1.2	1.7	5.3	82	0.05	8.3	10.4	2.8	0.05	0.3	0.1	298	1DX15
MPA59234	Soil	621473	6990111	1.8	1.3	6.6	77	0.05	16.1	14.5	6.4	0.1	0.3	0.1	310	1DX15
MPA59234	REP	621473	6990111	0.9	1.3	6.7	80	0.05	17.6	14.7	6.8	0.05	0.3	0.1	327	1DX15
MPA59235	Soil	621499	6990068	0.25	0.8	5.2	113	0.05	14.1	23.2	3.8	0.05	0.3	0.05	325	1DX15
MPA59236	Soil	621528	6990027	1.4	6	8.8	96	0.1	46.1	25.7	12.6	0.2	0.7	0.1	445	1DX15
MPA59237	Soil	622033	6990539	1.5	0.6	5.6	104	0.05	11.5	13.6	3.7	0.1	0.2	0.05	260	1DX15
MPA59238	Soil	622031	6990489	2.4	0.7	9.2	103	0.1	39.5	14.7	4.1	0.4	0.4	0.1	493	1DX15
MPA59239	Soil	622029	6990439	4	1.1	15.5	129	0.2	25.6	14.1	4.9	0.5	0.4	0.2	583	1DX15
MPA59240	Soil	622026	6990389	5.8	1.2	44.1	184	0.7	18.5	13	4.2	1.1	0.3	0.1	355	1DX15
MPA79342	Soil	622019	6990340	3.9	0.8	26.1	161	0.5	22.6	16.9	4.7	0.4	0.3	0.1	406	1DX15
MPA79343	Soil	621960	6987166	0.25	1.9	5.6	112	0.05	11.7	13.4	6.1	0.3	0.3	0.05	428	1DX15
MPA79344	Soil	621933	6987210	0.25	1.6	7.3	75	0.05	17.2	11.8	8.7	0.05	0.4	0.1	335	1DX15
MPA79345	Soil	621913	6987256	0.25	1.4	9.8	63	0.05	20	9.5	8.3	0.1	0.4	0.2	297	1DX15
MPA79346	Soil	621887	6987300	1.7	1.2	7.8	60	0.05	16.7	9.1	8.7	0.05	0.4	0.2	228	1DX15
MPA79347	Soil	621865	6987345	0.7	0.9	8.8	42	0.05	9.6	4.6	6.1	0.1	0.3	0.2	185	1DX15
MPA79348	Soil	621842	6987390	1	1.1	8.4	62	0.05	20.4	8.8	9.8	0.2	0.4	0.2	213	1DX15
MPA79349	Soil	621828	6987438	1	0.7	7.4	21	0.05	3.5	2	2.4	0.2	0.2	0.2	99	1DX15
MPA79350	Soil	621810	6987486	0.25	2.2	12.4	60	0.05	25.4	10.9	10	0.2	0.4	0.2	568	1DX15

MPA79351	Soil	621793	6987534	8.6	1	7.2	61	0.05	18.4	9.2	7	0.1	0.4	0.1	252	1DX15
MPA79352	Soil	621778	6987583	1.9	1.3	10.2	67	0.05	16.9	9.5	11.3	0.1	0.5	0.2	161	1DX15
MPA79353	Soil	621762	6987630	1.3	1	6	75	0.05	23.4	16.3	6.8	0.05	0.6	0.05	208	1DX15
MPA81758	Soil	621185	6991233	7.3	2.2	6.9	65	0.05	17.6	11.9	5.1	0.1	0.3	0.05	592	1DX15
MPA81759	Soil	621178	6991283	12	1.1	7.7	73	0.1	17.2	10.6	3.7	0.2	0.4	0.1	557	1DX15
MPA81760	Soil	621170	6991332	14.7	1.4	7.5	62	0.05	14.4	10	4.4	0.2	0.4	0.05	439	1DX15
MPA81761	Soil	621154	6991379	8.3	1.2	8.8	63	0.05	18.4	10.8	6.1	0.1	0.4	0.1	403	1DX15
MPA81762	Soil	621108	6991403	7.3	1	8.4	62	0.05	15.7	9.6	4.5	0.3	0.4	0.1	496	1DX15
MPA81763	Soil	621063	6991429	6.6	1	8.3	58	0.1	14.5	11.5	4	0.2	0.4	0.1	634	1DX15
MPA81764	Soil	621021	6991458	2.1	0.9	8.3	61	0.05	21.2	10.6	7.1	0.2	0.5	0.1	234	1DX15
MPA81765	Soil	620978	6991486	5.7	0.8	8.1	57	0.05	21.2	9.4	7	0.2	0.5	0.1	221	1DX15
MPA81766	Soil	620935	6991513	4.6	0.7	8	65	0.05	20.3	9.9	5.4	0.2	0.5	0.2	377	1DX15
MPA81767	Soil	620870	6991586	1.5	0.3	3	89	0.05	8.9	15.5	1.2	0.05	0.1	0.05	594	1DX15
MPA81768	Soil	620870	6991599	1.7	0.3	1.6	130	0.05	10.4	22.2	0.7	0.05	0.05	0.05	624	1DX15
MPA81769	Soil	620891	6991633	5	0.5	6.5	60	0.05	14.8	11	5.4	0.05	0.3	0.1	375	1DX15
MPA81770	Soil	620910	6991681	2.3	0.3	3.7	73	0.05	7.6	16.1	2.5	0.05	0.2	0.05	373	1DX15
MPA81771	Soil	620932	6991727	1	0.4	5.8	62	0.05	13.5	15.1	5.6	0.05	0.3	0.05	472	1DX15
MPA81772	Soil	620946	6991777	1.1	0.5	7.1	46	0.05	10.1	11.4	4.3	0.05	0.4	0.05	477	1DX15
MPA81773	Soil	620967	6991823	1.3	0.2	3.6	86	0.05	10.3	12.1	1.1	0.05	0.2	0.05	434	1DX15
MPA81773	REP	620967	6991823	1.6	0.2	3.6	85	0.05	10.8	12.1	1.5	0.05	0.1	0.05	436	1DX15
MPA81774	Soil	620985	6991870	4.4	0.7	7.9	69	0.05	21.8	12.2	5.4	0.05	0.4	0.1	469	1DX15
MPA81775	Soil	621008	6991914	3.1	2.1	9	91	0.1	25.9	14.5	9.4	0.1	0.8	0.05	508	1DX15
MPA81776	Soil	620989	6991963	2.4	0.4	4.4	74	0.05	14.3	14.2	3.2	0.05	0.2	0.05	520	1DX15
MPA81777	Soil	620957	6992001	2	0.9	7.1	59	0.05	13.7	11.9	5	0.05	0.2	0.1	371	1DX15
MPA81778	Soil	620931	6992045	4.8	0.7	8	50	0.05	12.3	9	5.8	0.05	0.3	0.1	355	1DX15
MPA81779	Soil	620900	6992085	6	0.7	8.3	49	0.05	21.1	10.3	6.3	0.1	0.4	0.1	626	1DX15
MPA81780	Soil	620872	6992132	2.2	0.5	7.9	45	0.05	28	10.2	4.8	0.05	0.3	0.05	675	1DX15
MPA81781	Soil	620844	6992175	4.9	0.5	6.4	56	0.05	18.7	9.6	4.1	0.05	0.3	0.05	609	1DX15
MPA81782	Soil	620793	6992260	5	0.6	7.9	61	0.05	15.7	10.6	5	0.2	0.4	0.1	660	1DX15
MPA81783	Soil	627522	6988017	5.8	1.8	8.4	73	0.2	13.4	11.6	5	0.3	0.3	0.1	274	1DX15
MPA81784	Soil	627540	6988063	9.1	1.7	10.5	72	0.4	14.3	9.6	3.2	0.1	0.1	0.2	291	1DX15
MPA81784	REP	627540	6988063	8.2	1.6	10.3	71	0.4	14	9.6	2.8	0.05	0.1	0.2	292	1DX15
MPA81785	Soil	627555	6988111	7.5	1.4	10.1	69	0.1	6.9	6.9	4.8	0.1	0.2	0.1	207	1DX15
MPA81786	Soil	627574	6988158	8.5	1.8	10.9	85	0.4	14.9	12.8	7.6	0.3	0.4	0.3	301	1DX15
MPA81787	Soil	627590	6988207	15.8	0.4	3.5	94	0.05	9.4	19.4	2.1	0.1	0.2	0.05	376	1DX15
MPA81788	Soil	627608	6988254	2.4	0.4	3.6	108	0.05	9.8	18.5	1	0.05	0.2	0.05	339	1DX15
MPA81789	Soil	627621	6988302	1	0.4	2.9	98	0.05	6	18.9	1.4	0.05	0.1	0.05	474	1DX15
MPA81790	Soil	627627	6988353	2.4	0.8	13.8	95	0.05	10.1	15.6	3.5	0.1	0.2	0.05	187	1DX15
MPA81791	Soil	627618	6988403	4.1	1.2	31.5	152	0.1	15.6	16.7	19.1	0.3	0.7	1.2	281	1DX15
MPA81792	Soil	627610	6988452	2.8	2.4	22.1	241	0.5	9.6	16.5	2.9	0.2	0.2	0.3	445	1DX15
MPA81793	Soil	627600	6988502	3.9	2.8	9.8	76	0.7	10.8	7.5	19.4	0.1	0.5	18.4	236	1DX15
MPA81794	Soil	627590	6988552	2.1	2.3	16.2	146	0.05	13.2	8.4	14	0.4	0.7	0.3	155	1DX15
MPA81795	Soil	627581	6988604	10.8	3	18.1	193	0.3	30.7	8.7	26.8	0.4	1.2	0.5	325	1DX15
MPA81796	Soil	627575	6988632	4.3	2.2	12.1	108	0.2	19	7.8	20.4	0.2	0.8	0.3	243	1DX15
MPA81796	REP	627575	6988632	3	2.4	12.9	110	0.3	19.9	8.4	21.4	0.2	0.8	0.3	269	1DX15
MPA81797	Soil	627057	6988574	2.5	0.4	5.6	70	0.2	7	11.6	2.2	0.05	0.2	0.05	287	1DX15
MPA81798	Soil	627023	6988536	3.7	0.7	7	100	0.2	10.2	20.6	3.8	0.05	0.2	0.05	333	1DX15
MPA81799	Soil	626987	6988501	5.7	1	6.9	87	0.1	19.2	19.2	5.4	0.05	0.2	0.05	248	1DX15

MPA81801	Soil	626919	6988427	0.8	1.3	4.5	102	0.1	17.7	24.6	2.1	0.05	0.05	0.05	217	1DX15
MPA81802	Soil	626881	6988392	4.4	0.9	5.2	80	0.05	17.5	12.6	4.9	0.05	0.3	0.1	255	1DX15
MPA81803	Soil	626842	6988359	2.4	0.8	4.8	97	0.05	13.5	12.6	3.6	0.05	0.2	0.05	329	1DX15
MPA81804	Soil	626810	6988320	3.7	1.9	7.3	81	0.1	16.6	12.5	7.4	0.05	0.3	0.1	299	1DX15
MPA81805	Soil	626775	6988283	2.3	1.6	5.4	85	0.05	13.3	12.5	5.7	0.05	0.3	0.2	308	1DX15
MPA81806	Soil	626745	6988241	11.4	0.8	6.4	114	0.05	11	15	2.3	0.1	0.1	0.05	316	1DX15
MPA81807	Soil	626721	6988196	0.25	1.4	12.5	139	0.05	13.3	12.2	5.2	0.05	0.2	0.05	354	1DX15
MPA81808	Soil	626694	6988153	0.25	1.1	4.2	97	0.05	11.1	10.3	4	0.05	0.2	0.05	261	1DX15
MPA81809	Soil	626667	6988111	1	1	4	131	0.05	11.4	12.8	2.9	0.05	0.2	0.05	301	1DX15
MPA81810	Soil	626642	6988065	5	1.5	6.9	91	0.05	15.9	17.7	4.3	0.05	0.5	0.05	477	1DX15
MPA81811	Soil	626616	6988020	8	0.9	5.4	78	0.05	16.4	13.6	5.4	0.05	0.6	0.05	391	1DX15
MPA82892	Soil	622192	6988329	0.25	1.2	12.7	109	0.05	13.7	11.1	5	0.1	0.3	0.05	226	1DX15
MPA82893	Soil	622141	6988316	0.5	1.1	9.9	72	0.05	17.2	11.4	8.6	0.2	0.4	0.1	339	1DX15
MPA82894	Soil	622090	6988309	1.1	0.9	7.2	75	0.05	20	16.2	6.3	0.2	0.4	0.1	351	1DX15
MPA82895	Soil	622039	6988313	6.1	0.4	4.7	78	0.05	14.2	19.4	4.7	0.05	0.2	0.05	393	1DX15
MPA82896	Soil	621988	6988315	1.1	0.6	7.6	82	0.1	19.9	22.8	3	0.3	0.3	0.1	533	1DX15
MPA82897	Soil	621941	6988297	2.7	0.9	6.2	73	0.2	28	21.6	19.3	0.2	0.4	0.05	383	1DX15
MPA82897	REP	621941	6988297	2.7	0.8	6.1	70	0.2	26.2	21.5	19.4	0.05	0.4	0.05	370	1DX15
MPA82898	Soil	621898	6988268	2.2	0.8	12.2	59	0.05	16.9	10.3	11.9	0.05	0.4	0.05	264	1DX15
MPA82899	Soil	621898	6988268	3	0.8	12.8	62	0.05	16.5	10.8	13.7	0.05	0.4	0.1	299	1DX15
MPA82900	Soil	621853	6988254	3.5	1.7	8.3	81	0.05	12.1	13.2	8.2	0.05	0.2	0.1	199	1DX15
MPA83951	Soil	620424	6988541	0.25	0.3	1.8	70	0.05	12.7	26.4	1.4	0.05	0.05	0.05	288	1DX15
MPA83952	Soil	620441	6988588	0.9	0.3	1.7	90	0.05	7.6	26.3	0.7	0.1	0.05	0.05	415	1DX15
MPA83953	Soil	620455	6988638	0.7	0.5	3.1	72	0.05	11.4	16.6	3.6	0.05	0.2	0.05	290	1DX15
MPA83954	Soil	620472	6988686	1.1	0.7	5.1	72	0.1	7.4	9.6	3.6	0.3	0.2	0.1	256	1DX15
MPA83955	Soil	620478	6988736	2.7	0.2	2.9	64	0.05	33.5	21.8	1.6	0.05	0.1	0.05	268	1DX15
MPA83956	Soil	620495	6988785	2.9	0.8	5.5	45	0.05	15.8	11	6.9	0.05	0.3	0.05	243	1DX15
MPA83957	Soil	620520	6988828	1	0.5	14.8	34	0.05	2.8	5.8	1.7	0.05	0.05	0.05	113	1DX15
MPA83958	Soil	620554	6988868	5	1.5	23.6	45	0.1	8.4	12.3	5.7	0.05	0.2	0.1	200	1DX15
MPA83959	Soil	620570	6988916	2.4	1.6	24.3	47	0.1	7.2	7.8	9.9	0.05	0.3	0.5	154	1DX15
MPA83960	Soil	620591	6988964	0.25	1.5	18.5	44	0.05	5.3	7.5	4	0.1	0.2	0.2	155	1DX15
MPA83961	Soil	620630	6988999	0.8	1.8	12.3	66	0.05	6.9	11.6	5.5	0.1	0.1	0.1	191	1DX15
MPA83962	Soil	620656	6989044	4.1	1.6	40.9	36	0.05	4.7	5.2	41.7	0.05	0.3	0.5	174	1DX15
MPA83963	Soil	620690	6989081	6.6	2.4	171	268	0.2	9.1	6.2	34	0.3	0.2	4.1	141	1DX15
MPA83964	Soil	620723	6989119	2.5	1.7	113	70	0.1	4	1.8	20.8	0.05	0.2	5.3	175	1DX15
MPA83965	Soil	620759	6989157	3.3	1.5	35.9	58	0.05	9.5	4	9	0.05	0.3	0.8	80	1DX15
MPA83966	Soil	620793	6989193	1.4	3	28.2	37	0.05	3.1	1.5	14.2	0.05	0.2	0.8	122	1DX15
MPA83966	REP	620793	6989193	1.1	3.1	26.2	36	0.05	2.9	1.4	14.4	0.05	0.2	0.7	121	1DX15
MPA83967	Soil	620825	6989231	2.5	3.4	189	121	0.5	7.3	3.6	17.7	0.1	0.3	4.2	122	1DX15
MPA83968	Soil	620860	6989268	9	1.3	126	203	0.5	9	7	11.9	0.3	0.3	5.6	130	1DX15
MPA83969	Soil	620892	6989306	9.4	1.8	106	123	0.2	3.3	2.4	20.3	0.4	0.2	3.9	126	1DX15
MPA83970	Soil	620926	6989344	6.2	2.1	85.9	157	0.2	5.1	3.3	13.2	0.1	0.3	0.5	132	1DX15
MPA83971	Soil	620965	6989376	4.7	0.9	21.2	146	0.05	10.8	7	5.9	0.1	0.3	0.3	160	1DX15
MPA83972	Soil	620999	6989413	1.5	3.1	16	287	0.2	12.6	10.6	64.9	0.4	0.3	0.2	126	1DX15
MPA83973	Soil	621038	6989447	2.1	1.1	7	78	0.05	8.1	6.7	7	0.1	0.2	0.1	256	1DX15
MPA83974	Soil	621071	6989485	0.25	1.8	8.1	89	0.05	13.3	13.6	7.5	0.05	0.2	0.1	218	1DX15
MPA83975	Soil	621114	6989512	0.25	1.8	7.6	72	0.05	8.9	10.4	13	0.05	0.4	0.05	207	1DX15
MPA83976	Soil	621152	6989549	1.6	1.3	7.8	82	0.05	6.9	4.4	25.1	0.05	1	0.1	432	1DX15

MPA83977	Soil	621191	6989579	0.25	1.2	5.5	111	0.05	8.5	15.7	8.5	0.05	0.2	0.05	269	1DX15
MPA83977	REP	621191	6989579	1.6	1.3	5.7	109	0.05	8.6	16.1	8.9	0.05	0.2	0.05	270	1DX15
MPA83978	Soil	621229	6989612	0.25	1	6.3	79	0.05	10.3	19.6	5.7	0.05	0.2	0.05	286	1DX15
MPA83979	Soil	621270	6989643	1.7	1	8.5	59	0.05	15.1	12	6	0.05	0.3	0.1	227	1DX15
MPA83980	Soil	621311	6989674	2.8	1.1	10.1	62	0.05	17.7	10.9	9.2	0.05	0.5	0.1	212	1DX15
MPA85150	Soil	621751	6987678	1.4	2.7	6.3	73	0.05	25.5	16.4	4.7	0.05	0.3	0.05	225	1DX15
MPA85151	Soil	621735	6987727	2.5	1.1	8.2	63	0.05	24.5	13.2	5.9	0.1	0.4	0.1	269	1DX15
MPA85152	Soil	621713	6987773	0.6	0.9	8.6	71	0.05	24.8	16	5.4	0.05	0.4	0.1	297	1DX15
MPA85153	Soil	621693	6987819	1.2	0.9	8.9	57	0.05	21.8	10.9	5.3	0.1	0.4	0.2	262	1DX15
MPA85154	Soil	621681	6987868	2.3	0.9	8.4	74	0.05	25.1	15.2	5.5	0.05	0.5	0.2	328	1DX15
MPA85155	Soil	621670	6987916	1.4	1.2	9.4	77	0.1	23.8	14.5	5.9	0.2	0.5	0.2	294	1DX15
MPA85156	Soil	621668	6987916	4	1.2	9.1	76	0.1	24.8	13.6	5.6	0.2	0.6	0.2	298	1DX15
MPA85157	Soil	621657	6987966	1.9	0.8	9.2	70	0.05	22.6	12	6.1	0.3	0.6	0.2	269	1DX15
MPA87424	Soil	624798	6988631	5.1	0.4	6.7	103	0.05	11	18.1	2	0.1	0.1	0.1	427	1DX15
MPA87425	Soil	624784	6988583	2	0.4	8.9	78	0.05	18.7	14.3	3.7	0.05	0.2	0.1	625	1DX15
MPA87426	Soil	624764	6988538	0.25	0.5	4.4	87	0.05	67.2	27.1	3.4	0.05	0.05	0.05	258	1DX15
MPA87427	Soil	624750	6988489	1.1	4.3	3.9	111	0.05	11.3	18.6	2	0.2	0.2	0.05	524	1DX15
MPA87428	Soil	624734	6988440	1.6	1.8	11.1	108	0.1	12.3	12.3	4.3	0.05	0.5	0.05	430	1DX15
MPA87429	Soil	624727	6988390	3	1.1	18.4	107	0.4	19.1	11.3	4.7	0.2	0.5	0.05	503	1DX15
MPA87430	Soil	624708	6988342	1.2	1	8.6	131	0.3	22.1	13	4.6	0.2	0.4	0.1	1376	1DX15
MPA87431	Soil	624692	6988294	1.3	1	6.4	79	0.05	17.5	11.9	4.4	0.05	0.3	0.1	333	1DX15
MPA87432	Soil	624678	6988245	1	0.9	7.3	52	0.05	11.1	7.2	6.5	0.05	0.3	0.1	245	1DX15
MPA87433	Soil	624659	6988198	1.4	1	7.3	62	0.05	20.9	11.8	9.1	0.05	0.5	0.1	194	1DX15
MPA87434	Soil	624646	6988149	0.6	1	7.6	64	0.05	19	11	7.4	0.05	0.4	0.1	175	1DX15
MPA87435	Soil	624625	6988104	1.4	0.7	5.7	94	0.05	8.4	12.2	2.9	0.05	0.3	0.05	306	1DX15
MPA87436	Soil	624596	6988061	0.9	0.8	6.5	85	0.05	13.5	12.1	6.2	0.05	0.3	0.05	432	1DX15
MPA87437	Soil	624567	6988019	0.25	5	8.3	80	0.05	30.9	8.7	13	0.05	0.3	0.2	225	1DX15
MPA87438	Soil	624536	6987978	1.1	1.5	12.5	56	0.05	7.8	6	9.9	0.05	0.4	0.2	204	1DX15
MPA87439	Soil	624514	6987931	2.5	3.9	14.4	59	0.05	3.5	5.8	54.6	0.05	0.2	0.3	299	1DX15
MPA87439	REP	624514	6987931	2.4	4.3	14.5	56	0.1	3.1	5.2	61.1	0.05	0.3	0.3	294	1DX15
MPA87440	Soil	624514	6987931	2.1	8.5	15.2	33	0.2	2.5	3	105	0.05	0.2	0.2	237	1DX15
MPA87441	Soil	624484	6987891	1.5	7.6	24.7	13	0.2	3.3	1.3	6.9	0.05	0.1	0.5	154	1DX15
MPA87442	Soil	624455	6987849	0.8	1.7	14.3	92	0.1	3.7	4.3	0.8	0.05	0.05	0.2	225	1DX15
MPA87443	Soil	624425	6987808	1.1	8.8	43.9	55	0.2	5	3.7	12.3	0.05	0.2	0.4	142	1DX15
MPA87444	Soil	624398	6987764	4.3	3.6	42.5	56	0.2	7.1	3.8	20.3	0.05	0.3	0.6	149	1DX15
MPA87445	Soil	624371	6987722	3.8	2.9	31.6	62	0.2	10	4.9	12	0.05	0.3	0.5	153	1DX15
MPA87446	Soil	624339	6987683	7	2.4	30.3	89	0.2	8.8	7.8	10.2	0.1	0.3	0.6	182	1DX15
MPA87447	Soil	624339	6987683	4.2	1.4	17.9	115	0.05	8.6	9.9	6.5	0.2	0.2	0.3	162	1DX15
MPA87448	Soil	624335	6987633	0.25	1.4	6.1	69	0.05	11.6	10	2.1	0.05	0.1	0.05	218	1DX15
MPA87449	Soil	624318	6987586	0.25	0.4	11.1	78	0.05	17.8	19.2	3	0.05	0.2	0.05	383	1DX15
MPA87450	Soil	624303	6987537	0.5	0.7	5.3	64	0.05	13.6	9.8	6.7	0.05	0.4	0.2	274	1DX15
MPA87451	Soil	624286	6987489	1.4	0.4	5.9	143	0.05	14.8	14.9	5.7	0.05	0.3	0.1	334	1DX15
MPA87452	Soil	624277	6987441	2.9	0.5	6.4	81	0.05	21.3	13.6	8.6	0.05	0.5	0.1	388	1DX15
MPA87453	Soil	624260	6987393	0.25	1	5	90	0.1	9.9	14.4	7.4	0.05	0.2	0.1	447	1DX15
MPA87454	Soil	624251	6987344	1.9	0.5	6.3	105	0.2	10.6	11.5	5.4	0.05	0.3	0.05	321	1DX15
MPA87455	Soil	624233	6987295	1	2	79.8	78	0.3	7.5	8.5	19.5	0.1	0.3	9.1	212	1DX15
MPA87456	Soil	624214	6987238	1.1	1.1	43.1	88	0.1	15.5	8.1	12.3	0.2	0.4	1.5	148	1DX15
MPA87457	Soil	621210	6991031	9.3	0.7	5.5	72	0.05	15.5	9.8	5.1	0.1	0.3	0.05	581	1DX15

MPA87458	Soil	621205	6991081	1.9	1.2	7.3	69	0.05	17.4	11.8	5.8	0.2	0.3	0.1	771	1DX15
MPA87458	REP	621205	6991081	2	1.2	7.1	69	0.05	16.9	12.1	6.2	0.1	0.3	0.1	784	1DX15
MPA87459	Soil	621199	6991132	3	1.3	6	90	0.05	15.2	11.4	3.8	0.05	0.6	0.05	665	1DX15
MPA87460	Soil	621192	6991182	7.5	3.3	5.1	85	0.05	13.4	12.8	5	0.05	0.2	0.05	384	1DX15
MPA87850	Soil	621853	6988254	2.9	1.7	7.9	77	0.05	11	13.2	8.5	0.05	0.2	0.1	187	1DX15
MPA87857	Soil	625295	6987701	0.25	2.3	10.7	47	0.05	4.5	5.4	4.7	0.1	0.2	0.05	105	1DX15
MPA87858	Soil	625295	6987752	5.3	1.2	11.4	42	0.05	12.2	8.4	6.8	0.05	0.4	0.1	169	1DX15
MPA87859	Soil	625296	6987802	0.25	3	15.6	68	0.05	6.3	9.1	5.3	0.05	0.4	0.2	166	1DX15
MPA87860	Soil	625297	6987852	4.9	1.3	8.1	70	0.05	13.8	9.1	6.1	0.05	0.4	0.2	357	1DX15
MPA87861	Soil	625299	6987903	3.5	1.5	10.2	50	0.05	22.6	10.8	8.9	0.05	0.6	0.2	236	1DX15
MPA87861	REP	625299	6987903	4.2	1.4	10.6	48	0.05	20.9	10.4	9	0.05	0.6	0.1	232	1DX15
MPA87862	Soil	625297	6987955	0.8	3	11.6	74	0.05	23.9	10.8	68.7	0.05	0.7	0.1	254	1DX15
MPA87863	Soil	625318	6988000	2.4	0.5	5.3	51	0.05	35.7	22.7	5.1	0.05	0.3	0.05	346	1DX15
MPA87864	Soil	625338	6988047	3.5	0.7	8.6	51	0.05	19.8	8.7	7.7	0.05	0.6	0.1	320	1DX15
MPA87865	Soil	625360	6988097	5.6	0.6	8.9	46	0.05	19.1	8.9	7.7	0.05	0.5	0.1	236	1DX15
MPA87866	Soil	625380	6988144	3.4	0.8	6.2	91	0.05	14.4	13.6	3.5	0.05	0.3	0.05	312	1DX15
MPA87867	Soil	625406	6988186	8	0.8	7.6	56	0.05	18.2	10.3	6.5	0.05	0.5	0.1	293	1DX15
MPA87868	Soil	625426	6988232	12	1.5	10.1	58	0.2	18.3	10.7	5.9	0.1	0.4	0.2	396	1DX15
MPA87869	Soil	625443	6988281	1.2	1	7.5	74	0.05	20.5	14.2	8.1	0.05	0.5	0.1	306	1DX15
MPA87870	Soil	625468	6988326	0.8	3	12.4	57	0.2	34.3	13.6	6.8	0.05	0.3	0.05	247	1DX15
MPA87871	Soil	625494	6988371	1	1.3	8.8	58	0.05	18.8	10.3	6.6	0.05	0.3	0.1	200	1DX15
MPA87872	Soil	625515	6988418	0.25	0.5	5.8	105	0.05	9.6	13.3	2.9	0.05	0.1	0.05	343	1DX15
MPA87873	Soil	625535	6988465	0.25	1	5.1	78	0.05	12.5	13.5	3.9	0.05	0.2	0.05	237	1DX15
MPA87874	Soil	625982	6988474	0.25	0.4	5.1	57	0.05	27.8	13.7	3.5	0.05	0.2	0.05	198	1DX15
MPA87875	Soil	626016	6988439	0.5	0.4	8.8	48	0.05	36.3	12.5	5.9	0.1	0.3	0.05	98	1DX15
MPA87876	Soil	626045	6988398	1.1	0.9	10	84	0.05	23.4	13.5	10.6	0.1	0.4	0.2	240	1DX15
MPA87877	Soil	626062	6988351	0.25	1.5	5.1	74	0.05	13.7	17.5	4.8	0.05	0.3	0.05	258	1DX15
MPA87878	Soil	626089	6988307	0.25	0.3	4.4	85	0.05	14.9	20.6	4.5	0.05	0.2	0.05	255	1DX15
MPA87879	Soil	626113	6988262	0.25	0.7	7.8	73	0.05	22	11.2	7.1	0.05	0.5	0.05	180	1DX15
MPA87880	Soil	626138	6988217	4.1	0.5	5.3	111	0.05	15	17.3	4.6	0.05	0.2	0.05	359	1DX15
MPA87881	Soil	626164	6988172	0.25	0.6	7.6	85	0.05	25.2	16.9	5.7	0.05	0.4	0.05	286	1DX15
MPA87882	Soil	626185	6988125	1.8	1.3	7.5	77	0.05	46.4	17.1	9.3	0.05	0.6	0.1	221	1DX15
MPA87883	Soil	626190	6988074	0.25	0.9	9.9	49	0.05	24.9	9.3	10.3	0.05	0.5	0.1	200	1DX15
MPA87884	Soil	626185	6988021	0.25	0.9	9.1	39	0.05	11.6	5.8	3.8	0.1	0.4	0.1	399	1DX15
MPA87885	Soil	626171	6987971	0.25	0.7	7.6	62	0.05	24.3	11.5	10.2	0.05	0.5	0.1	225	1DX15
MPA87886	Soil	622098	6986482	0.9	1.1	10.4	57	0.05	14.6	9.1	8.4	0.05	0.6	0.2	169	1DX15
MPA87887	Soil	622095	6986533	0.25	0.6	7.4	66	0.05	7.5	8.5	4.7	0.2	0.3	0.05	95	1DX15
MPA87888	Soil	622085	6986581	4.1	0.6	10.8	65	0.05	11.5	8.7	4.7	0.2	0.4	0.1	163	1DX15
MPA87889	Soil	622077	6986631	2.9	1	11.5	43	0.05	11.8	5.9	8.5	0.05	0.5	0.2	108	1DX15
MPA87889	REP	622077	6986631	2.2	1	11.4	41	0.05	11.8	5.9	8.6	0.1	0.5	0.2	105	1DX15
MPA87890	Soil	622075	6986683	0.8	1.1	9.6	36	0.05	7.7	3.9	5.7	0.1	0.3	0.1	93	1DX15
MPA87891	Soil	622069	6986732	0.25	1.9	6.4	68	0.05	7.5	8.6	3.2	0.05	0.2	0.05	135	1DX15
MPA87892	Soil	622067	6986782	2.7	1.7	8.3	60	0.05	12.6	7.6	5.8	0.05	0.3	0.1	146	1DX15
MPA87893	Soil	622057	6986831	1.3	1.1	8.4	67	0.05	14.1	9.9	6.5	0.05	0.4	0.1	200	1DX15
MPA87894	Soil	622058	6986881	0.25	0.9	11.4	77	0.05	10.4	7.5	5.5	0.05	0.3	0.1	125	1DX15
MPA87895	Soil	622051	6986932	0.25	0.9	7.2	73	0.05	14.1	10.1	6.6	0.2	0.3	0.1	215	1DX15
MPA87896	Soil	622045	6986983	0.25	0.7	6.7	53	0.05	6.1	4.6	3.4	0.2	0.2	0.1	177	1DX15
MPA87897	Soil	622027	6987030	0.25	2.4	6.5	65	0.05	10.8	5.8	2.5	0.05	0.5	0.05	106	1DX15

MPA87898	Soil	622003	6987074	1.2	1.6	6.9	26	0.1	3.4	2.1	1.4	0.3	0.2	0.2	112	1DX15
MPA87899	Soil	621979	6987118	2.7	4.6	5.8	118	0.2	33.8	13.4	9.6	0.4	0.4	0.1	274	1DX15
MPA87900	Soil	624356	6988701	1.3	1	8.2	60	0.1	30.8	12.7	5.8	0.1	0.4	0.1	376	1DX15
MPA87901	Soil	624361	6988651	0.25	0.3	2.5	91	0.05	6.9	12.3	2.2	0.05	0.2	0.05	337	1DX15
MPA87902	Soil	624363	6988652	1.1	0.3	2.7	101	0.05	7.1	12.8	2.1	0.05	0.2	0.05	383	1DX15
MPA87903	Soil	624332	6988613	3.1	0.8	7.3	60	0.05	14.5	10.9	5	0.05	0.3	0.1	190	1DX15
MPA87904	Soil	624304	6988572	3.3	0.8	7.2	70	0.05	17.4	11	6.1	0.05	0.3	0.1	228	1DX15
MPA87905	Soil	624276	6988530	2.4	0.9	7.2	66	0.05	17.8	11.9	5.8	0.1	0.3	0.1	556	1DX15
MPA87906	Soil	624256	6988485	2	1.6	6.3	83	0.05	12.7	9.3	4.2	0.05	0.3	0.05	439	1DX15
MPA87907	Soil	624220	6988449	1.7	0.9	6.9	76	0.05	12.5	9.1	4.2	0.05	0.3	0.1	429	1DX15
MPA87908	Soil	624198	6988403	0.7	0.8	6.7	69	0.05	14	9.3	4.7	0.05	0.3	0.1	418	1DX15
MPA87909	Soil	624173	6988359	4.8	1.2	6.9	71	0.05	14.3	9.5	6.3	0.05	0.3	0.1	268	1DX15
MPA87910	Soil	624145	6988318	0.25	0.7	8.2	100	0.05	7.2	9.5	1.7	0.05	0.1	0.1	484	1DX15
MPA87911	Soil	624122	6988274	2.8	1.3	8.3	84	0.2	21	12.4	4.6	0.2	0.3	0.1	504	1DX15
MPA87912	Soil	624095	6988232	0.6	0.9	7.2	65	0.05	14.4	9.9	5.4	0.05	0.3	0.1	324	1DX15
MPA87912	REP	624095	6988232	0.25	1	7.6	63	0.05	13.7	9.7	5	0.05	0.3	0.1	306	1DX15
MPA87913	Soil	624071	6988189	0.7	1.6	7.6	64	0.05	13.9	8.4	7.1	0.05	0.3	0.1	218	1DX15
MPA87914	Soil	624051	6988143	0.25	4.9	15	169	0.05	33.4	19.8	20.4	0.1	0.5	0.2	308	1DX15
MPA87915	Soil	624032	6988096	2	2.4	9.4	80	0.2	15.3	8.6	11.5	0.05	0.3	0.1	280	1DX15
MPA87916	Soil	624012	6988049	3.6	2.1	18	101	0.2	14.7	8	14.3	0.1	0.4	0.2	180	1DX15
MPA87917	Soil	623988	6988006	6.1	2.7	24.3	45	0.2	6.7	7.9	12.9	0.2	0.3	0.4	157	1DX15
MPA87918	Soil	623964	6987962	4.9	2.5	30.1	69	0.2	9.2	6.6	10.8	0.05	0.3	0.3	190	1DX15
MPA87919	Soil	623938	6987917	6.9	3	63.7	96	0.5	18.2	6.8	11	0.9	0.3	0.8	228	1DX15
MPA87920	Soil	623910	6987876	9.8	12.7	177	350	0.7	55.5	18	30.3	0.6	0.3	5.2	312	1DX15
MPA87921	Soil	623883	6987834	0.25	2	28.8	67	0.2	8.2	5.4	12.3	0.1	0.3	0.4	192	1DX15
MPA87922	Soil	623855	6987793	3.1	1.4	9.1	88	0.1	11.1	12.5	4.4	0.05	0.2	0.05	312	1DX15
MPA87923	Soil	623826	6987752	1.8	1	5.1	90	0.05	4.3	12.2	3.2	0.05	0.2	0.05	141	1DX15
MPA87924	Soil	623795	6987710	10.7	1.1	8.3	70	0.05	12.5	12.7	9.5	0.05	0.3	0.05	188	1DX15
MPA87925	Soil	623776	6987665	12.4	1	6.3	65	0.1	20.1	12.3	6	0.05	0.3	0.1	302	1DX15
MPA87926	Soil	623751	6987621	1	0.6	7.2	87	0.05	11.1	12.1	4.1	0.2	0.2	0.05	412	1DX15
MPA87926	REP	623751	6987621	2.3	0.6	4.5	91	0.05	11.5	12.1	4	0.2	0.2	0.05	406	1DX15
MPA87927	Soil	623731	6987575	0.7	0.8	6	80	0.1	6.5	8	2.5	0.2	0.1	0.1	346	1DX15
MPA87928	Soil	623717	6987526	2.8	0.8	6.9	74	0.05	19.6	12.3	8.1	0.05	0.4	0.1	349	1DX15
MPA87929	Soil	623694	6987481	0.25	1.6	14.1	76	0.05	8.1	9.8	10.6	0.05	0.2	0.2	207	1DX15
MPA87930	Soil	623676	6987435	4.6	1.8	26.1	73	0.2	23.8	11.5	19.6	0.3	0.4	0.7	371	1DX15
MPA87931	Soil	623660	6987387	0.25	1.7	11.3	91	0.1	16.2	19.9	8.2	0.05	0.1	1	270	1DX15
MPA87932	Soil	623634	6987344	1.2	1.3	20	83	0.2	20.5	15	18.3	0.1	0.3	1.2	311	1DX15
MPA87933	Soil	623626	6987294	18	0.8	6.5	69	0.05	24.6	15	7.3	0.05	0.3	0.1	183	1DX15
MPA87967	Soil	622012	6988601	1.7	0.9	6.5	54	0.05	17.3	17.4	6.8	0.1	0.3	0.1	352	1DX15
MPA87968	Soil	622004	6988652	1.4	0.7	8.1	58	0.05	25.6	21.6	4.6	0.05	0.2	0.1	327	1DX15
MPA87969	Soil	621996	6988702	1.3	1.3	7.8	68	0.05	15	12.5	7.5	0.05	0.4	0.1	266	1DX15
MPA87970	Soil	621987	6988753	2.1	1.3	6.7	61	0.05	19.2	13.2	7.6	0.05	0.3	0.1	314	1DX15
MPA87971	Soil	621977	6988803	1.5	1.1	6.4	72	0.05	13.7	13.1	5.9	0.05	0.3	0.05	311	1DX15
MPA87972	Soil	621968	6988853	1.9	1	5.6	70	0.05	18.1	13.8	5.2	0.05	0.2	0.05	226	1DX15
MPA87972	REP	621968	6988853	2	1.2	5.3	68	0.05	17.1	13.5	4.6	0.05	0.3	0.05	224	1DX15
MPA87973	Soil	621959	6988904	1.8	1.1	6.4	60	0.05	16.1	11.9	7.1	0.05	0.3	0.1	372	1DX15
MPA87974	Soil	621951	6988954	2.6	1	6.6	63	0.05	14.2	10.1	7	0.05	0.3	0.1	273	1DX15
MPA87975	Soil	621943	6989005	2.4	1.1	6.2	66	0.05	16.4	11.8	5.9	0.05	0.3	0.1	289	1DX15

MPA87976	Soil	621934	6989056	3	1.2	6.5	66	0.05	15.3	10.9	6.9	0.05	0.3	0.1	269	1DX15
MPA87977	Soil	621938	6989107	3.1	1.1	7	64	0.05	16	10.5	7.4	0.05	0.3	0.1	314	1DX15
MPA87978	Soil	621935	6989158	2.7	0.9	6.7	67	0.05	15.2	10.1	6.1	0.1	0.3	0.1	288	1DX15
MPA87979	Soil	621937	6989216	1.4	1	6.1	66	0.05	17	10.3	6	0.05	0.4	0.1	531	1DX15
MPA87980	Soil	621941	6989267	0.7	1.4	8.6	79	0.05	21.6	12	6.3	0.05	0.4	0.1	332	1DX15
MPA87981	Soil	621943	6989317	2.2	3.9	9.9	89	0.05	94.3	30.2	4.3	0.05	0.2	0.05	413	1DX15
MPA87982	Soil	621934	6989056	1.9	1.4	6.9	65	0.05	16.3	10.9	7.2	0.05	0.3	0.1	274	1DX15
MPA87983	Soil	621946	6989369	4.1	1.4	5.7	66	0.05	17.6	15.4	5.3	0.05	0.2	0.05	278	1DX15
MPA87984	Soil	621946	6989420	1.7	2.6	6	60	0.05	13.4	12	7.8	0.05	0.2	0.1	269	1DX15
MPA87985	Soil	621949	6989471	0.9	4.2	3.7	81	0.05	9.6	17.5	4	0.05	0.1	0.05	217	1DX15
MPA87986	Soil	621953	6989522	5.2	5	7.7	62	0.1	9.7	12.2	15.7	0.05	0.3	0.1	207	1DX15
MPA87987	Soil	621955	6989573	1.9	3	5.3	61	0.05	17.3	12.1	11.6	0.05	0.4	0.05	259	1DX15
MPA87988	Soil	621958	6989623	2.1	0.9	3.7	66	0.05	16.6	12.8	3.3	0.05	0.1	0.05	237	1DX15
MPA87989	Soil	621959	6989674	2.3	1.3	5	73	0.05	15	12.3	4.4	0.05	0.2	0.05	261	1DX15
MPA87990	Soil	621967	6989724	1.9	1.6	5	71	0.05	12.4	14.4	3.9	0.05	0.2	0.05	309	1DX15
MPA87991	Soil	621975	6989774	1.2	1.3	5.2	75	0.1	14.9	11.3	4	0.1	0.2	0.05	391	1DX15
MPA87992	Soil	621974	6989825	2.3	1.1	5.4	59	0.05	22.2	13.3	4.3	0.05	0.2	0.05	283	1DX15
MPA87993	Soil	621993	6989872	2.1	1.2	6	56	0.05	13	8.3	3.6	0.05	0.2	0.1	228	1DX15
MPA87994	Soil	621995	6989924	0.9	1.1	5.5	74	0.05	14.4	10.5	4.2	0.05	0.2	0.05	224	1DX15
MPA87995	Soil	622001	6989975	2.8	0.8	6.2	70	0.05	107	17.4	3.4	0.05	0.1	0.05	343	1DX15
MPA87996	Soil	622013	6990075	1.1	0.5	3.8	105	0.05	9.8	12.8	4	0.05	0.1	0.05	296	1DX15
MPA87996	REP	622013	6990075	0.25	0.5	4.1	104	0.05	10.1	12.7	3.9	0.05	0.1	0.05	301	1DX15
MPA87997	Soil	622019	6990126	1.8	0.4	4	130	0.05	14.6	14.8	2.9	0.05	0.1	0.05	428	1DX15
MPA87998	Soil	622027	6990175	2.1	0.8	5.3	105	0.05	17.4	14.6	4.1	0.05	0.2	0.05	350	1DX15
MPA87999	Soil	622029	6990226	2.1	0.7	5.7	80	0.05	14	9.8	4.5	0.05	0.2	0.1	231	1DX15
MPA88000	Soil	622037	6990278	3.7	1	6	73	0.1	15.5	11.1	4	0.1	0.2	0.1	216	1DX15
MPA82868	Soil	623088	6989038	5	1.4	10.4	68	0.05	28.5	14.5	10.4	0.05	0.6	0.2	190	1DX15
MPA82869	Soil	623081	6988988	1.3	1.6	7.9	66	0.05	23	14.7	7.4	0.05	0.3	0.1	356	1DX15
MPA82870	Soil	623060	6988943	0.8	1	13.6	136	0.05	20.3	13.4	7.2	0.4	0.6	0.2	361	1DX15
MPA82871	Soil	623040	6988896	0.25	1	29	95	0.05	45.7	14.6	9.1	0.3	0.5	0.5	500	1DX15
MPA82872	Soil	623021	6988850	2.8	0.5	3.8	136	0.05	19.5	20.2	2	0.1	0.5	0.05	515	1DX15
MPA82873	Soil	622983	6988814	2.6	1.1	9.1	67	0.05	24.5	12.2	9.7	0.05	0.6	0.2	350	1DX15
MPA82874	Soil	622948	6988777	1.4	1.3	6.9	71	0.05	18.5	8.9	7.7	0.05	0.6	0.2	192	1DX15
MPA82875	Soil	622911	6988743	0.6	1	6.8	121	0.05	16.5	20.2	7.6	0.1	0.5	0.2	274	1DX15
MPA82876	Soil	622883	6988701	11	0.3	3.7	110	0.05	11.7	18.5	4.4	0.05	0.2	0.05	252	1DX15
MPA82877	Soil	622837	6988680	0.25	0.6	4.3	102	0.05	9.6	14.9	4.2	0.05	0.2	0.05	348	1DX15
MPA82878	Soil	622794	6988650	0.25	0.4	3.1	47	0.05	11.1	17.8	2.5	0.2	0.1	0.05	209	1DX15
MPA82879	Soil	622755	6988620	4.1	1.1	6	99	0.05	10.1	9.5	4.2	0.1	0.2	0.05	231	1DX15
MPA82880	Soil	622714	6988592	0.25	1.8	8.7	93	0.05	8.4	8.5	4.9	0.1	0.2	0.1	279	1DX15
MPA82881	Soil	622662	6988598	0.25	0.6	3.6	94	0.05	5.8	20.2	2.1	0.05	0.1	0.05	287	1DX15
MPA82882	Soil	622647	6988549	0.7	0.6	12.1	116	0.05	10.6	16.1	4.8	0.05	0.3	0.05	483	1DX15
MPA82883	Soil	622602	6988525	1.6	1.1	17.1	104	0.05	15.1	14.4	11.2	0.05	0.4	0.2	371	1DX15
MPA82884	Soil	622556	6988500	0.25	1.5	32.3	89	0.1	4.4	4.3	8.4	0.05	0.2	0.2	134	1DX15
MPA82885	Soil	622510	6988475	0.9	2.8	54.4	178	0.3	8.3	10.5	14.3	0.7	0.6	0.6	207	1DX15
MPA82886	Soil	622468	6988444	0.25	12.7	49.7	84	0.1	5.9	3.6	8.3	0.1	0.2	1.3	159	1DX15
MPA82887	Soil	622421	6988423	2.3	0.9	47.9	98	0.2	25.5	11	10.6	0.2	0.6	0.4	288	1DX15
MPA82888	Soil	622374	6988405	3.7	2.1	78.1	302	0.1	46.9	32.2	19.2	1	0.3	1.2	243	1DX15
MPA82888	REP	622374	6988405	0.7	2.2	81	306	0.05	45.2	33.3	19.6	1	0.3	1.3	254	1DX15

MPA82889	Soil	622337	6988369	1.5	0.9	15.2	89	0.05	18.2	10.6	7.6	0.2	0.4	0.1	174	1DX15
MPA82890	Soil	622289	6988349	0.25	0.7	7.8	147	0.05	13.3	8.9	6.8	0.05	0.4	0.1	292	1DX15
MPA82891	Soil	622241	6988335	0.7	0.9	15.6	74	0.05	9.2	8.9	4.3	0.05	0.3	0.1	221	1DX15

APPENDIX III

MARIPOSA RIDGE AND SPUR
ACME LABS
CERTIFICATE OF ANALYSIS

Acme Analytical Laboratories (Vancouver) Ltd.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716
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Client: **Pacific Ridge Exploration Ltd.**
1100 - 1199 West Hastings Street
Vancouver BC V6E 3T5 Canada

Submitted By: Shawn Ryan
Receiving Lab: Canada-Vancouver
Received: November 04, 2009
Report Date: November 23, 2009
Page: 1 of 11

CERTIFICATE OF ANALYSIS VAN09005508.1

CLIENT JOB INFORMATION

Project: MPA
Shipment ID: MPA1
P.O. Number
Number of Samples: 288

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 90 days

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	288	Dry at 60C sieve 100g to -80 mesh			VAN
Dry at 60C	288	Dry at 60C			VAN
1DX2	288	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Pacific Ridge Exploration Ltd.
1100 - 1199 West Hastings Street
Vancouver BC V6E 3T5
Canada

CC: Wayne Roberts

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.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

AcmeLabs Acme Analytical Laboratories (Vancouver) Ltd.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716
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Client: **Pacific Ridge Exploration Ltd.**
1100 - 1199 West Hastings Street
Vancouver BC V6E 3T5 Canada

Project: MPA
Report Date: November 23, 2009

CERTIFICATE OF ANALYSIS VAN09005508.1

	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
MPA 59214	Soil		0.6	34.7	6.8	67	<0.1	19.0	10.3	492	2.56	4.4	1.4	4.8	2.2	42	0.2	0.4	0.1	57	1.41
MPA 59215	Soil		0.9	28.0	7.6	57	<0.1	23.9	10.6	644	2.90	6.1	0.9	2.1	2.8	29	0.2	0.4	0.1	66	0.70
MPA 59216	Soil		0.6	14.3	4.4	68	<0.1	10.0	8.1	423	2.63	2.8	0.5	0.7	3.8	21	<0.1	0.2	<0.1	52	0.62
MPA 59217	Soil		1.3	9.8	5.9	51	<0.1	10.8	7.8	408	2.53	4.6	0.4	0.8	2.4	21	0.1	0.3	<0.1	55	0.53
MPA 59218	Soil		0.9	13.3	6.8	57	<0.1	18.5	9.2	309	2.82	9.7	0.4	<0.5	2.9	23	<0.1	0.4	0.1	60	0.35
MPA 59219	Soil		1.2	14.2	8.5	69	<0.1	45.0	11.6	410	3.42	7.8	0.4	<0.5	2.8	24	0.1	0.4	0.1	77	0.31
MPA 59220	Soil		0.8	9.0	6.5	69	<0.1	12.2	8.3	400	3.15	6.3	0.5	<0.5	3.0	21	<0.1	0.4	<0.1	59	0.32
MPA 59221	Soil		0.9	22.2	6.6	52	<0.1	21.8	9.3	334	2.81	8.1	0.7	4.8	4.3	25	<0.1	0.5	<0.1	62	0.50
MPA 59222	Soil		0.9	7.6	6.2	85	<0.1	10.6	8.7	463	3.62	4.3	0.4	<0.5	4.3	24	<0.1	0.3	<0.1	60	0.61
MPA 59223	Soil		1.0	8.1	6.0	84	<0.1	10.0	9.0	432	3.38	4.6	0.3	4.4	4.0	24	<0.1	0.4	<0.1	61	0.67
MPA 59224	Soil		2.0	37.3	7.4	60	<0.1	19.8	11.5	457	3.56	5.6	0.7	31.2	2.4	22	0.1	0.5	<0.1	73	0.62
MPA 59225	Soil		1.2	41.9	7.9	39	<0.1	23.6	9.5	470	2.32	4.8	1.1	38.3	1.5	56	0.2	0.5	<0.1	48	1.73
MPA 59226	Soil		3.7	20.0	7.1	74	<0.1	17.9	13.1	567	3.37	5.4	0.6	14.4	3.1	31	0.1	0.5	<0.1	61	0.63
MPA 59227	Soil		1.2	34.2	6.5	58	<0.1	20.3	11.3	541	2.77	6.3	1.0	13.3	2.2	47	0.1	0.4	0.1	60	1.26
MPA 59228	Soil		0.6	27.5	5.3	46	<0.1	18.3	8.7	450	2.24	5.0	1.1	5.6	1.2	59	0.2	0.5	<0.1	44	2.11
MPA 59229	Soil		1.0	43.6	6.3	53	0.1	20.7	12.1	1221	2.93	4.5	1.6	5.7	1.9	60	0.3	0.5	<0.1	60	1.88
MPA 59230	Soil		2.9	39.0	10.3	73	<0.1	115.7	22.2	882	4.14	3.8	0.8	63.4	4.8	106	0.2	0.5	<0.1	58	0.90
MPA 59231	Soil		1.2	10.4	6.0	76	<0.1	12.7	19.5	1761	4.83	2.0	0.6	2.2	4.0	20	<0.1	0.3	<0.1	97	0.63
MPA 59232	Soil		1.0	29.0	7.9	54	0.1	22.9	10.7	643	2.89	5.5	1.4	3.7	1.7	44	0.2	0.5	0.1	58	1.15
MPA 59233	Soil		1.7	78.1	5.3	82	<0.1	8.3	10.4	305	3.29	2.8	0.6	1.2	5.8	18	<0.1	0.3	0.1	45	0.41
MPA 59234	Soil		1.3	31.2	6.6	77	<0.1	16.1	14.5	500	3.83	6.4	0.8	1.8	3.3	23	0.1	0.3	0.1	69	0.46
MPA 59235	Soil		0.8	47.6	5.2	113	<0.1	14.1	23.2	367	5.63	3.8	0.5	<0.5	2.7	18	<0.1	0.3	<0.1	136	0.76
MPA 59236	Soil		6.0	51.3	8.8	96	0.1	46.1	25.7	581	6.12	12.6	0.9	1.4	2.8	27	0.2	0.7	0.1	109	0.81
MPA 59237	Soil		0.6	14.0	5.6	104	<0.1	11.5	13.6	737	3.89	3.7	1.0	1.5	5.3	70	0.1	0.2	<0.1	85	0.96
MPA 59238	Soil		0.7	42.1	9.2	103	0.1	39.5	14.7	599	3.80	4.1	1.5	2.4	3.9	90	0.4	0.4	0.1	83	1.28
MPA 59239	Soil		1.1	44.3	15.5	129	0.2	25.6	14.1	484	3.41	4.9	1.0	4.0	3.2	43	0.5	0.4	0.2	58	0.81
MPA 59240	Soil		1.2	57.1	44.1	184	0.7	18.5	13.0	1094	3.72	4.2	1.3	5.8	2.9	33	1.1	0.3	0.1	78	0.95
MPA 79342	Soil		0.8	37.3	26.1	161	0.5	22.6	16.9	789	4.28	4.7	0.9	3.9	2.5	42	0.4	0.3	0.1	94	1.08
MPA 79343	Soil		1.9	14.4	5.6	112	<0.1	11.7	13.4	586	4.95	6.1	0.4	<0.5	2.5	16	0.3	0.3	<0.1	97	0.34
MPA 79344	Soil		1.6	16.7	7.3	75	<0.1	17.2	11.8	342	3.67	8.7	0.7	<0.5	3.3	22	<0.1	0.4	0.1	76	0.32

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Project: MPA
Report Date: November 23, 2009

CERTIFICATE OF ANALYSIS VAN09005508.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
	MDL	0.001	1	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
MPA 59214	Soil	0.091	15	26	0.66	773	0.079	1	1.49	0.018	0.13	0.2	0.06	5.9	<0.1	0.06	5	1.0
MPA 59215	Soil	0.061	15	37	0.71	704	0.082	1	1.69	0.019	0.12	0.1	0.03	4.9	<0.1	<0.05	6	0.6
MPA 59216	Soil	0.138	11	16	0.71	276	0.067	<1	1.38	0.017	0.28	<0.1	<0.01	3.4	0.1	<0.05	6	<0.5
MPA 59217	Soil	0.057	12	19	0.48	401	0.068	<1	1.28	0.015	0.21	0.1	0.01	2.8	<0.1	<0.05	5	0.6
MPA 59218	Soil	0.065	9	25	0.68	234	0.099	<1	1.83	0.011	0.16	0.1	<0.01	2.4	0.1	<0.05	6	<0.5
MPA 59219	Soil	0.061	13	58	0.70	411	0.080	<1	2.11	0.014	0.14	<0.1	0.01	3.3	<0.1	<0.05	8	<0.5
MPA 59220	Soil	0.062	11	19	0.65	240	0.069	<1	1.88	0.014	0.19	<0.1	0.01	4.0	<0.1	<0.05	7	<0.5
MPA 59221	Soil	0.084	19	31	0.62	405	0.080	<1	1.53	0.020	0.10	0.2	0.02	5.5	<0.1	<0.05	5	0.9
MPA 59222	Soil	0.156	13	16	0.87	329	0.078	1	1.95	0.015	0.34	<0.1	<0.01	3.7	<0.1	<0.05	8	<0.5
MPA 59223	Soil	0.148	12	17	0.79	334	0.077	<1	1.83	0.014	0.34	<0.1	<0.01	3.6	0.1	<0.05	7	<0.5
MPA 59224	Soil	0.050	8	30	0.54	513	0.066	<1	1.68	0.016	0.18	<0.1	0.01	5.7	<0.1	<0.05	5	0.6
MPA 59225	Soil	0.064	16	24	0.51	950	0.048	<1	1.27	0.016	0.09	0.1	0.05	4.7	<0.1	0.06	4	1.2
MPA 59226	Soil	0.080	10	25	0.46	280	0.053	2	1.49	0.012	0.21	<0.1	0.02	5.6	0.1	<0.05	5	<0.5
MPA 59227	Soil	0.090	13	26	0.72	608	0.087	<1	1.63	0.024	0.12	0.2	0.05	5.5	<0.1	<0.05	5	0.8
MPA 59228	Soil	0.080	10	21	0.51	749	0.061	1	1.27	0.018	0.12	0.1	0.04	4.0	<0.1	0.07	4	0.9
MPA 59229	Soil	0.080	21	23	0.60	960	0.086	<1	1.62	0.016	0.31	0.2	0.05	7.8	0.1	0.07	5	1.3
MPA 59230	Soil	0.294	28	72	0.82	1445	0.079	<1	1.54	0.014	0.22	<0.1	0.03	9.4	0.1	<0.05	4	0.7
MPA 59231	Soil	0.127	15	12	1.21	748	0.087	<1	2.10	0.010	0.37	<0.1	<0.01	11.8	0.1	<0.05	7	0.8
MPA 59232	Soil	0.075	17	28	0.57	972	0.049	<1	1.76	0.017	0.09	0.1	0.03	5.7	<0.1	<0.05	5	1.0
MPA 59233	Soil	0.039	21	21	0.59	298	0.009	<1	1.81	0.009	0.10	0.2	<0.01	3.7	<0.1	<0.05	6	<0.5
MPA 59234	Soil	0.052	16	27	0.94	310	0.052	<1	1.95	0.012	0.09	0.1	0.02	6.2	<0.1	<0.05	7	0.5
MPA 59235	Soil	0.167	11	21	1.83	325	0.231	<1	2.97	0.011	0.83	<0.1	<0.01	11.9	0.4	<0.05	12	0.6
MPA 59236	Soil	0.133	17	42	0.91	445	0.006	<1	2.69	0.015	0.08	0.1	0.03	14.9	<0.1	<0.05	7	1.1
MPA 59237	Soil	0.203	24	20	1.09	260	0.110	<1	2.24	0.028	0.24	<0.1	0.02	6.4	0.2	<0.05	9	0.8
MPA 59238	Soil	0.153	24	51	1.13	493	0.078	<1	2.14	0.019	0.12	0.1	0.04	6.7	<0.1	<0.05	8	1.2
MPA 59239	Soil	0.081	17	27	0.83	583	0.067	<1	1.78	0.021	0.11	0.1	0.03	6.6	<0.1	<0.05	6	1.0
MPA 59240	Soil	0.104	30	28	0.87	355	0.058	<1	2.21	0.015	0.10	0.1	0.05	8.7	<0.1	<0.05	7	1.0
MPA 79342	Soil	0.099	24	39	1.25	406	0.072	<1	2.74	0.018	0.12	<0.1	0.05	12.3	<0.1	<0.05	10	1.2
MPA 79343	Soil	0.110	7	23	1.25	428	0.272	<1	2.90	0.011	0.90	0.1	0.01	1.8	0.3	<0.05	8	<0.5
MPA 79344	Soil	0.052	14	27	0.83	335	0.149	<1	2.28	0.014	0.18	0.1	0.02	2.8	0.1	<0.05	7	0.7

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Project: MPA
Report Date: November 23, 2009

CERTIFICATE OF ANALYSIS VAN09005508.1

Method		WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
MPA 79345	Soil		1.4	16.2	9.8	63	<0.1	20.0	9.5	285	3.11	8.3	0.7	<0.5	4.7	19	0.1	0.4	0.2	63	0.22
MPA 79346	Soil		1.2	17.5	7.8	60	<0.1	16.7	9.1	310	3.12	8.7	1.0	1.7	8.1	21	<0.1	0.4	0.2	55	0.26
MPA 79347	Soil		0.9	11.7	8.8	42	<0.1	9.6	4.6	218	2.06	6.1	0.7	0.7	2.0	21	0.1	0.3	0.2	48	0.25
MPA 79348	Soil		1.1	17.0	8.4	62	<0.1	20.4	8.8	313	3.20	9.8	0.8	1.0	6.0	16	0.2	0.4	0.2	62	0.16
MPA 79349	Soil		0.7	8.6	7.4	21	<0.1	3.5	2.0	109	1.10	2.4	0.3	1.0	0.5	11	0.2	0.2	0.2	35	0.07
MPA 79350	Soil		2.2	45.3	12.4	60	<0.1	25.4	10.9	422	3.48	10.0	3.2	<0.5	17.5	16	0.2	0.4	0.2	67	0.19
MPA 79351	Soil		1.0	18.2	7.2	61	<0.1	18.4	9.2	373	3.14	7.0	0.6	8.6	2.7	18	0.1	0.4	0.1	57	0.21
MPA 79352	Soil		1.3	17.1	10.2	67	<0.1	16.9	9.5	286	3.69	11.3	0.4	1.9	2.1	15	0.1	0.5	0.2	96	0.17
MPA 79353	Soil		1.0	26.2	6.0	75	<0.1	23.4	16.3	434	3.56	6.8	0.4	1.3	2.2	22	<0.1	0.6	<0.1	65	0.28
MPA 81759	Soil		1.1	27.8	7.7	73	0.1	17.2	10.6	466	2.71	3.7	1.3	12.0	2.8	36	0.2	0.4	0.1	64	0.96
MPA 81760	Soil		1.4	20.2	7.5	62	<0.1	14.4	10.0	466	2.59	4.4	1.0	14.7	2.9	29	0.2	0.4	<0.1	60	0.68
MPA 81761	Soil		1.2	27.7	8.8	63	<0.1	18.4	10.8	460	2.74	6.1	1.3	8.3	3.4	32	0.1	0.4	0.1	67	0.66
MPA 81762	Soil		1.0	23.8	8.4	62	<0.1	15.7	9.6	483	2.44	4.5	1.2	7.3	2.6	36	0.3	0.4	0.1	62	0.80
MPA 81763	Soil		1.0	18.1	8.3	58	0.1	14.5	11.5	693	2.28	4.0	1.1	6.6	2.1	31	0.2	0.4	0.1	59	0.53
MPA 81764	Soil		0.9	22.1	8.3	61	<0.1	21.2	10.6	364	2.51	7.1	0.8	2.1	3.2	34	0.2	0.5	0.1	62	0.52
MPA 81765	Soil		0.8	23.6	8.1	57	<0.1	21.2	9.4	333	2.48	7.0	0.9	5.7	3.0	31	0.2	0.5	0.1	62	0.43
MPA 81766	Soil		0.7	20.2	8.0	65	<0.1	20.3	9.9	361	2.32	5.4	0.8	4.6	2.6	35	0.2	0.5	0.2	58	0.49
MPA 81767	Soil		0.3	16.0	3.0	89	<0.1	8.9	15.5	863	4.53	1.2	0.6	1.5	3.3	29	<0.1	0.1	<0.1	147	0.76
MPA 81768	Soil		0.3	12.3	1.6	130	<0.1	10.4	22.2	1329	5.12	0.7	0.7	1.7	2.1	25	<0.1	<0.1	<0.1	182	0.85
MPA 81769	Soil		0.5	31.1	6.5	60	<0.1	14.8	11.0	600	3.76	5.4	0.6	5.0	4.9	22	<0.1	0.3	0.1	110	0.30
MPA 81770	Soil		0.3	8.8	3.7	73	<0.1	7.6	16.1	807	3.85	2.5	0.4	2.3	2.9	30	<0.1	0.2	<0.1	109	0.63
MPA 81771	Soil		0.4	26.5	5.8	62	<0.1	13.5	15.1	577	3.91	5.6	0.5	1.0	2.9	26	<0.1	0.3	<0.1	137	0.45
MPA 81772	Soil		0.5	33.3	7.1	46	<0.1	10.1	11.4	536	3.42	4.3	0.4	1.1	2.6	24	<0.1	0.4	<0.1	91	0.28
MPA 81773	Soil		0.2	9.2	3.6	86	<0.1	10.3	12.1	579	4.24	1.1	0.5	1.3	3.6	27	<0.1	0.2	<0.1	113	0.44
MPA 81774	Soil		0.7	25.6	7.9	69	<0.1	21.8	12.2	504	3.46	5.4	1.0	4.4	4.2	33	<0.1	0.4	0.1	94	0.41
MPA 81775	Soil		2.1	70.2	9.0	91	0.1	25.9	14.5	920	4.65	9.4	1.3	3.1	4.2	33	0.1	0.8	<0.1	112	0.91
MPA 81776	Soil		0.4	16.3	4.4	74	<0.1	14.3	14.2	648	4.19	3.2	0.5	2.4	3.5	26	<0.1	0.2	<0.1	113	0.44
MPA 81777	Soil		0.9	23.3	7.1	59	<0.1	13.7	11.9	535	3.35	5.0	0.5	2.0	2.8	21	<0.1	0.2	0.1	95	0.30
MPA 81778	Soil		0.7	13.4	8.0	50	<0.1	12.3	9.0	407	2.61	5.8	0.5	4.8	2.6	23	<0.1	0.3	0.1	72	0.28
MPA 81779	Soil		0.7	16.5	8.3	49	<0.1	21.1	10.3	506	2.70	6.3	0.7	6.0	3.3	30	0.1	0.4	0.1	73	0.41

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Method		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
MDL		0.001	1	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
MPA 79345	Soil	0.052	15	32	0.51	297	0.070	<1	2.23	0.012	0.07	0.1	0.02	3.1	<0.1	<0.05	6	<0.5
MPA 79346	Soil	0.034	19	28	0.51	228	0.082	<1	2.25	0.012	0.11	0.1	0.02	3.6	0.1	<0.05	7	0.6
MPA 79347	Soil	0.045	15	20	0.28	185	0.069	<1	1.52	0.010	0.10	0.1	0.02	1.9	<0.1	<0.05	7	0.6
MPA 79348	Soil	0.045	16	31	0.45	213	0.078	<1	2.34	0.011	0.10	0.2	0.02	2.8	0.1	<0.05	7	0.7
MPA 79349	Soil	0.046	9	12	0.08	99	0.052	<1	0.78	0.008	0.06	<0.1	<0.01	0.9	<0.1	<0.05	6	<0.5
MPA 79350	Soil	0.078	178	35	0.38	568	0.062	<1	3.98	0.013	0.10	0.2	0.06	7.0	0.1	<0.05	8	1.2
MPA 79351	Soil	0.054	12	28	0.57	252	0.089	2	2.08	0.011	0.13	0.2	0.01	2.7	<0.1	<0.05	6	0.6
MPA 79352	Soil	0.056	8	33	0.58	161	0.106	2	1.97	0.010	0.07	0.2	0.01	2.3	<0.1	<0.05	7	<0.5
MPA 79353	Soil	0.068	7	34	1.01	208	0.196	2	2.32	0.012	0.27	1.5	0.01	1.9	0.1	<0.05	6	<0.5
MPA 81759	Soil	0.089	15	26	0.65	557	0.091	2	1.53	0.017	0.11	0.2	0.06	6.3	<0.1	<0.05	5	0.8
MPA 81760	Soil	0.071	13	25	0.61	439	0.087	1	1.45	0.016	0.09	0.2	0.03	5.1	<0.1	<0.05	5	1.0
MPA 81761	Soil	0.070	15	28	0.59	403	0.107	1	1.53	0.022	0.08	0.2	0.04	5.3	<0.1	<0.05	5	<0.5
MPA 81762	Soil	0.072	14	24	0.56	496	0.108	1	1.51	0.015	0.09	0.2	0.04	5.0	<0.1	<0.05	5	0.7
MPA 81763	Soil	0.063	14	23	0.48	634	0.086	<1	1.62	0.015	0.07	0.2	0.04	4.9	<0.1	<0.05	5	0.6
MPA 81764	Soil	0.066	12	29	0.56	234	0.099	1	1.60	0.022	0.06	0.3	0.02	3.4	<0.1	<0.05	5	0.8
MPA 81765	Soil	0.060	12	29	0.55	221	0.100	2	1.57	0.024	0.06	0.2	0.03	3.4	<0.1	<0.05	4	0.7
MPA 81766	Soil	0.067	13	29	0.59	377	0.091	2	1.60	0.023	0.07	0.2	0.03	4.0	<0.1	<0.05	5	0.5
MPA 81767	Soil	0.210	13	13	1.77	594	0.244	<1	2.54	0.018	1.13	<0.1	<0.01	12.2	0.2	<0.05	10	<0.5
MPA 81768	Soil	0.217	9	10	2.06	624	0.245	<1	2.76	0.018	1.32	<0.1	<0.01	13.1	0.2	<0.05	10	<0.5
MPA 81769	Soil	0.054	16	26	1.14	375	0.216	<1	2.30	0.014	0.69	<0.1	0.02	9.7	0.2	<0.05	7	<0.5
MPA 81770	Soil	0.145	9	12	1.15	373	0.244	<1	2.07	0.020	0.85	<0.1	<0.01	6.3	0.2	<0.05	8	<0.5
MPA 81771	Soil	0.048	10	37	1.39	472	0.223	<1	2.36	0.020	0.79	<0.1	<0.01	8.4	0.2	<0.05	7	<0.5
MPA 81772	Soil	0.054	9	25	0.49	477	0.062	<1	1.62	0.019	0.23	<0.1	<0.01	9.9	<0.1	<0.05	6	<0.5
MPA 81773	Soil	0.104	15	25	1.67	434	0.185	<1	2.56	0.011	0.60	<0.1	<0.01	9.0	0.2	<0.05	10	0.7
MPA 81774	Soil	0.061	15	41	0.96	469	0.203	<1	2.23	0.020	0.32	0.1	0.02	7.0	0.2	<0.05	7	<0.5
MPA 81775	Soil	0.162	19	38	1.35	508	0.166	1	2.27	0.017	0.36	0.1	0.06	12.7	0.3	<0.05	8	0.8
MPA 81776	Soil	0.085	15	34	1.52	520	0.250	<1	2.34	0.017	0.67	<0.1	0.01	7.9	0.3	<0.05	9	<0.5
MPA 81777	Soil	0.073	10	30	0.91	371	0.196	<1	1.93	0.013	0.32	0.1	<0.01	5.1	0.2	<0.05	7	<0.5
MPA 81778	Soil	0.048	10	25	0.58	355	0.146	<1	1.75	0.015	0.11	0.1	0.01	3.5	<0.1	<0.05	6	<0.5
MPA 81779	Soil	0.046	11	38	0.59	626	0.129	<1	1.64	0.016	0.09	0.1	0.02	3.9	<0.1	<0.05	6	<0.5

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Project: MPA
Report Date: November 23, 2009

CERTIFICATE OF ANALYSIS VAN09005508.1

	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
MPA 81780	Soil		0.5	20.1	7.9	45	<0.1	28.0	10.2	310	2.44	4.8	0.9	2.2	3.8	30	<0.1	0.3	<0.1	70	0.33
MPA 81781	Soil		0.5	17.1	6.4	56	<0.1	18.7	9.6	362	2.69	4.1	0.7	4.9	3.0	28	<0.1	0.3	<0.1	72	0.41
MPA 81782	Soil		0.6	17.9	7.9	61	<0.1	15.7	10.6	537	2.59	5.0	1.0	5.0	3.6	31	0.2	0.4	0.1	65	0.49
MPA 81783	Soil		1.8	20.5	8.4	73	0.2	13.4	11.6	607	2.60	5.0	2.2	5.8	3.2	53	0.3	0.3	0.1	52	0.56
MPA 81784	Soil		1.7	34.4	10.5	72	0.4	14.3	9.6	328	4.33	3.2	0.7	9.1	3.2	65	0.1	0.1	0.2	71	0.40
MPA 81785	Soil		1.4	16.9	10.1	69	0.1	6.9	6.9	243	2.63	4.8	1.0	7.5	4.4	41	0.1	0.2	0.1	35	0.27
MPA 81786	Soil		1.8	36.2	10.9	85	0.4	14.9	12.8	507	3.11	7.6	1.2	8.5	3.8	33	0.3	0.4	0.3	67	0.59
MPA 81787	Soil		0.4	22.1	3.5	94	<0.1	9.4	19.4	481	4.22	2.1	0.2	15.8	0.7	28	0.1	0.2	<0.1	117	0.71
MPA 81788	Soil		0.4	30.7	3.6	108	<0.1	9.8	18.5	384	4.10	1.0	0.3	2.4	1.9	26	<0.1	0.2	<0.1	101	0.65
MPA 81789	Soil		0.4	33.3	2.9	98	<0.1	6.0	18.9	350	4.17	1.4	0.3	1.0	1.1	20	<0.1	0.1	<0.1	123	0.53
MPA 81790	Soil		0.8	41.1	13.8	95	<0.1	10.1	15.6	421	3.77	3.5	0.2	2.4	0.8	20	0.1	0.2	<0.1	70	0.42
MPA 81791	Soil		1.2	28.4	31.5	152	0.1	15.6	16.7	543	4.53	19.1	1.0	4.1	5.0	21	0.3	0.7	1.2	95	0.38
MPA 81792	Soil		2.4	87.2	22.1	241	0.5	9.6	16.5	288	4.70	2.9	0.6	2.8	2.3	23	0.2	0.2	0.3	112	0.50
MPA 81793	Soil		2.8	119.4	9.8	76	0.7	10.8	7.5	207	2.79	19.4	1.2	3.9	7.2	15	0.1	0.5	18.4	30	0.25
MPA 81794	Soil		2.3	49.4	16.2	146	<0.1	13.2	8.4	370	3.52	14.0	0.8	2.1	8.7	11	0.4	0.7	0.3	38	0.12
MPA 81795	Soil		3.0	109.8	18.1	193	0.3	30.7	8.7	389	3.54	26.8	1.2	10.8	6.7	20	0.4	1.2	0.5	56	0.25
MPA 81796	Soil		2.2	83.3	12.1	108	0.2	19.0	7.8	299	2.81	20.4	1.1	4.3	5.0	19	0.2	0.8	0.3	58	0.25
MPA 81797	Soil		0.4	23.4	5.6	70	0.2	7.0	11.6	183	3.20	2.2	0.8	2.5	3.8	23	<0.1	0.2	<0.1	40	0.43
MPA 81798	Soil		0.7	25.3	7.0	100	0.2	10.2	20.6	541	4.76	3.8	0.4	3.7	1.4	36	<0.1	0.2	<0.1	92	0.34
MPA 81799	Soil		1.0	45.1	6.9	87	0.1	19.2	19.2	315	4.44	5.4	0.7	5.7	4.0	30	<0.1	0.2	<0.1	84	0.35
MPA 81801	Soil		1.3	41.1	4.5	102	0.1	17.7	24.6	774	5.21	2.1	0.2	0.8	0.7	20	<0.1	<0.1	<0.1	98	0.43
MPA 81802	Soil		0.9	21.3	5.2	80	<0.1	17.5	12.6	456	3.42	4.9	0.5	4.4	3.2	32	<0.1	0.3	0.1	71	0.31
MPA 81803	Soil		0.8	19.8	4.8	97	<0.1	13.5	12.6	720	3.92	3.6	0.7	2.4	4.4	27	<0.1	0.2	<0.1	76	0.45
MPA 81804	Soil		1.9	23.4	7.3	81	0.1	16.6	12.5	547	4.07	7.4	1.0	3.7	5.0	38	<0.1	0.3	0.1	63	0.39
MPA 81805	Soil		1.6	18.2	5.4	85	<0.1	13.3	12.5	560	3.64	5.7	0.7	2.3	3.9	18	<0.1	0.3	0.2	60	0.25
MPA 81806	Soil		0.8	55.0	6.4	114	<0.1	11.0	15.0	516	4.26	2.3	0.3	11.4	1.4	13	0.1	0.1	<0.1	96	0.65
MPA 81807	Soil		1.4	34.6	12.5	139	<0.1	13.3	12.2	698	4.77	5.2	0.3	<0.5	2.4	19	<0.1	0.2	<0.1	75	0.36
MPA 81808	Soil		1.1	12.9	4.2	97	<0.1	11.1	10.3	669	3.97	4.0	0.4	<0.5	3.3	9	<0.1	0.2	<0.1	53	0.14
MPA 81809	Soil		1.0	20.3	4.0	131	<0.1	11.4	12.8	761	5.20	2.9	0.3	1.0	3.8	11	<0.1	0.2	<0.1	70	0.25
MPA 81810	Soil		1.5	35.2	6.9	91	<0.1	15.9	17.7	729	4.90	4.3	0.4	5.0	1.9	23	<0.1	0.5	<0.1	100	0.50

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CERTIFICATE OF ANALYSIS VAN09005508.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
	MDL	0.001	1	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
MPA 81780	Soil	0.052	16	43	0.65	675	0.153	1	1.63	0.023	0.10	0.2	0.02	4.4	<0.1	<0.05	5	<0.5
MPA 81781	Soil	0.058	13	32	0.68	609	0.161	<1	1.64	0.018	0.17	0.2	0.01	4.6	<0.1	<0.05	5	<0.5
MPA 81782	Soil	0.069	14	27	0.60	660	0.140	<1	1.61	0.019	0.16	0.2	0.02	4.4	0.1	<0.05	5	<0.5
MPA 81783	Soil	0.077	16	22	0.60	274	0.102	1	1.45	0.018	0.15	0.1	0.04	3.9	0.1	<0.05	4	0.7
MPA 81784	Soil	0.067	12	35	0.94	291	0.161	<1	1.90	0.087	0.39	<0.1	<0.01	3.7	0.3	0.38	6	1.1
MPA 81785	Soil	0.051	19	13	0.50	207	0.103	<1	1.35	0.020	0.20	<0.1	<0.01	2.6	0.2	<0.05	4	<0.5
MPA 81786	Soil	0.084	21	23	0.72	301	0.126	<1	1.71	0.019	0.22	0.2	0.02	4.4	0.2	<0.05	6	<0.5
MPA 81787	Soil	0.139	3	14	1.48	376	0.351	<1	2.74	0.033	0.97	0.1	<0.01	4.3	0.6	<0.05	9	<0.5
MPA 81788	Soil	0.171	8	16	1.22	339	0.227	<1	2.35	0.021	0.68	<0.1	<0.01	5.3	0.4	<0.05	8	<0.5
MPA 81789	Soil	0.172	5	12	1.47	474	0.304	<1	2.82	0.026	1.09	<0.1	<0.01	5.9	0.5	<0.05	10	<0.5
MPA 81790	Soil	0.074	4	17	1.15	187	0.242	<1	2.75	0.014	0.53	0.1	<0.01	2.3	0.5	<0.05	6	<0.5
MPA 81791	Soil	0.073	20	28	1.15	281	0.231	<1	2.32	0.015	0.72	0.2	<0.01	7.1	0.6	<0.05	7	0.5
MPA 81792	Soil	0.124	10	14	1.51	445	0.272	<1	3.62	0.041	0.94	0.1	0.01	3.5	1.0	<0.05	11	0.7
MPA 81793	Soil	0.036	27	17	0.58	236	0.077	<1	1.80	0.010	0.17	<0.1	0.01	3.4	0.3	<0.05	5	0.8
MPA 81794	Soil	0.023	19	19	0.43	155	0.063	<1	1.82	0.011	0.24	0.1	<0.01	2.9	0.2	<0.05	6	0.5
MPA 81795	Soil	0.027	28	45	0.61	325	0.070	<1	2.01	0.011	0.11	0.1	0.02	3.5	0.1	<0.05	6	0.9
MPA 81796	Soil	0.026	22	34	0.50	243	0.058	<1	1.70	0.011	0.06	0.1	0.01	3.5	0.1	<0.05	5	0.8
MPA 81797	Soil	0.143	25	11	0.59	287	0.091	<1	1.73	0.015	0.24	<0.1	<0.01	3.4	0.2	<0.05	5	0.5
MPA 81798	Soil	0.039	6	12	1.17	333	0.336	<1	3.37	0.022	0.45	<0.1	<0.01	2.6	0.4	<0.05	9	<0.5
MPA 81799	Soil	0.086	13	34	1.45	248	0.204	<1	3.24	0.019	0.33	0.1	<0.01	5.0	0.3	<0.05	10	<0.5
MPA 81801	Soil	0.071	4	26	2.76	217	0.345	<1	3.98	0.023	0.91	0.3	<0.01	1.2	0.8	<0.05	6	<0.5
MPA 81802	Soil	0.062	14	30	1.13	255	0.199	<1	2.42	0.018	0.43	0.1	<0.01	4.1	0.4	<0.05	7	<0.5
MPA 81803	Soil	0.074	20	22	1.10	329	0.224	<1	2.40	0.020	0.49	0.1	0.01	5.8	0.3	<0.05	8	<0.5
MPA 81804	Soil	0.079	24	31	0.87	299	0.137	<1	2.02	0.051	0.29	0.2	0.02	5.6	0.2	0.11	6	0.6
MPA 81805	Soil	0.086	17	24	0.82	308	0.160	<1	2.18	0.012	0.39	0.2	0.02	4.9	0.3	<0.05	8	<0.5
MPA 81806	Soil	0.195	8	19	1.34	316	0.190	<1	2.37	0.031	0.37	<0.1	0.01	5.9	0.1	<0.05	9	0.5
MPA 81807	Soil	0.095	8	25	1.42	354	0.302	<1	2.89	0.020	0.79	<0.1	<0.01	7.3	0.3	<0.05	12	<0.5
MPA 81808	Soil	0.050	10	20	1.03	261	0.155	<1	2.39	0.011	0.58	<0.1	<0.01	6.1	0.2	<0.05	10	<0.5
MPA 81809	Soil	0.060	10	18	1.19	301	0.205	<1	2.59	0.011	0.70	<0.1	<0.01	6.8	0.3	<0.05	11	<0.5
MPA 81810	Soil	0.067	10	25	1.25	477	0.098	<1	2.32	0.016	0.21	<0.1	0.02	8.8	<0.1	<0.05	8	<0.5

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	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
MPA 81811	Soil		0.9	30.8	5.4	78	<0.1	16.4	13.6	649	4.25	5.4	0.6	8.0	2.9	21	<0.1	0.6	<0.1	84	0.42
MPA 82892	Soil		1.2	12.6	12.7	109	<0.1	13.7	11.1	517	3.24	5.0	1.0	<0.5	9.7	21	0.1	0.3	<0.1	44	0.33
MPA 82893	Soil		1.1	17.2	9.9	72	<0.1	17.2	11.4	1041	2.85	8.6	1.0	0.5	8.7	35	0.2	0.4	0.1	48	0.47
MPA 82894	Soil		0.9	19.1	7.2	75	<0.1	20.0	16.2	449	3.34	6.3	0.3	1.1	1.7	19	0.2	0.4	0.1	73	0.40
MPA 82895	Soil		0.4	31.9	4.7	78	<0.1	14.2	19.4	383	3.62	4.7	0.3	6.1	1.3	23	<0.1	0.2	<0.1	93	0.59
MPA 82896	Soil		0.6	34.9	7.6	82	0.1	19.9	22.8	1106	4.34	3.0	0.4	1.1	1.3	28	0.3	0.3	0.1	81	0.61
MPA 82897	Soil		0.9	62.7	6.2	73	0.2	28.0	21.6	542	3.59	19.3	0.6	2.7	1.9	50	0.2	0.4	<0.1	100	3.26
MPA 82898	Soil		0.8	23.7	12.2	59	<0.1	16.9	10.3	380	2.64	11.9	0.7	2.2	15.0	20	<0.1	0.4	<0.1	37	0.46
MPA 82899	Soil		0.8	24.6	12.8	62	<0.1	16.5	10.8	393	2.71	13.7	0.8	3.0	14.1	21	<0.1	0.4	0.1	46	0.50
MPA 82900	Soil		1.7	27.0	8.3	81	<0.1	12.1	13.2	587	3.93	8.2	3.2	3.5	15.5	44	<0.1	0.2	0.1	38	0.37
MPA 83951	Soil		0.3	53.4	1.8	70	<0.1	12.7	26.4	153	4.30	1.4	0.4	<0.5	1.7	37	<0.1	<0.1	<0.1	153	0.58
MPA 83952	Soil		0.3	91.5	1.7	90	<0.1	7.6	26.3	731	3.38	0.7	0.7	0.9	0.4	29	0.1	<0.1	<0.1	256	0.83
MPA 83953	Soil		0.5	48.9	3.1	72	<0.1	11.4	16.6	335	3.24	3.6	0.3	0.7	0.9	26	<0.1	0.2	<0.1	67	0.49
MPA 83954	Soil		0.7	22.9	5.1	72	0.1	7.4	9.6	409	2.65	3.6	0.2	1.1	0.7	20	0.3	0.2	0.1	103	0.37
MPA 83955	Soil		0.2	72.1	2.9	64	<0.1	33.5	21.8	404	3.75	1.6	0.5	2.7	2.4	18	<0.1	0.1	<0.1	106	0.62
MPA 83956	Soil		0.8	16.9	5.5	45	<0.1	15.8	11.0	186	2.66	6.9	0.3	2.9	1.6	16	<0.1	0.3	<0.1	69	0.33
MPA 83957	Soil		0.5	6.9	14.8	34	<0.1	2.8	5.8	199	1.35	1.7	1.2	1.0	13.7	14	<0.1	<0.1	<0.1	9	0.32
MPA 83958	Soil		1.5	28.9	23.6	45	0.1	8.4	12.3	961	3.55	5.7	4.7	5.0	18.0	47	<0.1	0.2	0.1	5	0.60
MPA 83959	Soil		1.6	18.2	24.3	47	0.1	7.2	7.8	330	3.61	9.9	4.6	2.4	16.5	69	<0.1	0.3	0.5	23	0.21
MPA 83960	Soil		1.5	11.9	18.5	44	<0.1	5.3	7.5	401	1.94	4.0	1.9	<0.5	8.9	11	0.1	0.2	0.2	26	0.14
MPA 83961	Soil		1.8	12.7	12.3	66	<0.1	6.9	11.6	548	2.79	5.5	1.6	0.8	10.7	10	0.1	0.1	0.1	33	0.15
MPA 83962	Soil		1.6	13.6	40.9	36	<0.1	4.7	5.2	217	3.50	41.7	3.5	4.1	20.9	48	<0.1	0.3	0.5	10	0.10
MPA 83963	Soil		2.4	12.1	170.7	268	0.2	9.1	6.2	338	3.18	34.0	3.1	6.6	15.8	53	0.3	0.2	4.1	19	0.08
MPA 83964	Soil		1.7	17.1	112.6	70	0.1	4.0	1.8	66	2.84	20.8	2.5	2.5	8.5	78	<0.1	0.2	5.3	20	0.05
MPA 83965	Soil		1.5	15.1	35.9	58	<0.1	9.5	4.0	131	2.30	9.0	1.2	3.3	7.8	26	<0.1	0.3	0.8	30	0.08
MPA 83966	Soil		3.0	12.3	28.2	37	<0.1	3.1	1.5	47	3.51	14.2	1.7	1.4	14.8	64	<0.1	0.2	0.8	14	0.05
MPA 83967	Soil		3.4	25.9	189.4	121	0.5	7.3	3.6	191	2.78	17.7	3.2	2.5	13.9	45	0.1	0.3	4.2	35	0.07
MPA 83968	Soil		1.3	23.8	126.4	203	0.5	9.0	7.0	263	2.67	11.9	2.3	9.0	9.8	24	0.3	0.3	5.6	35	0.09
MPA 83969	Soil		1.8	86.2	105.8	123	0.2	3.3	2.4	119	1.83	20.3	5.9	9.4	17.2	43	0.4	0.2	3.9	18	0.08
MPA 83970	Soil		2.1	19.2	85.9	157	0.2	5.1	3.3	100	2.89	13.2	4.2	6.2	20.2	33	0.1	0.3	0.5	20	0.05

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Project: MPA
Report Date: November 23, 2009

CERTIFICATE OF ANALYSIS VAN09005508.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
	MDL	0.001	1	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
MPA 81811	Soil	0.053	13	26	1.02	391	0.066	<1	2.21	0.017	0.12	0.1	0.02	8.9	<0.1	<0.05	7	0.6
MPA 82892	Soil	0.042	16	22	0.68	226	0.111	<1	1.97	0.011	0.43	0.1	<0.01	2.4	0.3	<0.05	6	<0.5
MPA 82893	Soil	0.032	19	23	0.51	339	0.085	<1	1.70	0.014	0.23	0.1	<0.01	2.4	0.2	<0.05	5	<0.5
MPA 82894	Soil	0.064	5	30	0.82	351	0.139	<1	2.37	0.016	0.16	0.1	0.01	2.5	0.1	<0.05	6	<0.5
MPA 82895	Soil	0.132	4	18	1.51	393	0.203	<1	2.46	0.017	0.64	0.1	0.01	3.6	0.1	<0.05	7	<0.5
MPA 82896	Soil	0.176	5	25	1.65	533	0.211	<1	2.96	0.023	0.47	0.1	0.01	3.2	0.2	<0.05	7	<0.5
MPA 82897	Soil	0.112	11	22	1.17	383	0.120	<1	1.92	0.024	0.18	0.2	0.03	5.6	0.1	0.06	6	0.8
MPA 82898	Soil	0.054	40	17	0.59	264	0.075	<1	1.29	0.019	0.20	0.1	0.02	2.8	0.2	<0.05	4	<0.5
MPA 82899	Soil	0.051	39	17	0.68	299	0.090	<1	1.45	0.021	0.24	0.1	0.02	3.5	0.2	<0.05	4	<0.5
MPA 82900	Soil	0.069	51	16	0.89	199	0.155	<1	1.67	0.074	0.42	<0.1	0.02	3.0	0.3	0.27	4	0.5
MPA 83951	Soil	0.136	11	15	2.01	288	0.236	<1	3.19	0.022	0.47	<0.1	<0.01	4.8	0.2	<0.05	9	<0.5
MPA 83952	Soil	0.254	3	7	1.89	415	0.166	<1	2.17	0.009	0.78	<0.1	0.01	2.0	0.3	<0.05	4	<0.5
MPA 83953	Soil	0.126	4	13	1.54	290	0.182	<1	2.38	0.013	0.64	0.1	0.01	1.5	0.2	<0.05	5	<0.5
MPA 83954	Soil	0.086	5	14	0.88	256	0.172	1	1.70	0.020	0.23	<0.1	0.02	2.3	<0.1	<0.05	7	<0.5
MPA 83955	Soil	0.179	11	75	1.96	268	0.156	<1	2.63	0.033	0.49	<0.1	<0.01	5.6	0.1	<0.05	7	<0.5
MPA 83956	Soil	0.087	7	24	0.77	243	0.124	<1	1.83	0.019	0.14	0.1	0.01	2.5	<0.1	<0.05	5	<0.5
MPA 83957	Soil	0.060	28	4	0.29	113	0.010	<1	1.03	0.007	0.11	<0.1	<0.01	1.7	<0.1	<0.05	2	<0.5
MPA 83958	Soil	0.082	46	5	0.31	200	0.016	<1	1.55	0.059	0.06	<0.1	0.01	2.3	<0.1	<0.05	2	0.5
MPA 83959	Soil	0.047	40	11	0.35	154	0.062	1	1.10	0.082	0.09	<0.1	<0.01	2.6	<0.1	0.31	3	<0.5
MPA 83960	Soil	0.063	19	10	0.19	155	0.024	<1	0.93	0.005	0.08	<0.1	<0.01	2.1	0.2	<0.05	3	<0.5
MPA 83961	Soil	0.055	13	11	0.55	191	0.113	<1	1.61	0.008	0.43	<0.1	<0.01	1.4	0.3	<0.05	4	<0.5
MPA 83962	Soil	0.042	70	5	0.14	174	0.008	1	0.65	0.081	0.24	<0.1	<0.01	1.8	0.2	0.62	1	0.7
MPA 83963	Soil	0.039	34	21	0.42	141	0.060	2	1.22	0.075	0.13	0.1	<0.01	1.2	0.2	0.35	3	2.2
MPA 83964	Soil	0.042	42	9	0.19	175	0.025	<1	1.12	0.008	0.07	<0.1	<0.01	2.6	0.1	0.07	4	1.3
MPA 83965	Soil	0.025	12	15	0.31	80	0.049	1	1.07	0.015	0.05	<0.1	0.02	1.5	<0.1	<0.05	3	1.1
MPA 83966	Soil	0.041	37	7	0.08	122	0.022	<1	0.85	0.092	0.07	<0.1	<0.01	1.5	<0.1	0.36	3	2.8
MPA 83967	Soil	0.030	25	13	0.28	122	0.060	<1	1.22	0.022	0.06	<0.1	0.03	2.5	0.1	0.09	4	5.9
MPA 83968	Soil	0.035	17	16	0.41	130	0.039	<1	1.54	0.014	0.09	<0.1	0.02	2.3	0.2	0.07	4	5.5
MPA 83969	Soil	0.041	36	5	0.16	126	0.032	1	1.03	0.009	0.10	<0.1	0.01	2.7	0.2	0.06	3	2.7
MPA 83970	Soil	0.048	32	8	0.17	132	0.019	<1	0.94	0.044	0.12	<0.1	<0.01	2.0	0.1	0.23	2	1.1

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Project: MPA
Report Date: November 23, 2009

CERTIFICATE OF ANALYSIS VAN09005508.1

	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
MPA 83971	Soil		0.9	20.7	21.2	146	<0.1	10.8	7.0	350	2.96	5.9	2.0	4.7	7.4	29	0.1	0.3	0.3	48	0.12
MPA 83972	Soil		3.1	21.0	16.0	287	0.2	12.6	10.6	780	3.66	64.9	1.5	1.5	7.9	17	0.4	0.3	0.2	45	0.30
MPA 83973	Soil		1.1	11.8	7.0	78	<0.1	8.1	6.7	458	2.89	7.0	0.7	2.1	5.3	15	0.1	0.2	0.1	39	0.24
MPA 83974	Soil		1.8	21.7	8.1	89	<0.1	13.3	13.6	428	3.16	7.5	1.0	<0.5	2.9	21	<0.1	0.2	0.1	74	0.23
MPA 83975	Soil		1.8	12.0	7.6	72	<0.1	8.9	10.4	421	3.73	13.0	0.6	<0.5	4.5	14	<0.1	0.4	<0.1	59	0.19
MPA 83976	Soil		1.3	12.1	7.8	82	<0.1	6.9	4.4	377	2.53	25.1	1.1	1.6	7.5	17	<0.1	1.0	0.1	21	0.29
MPA 83977	Soil		1.2	16.1	5.5	111	<0.1	8.5	15.7	672	3.81	8.5	1.0	<0.5	3.6	29	<0.1	0.2	<0.1	82	0.49
MPA 83978	Soil		1.0	21.4	6.3	79	<0.1	10.3	19.6	510	4.17	5.7	0.7	<0.5	3.7	23	<0.1	0.2	<0.1	93	0.49
MPA 83979	Soil		1.0	20.2	8.5	59	<0.1	15.1	12.0	324	3.05	6.0	0.9	1.7	4.5	24	<0.1	0.3	0.1	75	0.39
MPA 83980	Soil		1.1	25.9	10.1	62	<0.1	17.7	10.9	316	3.20	9.2	0.9	2.8	4.9	22	<0.1	0.5	0.1	68	0.32
MPA 85150	Soil		2.7	30.3	6.3	73	<0.1	25.5	16.4	488	3.76	4.7	0.5	1.4	3.1	31	<0.1	0.3	<0.1	77	0.45
MPA 85151	Soil		1.1	24.8	8.2	63	<0.1	24.5	13.2	430	3.29	5.9	0.7	2.5	4.7	25	0.1	0.4	0.1	68	0.40
MPA 85152	Soil		0.9	32.0	8.6	71	<0.1	24.8	16.0	552	3.84	5.4	1.0	0.6	8.3	31	<0.1	0.4	0.1	71	0.54
MPA 85153	Soil		0.9	25.5	8.9	57	<0.1	21.8	10.9	374	2.83	5.3	1.1	1.2	3.5	33	0.1	0.4	0.2	61	0.57
MPA 85154	Soil		0.9	34.6	8.4	74	<0.1	25.1	15.2	525	3.30	5.5	1.5	2.3	5.9	34	<0.1	0.5	0.2	67	0.64
MPA 85155	Soil		1.2	31.2	9.4	77	0.1	23.8	14.5	441	3.11	5.9	1.7	1.4	4.6	44	0.2	0.5	0.2	65	0.79
MPA 85156	Soil		1.2	33.7	9.1	76	0.1	24.8	13.6	494	3.05	5.6	1.8	4.0	4.5	46	0.2	0.6	0.2	61	0.87
MPA 85157	Soil		0.8	28.3	9.2	70	<0.1	22.6	12.0	360	2.69	6.1	1.0	1.9	3.6	41	0.3	0.6	0.2	65	0.68
MPA 87424	Soil		0.4	25.1	6.7	103	<0.1	11.0	18.1	568	3.07	2.0	1.1	5.1	4.3	34	0.1	0.1	0.1	50	0.94
MPA 87425	Soil		0.4	29.8	8.9	78	<0.1	18.7	14.3	645	3.38	3.7	1.1	2.0	2.6	45	<0.1	0.2	0.1	73	0.96
MPA 87426	Soil		0.5	37.5	4.4	87	<0.1	67.2	27.1	463	4.51	3.4	0.6	<0.5	2.4	16	<0.1	<0.1	<0.1	136	0.88
MPA 87427	Soil		4.3	23.1	3.9	111	<0.1	11.3	18.6	936	5.05	2.0	0.9	1.1	4.6	12	0.2	0.2	<0.1	110	0.41
MPA 87428	Soil		1.8	22.0	11.1	108	0.1	12.3	12.3	692	5.03	4.3	0.7	1.6	3.9	17	<0.1	0.5	<0.1	81	0.20
MPA 87429	Soil		1.1	16.4	18.4	107	0.4	19.1	11.3	510	3.76	4.7	0.7	3.0	4.3	20	0.2	0.5	<0.1	62	0.31
MPA 87430	Soil		1.0	23.0	8.6	131	0.3	22.1	13.0	1104	3.65	4.6	0.9	1.2	3.3	31	0.2	0.4	0.1	59	0.66
MPA 87431	Soil		1.0	20.7	6.4	79	<0.1	17.5	11.9	535	3.91	4.4	0.7	1.3	3.2	20	<0.1	0.3	0.1	70	0.43
MPA 87432	Soil		0.9	11.5	7.3	52	<0.1	11.1	7.2	380	2.97	6.5	0.4	1.0	2.8	17	<0.1	0.3	0.1	57	0.25
MPA 87433	Soil		1.0	20.2	7.3	62	<0.1	20.9	11.8	359	3.62	9.1	0.3	1.4	1.7	15	<0.1	0.5	0.1	78	0.20
MPA 87434	Soil		1.0	14.8	7.6	64	<0.1	19.0	11.0	391	3.13	7.4	0.4	0.6	2.7	15	<0.1	0.4	0.1	63	0.19
MPA 87435	Soil		0.7	21.4	5.7	94	<0.1	8.4	12.2	611	3.78	2.9	0.4	1.4	2.0	21	<0.1	0.3	<0.1	67	0.35

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.

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	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
	MDL	0.001	1	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
MPA 83971	Soil	0.028	20	17	0.74	160	0.155	1	1.87	0.011	0.29	0.1	0.01	2.3	0.3	0.06	5	<0.5
MPA 83972	Soil	0.108	16	20	0.64	126	0.074	1	1.72	0.007	0.26	0.2	<0.01	3.2	0.3	<0.05	6	<0.5
MPA 83973	Soil	0.066	9	13	0.77	256	0.181	<1	1.75	0.010	0.47	0.2	<0.01	2.7	0.2	<0.05	7	<0.5
MPA 83974	Soil	0.086	10	17	0.73	218	0.168	<1	2.05	0.011	0.39	0.2	<0.01	2.4	0.3	<0.05	6	<0.5
MPA 83975	Soil	0.059	6	12	1.07	207	0.269	<1	2.61	0.009	0.85	0.2	<0.01	3.0	0.4	<0.05	8	<0.5
MPA 83976	Soil	0.040	16	5	0.74	432	0.114	2	1.63	0.009	0.42	0.1	0.02	3.5	0.2	<0.05	6	<0.5
MPA 83977	Soil	0.099	21	10	1.56	269	0.254	<1	2.52	0.012	0.88	0.2	<0.01	3.1	0.3	<0.05	7	<0.5
MPA 83978	Soil	0.088	17	12	1.93	286	0.287	<1	3.10	0.016	0.88	0.2	<0.01	2.4	0.3	<0.05	7	<0.5
MPA 83979	Soil	0.038	19	25	1.01	227	0.158	<1	2.00	0.015	0.20	0.1	0.02	3.7	0.1	<0.05	6	<0.5
MPA 83980	Soil	0.038	15	27	0.84	212	0.146	1	1.98	0.014	0.18	0.2	0.02	4.2	0.1	<0.05	6	<0.5
MPA 85150	Soil	0.075	11	45	1.24	225	0.184	<1	2.39	0.013	0.24	0.4	0.01	2.5	0.1	<0.05	7	<0.5
MPA 85151	Soil	0.058	14	35	0.72	269	0.113	<1	2.11	0.014	0.11	0.2	0.01	3.6	<0.1	<0.05	6	<0.5
MPA 85152	Soil	0.081	21	45	0.97	297	0.111	2	2.30	0.013	0.24	0.3	0.01	4.9	0.2	<0.05	6	<0.5
MPA 85153	Soil	0.056	20	34	0.58	262	0.081	1	2.06	0.013	0.09	0.3	0.04	3.9	<0.1	<0.05	6	<0.5
MPA 85154	Soil	0.074	21	45	0.93	328	0.130	<1	2.16	0.019	0.17	0.3	0.03	4.8	0.1	<0.05	6	<0.5
MPA 85155	Soil	0.076	17	38	0.80	294	0.105	1	1.80	0.018	0.14	0.4	0.04	4.1	0.1	<0.05	5	<0.5
MPA 85156	Soil	0.079	18	38	0.83	298	0.106	2	1.88	0.020	0.14	0.4	0.03	4.3	0.1	<0.05	5	<0.5
MPA 85157	Soil	0.069	14	32	0.65	269	0.097	2	1.72	0.022	0.08	0.3	0.03	3.8	<0.1	<0.05	5	<0.5
MPA 87424	Soil	0.217	19	18	1.31	427	0.149	1	2.12	0.012	0.20	<0.1	0.02	5.4	0.1	<0.05	9	<0.5
MPA 87425	Soil	0.074	18	28	0.99	625	0.122	2	2.11	0.016	0.17	0.1	0.03	5.9	0.2	<0.05	8	<0.5
MPA 87426	Soil	0.287	15	104	2.19	258	0.145	<1	2.67	0.022	0.42	<0.1	<0.01	7.6	0.1	<0.05	10	<0.5
MPA 87427	Soil	0.127	17	16	1.56	524	0.162	<1	2.42	0.018	0.56	<0.1	0.01	12.6	0.2	<0.05	10	<0.5
MPA 87428	Soil	0.030	14	20	0.85	430	0.111	2	2.14	0.012	0.24	<0.1	0.01	9.8	0.1	<0.05	7	<0.5
MPA 87429	Soil	0.050	13	23	0.68	503	0.110	2	1.84	0.013	0.29	0.1	0.01	5.4	0.1	<0.05	7	<0.5
MPA 87430	Soil	0.101	17	24	0.77	1376	0.093	2	1.92	0.013	0.22	<0.1	0.04	4.5	0.2	<0.05	7	<0.5
MPA 87431	Soil	0.103	10	24	1.12	333	0.159	1	2.19	0.010	0.70	<0.1	<0.01	4.2	0.3	<0.05	7	<0.5
MPA 87432	Soil	0.062	9	19	0.49	245	0.101	<1	1.61	0.009	0.25	0.1	0.01	2.1	0.1	<0.05	7	<0.5
MPA 87433	Soil	0.073	6	28	0.68	194	0.134	<1	2.01	0.009	0.34	0.1	0.01	2.0	0.1	<0.05	5	<0.5
MPA 87434	Soil	0.029	7	28	0.54	175	0.072	<1	1.92	0.009	0.15	0.1	<0.01	2.8	<0.1	<0.05	6	0.6
MPA 87435	Soil	0.101	8	11	1.04	306	0.125	<1	2.13	0.009	0.61	<0.1	<0.01	3.3	0.3	<0.05	7	<0.5

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Project: MPA
Report Date: November 23, 2009

CERTIFICATE OF ANALYSIS VAN09005508.1

	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
MPA 87436	Soil		0.8	16.5	6.5	85	<0.1	13.5	12.1	666	4.10	6.2	0.4	0.9	2.1	17	<0.1	0.3	<0.1	75	0.29
MPA 87437	Soil		5.0	33.3	8.3	80	<0.1	30.9	8.7	356	3.18	13.0	1.3	<0.5	13.2	24	<0.1	0.3	0.2	52	0.36
MPA 87438	Soil		1.5	15.5	12.5	56	<0.1	7.8	6.0	261	2.82	9.9	1.3	1.1	9.6	13	<0.1	0.4	0.2	28	0.16
MPA 87439	Soil		3.9	14.8	14.4	59	<0.1	3.5	5.8	334	4.94	54.6	3.1	2.5	13.9	84	<0.1	0.2	0.3	33	0.19
MPA 87440	Soil		8.5	11.1	15.2	33	0.2	2.5	3.0	153	5.43	104.8	3.2	2.1	16.8	111	<0.1	0.2	0.2	17	0.12
MPA 87441	Soil		7.6	21.4	24.7	13	0.2	3.3	1.3	61	3.25	6.9	2.6	1.5	20.6	89	<0.1	0.1	0.5	14	0.06
MPA 87442	Soil		1.7	43.4	14.3	92	0.1	3.7	4.3	430	4.06	0.8	3.6	0.8	15.7	37	<0.1	<0.1	0.2	42	0.10
MPA 87443	Soil		8.8	33.4	43.9	55	0.2	5.0	3.7	166	3.96	12.3	3.9	1.1	19.7	70	<0.1	0.2	0.4	30	0.11
MPA 87444	Soil		3.6	19.6	42.5	56	0.2	7.1	3.8	128	3.22	20.3	1.9	4.3	14.3	31	<0.1	0.3	0.6	25	0.07
MPA 87445	Soil		2.9	22.3	31.6	62	0.2	10.0	4.9	163	2.90	12.0	1.8	3.8	10.9	31	<0.1	0.3	0.5	32	0.11
MPA 87446	Soil		2.4	18.8	30.3	89	0.2	8.8	7.8	256	2.77	10.2	2.1	7.0	6.7	31	0.1	0.3	0.6	44	0.22
MPA 87447	Soil		1.4	14.3	17.9	115	<0.1	8.6	9.9	317	2.99	6.5	2.3	4.2	5.4	28	0.2	0.2	0.3	39	0.34
MPA 87448	Soil		1.4	19.5	6.1	69	<0.1	11.6	10.0	315	3.20	2.1	0.8	<0.5	4.8	14	<0.1	0.1	<0.1	55	0.51
MPA 87449	Soil		0.4	34.8	11.1	78	<0.1	17.8	19.2	676	4.37	3.0	0.4	<0.5	2.9	16	<0.1	0.2	<0.1	117	0.34
MPA 87450	Soil		0.7	20.3	5.3	64	<0.1	13.6	9.8	349	3.45	6.7	0.8	0.5	4.4	19	<0.1	0.4	0.2	68	0.28
MPA 87451	Soil		0.4	31.8	5.9	143	<0.1	14.8	14.9	1004	4.68	5.7	0.8	1.4	5.7	15	<0.1	0.3	0.1	83	0.40
MPA 87452	Soil		0.5	30.9	6.4	81	<0.1	21.3	13.6	579	3.28	8.6	0.4	2.9	3.2	24	<0.1	0.5	0.1	68	0.39
MPA 87453	Soil		1.0	12.3	5.0	90	0.1	9.9	14.4	723	4.71	7.4	0.4	<0.5	2.9	18	<0.1	0.2	0.1	81	0.44
MPA 87454	Soil		0.5	19.8	6.3	105	0.2	10.6	11.5	608	4.35	5.4	0.6	1.9	3.9	17	<0.1	0.3	<0.1	66	0.43
MPA 87455	Soil		2.0	16.1	79.8	78	0.3	7.5	8.5	267	2.78	19.5	2.1	1.0	11.9	36	0.1	0.3	9.1	28	0.27
MPA 87456	Soil		1.1	22.7	43.1	88	0.1	15.5	8.1	244	2.84	12.3	1.8	1.1	8.5	34	0.2	0.4	1.5	43	0.27
MPA 87457	Soil		0.7	20.6	5.5	72	<0.1	15.5	9.8	556	2.99	5.1	0.7	9.3	2.9	29	0.1	0.3	<0.1	66	0.71
MPA 87458	Soil		1.2	25.0	7.3	69	<0.1	17.4	11.8	591	3.12	5.8	0.9	1.9	3.1	32	0.2	0.3	0.1	65	0.54
MPA 87459	Soil		1.3	17.3	6.0	90	<0.1	15.2	11.4	691	3.99	3.8	0.8	3.0	4.7	30	<0.1	0.6	<0.1	77	0.80
MPA 87460	Soil		3.3	11.9	5.1	85	<0.1	13.4	12.8	537	3.84	5.0	0.4	7.5	2.4	29	<0.1	0.2	<0.1	85	0.66
MPA 87850	Soil		1.7	24.9	7.9	77	<0.1	11.0	13.2	559	3.91	8.5	3.2	2.9	14.8	48	<0.1	0.2	0.1	35	0.32
MPA 87857	Soil		2.3	10.4	10.7	47	<0.1	4.5	5.4	206	2.65	4.7	1.1	<0.5	3.2	25	0.1	0.2	<0.1	32	0.12
MPA 87858	Soil		1.2	10.3	11.4	42	<0.1	12.2	8.4	165	2.66	6.8	0.8	5.3	4.9	27	<0.1	0.4	0.1	43	0.10
MPA 87859	Soil		3.0	20.7	15.6	68	<0.1	6.3	9.1	249	3.98	5.3	1.6	<0.5	14.5	71	<0.1	0.4	0.2	44	0.17
MPA 87860	Soil		1.3	43.6	8.1	70	<0.1	13.8	9.1	284	3.54	6.1	1.2	4.9	8.1	37	<0.1	0.4	0.2	52	0.32

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.

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Project: MPA
Report Date: November 23, 2009

CERTIFICATE OF ANALYSIS VAN09005508.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
	MDL	0.001	1	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
MPA 87436	Soil	0.102	5	19	1.23	432	0.192	<1	2.56	0.013	0.96	0.2	<0.01	2.9	0.3	<0.05	8	<0.5
MPA 87437	Soil	0.078	17	51	0.83	225	0.067	<1	1.67	0.009	0.27	<0.1	<0.01	3.2	0.1	<0.05	5	0.5
MPA 87438	Soil	0.035	32	13	0.36	204	0.038	<1	1.38	0.008	0.16	<0.1	0.01	2.9	0.1	<0.05	4	<0.5
MPA 87439	Soil	0.063	35	7	0.46	299	0.105	<1	1.23	0.156	0.24	<0.1	<0.01	3.3	0.2	0.63	5	3.7
MPA 87440	Soil	0.082	34	5	0.21	237	0.086	<1	0.93	0.280	0.18	<0.1	0.01	2.2	0.1	0.96	4	6.8
MPA 87441	Soil	0.074	41	5	0.09	154	0.024	<1	1.09	0.091	0.15	<0.1	<0.01	1.6	0.1	0.43	3	3.6
MPA 87442	Soil	0.056	31	9	0.79	225	0.169	<1	1.94	0.032	0.59	<0.1	<0.01	2.5	0.4	0.29	6	2.6
MPA 87443	Soil	0.065	36	9	0.31	142	0.110	<1	1.35	0.053	0.15	<0.1	<0.01	2.5	0.1	0.27	5	2.0
MPA 87444	Soil	0.034	30	11	0.23	149	0.039	<1	1.08	0.090	0.12	<0.1	0.01	2.1	0.1	0.36	3	2.1
MPA 87445	Soil	0.032	25	16	0.31	153	0.054	<1	1.10	0.050	0.11	<0.1	<0.01	2.3	0.1	0.22	3	2.1
MPA 87446	Soil	0.039	19	14	0.39	182	0.062	2	1.28	0.023	0.10	0.1	<0.01	2.6	<0.1	0.09	4	0.9
MPA 87447	Soil	0.042	11	15	0.57	162	0.098	<1	1.85	0.018	0.18	<0.1	<0.01	2.3	0.1	0.07	5	0.7
MPA 87448	Soil	0.131	18	15	0.95	218	0.185	<1	2.02	0.015	0.71	0.1	<0.01	3.6	0.3	<0.05	6	0.6
MPA 87449	Soil	0.043	7	25	2.05	383	0.291	<1	3.19	0.017	1.39	0.1	<0.01	6.2	0.4	<0.05	9	<0.5
MPA 87450	Soil	0.069	12	22	0.70	274	0.115	<1	1.80	0.013	0.38	<0.1	<0.01	5.7	0.1	<0.05	6	0.5
MPA 87451	Soil	0.095	24	15	1.23	334	0.273	<1	2.54	0.011	1.01	0.1	0.02	11.1	0.4	<0.05	9	<0.5
MPA 87452	Soil	0.055	12	26	0.82	388	0.141	<1	1.69	0.018	0.30	0.1	0.03	5.3	0.2	<0.05	6	<0.5
MPA 87453	Soil	0.053	7	15	0.87	447	0.237	<1	2.36	0.009	0.95	0.1	0.01	7.3	0.3	<0.05	8	<0.5
MPA 87454	Soil	0.099	20	12	0.95	321	0.161	<1	2.17	0.013	0.74	0.1	0.03	7.7	0.4	<0.05	7	0.7
MPA 87455	Soil	0.030	22	14	0.26	212	0.042	1	1.06	0.029	0.18	<0.1	<0.01	1.8	<0.1	0.13	3	1.1
MPA 87456	Soil	0.030	24	19	0.46	148	0.069	<1	1.31	0.022	0.18	<0.1	0.01	2.7	0.2	0.07	4	0.9
MPA 87457	Soil	0.119	14	21	0.76	581	0.095	2	1.59	0.018	0.27	0.1	0.02	5.0	<0.1	<0.05	5	0.7
MPA 87458	Soil	0.085	16	28	0.69	771	0.090	2	1.66	0.017	0.17	0.1	0.03	6.4	<0.1	<0.05	5	0.6
MPA 87459	Soil	0.186	25	22	0.83	665	0.103	3	1.87	0.018	0.43	0.2	0.03	8.7	0.1	<0.05	6	1.0
MPA 87460	Soil	0.182	13	25	1.01	384	0.162	<1	2.13	0.017	0.44	<0.1	0.01	4.1	0.2	<0.05	8	<0.5
MPA 87850	Soil	0.077	46	14	0.79	187	0.136	<1	1.48	0.089	0.37	<0.1	0.02	2.5	0.3	0.31	4	0.7
MPA 87857	Soil	0.044	7	8	0.28	105	0.053	<1	1.27	0.007	0.12	0.2	<0.01	1.1	0.1	<0.05	5	<0.5
MPA 87858	Soil	0.026	12	19	0.28	169	0.041	<1	1.69	0.010	0.10	0.1	<0.01	1.8	<0.1	0.06	4	<0.5
MPA 87859	Soil	0.071	28	9	0.62	166	0.090	<1	1.51	0.034	0.34	0.1	<0.01	1.6	0.2	0.18	4	0.6
MPA 87860	Soil	0.037	32	22	0.64	357	0.082	<1	1.78	0.012	0.15	<0.1	<0.01	3.6	0.1	<0.05	5	0.7

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	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
MPA 87861	Soil		1.5	25.8	10.2	50	<0.1	22.6	10.8	346	2.70	8.9	1.0	3.5	5.5	31	<0.1	0.6	0.2	58	0.44
MPA 87862	Soil		3.0	29.4	11.6	74	<0.1	23.9	10.8	291	3.49	68.7	0.8	0.8	3.9	28	<0.1	0.7	0.1	69	0.30
MPA 87863	Soil		0.5	110.9	5.3	51	<0.1	35.7	22.7	433	3.37	5.1	0.3	2.4	1.9	28	<0.1	0.3	<0.1	110	0.85
MPA 87864	Soil		0.7	21.1	8.6	51	<0.1	19.8	8.7	316	2.80	7.7	0.6	3.5	3.7	24	<0.1	0.6	0.1	66	0.34
MPA 87865	Soil		0.6	19.8	8.9	46	<0.1	19.1	8.9	266	2.68	7.7	0.6	5.6	4.4	24	<0.1	0.5	0.1	64	0.26
MPA 87866	Soil		0.8	22.6	6.2	91	<0.1	14.4	13.6	550	4.72	3.5	0.6	3.4	3.4	21	<0.1	0.3	<0.1	97	0.38
MPA 87867	Soil		0.8	20.3	7.6	56	<0.1	18.2	10.3	324	3.06	6.5	0.9	8.0	4.6	24	<0.1	0.5	0.1	69	0.35
MPA 87868	Soil		1.5	21.1	10.1	58	0.2	18.3	10.7	673	3.32	5.9	0.8	12.0	3.1	26	0.1	0.4	0.2	76	0.38
MPA 87869	Soil		1.0	21.7	7.5	74	<0.1	20.5	14.2	478	3.74	8.1	0.6	1.2	3.1	18	<0.1	0.5	0.1	77	0.24
MPA 87870	Soil		3.0	31.2	12.4	57	0.2	34.3	13.6	428	3.20	6.8	0.4	0.8	2.1	18	<0.1	0.3	<0.1	78	0.35
MPA 87871	Soil		1.3	18.6	8.8	58	<0.1	18.8	10.3	291	3.29	6.6	0.5	1.0	2.6	15	<0.1	0.3	0.1	76	0.18
MPA 87872	Soil		0.5	16.3	5.8	105	<0.1	9.6	13.3	569	3.92	2.9	0.4	<0.5	1.9	20	<0.1	0.1	<0.1	85	0.36
MPA 87873	Soil		1.0	28.3	5.1	78	<0.1	12.5	13.5	439	3.56	3.9	0.4	<0.5	2.7	19	<0.1	0.2	<0.1	79	0.36
MPA 87874	Soil		0.4	34.0	5.1	57	<0.1	27.8	13.7	504	2.93	3.5	0.2	<0.5	0.7	17	<0.1	0.2	<0.1	85	0.41
MPA 87875	Soil		0.4	52.7	8.8	48	<0.1	36.3	12.5	238	2.62	5.9	0.3	0.5	1.8	27	0.1	0.3	<0.1	72	0.32
MPA 87876	Soil		0.9	16.7	10.0	84	<0.1	23.4	13.5	450	4.16	10.6	0.5	1.1	3.1	21	0.1	0.4	0.2	96	0.34
MPA 87877	Soil		1.5	29.8	5.1	74	<0.1	13.7	17.5	546	3.82	4.8	0.2	<0.5	1.3	33	<0.1	0.3	<0.1	109	0.53
MPA 87878	Soil		0.3	33.9	4.4	85	<0.1	14.9	20.6	558	4.52	4.5	0.2	<0.5	1.0	31	<0.1	0.2	<0.1	128	0.51
MPA 87879	Soil		0.7	24.0	7.8	73	<0.1	22.0	11.2	365	3.36	7.1	0.4	<0.5	2.9	25	<0.1	0.5	<0.1	78	0.33
MPA 87880	Soil		0.5	19.0	5.3	111	<0.1	15.0	17.3	473	4.13	4.6	0.5	4.1	3.5	23	<0.1	0.2	<0.1	95	0.46
MPA 87881	Soil		0.6	13.5	7.6	85	<0.1	25.2	16.9	410	3.57	5.7	0.5	<0.5	2.9	31	<0.1	0.4	<0.1	76	0.35
MPA 87882	Soil		1.3	43.7	7.5	77	<0.1	46.4	17.1	351	4.16	9.3	0.7	1.8	4.8	30	<0.1	0.6	0.1	93	0.45
MPA 87883	Soil		0.9	18.5	9.9	49	<0.1	24.9	9.3	248	2.74	10.3	0.4	<0.5	2.6	21	<0.1	0.5	0.1	66	0.22
MPA 87884	Soil		0.9	9.6	9.1	39	<0.1	11.6	5.8	255	2.08	3.8	0.3	<0.5	1.3	18	0.1	0.4	0.1	50	0.19
MPA 87885	Soil		0.7	25.1	7.6	62	<0.1	24.3	11.5	346	3.25	10.2	0.5	<0.5	4.2	21	<0.1	0.5	0.1	84	0.22
MPA 87886	Soil		1.1	16.4	10.4	57	<0.1	14.6	9.1	341	3.42	8.4	1.3	0.9	10.4	24	<0.1	0.6	0.2	73	0.15
MPA 87887	Soil		0.6	7.0	7.4	66	<0.1	7.5	8.5	477	2.68	4.7	0.7	<0.5	16.4	27	0.2	0.3	<0.1	44	0.19
MPA 87888	Soil		0.6	10.6	10.8	65	<0.1	11.5	8.7	465	2.94	4.7	2.7	4.1	24.0	21	0.2	0.4	0.1	46	0.20
MPA 87889	Soil		1.0	11.9	11.5	43	<0.1	11.8	5.9	197	2.78	8.5	0.9	2.9	5.7	14	<0.1	0.5	0.2	70	0.12
MPA 87890	Soil		1.1	8.0	9.6	36	<0.1	7.7	3.9	183	1.90	5.7	1.6	0.8	3.4	17	0.1	0.3	0.1	59	0.13

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Project: MPA
Report Date: November 23, 2009

CERTIFICATE OF ANALYSIS VAN09005508.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
	MDL	0.001	1	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
MPA 87861	Soil	0.055	19	28	0.59	236	0.072	1	1.56	0.017	0.08	0.1	0.02	3.8	<0.1	<0.05	4	<0.5
MPA 87862	Soil	0.034	10	25	0.78	254	0.127	1	2.20	0.012	0.23	0.2	<0.01	2.5	0.2	<0.05	5	<0.5
MPA 87863	Soil	0.092	7	30	1.61	346	0.177	1	2.07	0.029	0.18	<0.1	0.02	6.1	0.1	<0.05	6	<0.5
MPA 87864	Soil	0.029	11	30	0.58	320	0.108	1	1.65	0.015	0.09	0.2	0.03	3.9	<0.1	<0.05	5	<0.5
MPA 87865	Soil	0.020	12	31	0.56	236	0.092	2	1.65	0.015	0.07	0.1	0.03	3.0	<0.1	<0.05	5	<0.5
MPA 87866	Soil	0.088	13	24	1.60	312	0.291	2	2.74	0.013	0.76	0.1	<0.01	4.2	0.3	<0.05	10	<0.5
MPA 87867	Soil	0.042	16	30	0.70	293	0.112	1	1.90	0.017	0.12	0.1	0.02	4.6	0.1	<0.05	6	<0.5
MPA 87868	Soil	0.035	16	31	0.58	396	0.065	3	1.80	0.013	0.11	0.2	0.09	5.5	0.1	<0.05	6	<0.5
MPA 87869	Soil	0.029	11	31	0.71	306	0.056	<1	2.08	0.012	0.06	0.1	<0.01	7.4	<0.1	<0.05	6	<0.5
MPA 87870	Soil	0.076	9	59	1.00	247	0.110	2	2.07	0.018	0.12	0.1	0.02	3.9	<0.1	<0.05	6	<0.5
MPA 87871	Soil	0.036	10	35	0.68	200	0.071	2	2.18	0.011	0.08	0.1	0.02	3.0	0.1	<0.05	7	<0.5
MPA 87872	Soil	0.098	11	18	1.52	343	0.245	1	2.63	0.015	0.56	0.1	<0.01	6.6	0.2	<0.05	10	<0.5
MPA 87873	Soil	0.062	9	22	1.14	237	0.255	<1	2.27	0.016	0.57	0.1	<0.01	2.9	0.3	<0.05	6	<0.5
MPA 87874	Soil	0.061	3	56	1.17	198	0.129	<1	2.25	0.032	0.07	<0.1	<0.01	5.1	<0.1	<0.05	6	<0.5
MPA 87875	Soil	0.040	4	55	1.01	98	0.175	1	2.38	0.024	0.05	<0.1	<0.01	3.1	<0.1	<0.05	6	<0.5
MPA 87876	Soil	0.073	8	37	1.05	240	0.126	2	2.71	0.018	0.07	0.1	0.01	5.1	<0.1	<0.05	9	<0.5
MPA 87877	Soil	0.052	3	21	1.07	258	0.215	<1	2.55	0.027	0.14	<0.1	<0.01	3.7	<0.1	<0.05	7	<0.5
MPA 87878	Soil	0.070	3	37	1.58	255	0.318	1	2.85	0.027	0.77	<0.1	<0.01	4.2	0.3	<0.05	8	<0.5
MPA 87879	Soil	0.025	6	30	0.88	180	0.188	1	2.13	0.013	0.20	0.1	<0.01	2.8	<0.1	<0.05	6	<0.5
MPA 87880	Soil	0.133	10	24	1.76	359	0.261	2	2.63	0.013	0.57	0.1	<0.01	8.5	0.2	<0.05	10	<0.5
MPA 87881	Soil	0.054	10	34	1.40	286	0.158	<1	2.42	0.014	0.27	0.1	<0.01	5.1	0.2	<0.05	9	<0.5
MPA 87882	Soil	0.067	16	64	1.37	221	0.142	1	2.57	0.017	0.33	0.2	<0.01	7.7	0.2	<0.05	8	<0.5
MPA 87883	Soil	0.018	7	36	0.63	200	0.086	<1	1.99	0.014	0.09	0.1	0.01	3.0	<0.1	<0.05	6	<0.5
MPA 87884	Soil	0.018	6	21	0.37	399	0.044	1	1.19	0.012	0.10	0.1	<0.01	1.8	<0.1	<0.05	5	<0.5
MPA 87885	Soil	0.028	9	34	0.80	225	0.109	<1	2.06	0.015	0.10	0.1	0.01	5.0	<0.1	<0.05	6	<0.5
MPA 87886	Soil	0.031	30	34	0.55	169	0.127	2	2.38	0.011	0.16	0.1	0.03	4.7	0.2	<0.05	7	<0.5
MPA 87887	Soil	0.048	39	15	0.48	95	0.166	<1	1.48	0.013	0.35	<0.1	<0.01	1.1	0.2	<0.05	5	<0.5
MPA 87888	Soil	0.050	57	22	0.49	163	0.055	<1	1.78	0.011	0.24	0.1	<0.01	2.6	0.1	<0.05	5	<0.5
MPA 87889	Soil	0.033	15	28	0.38	108	0.076	2	1.87	0.009	0.05	0.1	0.03	2.2	0.1	<0.05	7	<0.5
MPA 87890	Soil	0.026	18	17	0.30	93	0.090	<1	1.20	0.007	0.09	<0.1	0.02	1.5	0.1	<0.05	7	<0.5

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Project: MPA
Report Date: November 23, 2009

CERTIFICATE OF ANALYSIS VAN09005508.1

	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
MPA 87891	Soil		1.9	9.0	6.4	68	<0.1	7.5	8.6	451	2.53	3.2	3.2	<0.5	27.0	19	<0.1	0.2	<0.1	32	0.20
MPA 87892	Soil		1.7	12.7	8.3	60	<0.1	12.6	7.6	380	2.65	5.8	2.3	2.7	16.8	19	<0.1	0.3	0.1	47	0.22
MPA 87893	Soil		1.1	14.0	8.4	67	<0.1	14.1	9.9	369	3.08	6.5	1.6	1.3	14.0	41	<0.1	0.4	0.1	56	0.18
MPA 87894	Soil		0.9	9.3	11.4	77	<0.1	10.4	7.5	312	2.51	5.5	1.1	<0.5	12.5	28	<0.1	0.3	0.1	50	0.15
MPA 87895	Soil		0.9	12.8	7.2	73	<0.1	14.1	10.1	560	2.92	6.6	1.0	<0.5	10.1	32	0.2	0.3	0.1	58	0.25
MPA 87896	Soil		0.7	12.9	6.7	53	<0.1	6.1	4.6	459	1.97	3.4	1.2	<0.5	4.5	30	0.2	0.2	0.1	37	0.29
MPA 87897	Soil		2.4	7.7	6.5	65	<0.1	10.8	5.8	302	2.30	2.5	0.9	<0.5	12.6	13	<0.1	0.5	<0.1	26	0.22
MPA 87898	Soil		1.6	9.9	6.9	26	0.1	3.4	2.1	177	0.97	1.4	0.5	1.2	1.5	13	0.3	0.2	0.2	24	0.12
MPA 87899	Soil		4.6	51.2	5.8	118	0.2	33.8	13.4	322	4.15	9.6	2.0	2.7	3.5	20	0.4	0.4	0.1	126	0.58
MPA 87900	Soil		1.0	30.7	8.2	60	0.1	30.8	12.7	574	2.91	5.8	0.5	1.3	3.0	27	0.1	0.4	0.1	61	0.49
MPA 87901	Soil		0.3	50.5	2.5	91	<0.1	6.9	12.3	707	4.13	2.2	0.4	<0.5	2.7	10	<0.1	0.2	<0.1	72	0.47
MPA 87902	Soil		0.3	57.1	2.7	101	<0.1	7.1	12.8	786	4.38	2.1	0.5	1.1	2.6	11	<0.1	0.2	<0.1	75	0.47
MPA 87903	Soil		0.8	21.2	7.3	60	<0.1	14.5	10.9	382	3.10	5.0	0.6	3.1	2.9	18	<0.1	0.3	0.1	65	0.33
MPA 87904	Soil		0.8	22.7	7.2	70	<0.1	17.4	11.0	422	3.37	6.1	0.8	3.3	3.5	22	<0.1	0.3	0.1	69	0.44
MPA 87905	Soil		0.9	19.0	7.2	66	<0.1	17.8	11.9	544	3.07	5.8	0.7	2.4	2.9	25	0.1	0.3	0.1	65	0.52
MPA 87906	Soil		1.6	17.2	6.3	83	<0.1	12.7	9.3	442	3.50	4.2	0.8	2.0	4.9	21	<0.1	0.3	<0.1	50	0.46
MPA 87907	Soil		0.9	18.5	6.9	76	<0.1	12.5	9.1	364	2.97	4.2	0.9	1.7	4.1	23	<0.1	0.3	0.1	49	0.47
MPA 87908	Soil		0.8	18.3	6.7	69	<0.1	14.0	9.3	401	2.95	4.7	0.8	0.7	4.2	22	<0.1	0.3	0.1	52	0.42
MPA 87909	Soil		1.2	13.9	6.9	71	<0.1	14.3	9.5	317	3.37	6.3	0.7	4.8	3.1	21	<0.1	0.3	0.1	60	0.38
MPA 87910	Soil		0.7	12.8	8.2	100	<0.1	7.2	9.5	415	3.62	1.7	1.4	<0.5	7.0	41	<0.1	0.1	0.1	55	0.92
MPA 87911	Soil		1.3	26.1	8.3	84	0.2	21.0	12.4	579	3.27	4.6	1.4	2.8	3.0	48	0.2	0.3	0.1	60	0.79
MPA 87912	Soil		0.9	14.4	7.2	65	<0.1	14.4	9.9	363	2.71	5.4	0.7	0.6	3.0	22	<0.1	0.3	0.1	62	0.43
MPA 87913	Soil		1.6	10.2	7.6	64	<0.1	13.9	8.4	300	3.02	7.1	0.5	0.7	2.3	18	<0.1	0.3	0.1	73	0.28
MPA 87914	Soil		4.9	23.3	15.0	169	<0.1	33.4	19.8	596	5.40	20.4	1.3	<0.5	6.2	25	0.1	0.5	0.2	121	0.63
MPA 87915	Soil		2.4	19.6	9.4	80	0.2	15.3	8.6	560	2.90	11.5	1.8	2.0	7.3	31	<0.1	0.3	0.1	44	0.39
MPA 87916	Soil		2.1	14.7	18.0	101	0.2	14.7	8.0	339	3.01	14.3	2.1	3.6	8.1	31	0.1	0.4	0.2	46	0.25
MPA 87917	Soil		2.7	13.2	24.3	45	0.2	6.7	7.9	240	2.45	12.9	3.1	6.1	8.2	37	0.2	0.3	0.4	20	0.16
MPA 87918	Soil		2.5	17.4	30.1	69	0.2	9.2	6.6	210	3.02	10.8	4.2	4.9	14.8	36	<0.1	0.3	0.3	28	0.17
MPA 87919	Soil		3.0	43.3	63.7	96	0.5	18.2	6.8	421	3.43	11.0	4.0	6.9	5.1	32	0.9	0.3	0.8	30	0.27
MPA 87920	Soil		12.7	39.2	176.8	350	0.7	55.5	18.0	615	4.57	30.3	2.6	9.8	13.6	66	0.6	0.3	5.2	34	0.26

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	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
	MDL	0.001	1	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
MPA 87891	Soil	0.050	43	13	0.47	135	0.086	<1	1.43	0.011	0.30	<0.1	<0.01	1.6	0.2	<0.05	4	<0.5
MPA 87892	Soil	0.049	39	21	0.50	146	0.072	<1	1.59	0.010	0.16	0.1	0.01	2.7	0.2	<0.05	5	<0.5
MPA 87893	Soil	0.025	30	26	0.55	200	0.084	1	2.08	0.012	0.18	<0.1	<0.01	3.0	0.2	<0.05	6	<0.5
MPA 87894	Soil	0.025	12	19	0.50	125	0.080	<1	1.82	0.009	0.13	0.1	<0.01	2.1	0.1	<0.05	5	<0.5
MPA 87895	Soil	0.039	25	22	0.53	215	0.094	<1	2.07	0.012	0.17	0.2	0.01	2.2	0.2	<0.05	6	<0.5
MPA 87896	Soil	0.041	29	11	0.36	177	0.069	<1	1.47	0.012	0.14	<0.1	0.01	1.2	0.2	<0.05	7	<0.5
MPA 87897	Soil	0.053	13	15	0.64	106	0.024	1	2.08	0.007	0.20	0.2	<0.01	2.0	0.3	<0.05	5	<0.5
MPA 87898	Soil	0.030	13	10	0.13	112	0.043	1	0.67	0.017	0.12	<0.1	0.01	1.3	<0.1	<0.05	4	<0.5
MPA 87899	Soil	0.096	13	49	1.02	274	0.075	1	2.42	0.026	0.15	<0.1	0.02	8.2	0.1	<0.05	9	<0.5
MPA 87900	Soil	0.060	12	48	0.77	376	0.082	2	1.66	0.024	0.07	0.1	0.02	4.4	<0.1	<0.05	5	<0.5
MPA 87901	Soil	0.168	13	12	1.15	337	0.159	<1	1.98	0.010	0.61	<0.1	<0.01	8.6	0.2	<0.05	10	<0.5
MPA 87902	Soil	0.150	13	14	1.20	383	0.176	<1	2.02	0.013	0.65	<0.1	<0.01	8.9	0.2	<0.05	10	<0.5
MPA 87903	Soil	0.047	14	27	0.77	190	0.104	2	1.71	0.023	0.06	<0.1	0.02	5.7	<0.1	<0.05	7	<0.5
MPA 87904	Soil	0.066	12	29	0.71	228	0.089	1	1.72	0.019	0.05	0.2	0.02	5.7	<0.1	<0.05	6	<0.5
MPA 87905	Soil	0.074	12	30	0.68	556	0.062	<1	1.75	0.018	0.06	<0.1	0.02	4.8	<0.1	<0.05	6	<0.5
MPA 87906	Soil	0.091	20	20	0.68	439	0.087	<1	1.76	0.018	0.15	0.1	<0.01	4.6	<0.1	<0.05	7	<0.5
MPA 87907	Soil	0.072	18	19	0.63	429	0.094	1	1.66	0.015	0.13	0.2	0.01	3.5	0.1	<0.05	6	<0.5
MPA 87908	Soil	0.062	15	24	0.70	418	0.121	<1	1.70	0.017	0.16	0.1	0.02	4.3	0.1	<0.05	6	<0.5
MPA 87909	Soil	0.072	10	23	0.78	268	0.114	2	1.94	0.017	0.20	0.2	0.02	3.2	0.1	<0.05	7	<0.5
MPA 87910	Soil	0.300	22	11	1.01	484	0.089	<1	2.00	0.009	0.47	<0.1	0.01	2.9	0.2	<0.05	6	<0.5
MPA 87911	Soil	0.082	16	26	0.79	504	0.112	1	2.08	0.017	0.18	0.1	0.03	4.4	0.2	<0.05	6	0.6
MPA 87912	Soil	0.063	13	25	0.69	324	0.117	1	1.80	0.023	0.17	0.2	0.01	3.4	0.1	<0.05	6	<0.5
MPA 87913	Soil	0.062	8	24	0.71	218	0.151	<1	2.07	0.016	0.21	0.1	<0.01	2.6	0.2	<0.05	7	<0.5
MPA 87914	Soil	0.187	13	53	1.22	308	0.105	<1	2.62	0.016	0.65	<0.1	0.02	10.5	0.7	<0.05	8	<0.5
MPA 87915	Soil	0.075	23	21	0.63	280	0.096	2	1.58	0.019	0.23	0.2	0.02	3.0	0.2	<0.05	5	<0.5
MPA 87916	Soil	0.042	23	22	0.44	180	0.075	1	1.54	0.036	0.09	0.1	0.01	3.9	0.1	0.07	5	0.9
MPA 87917	Soil	0.063	30	9	0.18	157	0.024	1	1.19	0.029	0.11	<0.1	0.02	1.8	0.1	0.13	3	1.0
MPA 87918	Soil	0.048	34	13	0.27	190	0.030	<1	1.32	0.038	0.18	0.1	0.02	2.4	0.2	0.20	4	1.8
MPA 87919	Soil	0.074	33	21	0.32	228	0.019	1	1.27	0.014	0.08	0.1	0.05	2.6	0.1	0.08	4	1.9
MPA 87920	Soil	0.098	38	41	0.64	312	0.029	1	1.62	0.087	0.28	<0.1	0.02	3.5	0.1	0.52	4	3.0

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Project: MPA
Report Date: November 23, 2009

CERTIFICATE OF ANALYSIS VAN09005508.1

	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
MPA 87921	Soil		2.0	18.2	28.8	67	0.2	8.2	5.4	203	2.63	12.3	3.6	<0.5	8.2	43	0.1	0.3	0.4	30	0.39
MPA 87922	Soil		1.4	15.0	9.1	88	0.1	11.1	12.5	498	3.35	4.4	1.3	3.1	3.2	37	<0.1	0.2	<0.1	46	0.59
MPA 87923	Soil		1.0	12.9	5.1	90	<0.1	4.3	12.2	574	3.28	3.2	1.0	1.8	6.9	18	<0.1	0.2	<0.1	43	0.43
MPA 87924	Soil		1.1	16.0	8.3	70	<0.1	12.5	12.7	436	2.98	9.5	1.1	10.7	6.3	24	<0.1	0.3	<0.1	49	0.50
MPA 87925	Soil		1.0	27.0	6.3	65	0.1	20.1	12.3	483	3.28	6.0	0.8	12.4	3.2	27	<0.1	0.3	0.1	66	0.49
MPA 87926	Soil		0.6	17.9	7.2	87	<0.1	11.1	12.1	706	3.88	4.1	0.7	1.0	3.8	18	0.2	0.2	<0.1	76	0.53
MPA 87927	Soil		0.8	13.6	6.0	80	0.1	6.5	8.0	761	2.36	2.5	0.4	0.7	2.1	24	0.2	0.1	0.1	51	0.55
MPA 87928	Soil		0.8	24.2	6.9	74	<0.1	19.6	12.3	700	3.92	8.1	0.9	2.8	4.0	22	<0.1	0.4	0.1	79	0.38
MPA 87929	Soil		1.6	15.3	14.1	76	<0.1	8.1	9.8	530	3.20	10.6	2.4	<0.5	11.0	20	<0.1	0.2	0.2	41	0.32
MPA 87930	Soil		1.8	22.0	26.1	73	0.2	23.8	11.5	759	3.12	19.6	1.7	4.6	11.3	44	0.3	0.4	0.7	41	0.67
MPA 87931	Soil		1.7	35.3	11.3	91	0.1	16.2	19.9	379	4.19	8.2	1.4	<0.5	6.0	23	<0.1	0.1	1.0	92	0.48
MPA 87932	Soil		1.3	44.0	20.0	83	0.2	20.5	15.0	514	3.33	18.3	1.4	1.2	7.2	30	0.1	0.3	1.2	57	0.48
MPA 87933	Soil		0.8	31.4	6.5	69	<0.1	24.6	15.0	549	3.72	7.3	1.0	18.0	6.2	27	<0.1	0.3	0.1	70	0.56
MPA 87967	Soil		0.9	16.0	6.5	54	<0.1	17.3	17.4	286	2.98	6.8	0.4	1.7	1.3	24	0.1	0.3	0.1	72	0.36
MPA 87968	Soil		0.7	26.0	8.1	58	<0.1	25.6	21.6	532	3.29	4.6	0.5	1.4	2.7	35	<0.1	0.2	0.1	65	0.37
MPA 87969	Soil		1.3	20.1	7.8	68	<0.1	15.0	12.5	396	4.21	7.5	0.5	1.3	2.7	15	<0.1	0.4	0.1	82	0.17
MPA 87970	Soil		1.3	26.7	6.7	61	<0.1	19.2	13.2	367	3.26	7.6	0.6	2.1	3.0	24	<0.1	0.3	0.1	78	0.36
MPA 87971	Soil		1.1	27.7	6.4	72	<0.1	13.7	13.1	437	3.77	5.9	0.7	1.5	3.8	21	<0.1	0.3	<0.1	77	0.37
MPA 87972	Soil		1.0	43.7	5.6	70	<0.1	18.1	13.8	412	3.71	5.2	0.8	1.9	4.9	20	<0.1	0.2	<0.1	70	0.40
MPA 87973	Soil		1.1	21.3	6.4	60	<0.1	16.1	11.9	382	3.41	7.1	0.9	1.8	3.9	22	<0.1	0.3	0.1	72	0.36
MPA 87974	Soil		1.0	16.4	6.6	63	<0.1	14.2	10.1	376	3.45	7.0	0.7	2.6	3.8	19	<0.1	0.3	0.1	65	0.28
MPA 87975	Soil		1.1	19.7	6.2	66	<0.1	16.4	11.8	430	3.36	5.9	0.9	2.4	4.2	24	<0.1	0.3	0.1	71	0.42
MPA 87976	Soil		1.2	18.8	6.5	66	<0.1	15.3	10.9	383	3.29	6.9	0.9	3.0	3.9	26	<0.1	0.3	0.1	66	0.44
MPA 87977	Soil		1.1	16.9	7.0	64	<0.1	16.0	10.5	339	3.02	7.4	0.9	3.1	3.7	29	<0.1	0.3	0.1	64	0.47
MPA 87978	Soil		0.9	19.2	6.7	67	<0.1	15.2	10.1	344	2.82	6.1	1.0	2.7	3.5	27	0.1	0.3	0.1	54	0.46
MPA 87979	Soil		1.0	17.6	6.1	66	<0.1	17.0	10.3	550	3.40	6.0	0.5	1.4	5.4	31	<0.1	0.4	0.1	54	0.53
MPA 87980	Soil		1.4	13.8	8.6	79	<0.1	21.6	12.0	493	3.76	6.3	0.5	0.7	4.8	21	<0.1	0.4	0.1	58	0.31
MPA 87981	Soil		3.9	57.5	9.9	89	<0.1	94.3	30.2	679	5.19	4.3	0.7	2.2	2.8	31	<0.1	0.2	<0.1	127	0.64
MPA 87982	Soil		1.4	19.7	6.9	65	<0.1	16.3	10.9	401	3.22	7.2	1.0	1.9	4.0	27	<0.1	0.3	0.1	66	0.46
MPA 87983	Soil		1.4	28.5	5.7	66	<0.1	17.6	15.4	331	2.93	5.3	0.5	4.1	2.5	22	<0.1	0.2	<0.1	64	0.33

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		Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		MDL	0.001	1	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
MPA 87921	Soil		0.061	32	15	0.40	192	0.062	<1	1.37	0.033	0.12	<0.1	0.02	2.3	0.1	0.16	4	<0.5
MPA 87922	Soil		0.075	12	20	0.95	312	0.153	<1	1.99	0.011	0.47	0.1	0.02	2.2	0.3	0.08	6	<0.5
MPA 87923	Soil		0.091	10	10	0.92	141	0.204	2	1.78	0.008	0.81	<0.1	<0.01	1.1	0.4	<0.05	6	<0.5
MPA 87924	Soil		0.073	13	25	0.94	188	0.129	<1	1.78	0.013	0.30	0.1	0.02	2.6	0.2	<0.05	5	<0.5
MPA 87925	Soil		0.065	15	36	0.84	302	0.106	2	1.89	0.017	0.13	0.2	0.03	4.5	0.1	<0.05	7	<0.5
MPA 87926	Soil		0.105	17	19	0.96	412	0.178	<1	2.03	0.013	0.39	0.1	0.02	8.1	0.2	<0.05	8	<0.5
MPA 87927	Soil		0.077	7	12	0.62	346	0.130	<1	1.30	0.017	0.40	0.1	0.02	4.4	0.2	<0.05	7	<0.5
MPA 87928	Soil		0.043	16	29	0.84	349	0.137	2	2.03	0.027	0.35	0.1	0.02	6.7	0.2	<0.05	7	<0.5
MPA 87929	Soil		0.071	10	12	0.42	207	0.042	1	1.43	0.014	0.25	<0.1	<0.01	2.3	0.2	<0.05	7	<0.5
MPA 87930	Soil		0.098	37	30	0.56	371	0.056	3	1.41	0.029	0.22	<0.1	0.02	4.0	0.2	0.06	4	<0.5
MPA 87931	Soil		0.115	15	31	1.19	270	0.117	1	2.31	0.016	0.73	<0.1	0.01	6.0	0.3	<0.05	9	1.0
MPA 87932	Soil		0.076	28	31	0.91	311	0.117	2	1.79	0.021	0.38	0.1	0.02	3.9	0.2	<0.05	5	<0.5
MPA 87933	Soil		0.063	25	45	1.04	183	0.133	2	2.04	0.013	0.32	0.1	0.02	5.0	0.1	0.07	6	<0.5
MPA 87967	Soil		0.035	5	27	0.49	352	0.082	2	1.77	0.013	0.12	0.1	<0.01	2.6	<0.1	0.09	5	<0.5
MPA 87968	Soil		0.050	11	46	1.41	327	0.156	1	2.14	0.012	0.24	0.2	<0.01	2.4	<0.1	<0.05	6	<0.5
MPA 87969	Soil		0.034	10	27	0.82	266	0.145	1	2.05	0.008	0.31	<0.1	0.01	3.8	0.2	<0.05	8	<0.5
MPA 87970	Soil		0.054	12	32	1.05	314	0.160	2	2.08	0.017	0.41	0.2	0.01	2.8	0.2	<0.05	6	0.8
MPA 87971	Soil		0.076	18	24	1.13	311	0.173	1	2.13	0.009	0.56	0.1	0.01	3.2	0.3	<0.05	7	0.5
MPA 87972	Soil		0.080	21	28	0.95	226	0.148	2	1.96	0.016	0.45	0.2	0.02	4.4	0.2	<0.05	7	0.6
MPA 87973	Soil		0.056	16	29	0.79	372	0.128	1	1.84	0.010	0.25	0.1	0.02	3.8	0.2	<0.05	6	<0.5
MPA 87974	Soil		0.050	15	28	0.78	273	0.136	1	1.83	0.015	0.22	0.1	0.01	3.6	0.1	<0.05	6	<0.5
MPA 87975	Soil		0.055	16	32	0.84	289	0.150	1	1.87	0.013	0.33	0.2	0.02	4.6	0.2	<0.05	6	0.7
MPA 87976	Soil		0.059	15	26	0.72	269	0.127	2	1.84	0.014	0.23	0.2	0.02	4.4	0.1	<0.05	7	0.5
MPA 87977	Soil		0.060	15	28	0.66	314	0.115	2	1.81	0.015	0.17	0.2	0.03	3.7	0.1	<0.05	6	<0.5
MPA 87978	Soil		0.070	16	25	0.63	288	0.099	1	1.68	0.013	0.14	0.2	0.04	3.5	0.1	<0.05	6	0.6
MPA 87979	Soil		0.036	20	25	0.74	531	0.111	2	1.89	0.013	0.46	0.1	0.02	3.6	0.2	<0.05	7	<0.5
MPA 87980	Soil		0.048	10	41	0.77	332	0.109	2	1.91	0.011	0.47	0.1	<0.01	3.7	0.2	<0.05	8	<0.5
MPA 87981	Soil		0.184	26	126	2.19	413	0.168	2	2.90	0.018	0.51	<0.1	0.01	8.3	0.2	<0.05	10	0.6
MPA 87982	Soil		0.063	15	27	0.73	274	0.130	2	1.87	0.017	0.23	0.2	0.02	4.2	0.2	<0.05	7	<0.5
MPA 87983	Soil		0.065	11	26	1.01	278	0.108	1	1.89	0.009	0.16	0.1	0.01	3.9	0.2	<0.05	7	<0.5

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	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
MPA 87984	Soil		2.6	28.2	6.0	60	<0.1	13.4	12.0	241	3.17	7.8	0.8	1.7	3.4	19	<0.1	0.2	0.1	60	0.28
MPA 87985	Soil		4.2	43.0	3.7	81	<0.1	9.6	17.5	201	3.71	4.0	0.8	0.9	2.9	21	<0.1	0.1	<0.1	63	0.50
MPA 87986	Soil		5.0	53.0	7.7	62	0.1	9.7	12.2	244	3.30	15.7	1.4	5.2	4.4	23	<0.1	0.3	0.1	44	0.45
MPA 87987	Soil		3.0	34.1	5.3	61	<0.1	17.3	12.1	297	3.23	11.6	0.9	1.9	3.3	26	<0.1	0.4	<0.1	62	0.32
MPA 87988	Soil		0.9	30.8	3.7	66	<0.1	16.6	12.8	370	2.89	3.3	0.8	2.1	2.9	21	<0.1	0.1	<0.1	55	0.48
MPA 87989	Soil		1.3	17.9	5.0	73	<0.1	15.0	12.3	412	3.46	4.4	0.5	2.3	2.2	22	<0.1	0.2	<0.1	75	0.42
MPA 87990	Soil		1.6	20.2	5.0	71	<0.1	12.4	14.4	499	3.34	3.9	0.4	1.9	1.6	22	<0.1	0.2	<0.1	76	0.44
MPA 87991	Soil		1.3	31.2	5.2	75	0.1	14.9	11.3	481	3.56	4.0	0.8	1.2	2.6	24	0.1	0.2	<0.1	78	0.49
MPA 87992	Soil		1.1	26.2	5.4	59	<0.1	22.2	13.3	298	3.21	4.3	0.4	2.3	1.9	17	<0.1	0.2	<0.1	79	0.35
MPA 87993	Soil		1.2	15.1	6.0	56	<0.1	13.0	8.3	252	2.64	3.6	0.4	2.1	1.6	17	<0.1	0.2	0.1	67	0.30
MPA 87994	Soil		1.1	13.0	5.5	74	<0.1	14.4	10.5	445	3.04	4.2	0.3	0.9	1.7	21	<0.1	0.2	<0.1	72	0.41
MPA 87995	Soil		0.8	24.0	6.2	70	<0.1	106.6	17.4	431	3.30	3.4	0.8	2.8	4.7	114	<0.1	0.1	<0.1	73	0.79
MPA 87996	Soil		0.5	13.1	3.8	105	<0.1	9.8	12.8	681	3.40	4.0	0.4	1.1	1.4	29	<0.1	0.1	<0.1	74	0.79
MPA 87997	Soil		0.4	19.1	4.0	130	<0.1	14.6	14.8	537	4.00	2.9	0.6	1.8	2.3	35	<0.1	0.1	<0.1	77	0.82
MPA 87998	Soil		0.8	27.0	5.3	105	<0.1	17.4	14.6	564	3.99	4.1	0.6	2.1	2.1	24	<0.1	0.2	<0.1	89	0.53
MPA 87999	Soil		0.7	14.9	5.7	80	<0.1	14.0	9.8	405	3.29	4.5	0.7	2.1	3.1	24	<0.1	0.2	0.1	66	0.47
MPA 88000	Soil		1.0	21.1	6.0	73	0.1	15.5	11.1	495	3.42	4.0	0.6	3.7	2.7	18	0.1	0.2	0.1	79	0.35
MPA 81758	Soil		2.2	23.3	6.9	65	<0.1	17.6	11.9	694	3.06	5.1	1.1	7.3	3.4	29	0.1	0.3	<0.1	70	0.65

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CERTIFICATE OF ANALYSIS VAN09005508.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
	MDL	0.001	1	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
MPA 87984	Soil	0.051	15	21	0.75	269	0.106	1	1.86	0.014	0.27	<0.1	0.01	3.4	0.2	<0.05	6	0.7
MPA 87985	Soil	0.165	16	23	0.95	217	0.088	<1	1.99	0.011	0.40	<0.1	<0.01	3.0	0.2	<0.05	7	0.6
MPA 87986	Soil	0.060	20	12	0.49	207	0.050	<1	1.40	0.012	0.31	<0.1	0.02	3.3	0.2	0.08	4	1.1
MPA 87987	Soil	0.043	15	34	0.80	259	0.132	<1	1.78	0.019	0.42	0.1	0.01	2.4	0.2	0.07	6	<0.5
MPA 87988	Soil	0.080	10	34	1.05	237	0.179	<1	1.85	0.015	0.56	0.1	<0.01	2.4	0.3	<0.05	5	0.6
MPA 87989	Soil	0.054	9	29	0.90	261	0.198	<1	1.98	0.013	0.46	0.1	<0.01	2.1	0.2	<0.05	7	<0.5
MPA 87990	Soil	0.071	8	24	0.88	309	0.206	1	1.90	0.015	0.50	0.1	<0.01	2.0	0.2	<0.05	7	<0.5
MPA 87991	Soil	0.065	15	31	0.91	391	0.208	2	2.09	0.013	0.59	0.1	0.02	2.6	0.3	<0.05	7	<0.5
MPA 87992	Soil	0.061	8	61	1.09	283	0.198	<1	2.07	0.013	0.45	0.1	0.01	2.3	0.2	<0.05	6	<0.5
MPA 87993	Soil	0.062	6	28	0.70	228	0.162	1	1.71	0.023	0.23	0.1	0.01	1.9	0.2	<0.05	7	<0.5
MPA 87994	Soil	0.108	6	28	0.86	224	0.160	<1	1.83	0.013	0.28	0.1	0.01	1.8	0.1	<0.05	7	<0.5
MPA 87995	Soil	0.203	24	100	2.00	343	0.180	<1	2.26	0.020	0.40	0.1	<0.01	1.9	0.2	<0.05	7	<0.5
MPA 87996	Soil	0.113	5	19	1.86	296	0.198	1	2.38	0.013	0.61	<0.1	<0.01	3.5	0.2	<0.05	8	<0.5
MPA 87997	Soil	0.156	9	23	1.57	428	0.181	<1	2.36	0.016	0.71	<0.1	0.02	3.5	0.2	<0.05	8	<0.5
MPA 87998	Soil	0.105	10	31	1.28	350	0.195	2	2.33	0.016	0.63	0.1	0.01	4.2	0.3	<0.05	7	<0.5
MPA 87999	Soil	0.085	14	27	0.84	231	0.111	2	1.78	0.018	0.19	0.1	0.01	4.4	0.1	<0.05	6	0.6
MPA 88000	Soil	0.066	13	32	0.86	216	0.086	1	1.86	0.013	0.13	0.1	0.02	5.1	<0.1	<0.05	7	<0.5
MPA 81758	Soil	0.092	18	29	0.70	592	0.085	2	1.78	0.019	0.12	0.1	0.04	5.7	<0.1	<0.05	6	0.5

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Project: MPA
Report Date: November 23, 2009

QUALITY CONTROL REPORT VAN09005508.1

	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
Pulp Duplicates																					
MPA 59214	Soil		0.6	34.7	6.8	67	<0.1	19.0	10.3	492	2.56	4.4	1.4	4.8	2.2	42	0.2	0.4	0.1	57	1.41
REP MPA 59214	QC		0.6	34.8	6.9	66	<0.1	19.1	10.1	519	2.60	4.6	1.4	4.3	2.3	42	0.2	0.4	0.1	55	1.38
MPA 59234	Soil		1.3	31.2	6.6	77	<0.1	16.1	14.5	500	3.83	6.4	0.8	1.8	3.3	23	0.1	0.3	0.1	69	0.46
REP MPA 59234	QC		1.3	32.9	6.7	80	<0.1	17.6	14.7	539	4.02	6.8	0.8	0.9	3.2	24	<0.1	0.3	0.1	69	0.48
MPA 81773	Soil		0.2	9.2	3.6	86	<0.1	10.3	12.1	579	4.24	1.1	0.5	1.3	3.6	27	<0.1	0.2	<0.1	113	0.44
REP MPA 81773	QC		0.2	9.8	3.6	85	<0.1	10.8	12.1	586	4.38	1.5	0.5	1.6	3.7	28	<0.1	0.1	<0.1	119	0.46
MPA 81784	Soil		1.7	34.4	10.5	72	0.4	14.3	9.6	328	4.33	3.2	0.7	9.1	3.2	65	0.1	0.1	0.2	71	0.40
REP MPA 81784	QC		1.6	34.2	10.3	71	0.4	14.0	9.6	335	4.35	2.8	0.7	8.2	3.2	68	<0.1	0.1	0.2	74	0.39
MPA 81796	Soil		2.2	83.3	12.1	108	0.2	19.0	7.8	299	2.81	20.4	1.1	4.3	5.0	19	0.2	0.8	0.3	58	0.25
REP MPA 81796	QC		2.4	88.2	12.9	110	0.3	19.9	8.4	309	3.02	21.4	1.2	3.0	5.1	20	0.2	0.8	0.3	60	0.27
MPA 82897	Soil		0.9	62.7	6.2	73	0.2	28.0	21.6	542	3.59	19.3	0.6	2.7	1.9	50	0.2	0.4	<0.1	100	3.26
REP MPA 82897	QC		0.8	62.3	6.1	70	0.2	26.2	21.5	535	3.59	19.4	0.6	2.7	2.1	50	<0.1	0.4	<0.1	93	3.11
MPA 83966	Soil		3.0	12.3	28.2	37	<0.1	3.1	1.5	47	3.51	14.2	1.7	1.4	14.8	64	<0.1	0.2	0.8	14	0.05
REP MPA 83966	QC		3.1	13.0	26.2	36	<0.1	2.9	1.4	46	3.52	14.4	1.6	1.1	13.7	65	<0.1	0.2	0.7	12	0.04
MPA 83977	Soil		1.2	16.1	5.5	111	<0.1	8.5	15.7	672	3.81	8.5	1.0	<0.5	3.6	29	<0.1	0.2	<0.1	82	0.49
REP MPA 83977	QC		1.3	15.8	5.7	109	<0.1	8.6	16.1	680	3.72	8.9	0.9	1.6	3.6	28	<0.1	0.2	<0.1	82	0.48
MPA 87439	Soil		3.9	14.8	14.4	59	<0.1	3.5	5.8	334	4.94	54.6	3.1	2.5	13.9	84	<0.1	0.2	0.3	33	0.19
REP MPA 87439	QC		4.3	14.0	14.5	56	0.1	3.1	5.2	296	4.82	61.1	3.1	2.4	14.5	90	<0.1	0.3	0.3	32	0.17
MPA 87458	Soil		1.2	25.0	7.3	69	<0.1	17.4	11.8	591	3.12	5.8	0.9	1.9	3.1	32	0.2	0.3	0.1	65	0.54
REP MPA 87458	QC		1.2	26.5	7.1	69	<0.1	16.9	12.1	622	3.15	6.2	0.9	2.0	3.1	32	0.1	0.3	0.1	68	0.58
MPA 87861	Soil		1.5	25.8	10.2	50	<0.1	22.6	10.8	346	2.70	8.9	1.0	3.5	5.5	31	<0.1	0.6	0.2	58	0.44
REP MPA 87861	QC		1.4	24.9	10.6	48	<0.1	20.9	10.4	343	2.70	9.0	1.0	4.2	5.5	30	<0.1	0.6	0.1	56	0.47
MPA 87889	Soil		1.0	11.9	11.5	43	<0.1	11.8	5.9	197	2.78	8.5	0.9	2.9	5.7	14	<0.1	0.5	0.2	70	0.12
REP MPA 87889	QC		1.0	11.4	11.4	41	<0.1	11.8	5.9	192	2.82	8.6	0.9	2.2	6.1	15	0.1	0.5	0.2	71	0.12
MPA 87912	Soil		0.9	14.4	7.2	65	<0.1	14.4	9.9	363	2.71	5.4	0.7	0.6	3.0	22	<0.1	0.3	0.1	62	0.43
REP MPA 87912	QC		1.0	14.1	7.6	63	<0.1	13.7	9.7	354	2.66	5.0	0.8	<0.5	2.9	22	<0.1	0.3	0.1	59	0.40
MPA 87926	Soil		0.6	17.9	7.2	87	<0.1	11.1	12.1	706	3.88	4.1	0.7	1.0	3.8	18	0.2	0.2	<0.1	76	0.53
REP MPA 87926	QC		0.6	17.5	4.5	91	<0.1	11.5	12.1	669	4.03	4.0	0.7	2.3	3.6	18	0.2	0.2	<0.1	79	0.52

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	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
	MDL	0.001	1	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
Pulp Duplicates																		
MPA 59214	Soil	0.091	15	26	0.66	773	0.079	1	1.49	0.018	0.13	0.2	0.06	5.9	<0.1	0.06	5	1.0
REP MPA 59214	QC	0.084	16	25	0.64	787	0.075	<1	1.44	0.018	0.13	0.1	0.07	6.0	<0.1	<0.05	5	1.2
MPA 59234	Soil	0.052	16	27	0.94	310	0.052	<1	1.95	0.012	0.09	0.1	0.02	6.2	<0.1	<0.05	7	0.5
REP MPA 59234	QC	0.054	16	28	0.92	327	0.053	<1	2.01	0.012	0.09	0.1	0.02	6.4	<0.1	<0.05	8	0.7
MPA 81773	Soil	0.104	15	25	1.67	434	0.185	<1	2.56	0.011	0.60	<0.1	<0.01	9.0	0.2	<0.05	10	0.7
REP MPA 81773	QC	0.104	14	26	1.71	436	0.188	<1	2.62	0.012	0.62	<0.1	<0.01	9.3	0.2	<0.05	10	<0.5
MPA 81784	Soil	0.067	12	35	0.94	291	0.161	<1	1.90	0.087	0.39	<0.1	<0.01	3.7	0.3	0.38	6	1.1
REP MPA 81784	QC	0.065	12	37	0.96	292	0.166	<1	1.92	0.087	0.40	<0.1	<0.01	3.7	0.3	0.38	6	1.0
MPA 81796	Soil	0.026	22	34	0.50	243	0.058	<1	1.70	0.011	0.06	0.1	0.01	3.5	0.1	<0.05	5	0.8
REP MPA 81796	QC	0.025	23	35	0.51	269	0.066	1	1.80	0.012	0.06	0.1	0.01	3.6	0.1	<0.05	6	1.0
MPA 82897	Soil	0.112	11	22	1.17	383	0.120	<1	1.92	0.024	0.18	0.2	0.03	5.6	0.1	0.06	6	0.8
REP MPA 82897	QC	0.107	11	20	1.25	370	0.112	1	1.96	0.022	0.17	0.1	0.04	5.2	0.1	<0.05	6	0.8
MPA 83966	Soil	0.041	37	7	0.08	122	0.022	<1	0.85	0.092	0.07	<0.1	<0.01	1.5	<0.1	0.36	3	2.8
REP MPA 83966	QC	0.042	36	7	0.08	121	0.022	<1	0.83	0.087	0.07	<0.1	<0.01	1.5	<0.1	0.32	3	2.2
MPA 83977	Soil	0.099	21	10	1.56	269	0.254	<1	2.52	0.012	0.88	0.2	<0.01	3.1	0.3	<0.05	7	<0.5
REP MPA 83977	QC	0.098	22	10	1.63	270	0.254	<1	2.50	0.011	0.85	0.2	<0.01	3.2	0.4	<0.05	6	<0.5
MPA 87439	Soil	0.063	35	7	0.46	299	0.105	<1	1.23	0.156	0.24	<0.1	<0.01	3.3	0.2	0.63	5	3.7
REP MPA 87439	QC	0.064	34	8	0.46	294	0.102	<1	1.20	0.168	0.24	<0.1	<0.01	3.1	0.2	0.68	5	3.4
MPA 87458	Soil	0.085	16	28	0.69	771	0.090	2	1.66	0.017	0.17	0.1	0.03	6.4	<0.1	<0.05	5	0.6
REP MPA 87458	QC	0.080	17	28	0.66	784	0.094	2	1.59	0.019	0.17	0.1	0.03	6.4	<0.1	<0.05	5	0.7
MPA 87861	Soil	0.055	19	28	0.59	236	0.072	1	1.56	0.017	0.08	0.1	0.02	3.8	<0.1	<0.05	4	<0.5
REP MPA 87861	QC	0.052	18	26	0.59	232	0.081	2	1.60	0.017	0.08	0.1	0.02	4.0	<0.1	<0.05	4	<0.5
MPA 87889	Soil	0.033	15	28	0.38	108	0.076	2	1.87	0.009	0.05	0.1	0.03	2.2	0.1	<0.05	7	<0.5
REP MPA 87889	QC	0.031	15	29	0.37	105	0.074	<1	1.78	0.010	0.05	0.1	0.02	2.4	0.1	<0.05	6	<0.5
MPA 87912	Soil	0.063	13	25	0.69	324	0.117	1	1.80	0.023	0.17	0.2	0.01	3.4	0.1	<0.05	6	<0.5
REP MPA 87912	QC	0.063	12	23	0.68	306	0.113	<1	1.76	0.028	0.16	0.2	0.01	3.3	0.1	<0.05	6	<0.5
MPA 87926	Soil	0.105	17	19	0.96	412	0.178	<1	2.03	0.013	0.39	0.1	0.02	8.1	0.2	<0.05	8	<0.5
REP MPA 87926	QC	0.113	17	20	0.95	406	0.180	2	2.01	0.013	0.40	<0.1	0.01	8.1	0.2	<0.05	8	<0.5

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		WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
MPA 87972	Soil		1.0	43.7	5.6	70	<0.1	18.1	13.8	412	3.71	5.2	0.8	1.9	4.9	20	<0.1	0.2	<0.1	70	0.40
REP MPA 87972	QC		1.2	39.4	5.3	68	<0.1	17.1	13.5	384	3.57	4.6	0.8	2.0	4.7	20	<0.1	0.3	<0.1	67	0.40
MPA 87996	Soil		0.5	13.1	3.8	105	<0.1	9.8	12.8	681	3.40	4.0	0.4	1.1	1.4	29	<0.1	0.1	<0.1	74	0.79
REP MPA 87996	QC		0.5	13.7	4.1	104	<0.1	10.1	12.7	648	3.28	3.9	0.3	<0.5	1.4	27	<0.1	0.1	<0.1	71	0.75
Reference Materials																					
STD DS7	Standard		20.8	109.6	67.7	408	0.8	59.0	9.3	579	2.36	56.0	4.6	66.3	4.2	75	6.1	5.7	4.5	82	0.95
STD DS7	Standard		20.3	106.5	72.4	393	0.8	56.9	9.2	578	2.19	47.8	5.1	73.2	4.6	71	5.8	6.0	4.8	83	0.89
STD DS7	Standard		22.9	108.0	67.3	403	0.8	60.6	9.5	638	2.43	57.3	4.5	70.9	4.2	81	6.5	6.3	4.5	82	1.03
STD DS7	Standard		19.4	104.6	74.5	368	0.8	55.2	8.7	560	2.11	48.1	5.1	65.9	4.6	73	6.1	6.3	4.9	84	0.89
STD DS7	Standard		20.9	106.5	64.8	395	0.8	56.4	8.8	622	2.38	55.4	4.5	68.0	3.9	73	6.4	6.1	4.4	85	0.91
STD DS7	Standard		20.5	112.3	73.5	415	0.8	58.0	9.1	600	2.33	51.3	5.4	71.2	5.0	84	6.4	6.6	5.0	90	0.95
STD DS7	Standard		22.8	114.3	67.7	398	0.9	61.7	9.2	611	2.36	54.1	4.6	90.4	4.5	77	6.5	6.1	4.7	84	1.02
STD DS7	Standard		20.7	92.6	62.6	378	0.8	52.7	9.0	596	2.27	53.3	4.2	65.0	4.0	75	6.1	5.5	4.1	80	0.91
STD DS7 Expected			20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	4.9	70	4.4	69	6.4	4.6	4.5	84	0.93
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01

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Project: MPA
Report Date: November 23, 2009

QUALITY CONTROL REPORT VAN09005508.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.001	1	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
MPA 87972	Soil	0.080	21	28	0.95	226	0.148	2	1.96	0.016	0.45	0.2	0.02	4.4	0.2	<0.05	7	0.6
REP MPA 87972	QC	0.083	20	27	0.94	224	0.146	2	1.95	0.014	0.44	0.2	0.01	4.2	0.2	<0.05	6	<0.5
MPA 87996	Soil	0.113	5	19	1.86	296	0.198	1	2.38	0.013	0.61	<0.1	<0.01	3.5	0.2	<0.05	8	<0.5
REP MPA 87996	QC	0.110	5	18	1.81	301	0.191	<1	2.28	0.012	0.57	<0.1	<0.01	3.5	0.2	<0.05	8	<0.5
Reference Materials																		
STD DS7	Standard	0.084	12	205	0.98	399	0.114	39	0.99	0.104	0.39	4.0	0.18	2.1	4.1	0.17	5	3.9
STD DS7	Standard	0.074	13	191	0.99	372	0.132	39	0.95	0.093	0.39	4.1	0.18	2.2	4.3	0.16	4	3.9
STD DS7	Standard	0.087	13	202	1.02	406	0.122	39	1.07	0.109	0.47	4.0	0.19	2.4	4.0	0.21	5	4.0
STD DS7	Standard	0.073	12	184	0.93	358	0.124	35	0.91	0.086	0.37	4.0	0.19	2.2	4.2	0.17	4	3.5
STD DS7	Standard	0.086	12	183	0.99	398	0.114	40	0.94	0.099	0.42	3.6	0.18	2.2	4.0	0.19	4	3.7
STD DS7	Standard	0.080	14	202	1.04	389	0.138	37	1.06	0.102	0.41	4.2	0.19	2.5	4.0	0.20	5	3.5
STD DS7	Standard	0.083	14	206	0.99	411	0.124	41	0.97	0.114	0.45	4.1	0.20	2.8	4.3	0.19	5	3.9
STD DS7	Standard	0.079	12	200	0.92	382	0.102	40	0.95	0.098	0.39	3.9	0.19	2.4	4.1	0.22	4	3.5
STD DS7 Expected		0.08	12	179	1.05	370	0.124	39	0.959	0.089	0.44	3.4	0.2	2.5	4.2	0.19	5	3.5
BLK	Blank	<0.001	<1	<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
BLK	Blank	<0.001	<1	<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
BLK	Blank	<0.001	<1	<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
BLK	Blank	<0.001	<1	<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
BLK	Blank	<0.001	<1	<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
BLK	Blank	<0.001	<1	<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
BLK	Blank	<0.001	<1	<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
BLK	Blank	<0.001	<1	<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

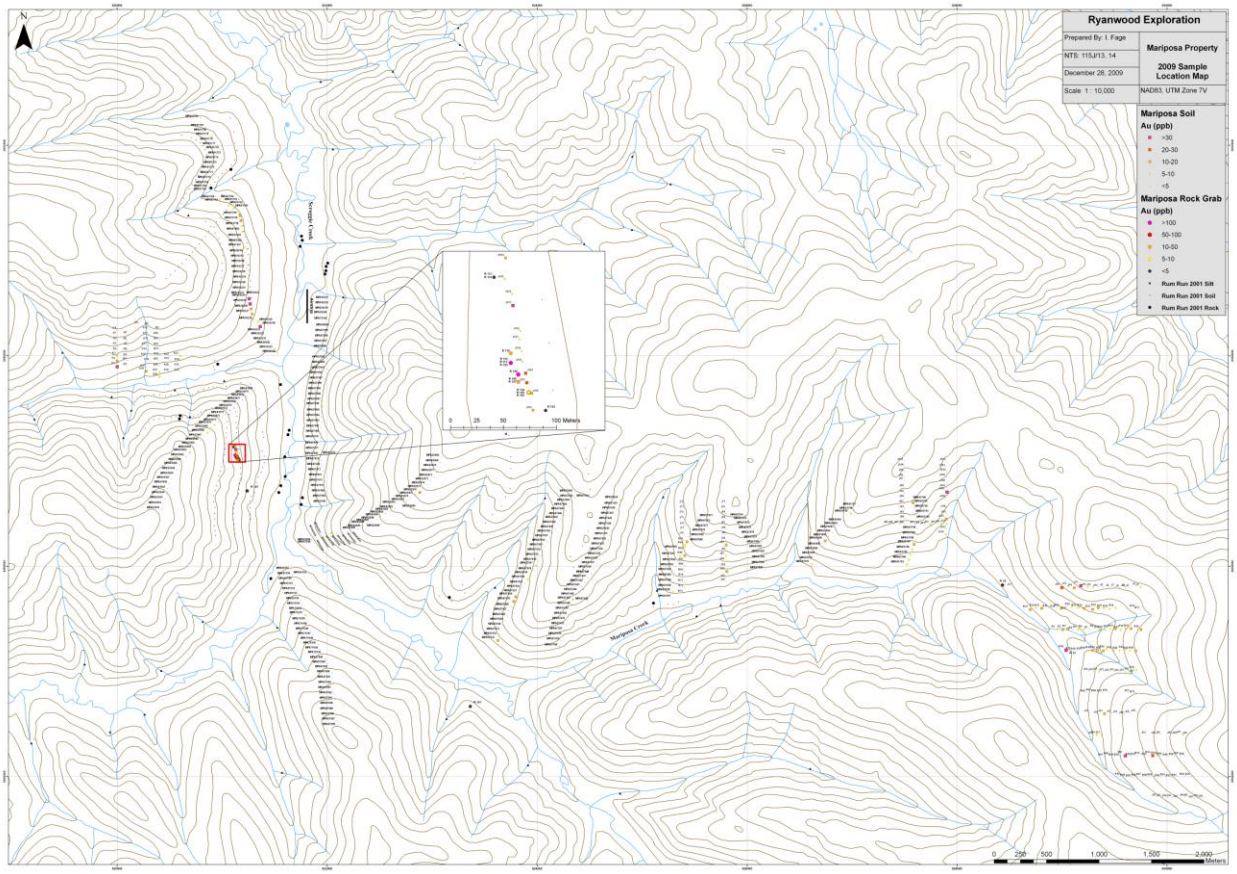
MAPS

MAP 1

MARIPOSA PROPERTY

RYANWOOD EXPLORATION INC.

2009 RIDGE AND SPUR SOIL SAMPLE I.D. LOCATIONS

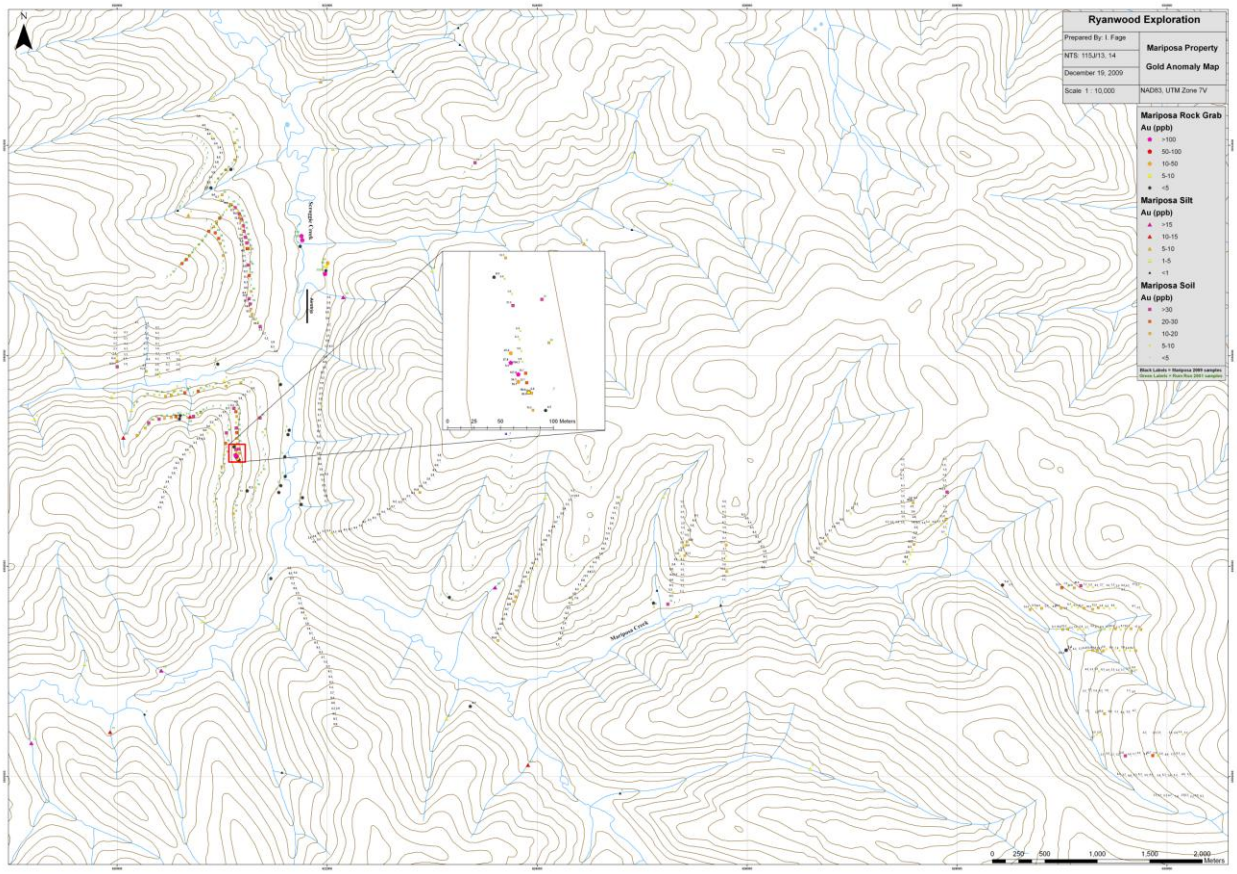


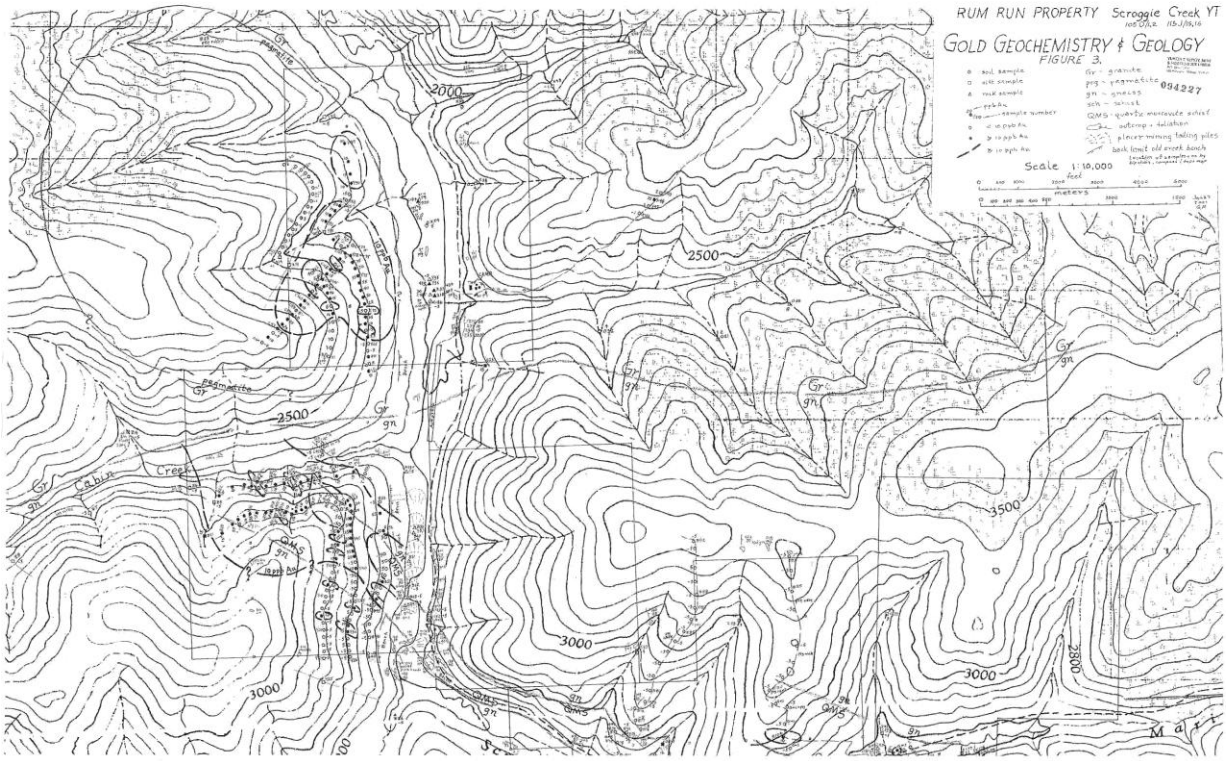
MAP 2

MARIPOSA PROPER

RYANWOOD EXPLORATION INC.

2009 RIDGE AND SPUR GOLD SOIL GEOCHEMISTRY





Map 3 RUM RUN 2001 PROPERTY GEOLOGY and GEOCHEMISTRY