2006 Prospecting and Geochemical Survey Report

on the

Happy Sullivan Property

Atlin Mining Division

MAP SHEET 104M.49-50 & 104M.59-60

Longitude 134°13’56” W, Latitude 59°29’59” N

-for-

Christopher James Gold Corp.
307 – 1497 Marine Drive
West Vancouver, British Columbia
V7T 1B8

By-

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Lee Gifford

January 2007

Table of Contents

Appendices

List of Figures

Happy Sullivan Reconnaissance Soil Survey and Rock Sampling Historical Workings

Sweepstake

Sweepstake Pit 1

Sweepstake Pit 2

Happy Sullivan

Happy Sullivan – Sweepstake

1.0 INTRODUCTION

The Gold Hill prospect (Happy Sullivan) may host comparable mineralization to the Engineer Mine. The mineralized shear zone at Gold Hill contains a series of narrow gold-bearing quartz veins that, along with the lower grade portion of the 24 metre-wide shear, represents a possible bulk tonnage exploration target. The shear zone has been traced on surface over a distance of approximately 2.2km within the Guardsmen claims. Splays, or fault intersections with this shear, may also offer other targets for future prospecting.

2.0 LOCATION/ACCESS

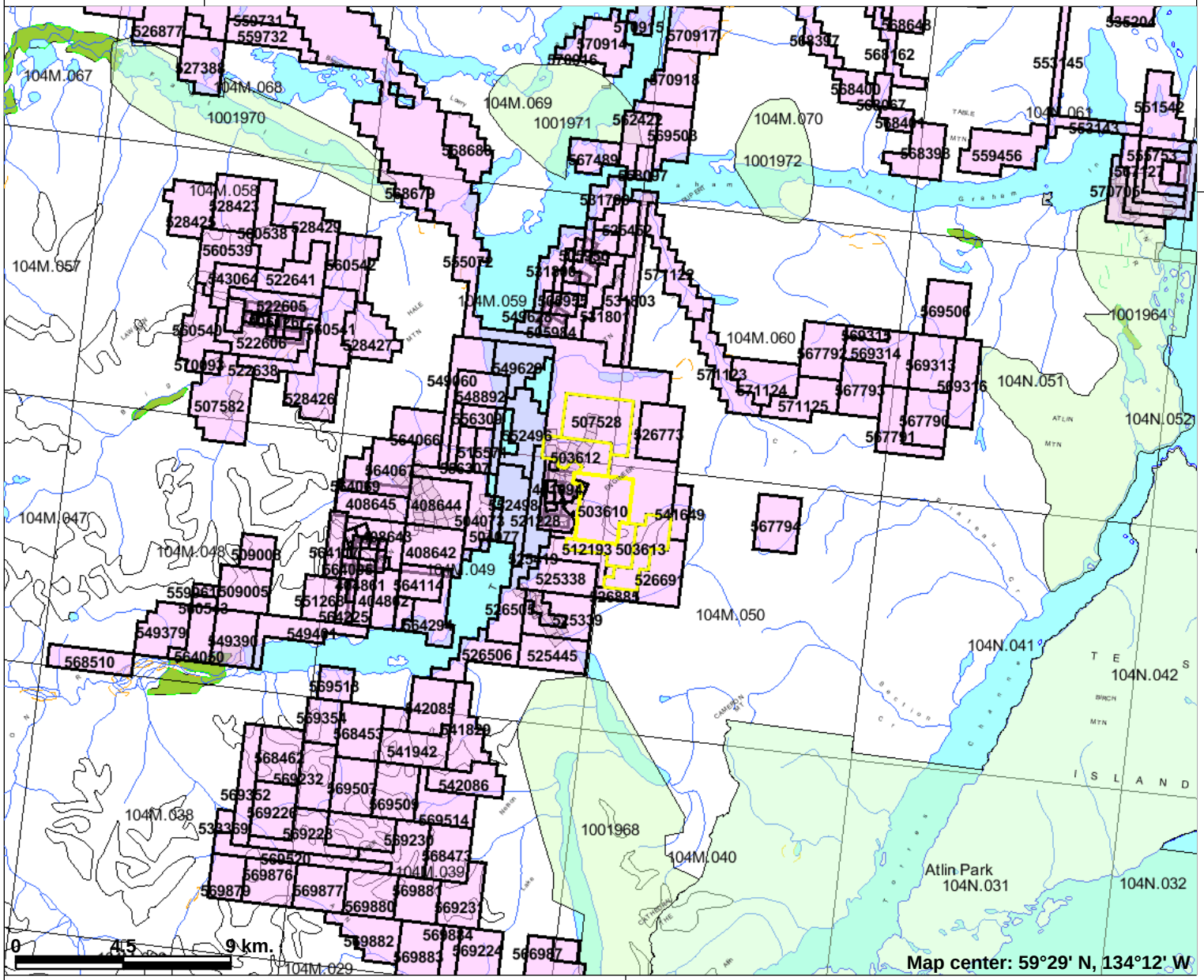
The Gold Hill property surrounds but does not include the historical Engineer Mine, and is located on the southeast shore of Tagish Lake, in the Yukon Territory and northern British Columbia, Canada. The Lake is more than 100 km long and about 2 km wide.

Access is by helicopter, floatplane from the town of Atlin, 32 kilometers east of the property or by boat from the village of Tagish, 55 kilometers to the north. The prospect is 140 kilometers south of Whitehorse, the main service and supply center for the region.

3.0 CLAIM STATUS

The Gold Hill claims consist of five Mineral Claims comprising 2104 hectares. The claims are owned 100% by Guardsmen Resources Inc. The property is situated on 1:20,000 scale maps 104M.049, 104M.050, 104M.059 and 104M.060 at Latitude 59°29’59” N, Longitude 134°13’56” W and falls within the Atlin Mining District.

Happy Sullivan Tenure Map



Legend

- Indian Reserves
- National Parks
- Parks

Mineral Tenure (current)

- Mineral Claim
- Mineral Lease

Mineral Reserves (current)

- Placer Claim Designation
- Placer Lease Designation
- No Staking Reserve
- Conditional Reserve
- Release Required Reserve
- Surface Restriction
- Recreation Area
- Others
- Survey Parcels
- BCGS Grid

Annotation (1:250K)

Transportation - Points (1:250K)

- Airfield
- Anchorage - Seaplane
- Ferry Route
- Heliport
- Seaplane Base
- Air Field
- Airport
- Air Feature - Condition Unknown
- Airport.Abandoned

Transportation - Lines (1:250K)

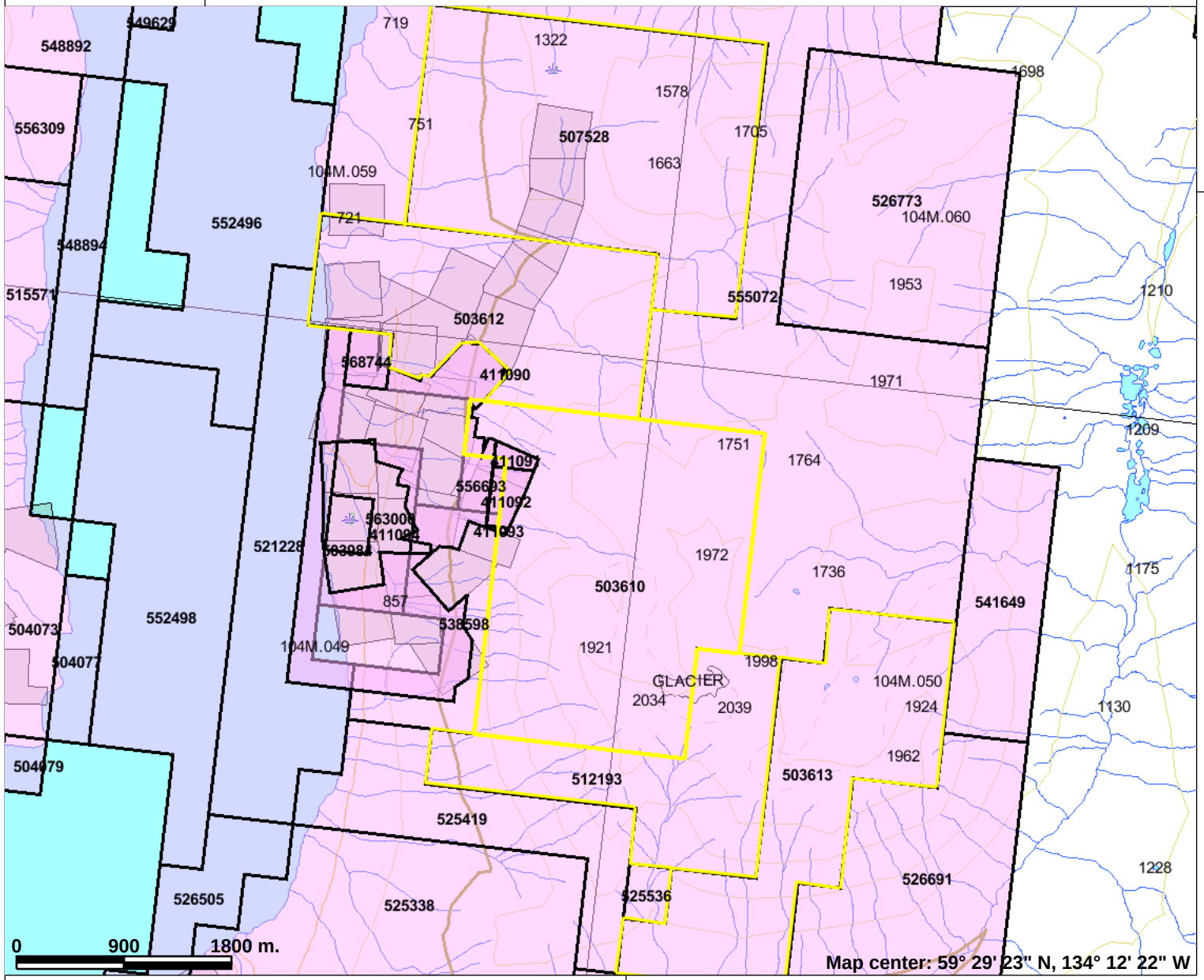
- Ferry Route
- Aerial Cableway
- Road (Gravel Undivided) - 1 Lane
- Road (Gravel Undivided) - 3 Lanes
- Road - Paved lanes 2or More Divided

Scale: 1:250,000

Notes: Mineral Tenures:
503610, 503612, 503613, 5075285, 512193

Figure 1

Happy Sullivan Claims



Legend

- Indian Reserves
- National Parks
- Parks

Mineral Tenure (current)

- Mineral Claim
- Mineral Lease

Mineral Reserves (current)

- Placer Claim Designation
- Placer Lease Designation
- No Staking Reserve
- Conditional Reserve
- Release Required Reserve
- Surface Restriction
- Recreation Area
- Others
- Survey Parcels
- BCGS Grid

Contours (1:250K)

- Contour - Index
- Contour - Intermediate
- Areaof Exclusion
- Areaof Indefinite Contours

Transportation - Points (TRIM)

- Helipad

Transportation - Lines (TRIM)

- Airfield
- Airport
- Airstrip
- Airport.Abandoned
- Ferry Route
- Road (Gravel Undivided) - 1 Lane
- Road (Gravel Undivided) - 2 Lanes
- Road (Gravel Undivided) - U/C - 1 Lane

N

Scale: 1:50,000

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Notes: Mineral Tenures:
503610, 503612, 503613, 507528, 512193

Figure 2

Claim names, tenure numbers, expiry dates and claim area(s) are as follows:

Tenure No.	Claim Name	Good to Date	Area (ha)
503610		December 15, 2009	575.42
503612		December 15, 2009	361.50
503613	LOL	December 15, 2009	361.86
507528		December 15, 2009	558.45
512193	GLINT	December 15, 2009	246.71

4.0 PHYSIOGRAPHY

Peaks on the property rise up to 2000 metres elevation and are part of the Tagish Highlands and the Boundary Ranges. Upland plateaus are thoroughly dissected by erosion and alpine glaciations. In the Tagish Highlands small glaciers flanking the highest peaks are remnants of a once extensive ice sheet.

Coastal weather patterns and higher precipitation preserve more extensive glaciers in the Boundary Ranges. The valleys are wide, deep, steep-walled, and typically U-shaped. The Tagish Highlands are rugged, consisting largely of knife-like ridges, needle summits, and abruptly incised valleys. Considerable ice and snow can be seen throughout the entire year. Glacial processes and deposits have modified the terrain.

Valley bottoms are commonly occupied by major lakes with water levels around 700 metres. Collectively they are an enormous headwater reservoir for the Yukon River.

These lakes form a north-south and east-west interconnected network that almost certainly mimics the path of ancient ice movement, but is oblique to the geologic grain of the region. The rivers and creeks generally open in May, but on some lakes, ice remains until the first of June. Warm summer weather is experienced for about four months with June and July receiving almost continuous daylight. The mean daily temperature in July is no less than 14 degrees Celsius. The month of July receives 10 to 13 days with measurable precipitation; mean annual precipitation is around 60 cm. In January the mean daily temperature is -15 degrees Celsius with 14 to 17 days with measurable precipitation.

Tree line elevation varies between 1100 and 1400 metres. Lower slopes are timbered by pine, spruce, aspen, balsam poplar, black cottonwood and sparse hemlock. Mountain (slide) alder, willows and, on wettest slopes, devil's club and Labrador tea comprise the forest ground cover. Near tree line, sub alpine fir, juniper and dwarf birch (buck brush) take over. In the forested areas, mature pine growth is the most effortlessly traversed. Although vegetation is by and large moderate, creek beds and clear avalanche paths provide the easiest routes to attain alpine areas. Much of the forested areas between the Engineer Mine and Hope Creek are second growth as much of the original timber was used for building and heating the town site as well as construction of the mine.

5.0 HISTORY OF EXPLORATION AT ENGINEER

Surveyors for the White Pass and Yukon Railways discovered the original gold bearing quartz vein along the shoreline of Tagish Lake. In 1898, they reported spectacular visible gold samples assaying up to 630 opt gold. Surface and underground mining began in 1900 for the Engineer Mining Company of Skagway, Alaska. Several hundred feet of drifting and shafting were completed. A stamp mill was built, but most of the ore was shipped directly into Seattle, Washington.

In 1907 the ground was acquired by the Northern Partnership Syndicate (NPS) under the direction of Captain J. Alexander. Mining and development for the NPS continued sporadically until Capt. Alexander acquired title to the property in 1912. Capt. Alexander accelerated the pace of exploration and development finding new mineralized quartz veins and mining the Engineer, No. 4 and Double Decker veins. Ore was either hand sorted then shipped directly to Seattle or it was processed in the stamp mill on site. Capt. Alexander drowned in a shipping accident in 1918, ending the initial stage of mining at the Engineer Mine.

The main period of mining and development at Engineer was from 1925-1927 under the ownership of Engineer Gold Mines of New York. Underground mining consisted of about 5,500 meters (19,000 feet) of drifts, shafts, raises and stopes on eight levels (see figure 3.1). Production totaled approximately 14,000 tons of ore yielding 10,500 ounces of gold and 6,900 ounces of silver. The presence of visible gold was the primary method of identifying and following ore shoots in the veins.

To service the Engineer Mine, a small village was built beside the lake housing up to 140 employees. The high grade reserves were exhausted by 1927 but development continued with drifting and limited mining on the 6, 7 and 8 Levels until 1933. Poor mine development planning caused financial problems for Engineer Gold Mines Ltd. and the property was eventually forfeited to the Sheriff in 1934. Limited high grade mining was undertaken intermittently by independent

operators from 1934-1952. Total documented gold production from 1910-1952 was documented to be 17,144 ounces (587,133 g); after 1952 no reported production had taken place.

6.0 RECENT EXPLORATION

Most modern exploration at the Engineer and immediate area had taken place prior to the understanding of epithermal gold systems. Exploration programs proximal to the Engineer site started with Nu-Energy Development Corp. Ltd. in 1975, Nu-Lady Gold Mines Ltd. (1979-1983), Total Erickson Resources, Ltd. (1986-1987) and Gentry Resources Ltd. (1989-1991). Surface exploration included 40 drill holes, totaling 4,178 m, trenching and limited geophysical and geochemical surveys.

The surface work examined two main shear zones and the narrow quartz-breccia veins that splay from the shears. Trenching on ‘Shear A’ exposed a 5-25 meter wide quartz vein stockwork from the shore of Tagish Lake along strike for 200 meters until the shear becomes overburden covered. The stockwork consists of numerous quartz veins up to 0.5 meter wide exhibiting epithermal manner textures. Surface sample results from ‘Shear A’ reported low gold values. The Engineer Mine is hosted within, and adjacent to, Shear ‘A’.

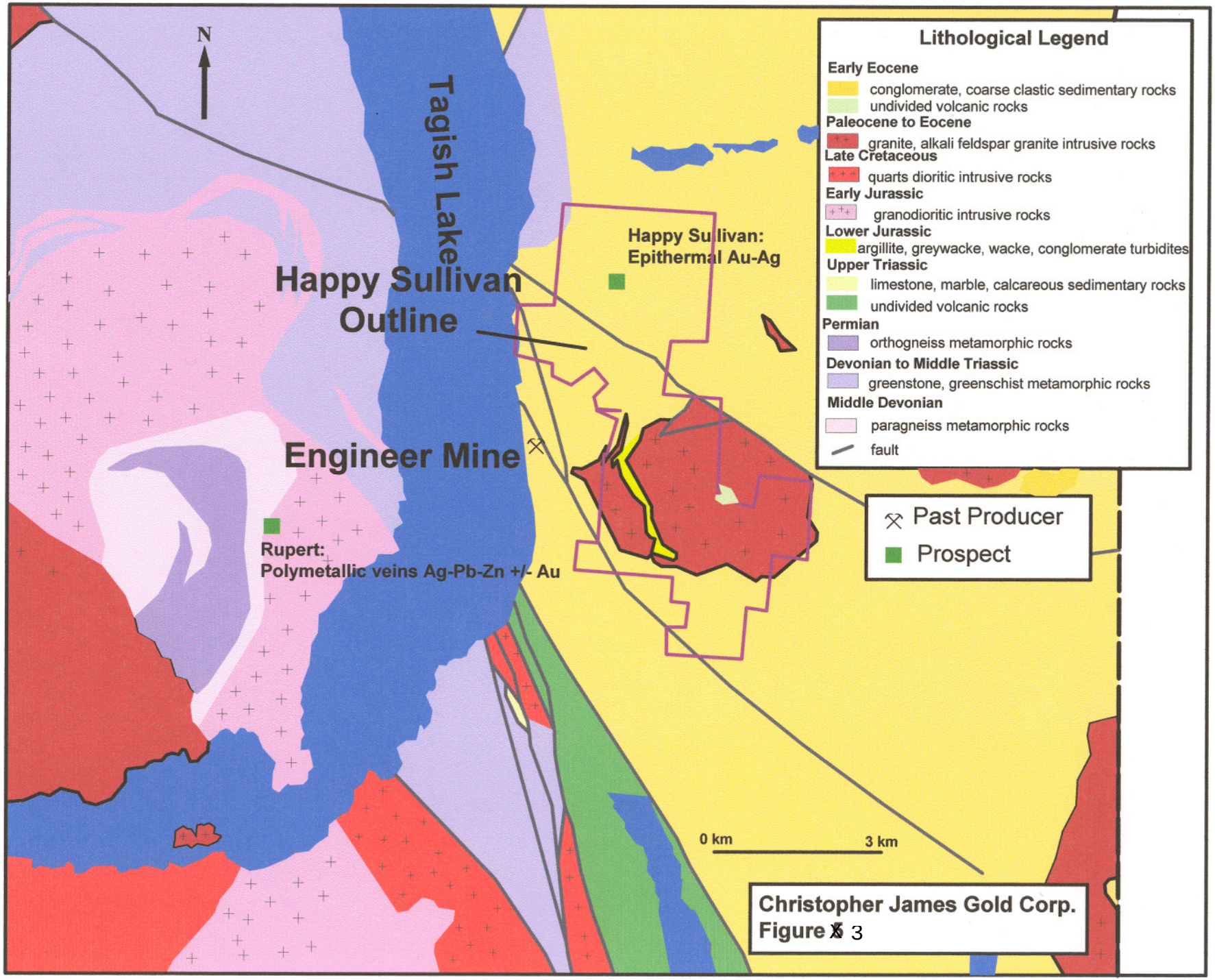
At the end of the staking program by Guardsmen Resources Inc. in 2001, the Gold Hill prospect was chip sampled and returned an assay of 1.8 g/t Au over 15 metres. In 2006, Guardsmen sampled two separate one metre sections within this same location that returned values of 5.9 g/t Au over 1.0 metre and 1.4 g/t over 2.0 metres. The possibility of finding a high tonnage lower grade gold deposit along the B-Shear structure remains positive.

7.0 REGIONAL GEOLOGY

The Tagish area is located in the northwest corner of British Columbia. It is bounded by the Yukon border to the north, rugged Coast Mountains to the west, and Atlin Lake, British Columbia.s largest natural water reservoir, to the east. It is an area with a colourful mining history that surged during the Klondike gold rush and discovery of the Atlin placers in 1898. It is richly endowed with mineral showings and one mine, the Engineer, having produced over 560 000 grams of gold. A belt of anomalously high regional gold-arsenic and antimony geochemistry extends the length of the area, coextensive with the crustal-scale Llewellyn fault.

Three crustal fragments of strikingly different character that converge in the Tagish area. To the east there are weakly metamorphosed, Carboniferous to Triassic oceanic plateau remnants of the northern Cache Creek Terrane locally

REGIONAL GEOLOGY WITH PROPERTY LOCATION



known as the Atlin complex. “In the west are two suites of metamorphic rocks that comprise a polydeformed belt belonging to the Yukon-Tanana Terrane: a pre-mississippian, quartz-rich clastic succession of pericratonic origin; and a Devonian to Permian, heterolithic suite interpreted to correlate with volcanic arc strata of the Stikine Terrane. Sandwiched in between are Triassic arc, clastic arc apron, and overlying Jurassic basinal strata of the Whitehorse Trough. They are juxtaposed across two crustal-scale faults, the Nahlin to the east and Llewellyn to the west, that brought the crustal fragments together, mainly in Triassic to Middle Jurassic times. Geological interrelationships are complicated by structural intermixing and by voluminous Late Cretaceous and Eocene intrusion of the Coast Plutonic Complex. Pre-Jurassic deformational histories of each crustal fragment are distinctive, but all are affected by early Middle Jurassic, predominantly south and west-verging folds and thrusts that shortened and stacked them. Reactivation of major faults and subsidiary splays is apparent from dextral offsets that affect rocks as young as Eocene. High mineral potential exists in the Tagish area for a number of deposit types. Juxtaposition of three disparate crustal fragments has created mineral exploration opportunities as varied and challenging as the geology.” (1999 GSB Bulletin 105, Mitchel G. Mihalynuk, P. Geo.)

8.0 PROPERTY GEOLOGY

Geologically, the Gold Hill property lies within the Whitehorse Trough of the Stikinia Terrane; a package of Mesozoic volcanic and sedimentary rocks intruded by Cretaceous to Eocene plutonic and volcanic rocks. The Whitehorse Trough is bounded to the west by the Coast Plutonic Complex and the Llewellyn Fault and to the east by the Atlin Terrane and the Nahlin Fault. The Whitehorse Trough contains sedimentary rocks of the Laberge Group in the area of the Engineer property.

The sediments consist of a northwest trending belt of argillites, Greywackes and conglomerates. Structural activity along the major faults caused the development of strong north-south trending shear zones. This deformation continued intermittently until the Cretaceous and the shears, faults and fractures provided conduits for mineralizing fluids in a hydrothermal system formed during the emplacement of the Eocene Sloko Group volcanic and intrusive suite.

8.1 HAPPY SULLIVAN MINERALIZATION

The northern area of the property is underlain by north to northwest trending, moderately to steeply east dipping Lower Jurassic Laberge Group greywacke and argillite. The Happy Sullivan prospect is located at the end of a good road system that extends from the eastern shore of Tagish Lake.

A north to northwest trending silicified shear zone, at least 24 metres wide and dipping vertically to steeply west, extends from the Happy Sullivan, on the north side of Hope Creek, for a distance of at least 3 kilometres to the south (approximately 2.2 km of the shear is within the Guardsmen property).

The shear zone, known as the ‘B-Shear’ contains vuggy quartz veins up to 0.9 metres wide with up to 10 per cent disseminated arsenopyrite, pyrite, electrum and gold, commonly in dendritic habit. A cross section of the metre and a half wide sub vertical vein is, from west to east: 1/2 metre pyritic greywacke is followed by colloidal to amorphous quartz with dendritic crystals of gold often coated in calcite; this is followed by a 5 to 8 centimeter zone of quartz and adularia with 5 per cent disseminated sulphides, primarily pyrite; next a relatively massive fractured quartz, and then a second quartz vein 90 centimetres wide with 5 to 10 per cent arsenopyrite. The eastern edge of the shear is highly fractured.

The mineralization has been explored by an upper and lower adit and several trenches on the western portion of the shear. A grab sample from a quartz dump on the west side of the upper adit assayed 323.6 grams per tonne gold and 226.2 grams per tonne silver (British Columbia Minister of Mines Annual Report 1933, page 81).

The Sweepstake vein is located about 600 metres west of the B-Shear Zone. This location is approximately 2km south of the Happy Sullivan and is exposed by open cuts at intervals of 15 metres, from 925 to 1050 metres. The vein is up to 7.6 metres wide, strikes 160 degrees and dips west. The vein cuts Lower Jurassic Laberge Group slates. At an elevation of 1050 metres an adit had been driven on a cross-vein, 0.3 metres wide, which strikes 055 degrees. Free gold was reported from both veins.

At the Glean showing, mineralization is hosted in rhyolite, basalt, andesite, tuff and argillite. It is believed the volcanic component is part of the Paleocene Tagish Volcanic Suite. Mineralization occurs in numerous silicified shears, 1 to 8 metres wide, displaying parallel, stacked and en echelon zoning. Mineralization, as sparse disseminations and concentrations of up to 40 per cent, consists of pyrite, arsenopyrite, chalcopyrite, galena and pyrrhotite. Sulphides, 1 per cent or less, also occur within large altered units of andesite and rhyolite. A copper zone has been identified by malachite staining on the east face of the rhyolite talus. Alteration consisting of silicification +/-chlorite and sericite is associated with mineralized zones.

In 1989, samples collected by Golden Bee Minerals from the altered contact zone between andesite and banded brecciated rhyolite flows. The zone, 1 metre wide and exposed for 75 metres in length and open in both directions, trends north-south and dips 50 degrees east. The highest sample from this zone assayed 3.2 grams per tonne gold, 58.9 grams per tonne silver, 0.095 per cent

copper, 0.986 per cent lead, 0.203 per cent zinc, 8 per cent arsenic and 0.06 per cent antimony. This discovery has not been worked since 1989 and undoubtedly warrants further investigation.

8.2 ENGINEER MINE MINERALIZATION

Quartz veining and gold mineralization occurs in two modes at the Engineer Mine and is directly related to two main shear zones. Both shear zones form distinct regional-scale lineaments trending sub-parallel at 145 degrees and 160 degrees. High grade gold and silver mineralization occurs in several narrow, less than 2 metre wide tensional and vertical, northeast-southwest striking quartz-calcite veins hosted in well bedded sediments of the Lower Jurassic Laberge Group. Veins pinch and swell along strike and display good vertical continuity. Lower grade gold mineralization is known to occur within the two broad shear zones and subordinate structures, as well as in two densely veined / stockworked quartz "hubs" that appear to represent intersection points with secondary north-south structures.

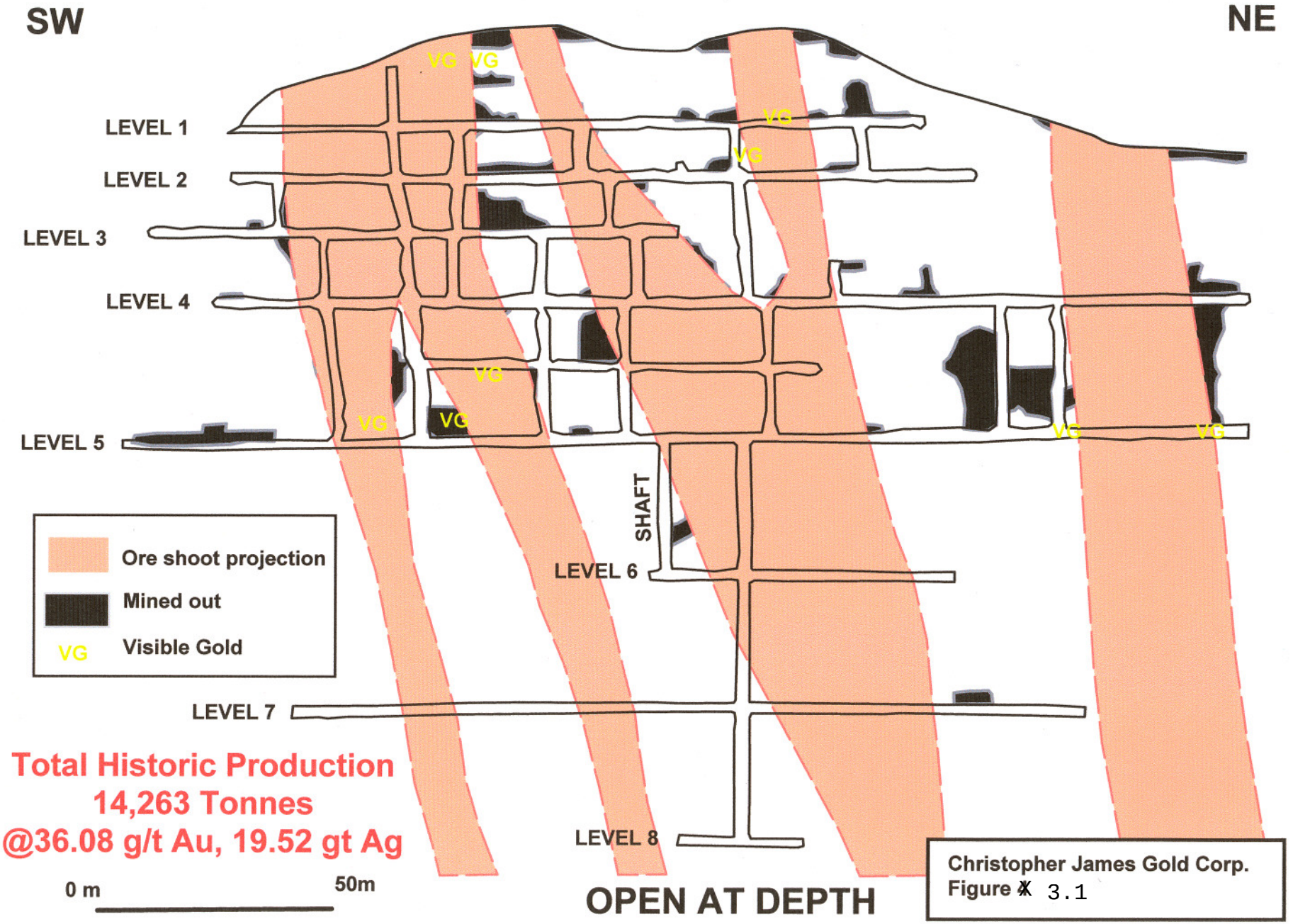
The possibility of encountering mineralized intersections offers excellent potential for lower grade, bulk-tonnage gold mineralization. Gold and silver mineralization at Engineer has been characterized as transitional epi-mesothermal (B.C. Ministry of Energy and Mines Bulletin 105). Gold grades are very sporadic ranging from trace to 50 grams per tonne gold. Native gold is the principle metallic mineral and occurs in pockets associated with roscoelite, a dark green to black micaceous alumino-silicate. Minor pyrite, tetrahedrite, chalcopyrite, antimony, berthierite, allemontite and tellurides are also reported. Ore grade vein material displays vuggy and drusy quartz crystals and abundant cockscomb and collofrom textures in successive layers of quartz and calcite coating country rock fragments and vein material.

Engineer Mine is also noted for museum class gold and electrum specimens and is a "Dana locality" for allemontite.

9.0 LITHOGEOCHEMICAL SAMPLING

A total of 101 rock chip samples and 154 soil samples were collected between on and between the Gold Hill (Happy Sullivan) prospect and the re-discovered Sweepstake prospect. The Happy Sullivan is located on the northern side of the Hope Creek drainage, at an elevation of 1137 metres, while the Sweepstake was found 1.7 km away, closer to the Engineer Mine workings, at an elevation of about 786 metres. Significantly, gold and silver mineralization is associated with both arsenic and antimony at this shear hosted epithermal prospect.

LONGITUDINAL SECTION of the ENGINEER VEIN



Christopher James Gold Corp.
Figure X 3.1

Earlier work on and around the Engineer Mine by Erickson Gold led to the conclusion that a substantial soil geochem program, together with geophysics, would prove to be the most effective way of generating drill targets. They also commented that in every location that had demonstrated anomalous arsenic in soils, mineralized quartz veins and breccia were discovered below surface cover.

9.1 SAMPLING PROCEDURE

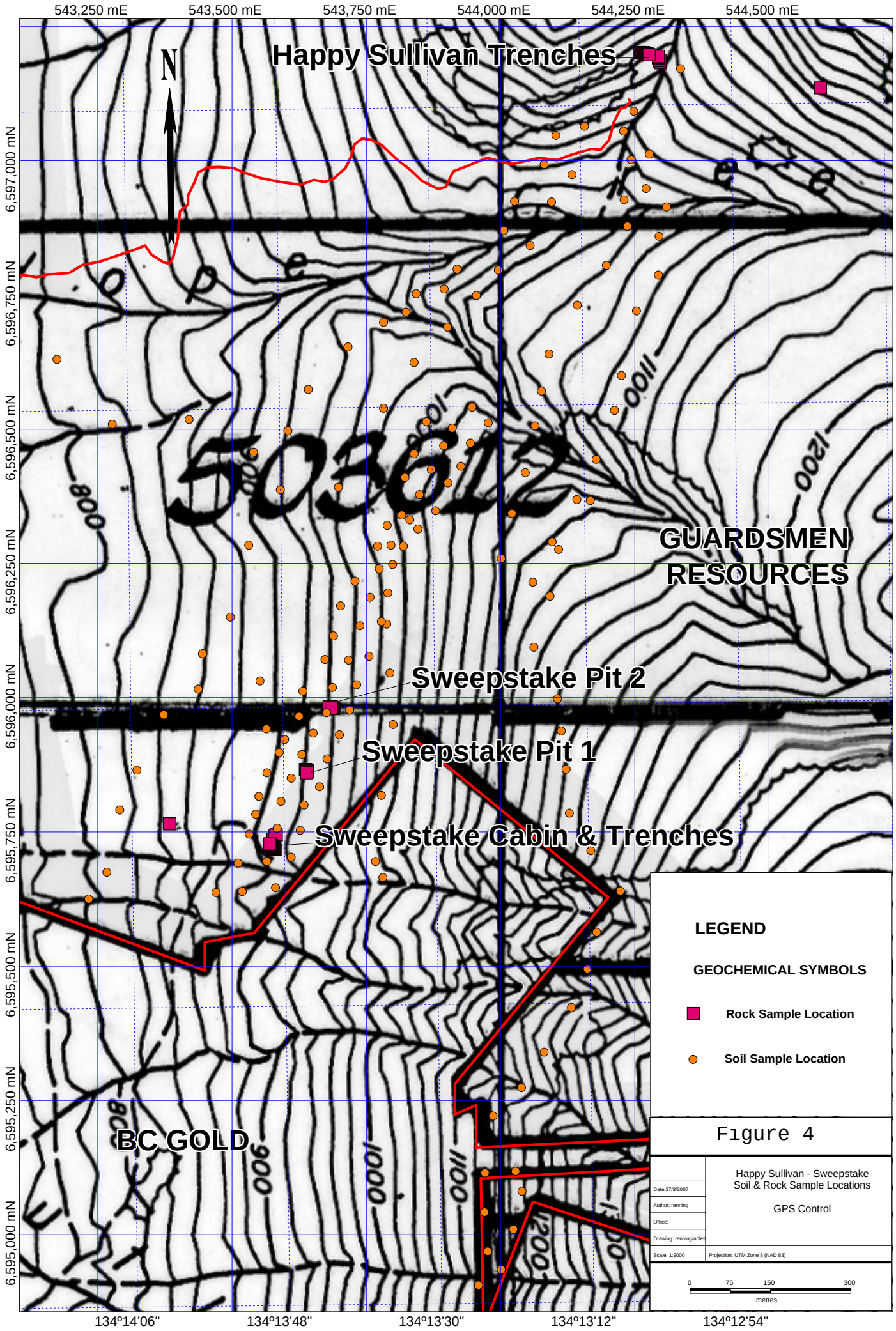
The crew, not previously trained in exploration but with plenty of experience with tree planting, was asked to sample the first horizon below the humus layer and decomposing organic layer. The sampling procedure was explained and it was demonstrated that the layer below is, in most cases, considered the B-horizon and that this should always be the preferred sample. This red-orange brown soil horizon was to be collected free of decomposed organics and large stones. If a proper sample was not available, they were instructed to keep walking while testing the soil. It was also explained to them that the freedom to wander and test the ground is tolerated as the GPS has given them a great advantage. No longer is a sampler restricted to a predetermined sample site. The B-Horizon on the property was reported to range between 25 to 45cm for all samples. The analytical procedures are outlined in Appendix E, page 19.

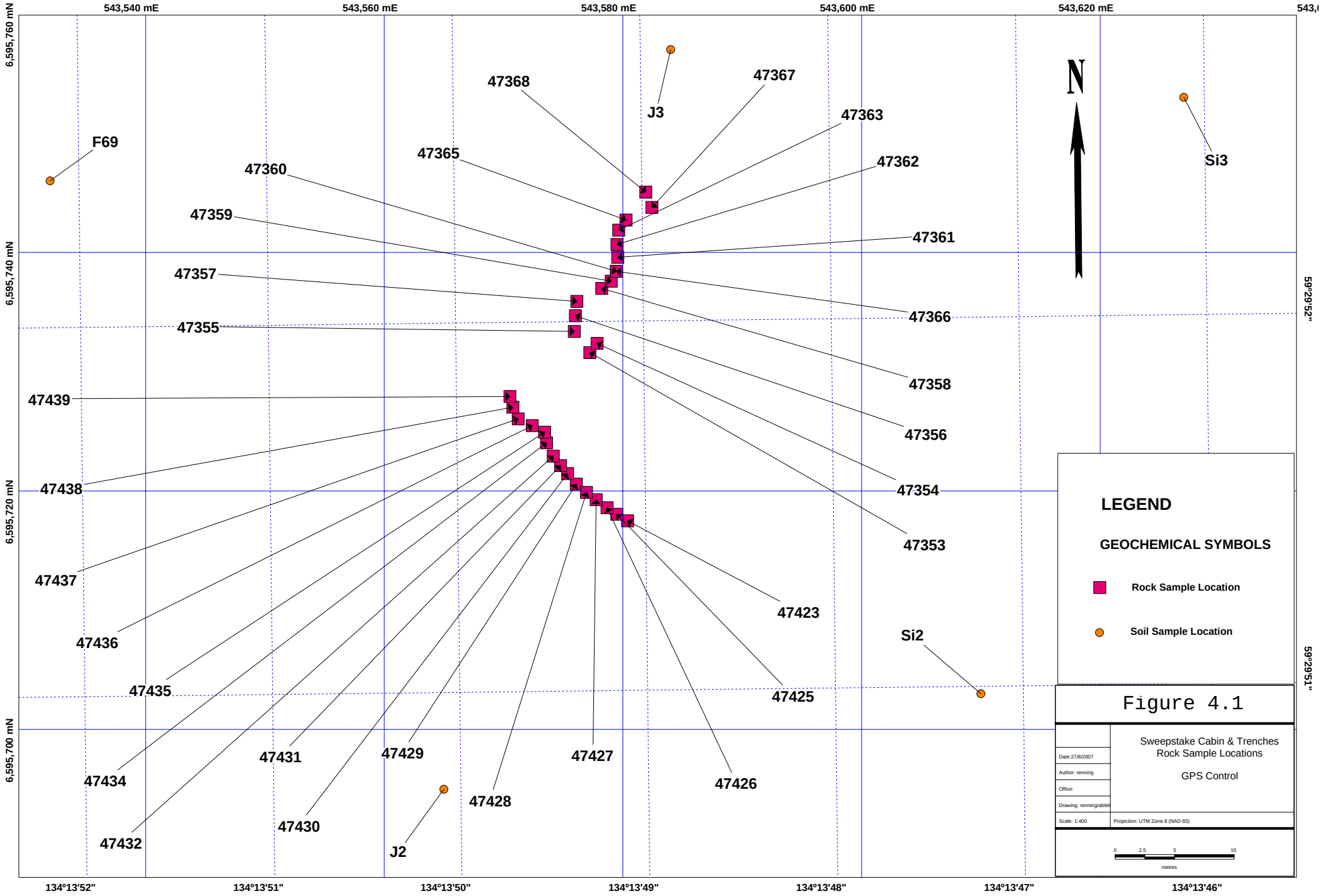
10.0 GEOCHEMICAL SURVEY RESULTS

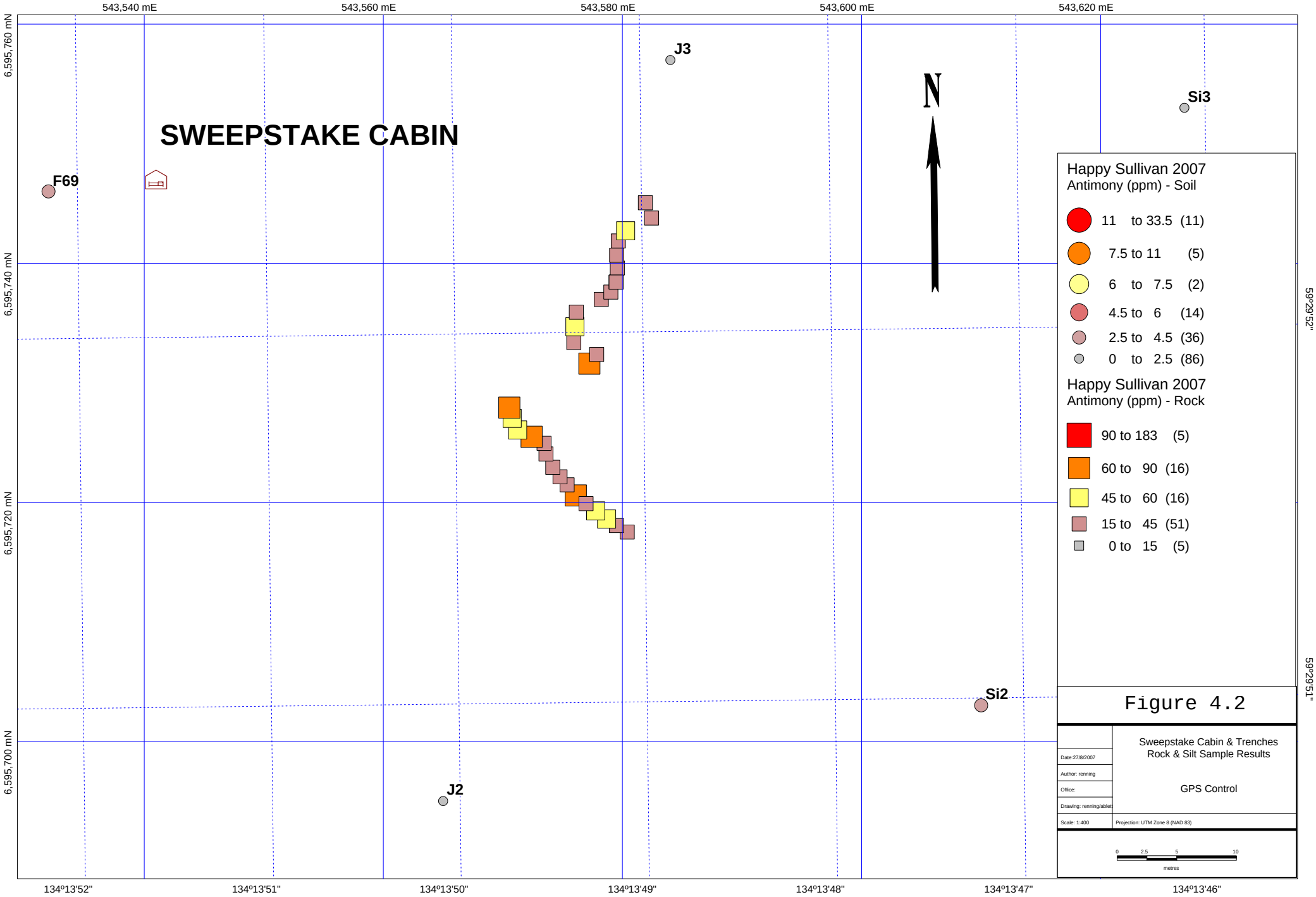
The purpose of the survey was to locate and sample the historical Sweepstake workings, soil sample and prospect the B Shear and further sample the Happy Sullivan workings. The survey was successful in both demonstrating the Sweepstake and Happy Sullivan are epithermal features, are both located on the same shear structure and, in addition to the shear, contain anomalous to low grade gold and silver surrounded by highly anomalous arsenic. The Happy Sullivan and B Shear are located about 1.7km apart.

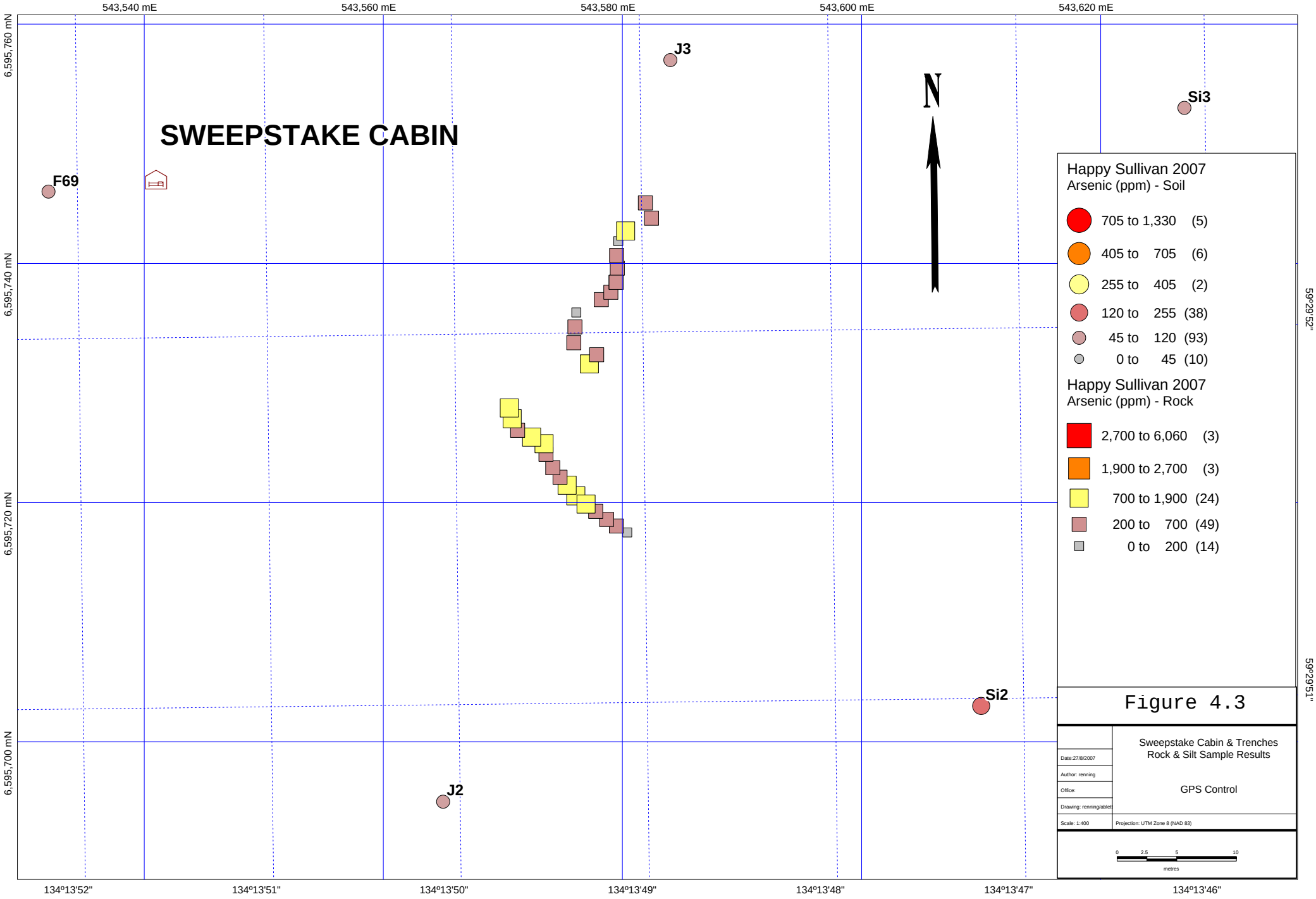
10.1 RECONNAISSANCE SOIL SURVEY

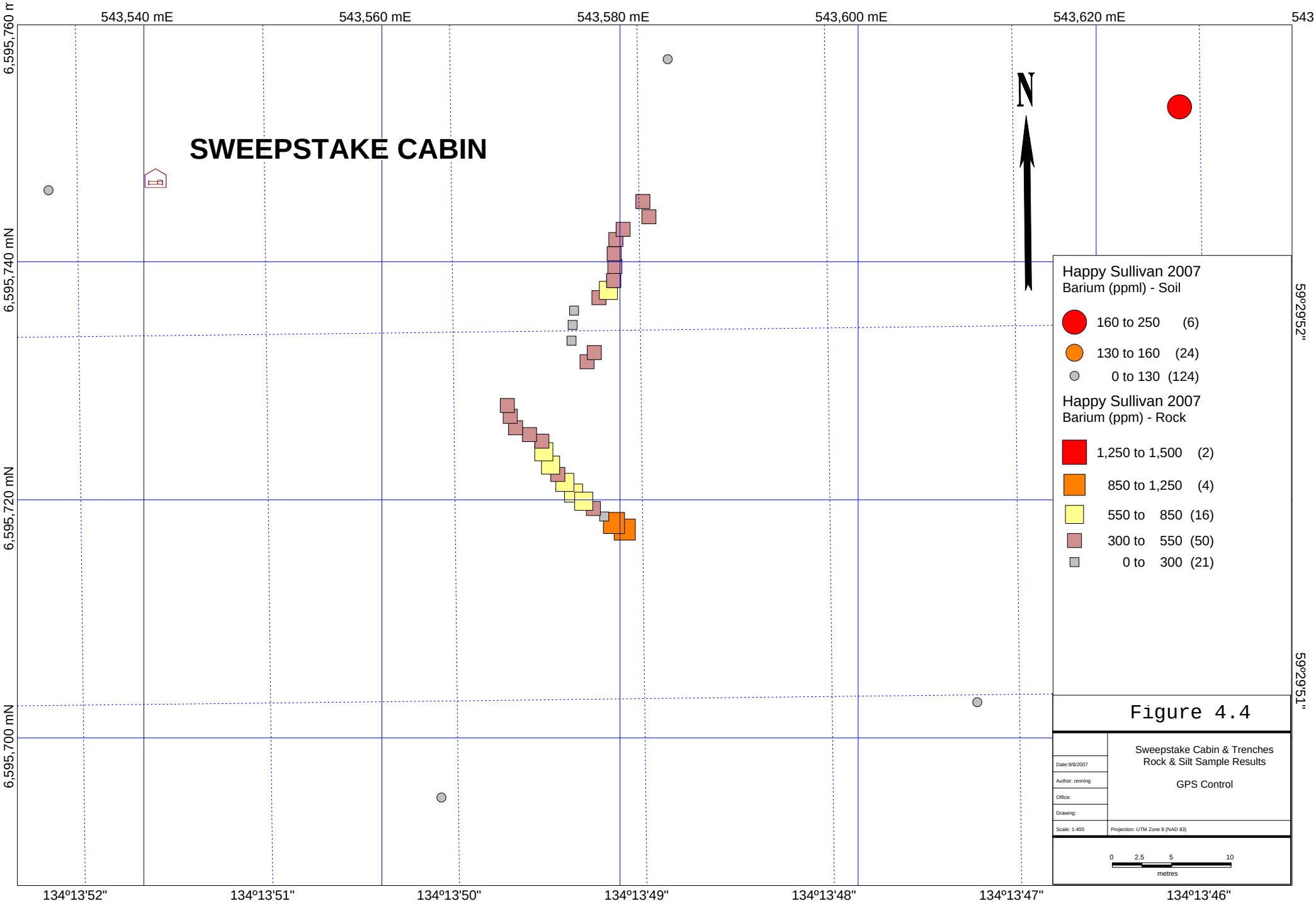
The very low sulphide content of the quartz-argillite breccia, combined with the relatively high pH of the calcareous sediments, could cause the dispersion rate of metallic elements into the soil, from the underlying bedrock, to be on the low side. The B-Shear clearly does not disperse gold and silver as much as arsenic. The bulk of the soil samples were mostly concentrated along the B-Shear trend. The arsenic values in soil range from 19.1 to 1330 ppm and averages 145 ppm over 154 samples – a reasonably high average. If the location of the workings and the shear were not previously known, it is doubtful gold and silver anomalies themselves would have led to the discovery of the B Shear. Anomalous arsenic values are observed near the Sweepstake trench, Pit 1 and

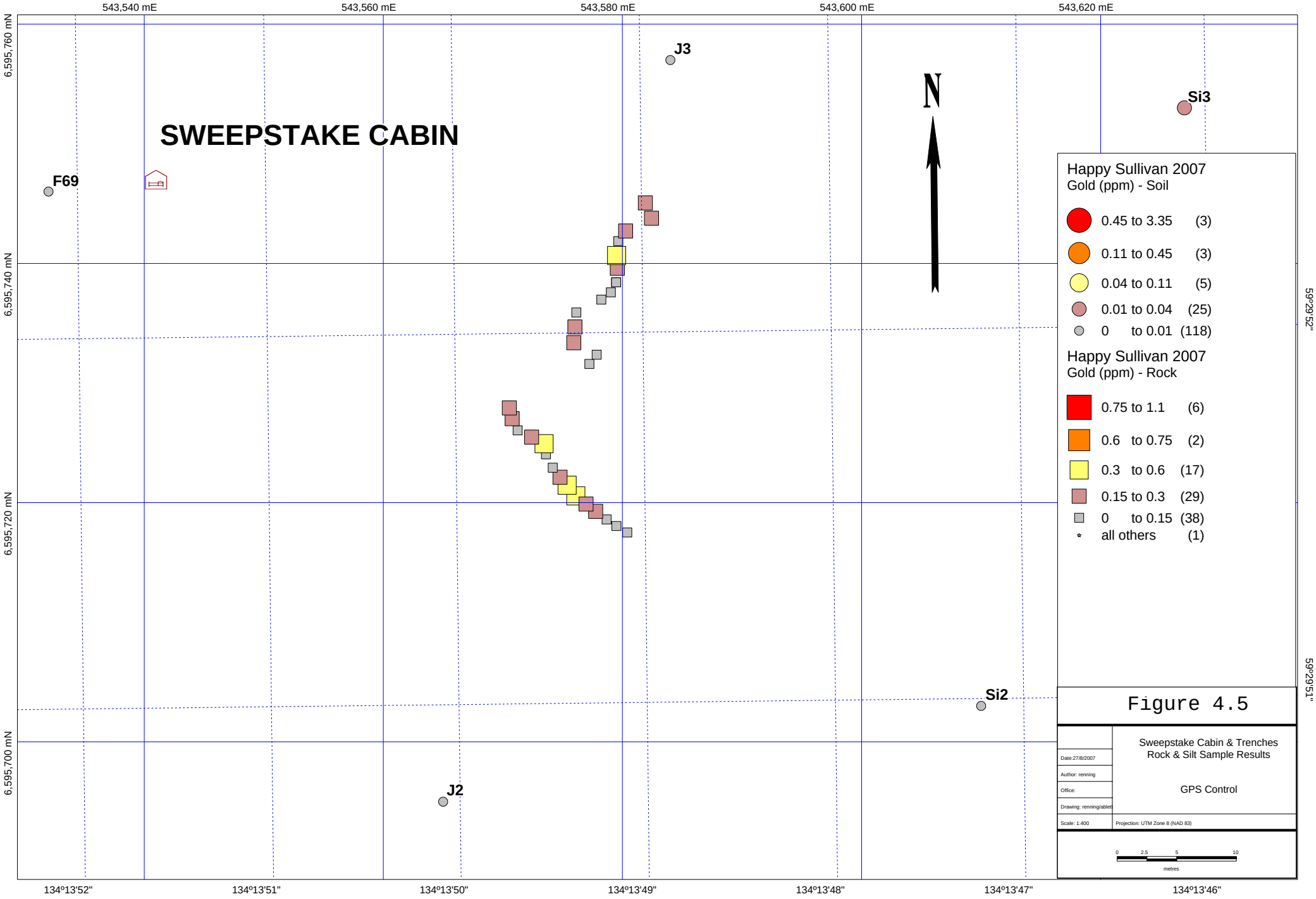

543,250 mE
543,500 mE
543,750 mE
544,000 mE
544,250 mE
544,500 mE
6,597,000 mN
6,596,750 mN
6,596,500 mN
6,596,250 mN
6,596,000 mN
6,595,750 mN
6,595,500 mN
6,595,250 mN
6,595,000 mN
59°30'36"
59°30'18"
59°30'
59°29'42"
134°14'06"
134°13'48"
134°13'30"
134°13'12"
134°12'54"
N
Happy Sullivan Trenches
5036m
GUARDSMEN
RESOURCES
Sweepstake Pit 2
Sweepstake Pit 1
Sweepstake Cabin & Trenches
BC GOLD
LEGEND
GEOCHEMICAL SYMBOLS
Rock Sample Location
Soil Sample Location
Figure 4
Happy Sullivan - Sweepstake
Soil & Rock Sample Locations
GPS Control
Date:27/8/2007
Author: renning
Office:
Drawing: renning/ablet
Scale: 1:9000
Projection: UTM Zone 8 (NAD 83)
0
75
150
300
metres

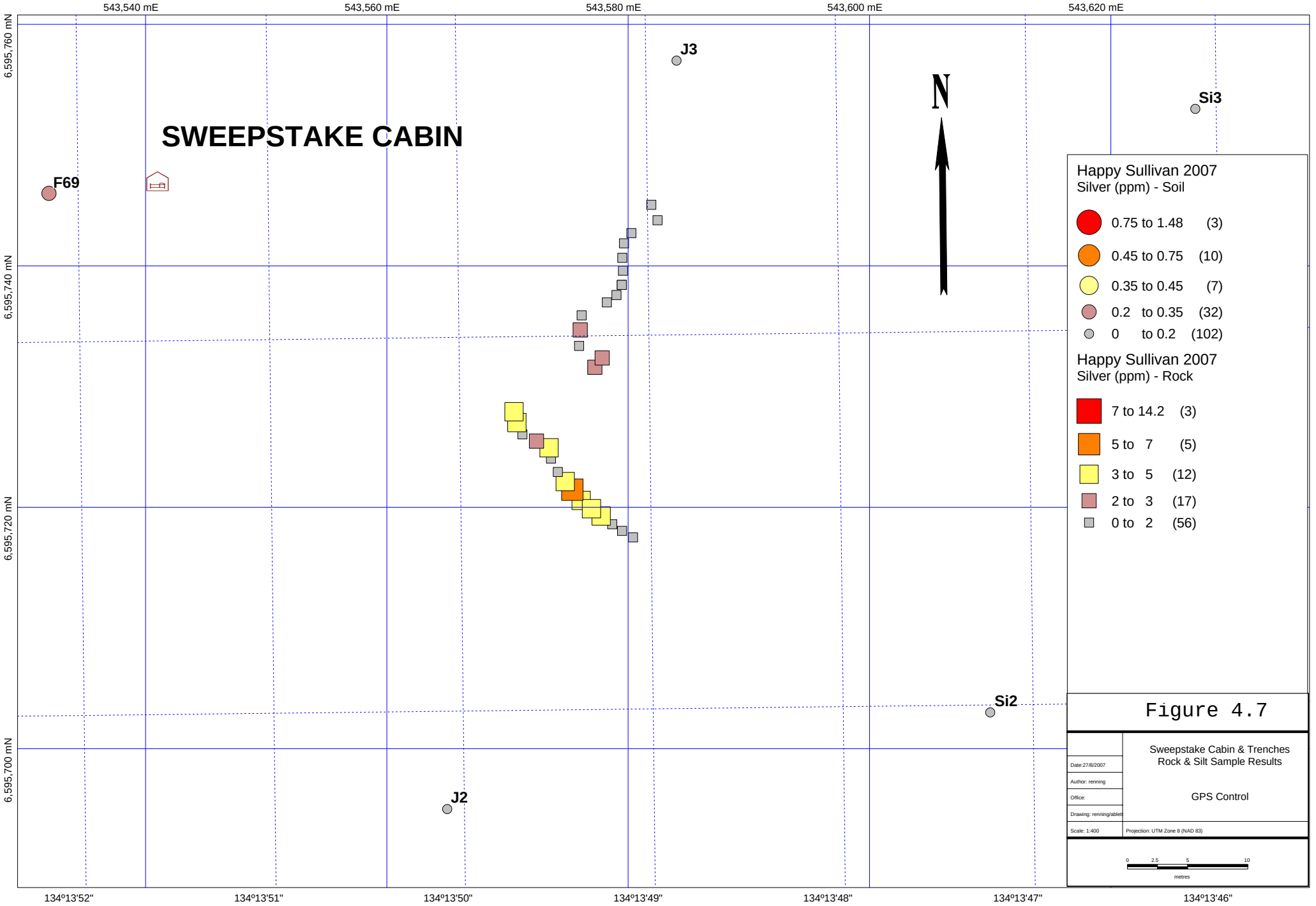

543,540 mE
543,560 mE
543,580 mE
543,600 mE
543,620 mE
6,595,760 mN
6,595,740 mN
6,595,720 mN
6,595,700 mN
59°29'52"
59°29'51"
134°13'52"
134°13'51"
134°13'50"
134°13'49"
134°13'48"
134°13'47"
134°13'46"
N
F69
J3
Si3
Si2
J2
47368
47367
47363
47365
47362
47360
47359
47361
47357
47366
47355
47358
47356
47439
47354
47438
47353
47437
47423
47436
47425
47435
47431
47429
47427
47426
47434
47428
47430
47432
LEGEND
GEOCHEMICAL SYMBOLS
Rock Sample Location
Soil Sample Location
Figure 4.1
Sweepstake Cabin & Trenches
Rock Sample Locations
GPS Control
Date:27/8/2007
Author: renning
Office:
Drawing: renning/ablet
Scale: 1:400
Projection: UTM Zone 8 (NAD 83)
0
2.5
5
10
metres


543,540 mE
543,560 mE
543,580 mE
543,600 mE
543,620 mE
6,595,760 mN
6,595,740 mN
6,595,720 mN
6,595,700 mN
59°29'52"
59°29'51"
134°13'52"
134°13'51"
134°13'50"
134°13'49"
134°13'48"
134°13'47"
134°13'46"
SWEEPSTAKE CABIN
N
J3
Si3
F69
Si2
J2
Happy Sullivan 2007
Antimony (ppm) - Soil
11 to 33.5 (11)
7.5 to 11 (5)
6 to 7.5 (2)
4.5 to 6 (14)
2.5 to 4.5 (36)
0 to 2.5 (86)
Happy Sullivan 2007
Antimony (ppm) - Rock
90 to 183 (5)
60 to 90 (16)
45 to 60 (16)
15 to 45 (51)
0 to 15 (5)
Figure 4.2
Sweepstake Cabin & Trenches
Rock & Silt Sample Results
GPS Control
Date:27/8/2007
Author: renning
Office:
Drawing: renning/ablett
Scale: 1:400
Projection: UTM Zone 8 (NAD 83)
0 2.5 5 10
metres


543,540 mE
543,560 mE
543,580 mE
543,600 mE
543,620 mE
6,595,760 mN
6,595,740 mN
6,595,720 mN
6,595,700 mN
SWEEPSTAKE CABIN
J3
Si3
F69
Si2
J2
N
Happy Sullivan 2007
Arsenic (ppm) - Soil
705 to 1,330 (5)
405 to 705 (6)
255 to 405 (2)
120 to 255 (38)
45 to 120 (93)
0 to 45 (10)
Happy Sullivan 2007
Arsenic (ppm) - Rock
2,700 to 6,060 (3)
1,900 to 2,700 (3)
700 to 1,900 (24)
200 to 700 (49)
0 to 200 (14)
59°29'52"
59°29'51"
134°13'52"
134°13'51"
134°13'50"
134°13'49"
134°13'48"
134°13'47"
134°13'46"
Figure 4.3
Sweepstake Cabin & Trenches
Rock & Silt Sample Results
GPS Control
Date:27/8/2007
Author: renning
Office:
Drawing: renning/ablett
Scale: 1:400
Projection: UTM Zone 8 (NAD 83)
0 2.5 5 10
metres


543,540 mE
543,560 mE
543,580 mE
543,600 mE
543,620 mE
543
6,595,760 m
6,595,740 mN
6,595,720 mN
6,595,700 mN
SWEEPSTAKE CABIN
N
Happy Sullivan 2007
Barium (ppml) - Soil
160 to 250 (6)
130 to 160 (24)
0 to 130 (124)
Happy Sullivan 2007
Barium (ppm) - Rock
1,250 to 1,500 (2)
850 to 1,250 (4)
550 to 850 (16)
300 to 550 (50)
0 to 300 (21)
59°29'52"
59°29'51"
134°13'52"
134°13'51"
134°13'50"
134°13'49"
134°13'48"
134°13'47"
134°13'46"
Figure 4.4
Sweepstake Cabin & Trenches
Rock & Silt Sample Results
GPS Control
Date:9/8/2007
Author: renning
Office:
Drawing:
Scale: 1:400
Projection: UTM Zone 8 (NAD 83)
0 2.5 5 10
metres


543,540 mE
543,560 mE
543,580 mE
543,600 mE
543,620 mE
6,595,760 mN
6,595,740 mN
6,595,720 mN
6,595,700 mN
59°29'52"
59°29'51"
134°13'52"
134°13'51"
134°13'50"
134°13'49"
134°13'48"
134°13'47"
134°13'46"
SWEEPSTAKE CABIN
N
J3
Si3
F69
Si2
J2
Happy Sullivan 2007
Gold (ppm) - Soil
0.45 to 3.35 (3)
0.11 to 0.45 (3)
0.04 to 0.11 (5)
0.01 to 0.04 (25)
0 to 0.01 (118)
Happy Sullivan 2007
Gold (ppm) - Rock
0.75 to 1.1 (6)
0.6 to 0.75 (2)
0.3 to 0.6 (17)
0.15 to 0.3 (29)
0 to 0.15 (38)
all others (1)
Figure 4.5
Sweepstake Cabin & Trenches
Rock & Silt Sample Results
GPS Control
Date:27/8/2007
Author: renning
Office:
Drawing: renning/ablett
Scale: 1:400
Projection: UTM Zone 8 (NAD 83)
0 2.5 5 10
metres


543,540 mE
543,560 mE
543,580 mE
543,600 mE
543,620 mE
6,595,760 mN
6,595,740 mN
6,595,720 mN
6,595,700 mN
59°29'52"
59°29'51"
134°13'52"
134°13'51"
134°13'50"
134°13'49"
134°13'48"
134°13'47"
134°13'46"
SWEEPSTAKE CABIN
F69
J3
J2
Si3
Si2
N
Happy Sullivan 2007
Silver (ppm) - Soil
0.75 to 1.48 (3)
0.45 to 0.75 (10)
0.35 to 0.45 (7)
0.2 to 0.35 (32)
0 to 0.2 (102)
Happy Sullivan 2007
Silver (ppm) - Rock
7 to 14.2 (3)
5 to 7 (5)
3 to 5 (12)
2 to 3 (17)
0 to 2 (56)
Figure 4.7
Sweepstake Cabin & Trenches
Rock & Silt Sample Results
GPS Control
Date:27/8/2007
Author: renning
Office:
Drawing: renning/ablett
Scale: 1:400
Projection: UTM Zone 8 (NAD 83)
0 2.5 5 10
metres

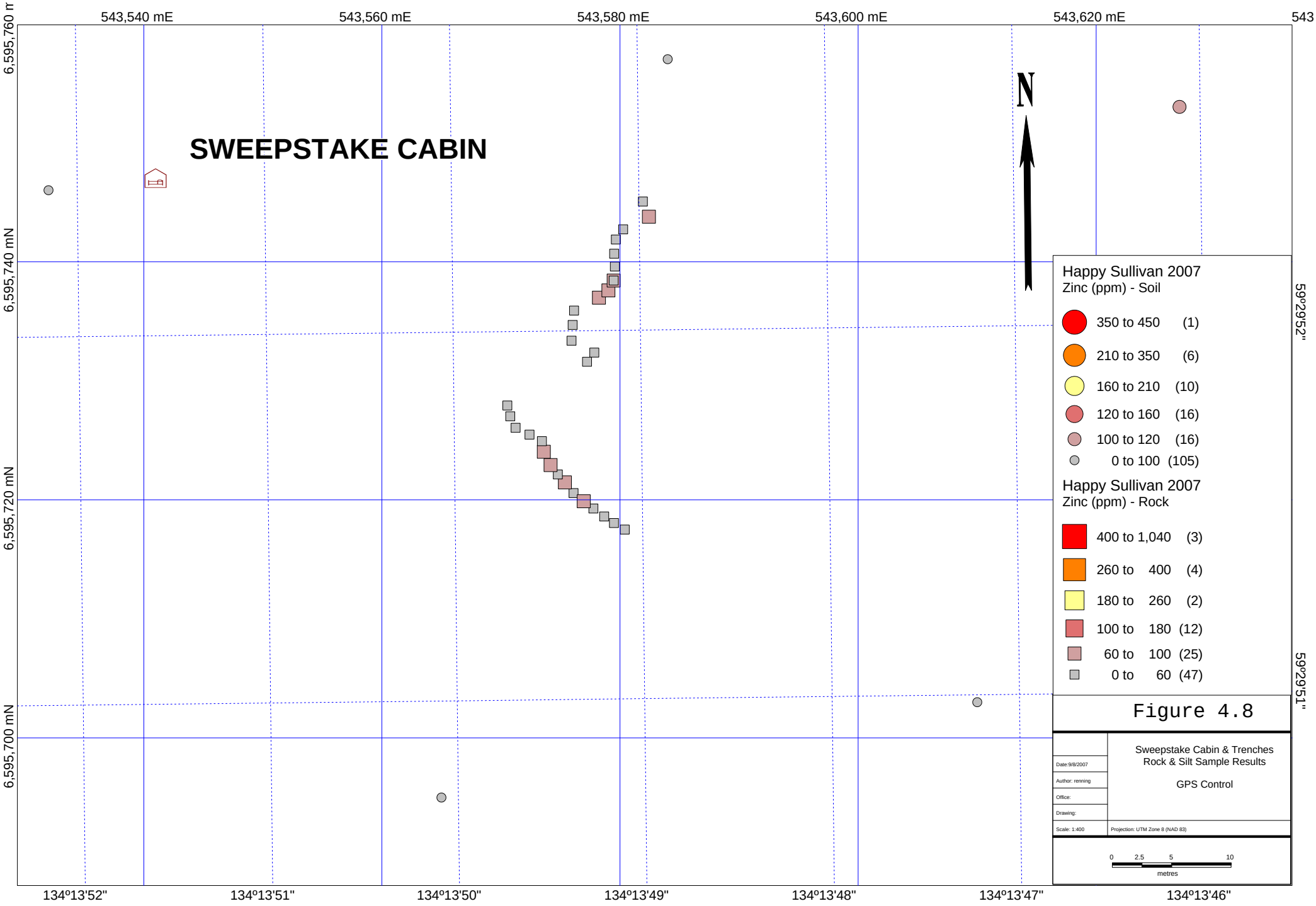


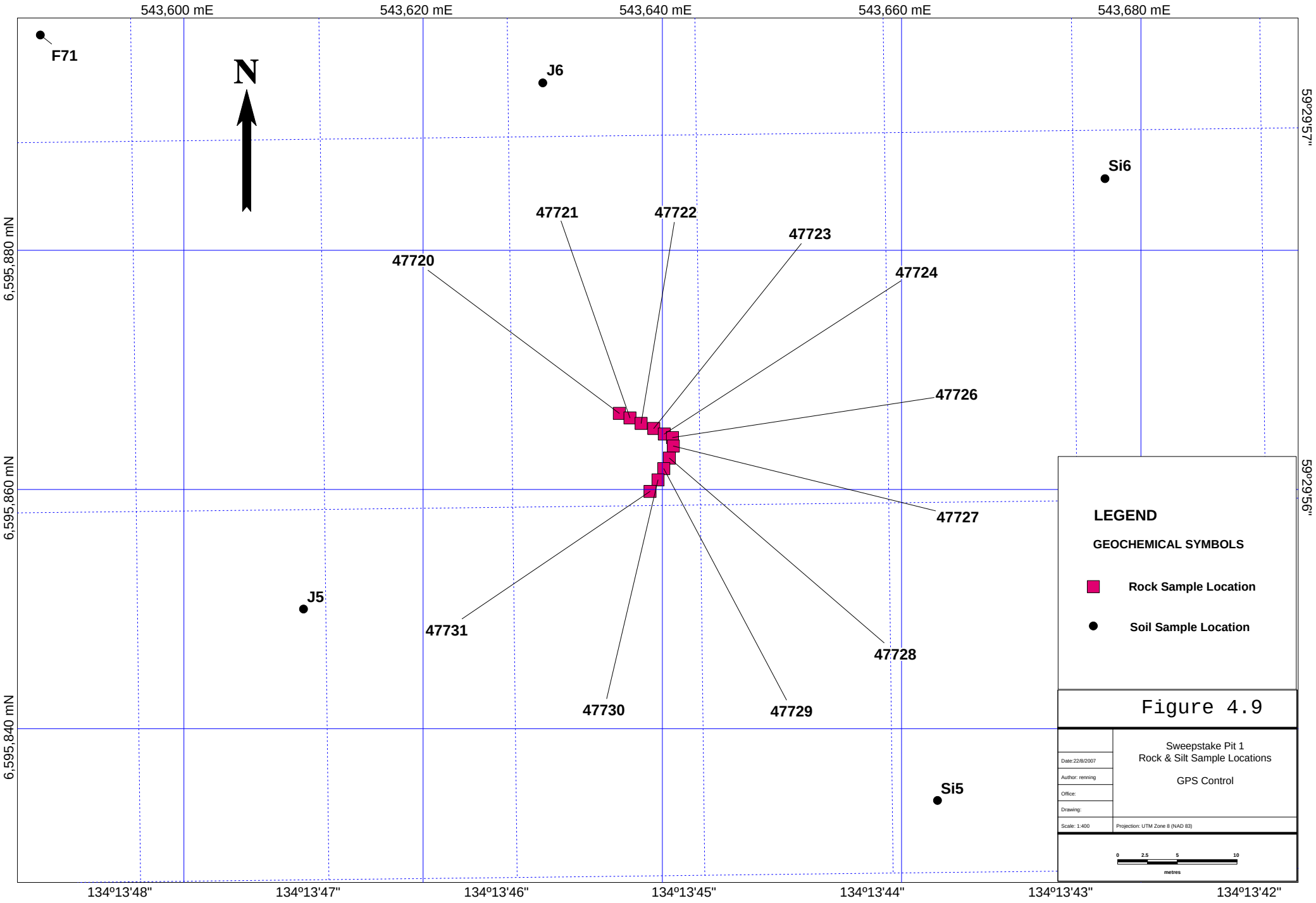
Figure 4.8

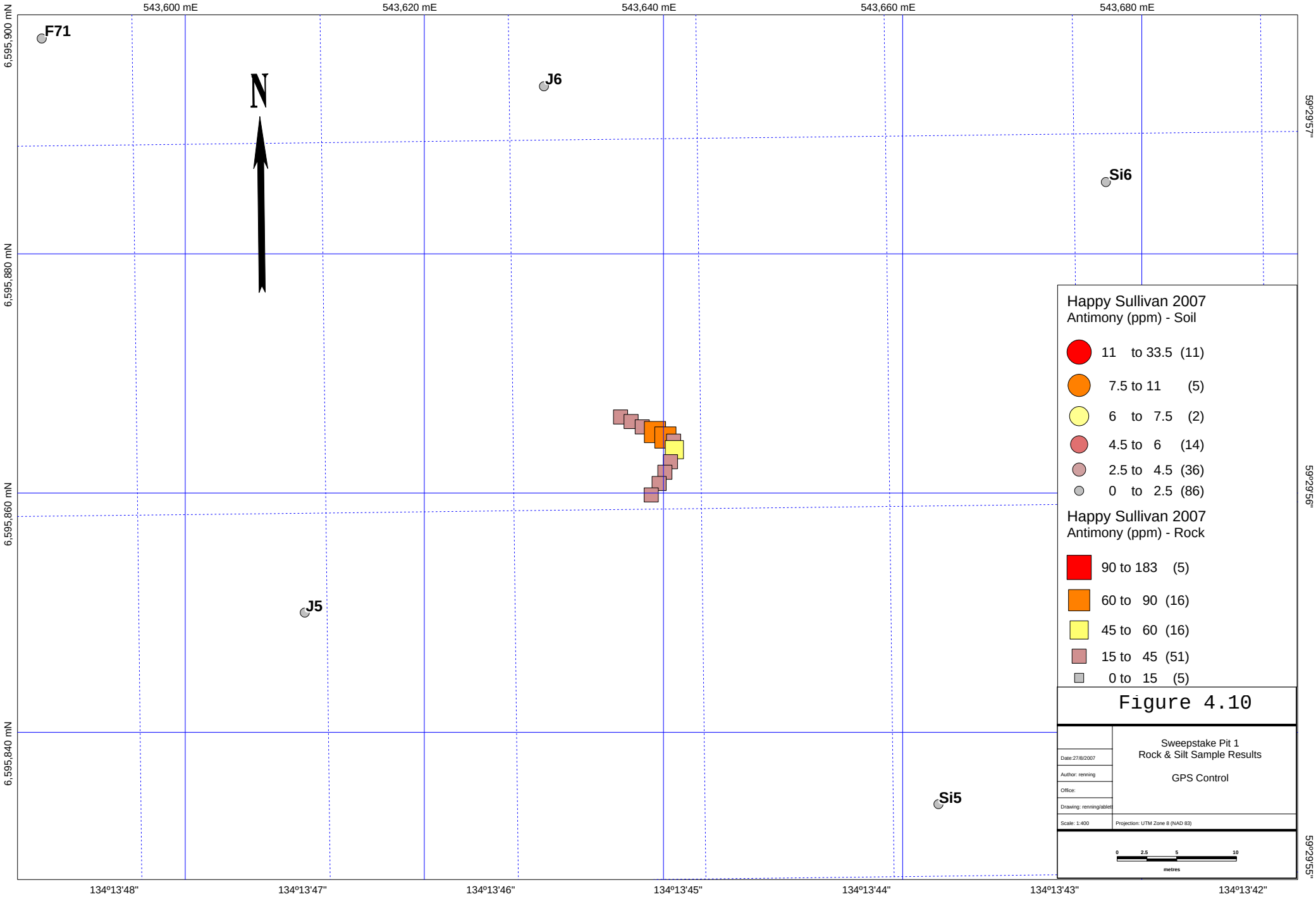
Sweepstake Cabin & Trenches
Rock & Silt Sample Results

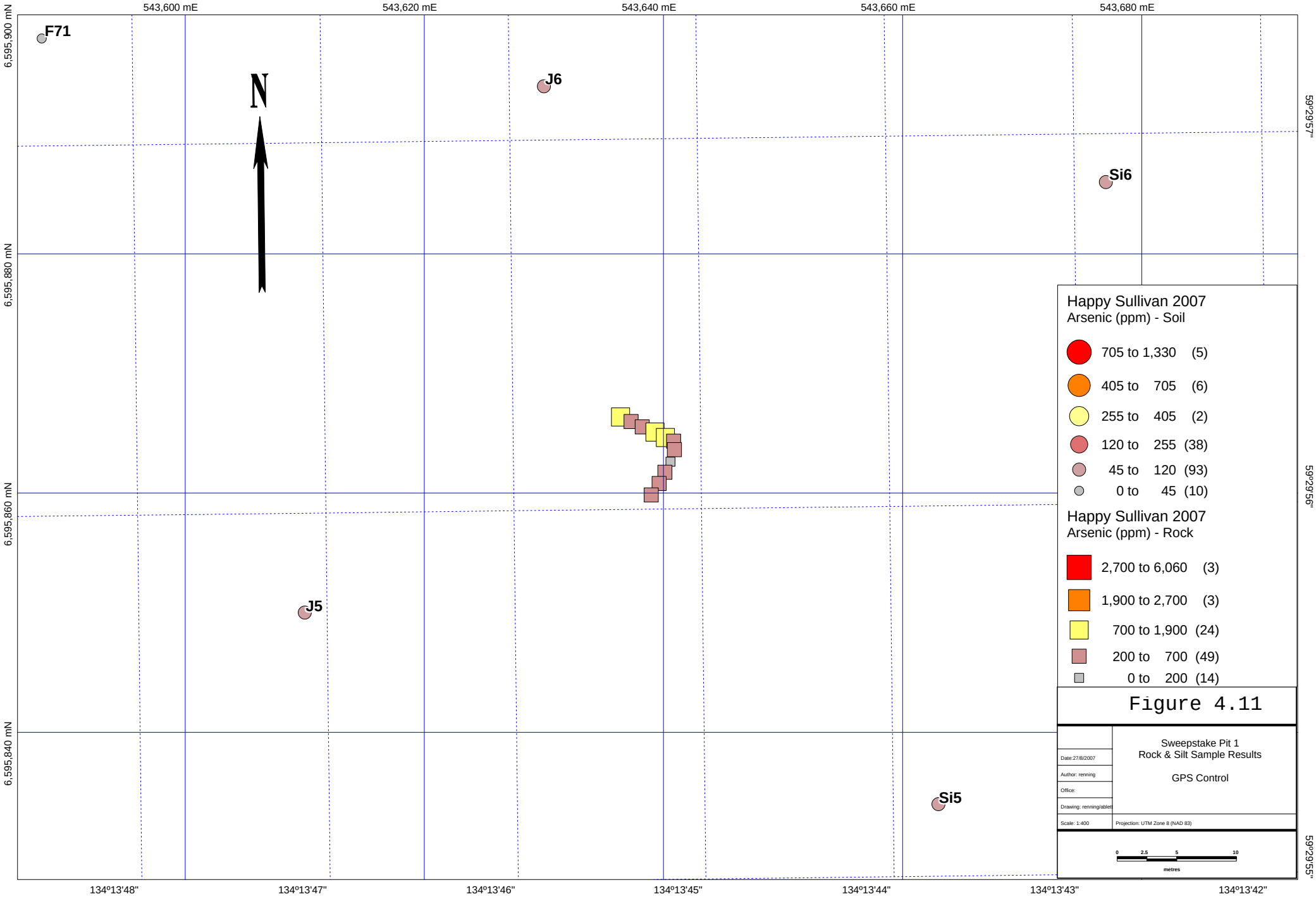
GPS Control

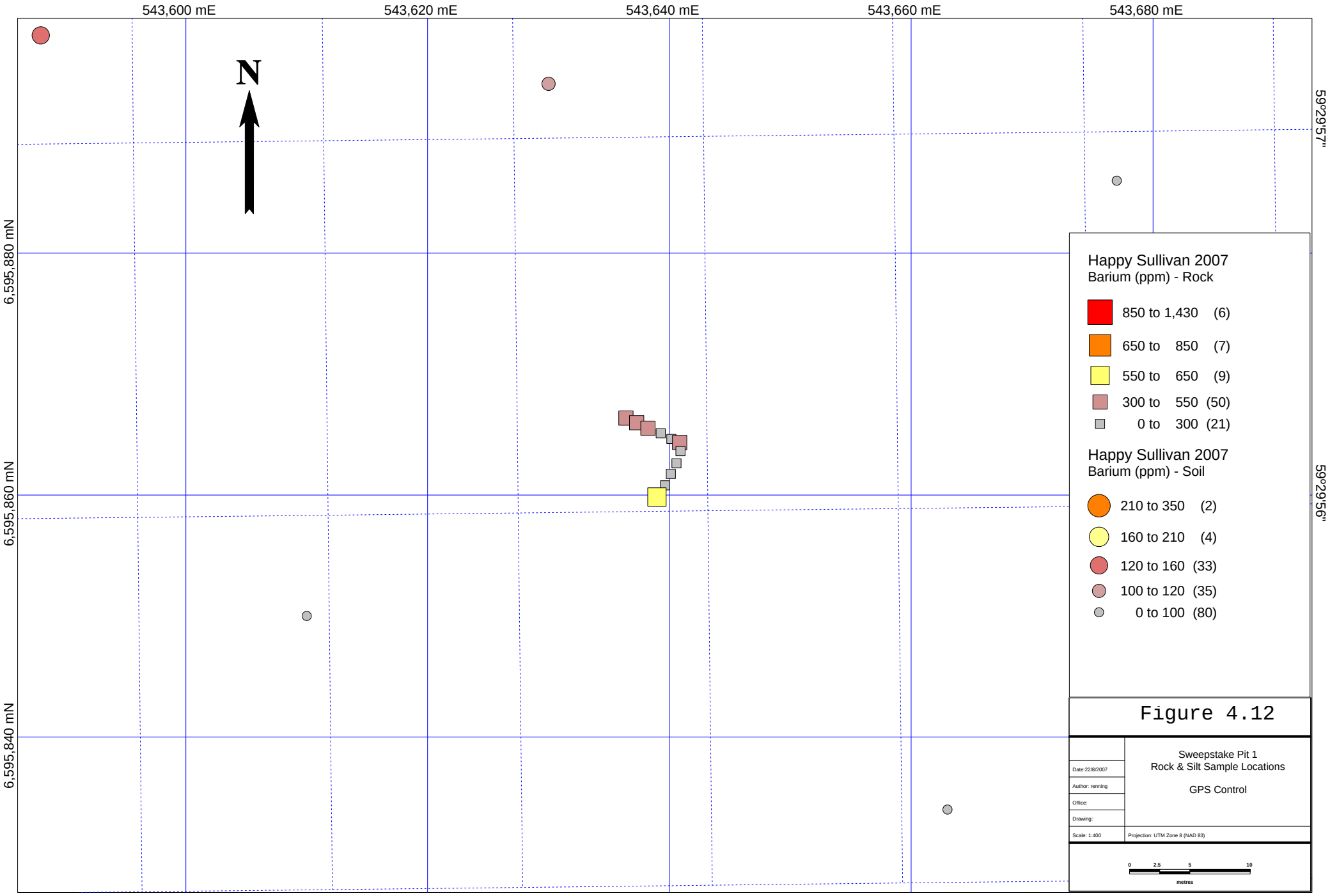
Date:9/8/2007
Author: renning
Office:
Drawing:
Scale: 1:400
Projection: UTM Zone 8 (NAD 83)

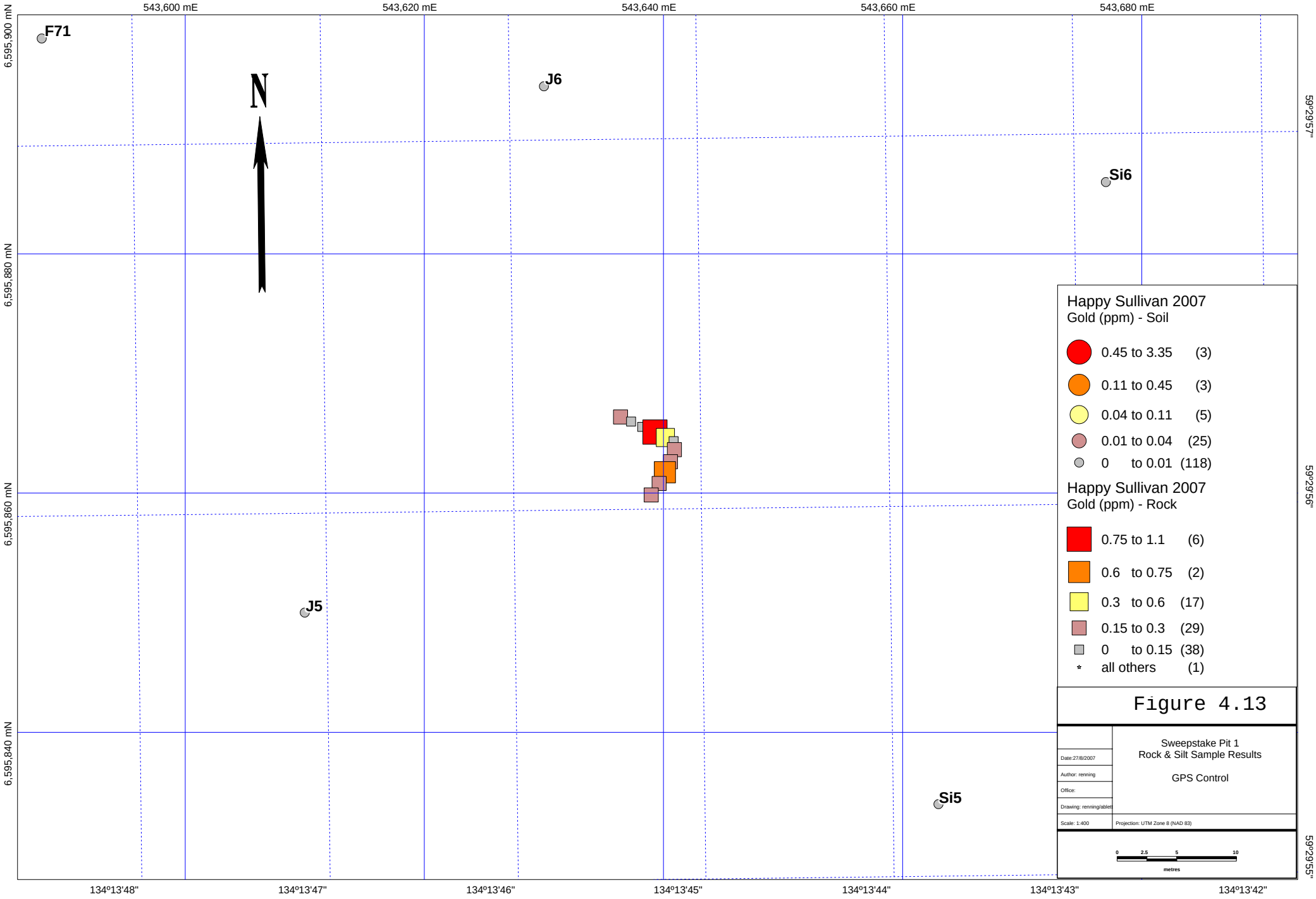
0 2.5 5 10
metres

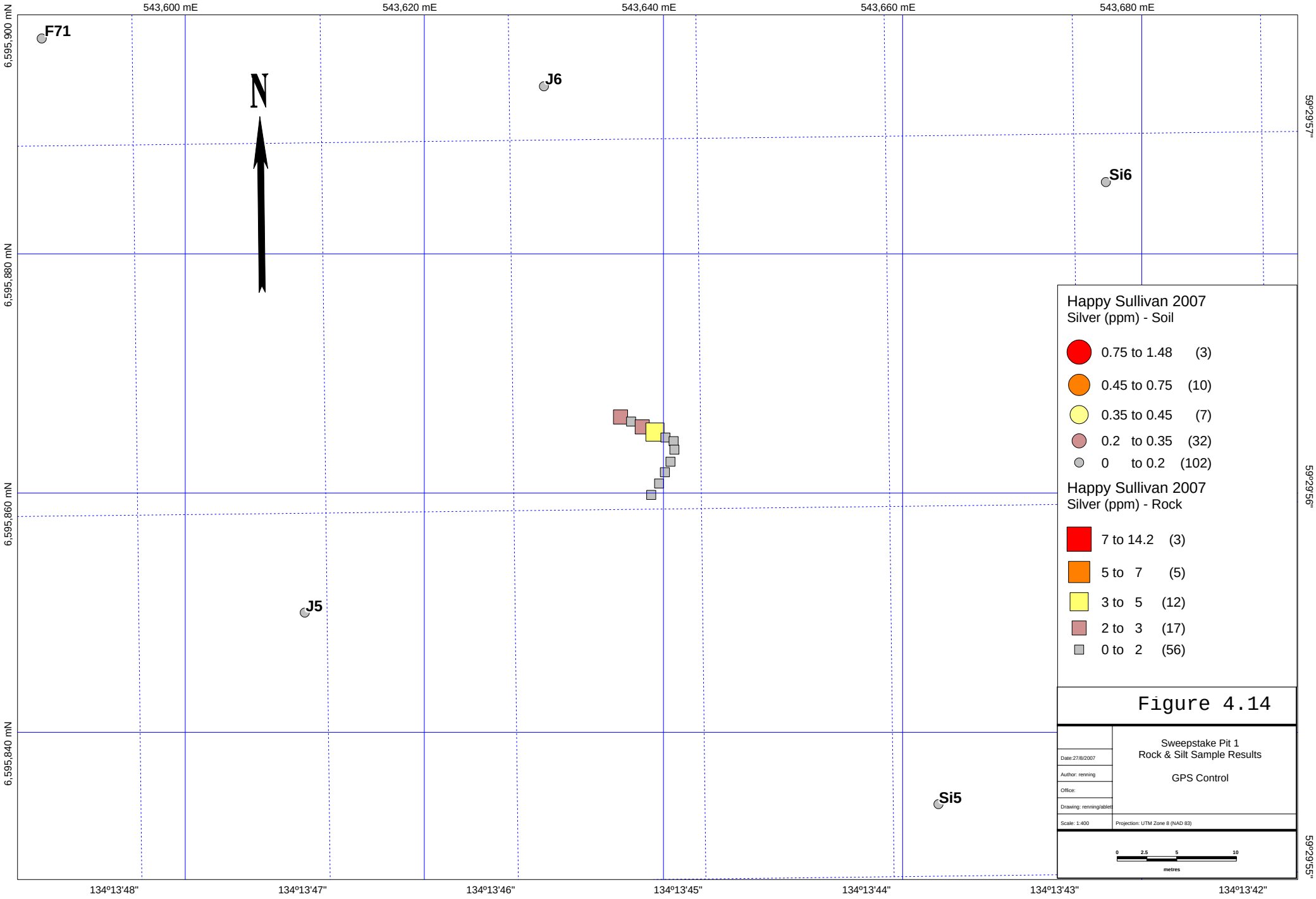

543,600 mE
543,620 mE
543,640 mE
543,660 mE
543,680 mE
6,595,880 mN
6,595,860 mN
6,595,840 mN
59º29'57"
59º29'56"
134º13'48"
134º13'47"
134º13'46"
134º13'45"
134º13'44"
134º13'43"
134º13'42"
N
F71
J6
Si6
J5
Si5
47720
47721
47722
47723
47724
47726
47727
47728
47729
47730
47731
LEGEND
GEOCHEMICAL SYMBOLS
Rock Sample Location
Soil Sample Location
Figure 4.9
Sweepstake Pit 1
Rock & Silt Sample Locations
GPS Control
Date:22/8/2007
Author: renning
Office:
Drawing:
Scale: 1:400
Projection: UTM Zone 8 (NAD 83)
0 2.5 5 10
metres

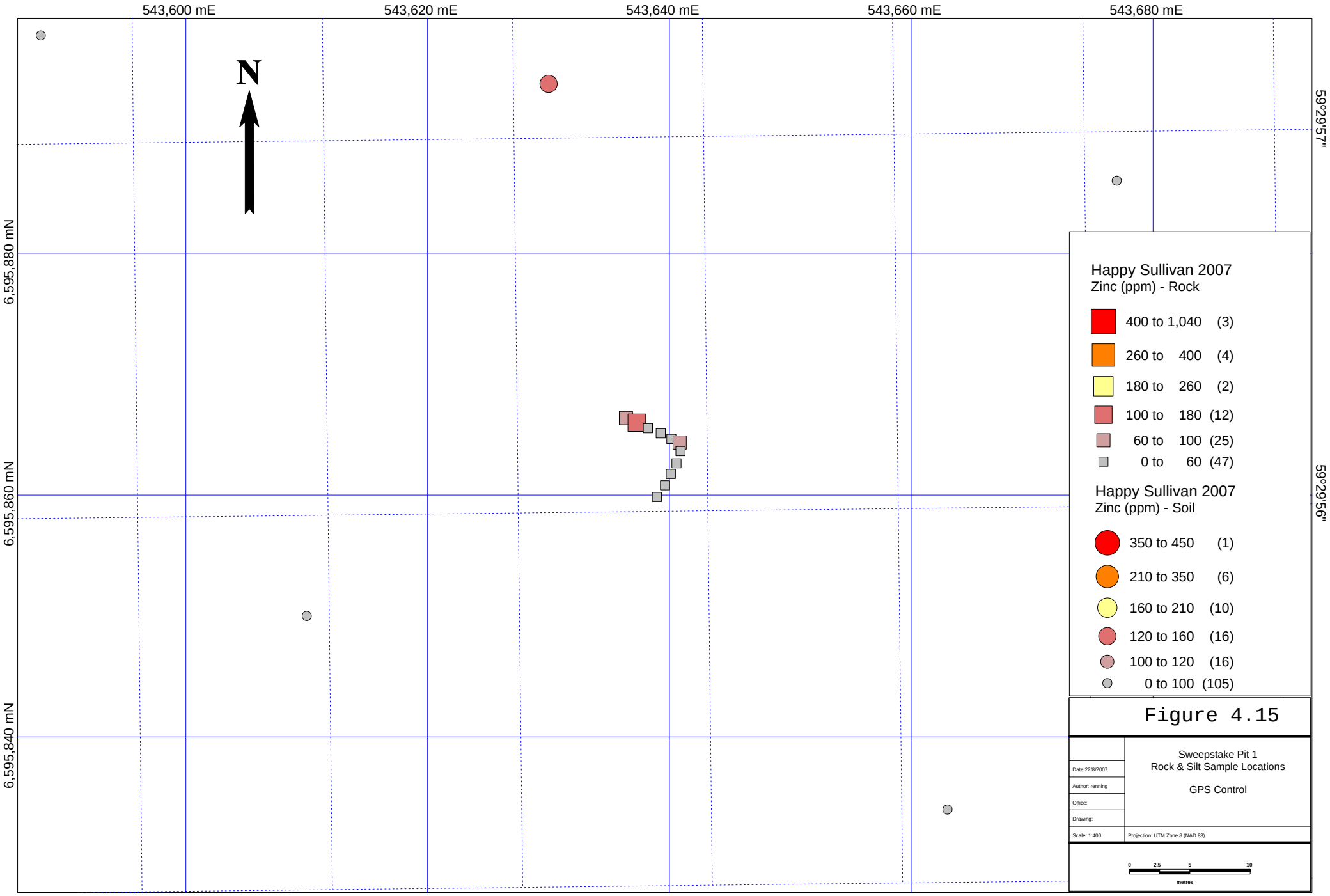

543,600 mE
543,620 mE
543,640 mE
543,660 mE
543,680 mE
6,595,900 mN
6,595,880 mN
6,595,860 mN
6,595,840 mN
59°29'57"
59°29'56"
59°29'55"
134°13'48"
134°13'47"
134°13'46"
134°13'45"
134°13'44"
134°13'43"
134°13'42"
F71
J6
Si6
J5
Si5
N
Happy Sullivan 2007
Antimony (ppm) - Soil
11 to 33.5 (11)
7.5 to 11 (5)
6 to 7.5 (2)
4.5 to 6 (14)
2.5 to 4.5 (36)
0 to 2.5 (86)
Happy Sullivan 2007
Antimony (ppm) - Rock
90 to 183 (5)
60 to 90 (16)
45 to 60 (16)
15 to 45 (51)
0 to 15 (5)
Figure 4.10
Sweepstake Pit 1
Rock & Silt Sample Results
GPS Control
Date:27/8/2007
Author: renning
Office:
Drawing: renning/ablett
Scale: 1:400
Projection: UTM Zone 8 (NAD 83)
0 2.5 5 10
metres

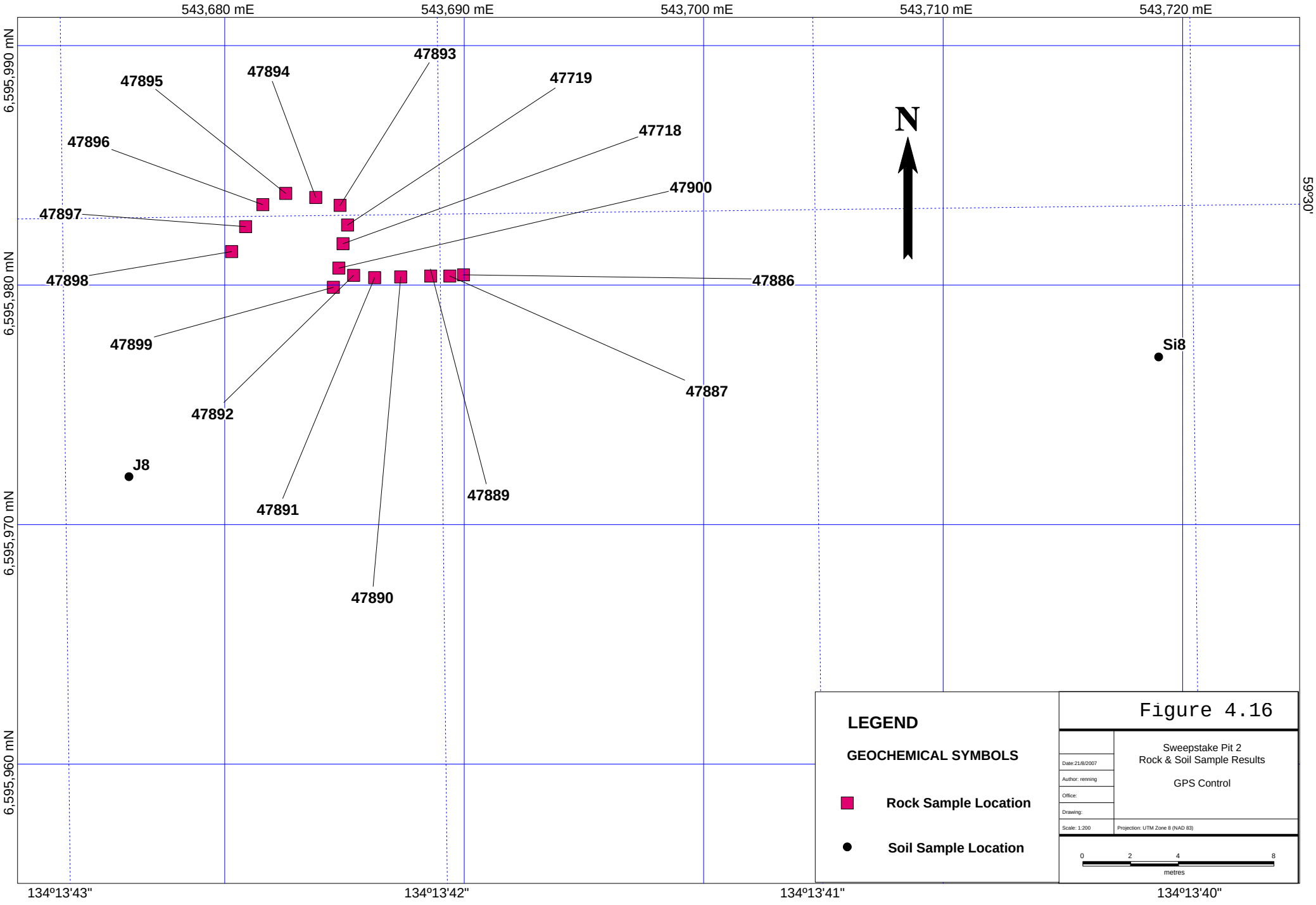

543,600 mE
543,620 mE
543,640 mE
543,660 mE
543,680 mE
6,595,900 mN
6,595,880 mN
6,595,860 mN
6,595,840 mN
59°29'57"
59°29'56"
59°29'55"
134°13'48"
134°13'47"
134°13'46"
134°13'45"
134°13'44"
134°13'43"
134°13'42"
F71
J6
Si6
J5
Si5
N
Happy Sullivan 2007
Arsenic (ppm) - Soil
705 to 1,330 (5)
405 to 705 (6)
255 to 405 (2)
120 to 255 (38)
45 to 120 (93)
0 to 45 (10)
Happy Sullivan 2007
Arsenic (ppm) - Rock
2,700 to 6,060 (3)
1,900 to 2,700 (3)
700 to 1,900 (24)
200 to 700 (49)
0 to 200 (14)
Figure 4.11
Sweepstake Pit 1
Rock & Silt Sample Results
GPS Control
Date:27/8/2007
Author: renning
Office:
Drawing: renning/ablett
Scale: 1:400
Projection: UTM Zone 8 (NAD 83)
0 2.5 5 10
metres

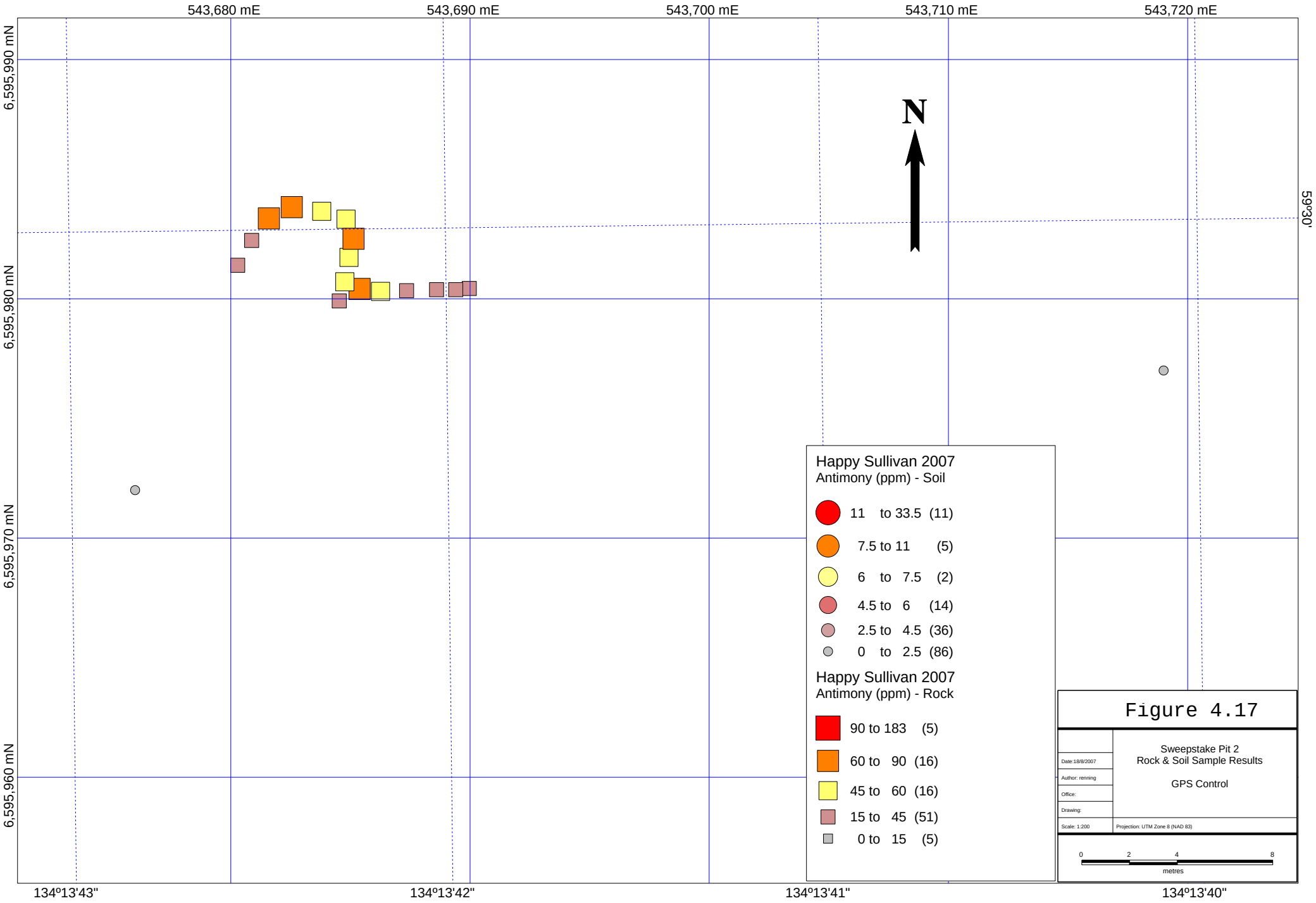

543,600 mE
543,620 mE
543,640 mE
543,660 mE
543,680 mE
N
6,595,880 mN
6,595,860 mN
6,595,840 mN
59º29'57"
59º29'56"
134º13'48"
134º13'47"
134º13'46"
134º13'45"
134º13'44"
134º13'43"
134º13'42"
Happy Sullivan 2007
Barium (ppm) - Rock
850 to 1,430 (6)
650 to 850 (7)
550 to 650 (9)
300 to 550 (50)
0 to 300 (21)
Happy Sullivan 2007
Barium (ppm) - Soil
210 to 350 (2)
160 to 210 (4)
120 to 160 (33)
100 to 120 (35)
0 to 100 (80)
Figure 4.12
Sweepstake Pit 1
Rock & Silt Sample Locations
GPS Control
Date:22/8/2007
Author: renning
Office:
Drawing:
Scale: 1:400
Projection: UTM Zone 8 (NAD 83)
0 2.5 5 10
metres

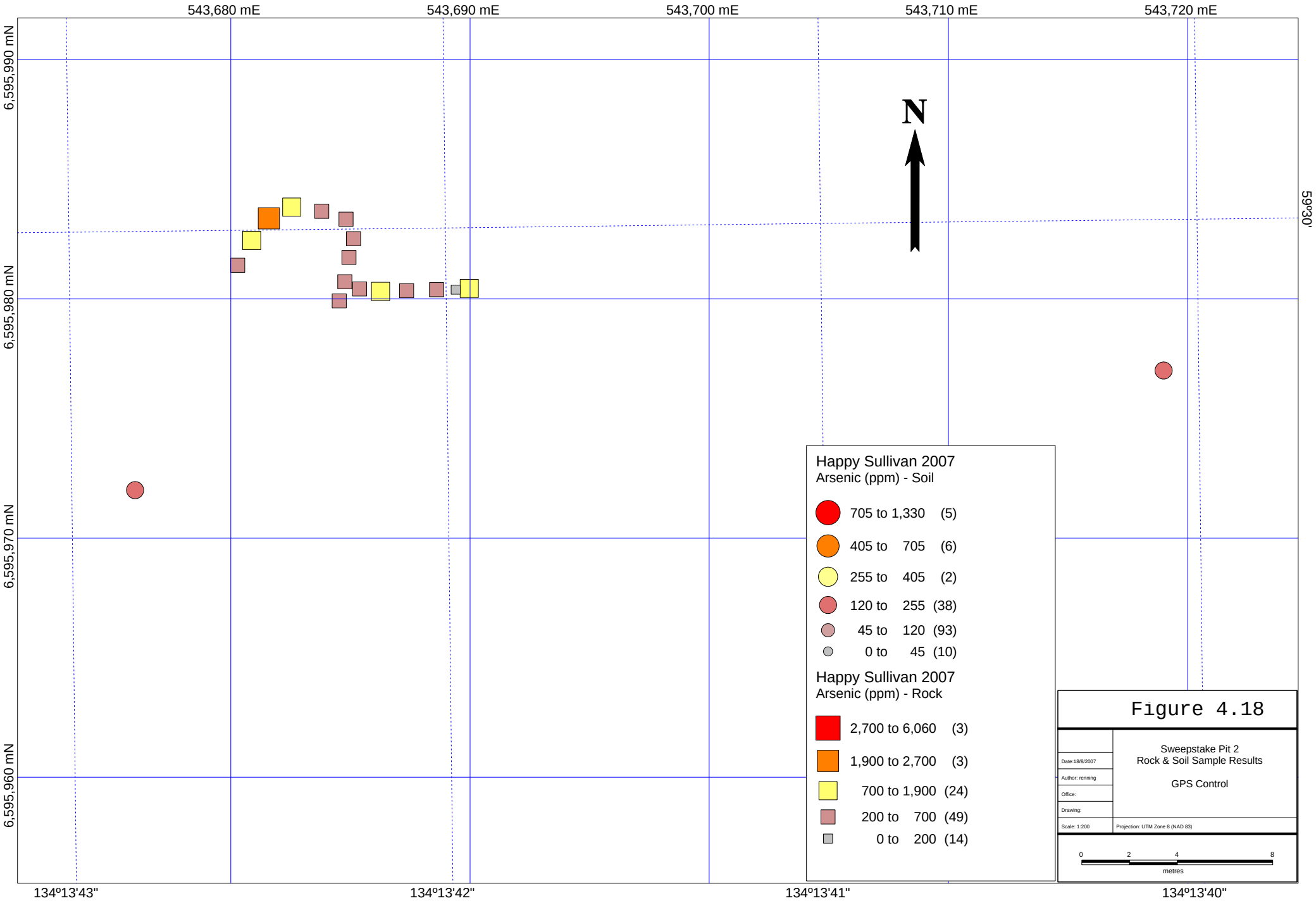

543,600 mE
543,620 mE
543,640 mE
543,660 mE
543,680 mE
6,595,900 mN
6,595,880 mN
6,595,860 mN
6,595,840 mN
59°29'57"
59°29'56"
59°29'55"
134°13'48"
134°13'47"
134°13'46"
134°13'45"
134°13'44"
134°13'43"
134°13'42"
F71
J6
Si6
J5
Si5
N
Happy Sullivan 2007
Gold (ppm) - Soil
0.45 to 3.35 (3)
0.11 to 0.45 (3)
0.04 to 0.11 (5)
0.01 to 0.04 (25)
0 to 0.01 (118)
Happy Sullivan 2007
Gold (ppm) - Rock
0.75 to 1.1 (6)
0.6 to 0.75 (2)
0.3 to 0.6 (17)
0.15 to 0.3 (29)
0 to 0.15 (38)
all others (1)
Figure 4.13
Sweepstake Pit 1
Rock & Silt Sample Results
GPS Control
Date:27/8/2007
Author: renning
Office:
Drawing: renning/ablett
Scale: 1:400
Projection: UTM Zone 8 (NAD 83)
0 2.5 5 10
metres

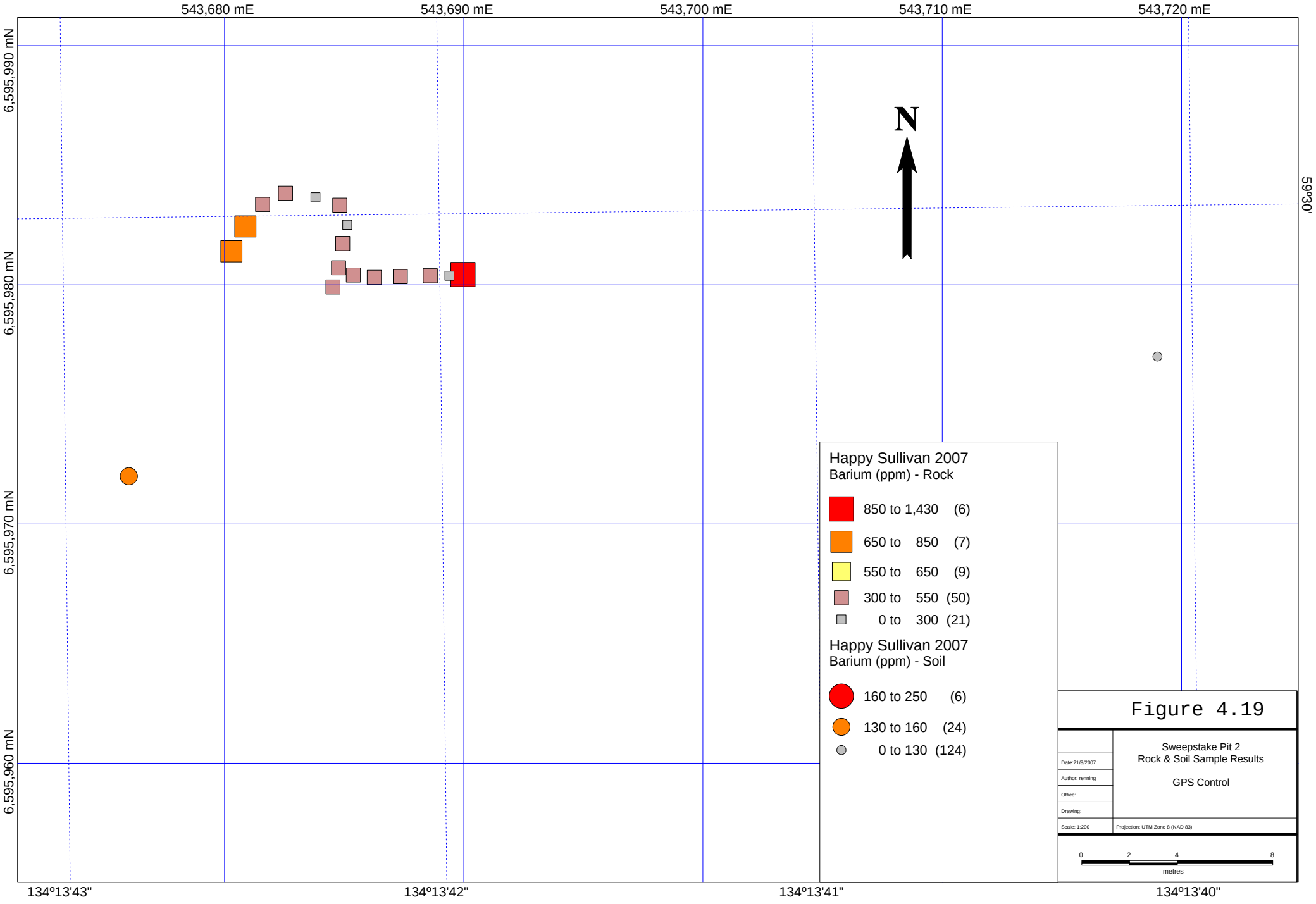

543,600 mE
543,620 mE
543,640 mE
543,660 mE
543,680 mE
6,595,900 mN
6,595,880 mN
6,595,860 mN
6,595,840 mN
59°29'57"
59°29'56"
59°29'55"
134°13'48"
134°13'47"
134°13'46"
134°13'45"
134°13'44"
134°13'43"
134°13'42"
N
F71
J6
Si6
J5
Si5
Happy Sullivan 2007
Silver (ppm) - Soil
0.75 to 1.48 (3)
0.45 to 0.75 (10)
0.35 to 0.45 (7)
0.2 to 0.35 (32)
0 to 0.2 (102)
Happy Sullivan 2007
Silver (ppm) - Rock
7 to 14.2 (3)
5 to 7 (5)
3 to 5 (12)
2 to 3 (17)
0 to 2 (56)
Figure 4.14
Sweepstake Pit 1
Rock & Silt Sample Results
GPS Control
Date:27/8/2007
Author: renning
Office:
Drawing: renning/ablett
Scale: 1:400
Projection: UTM Zone 8 (NAD 83)
0 2.5 5 10
metres

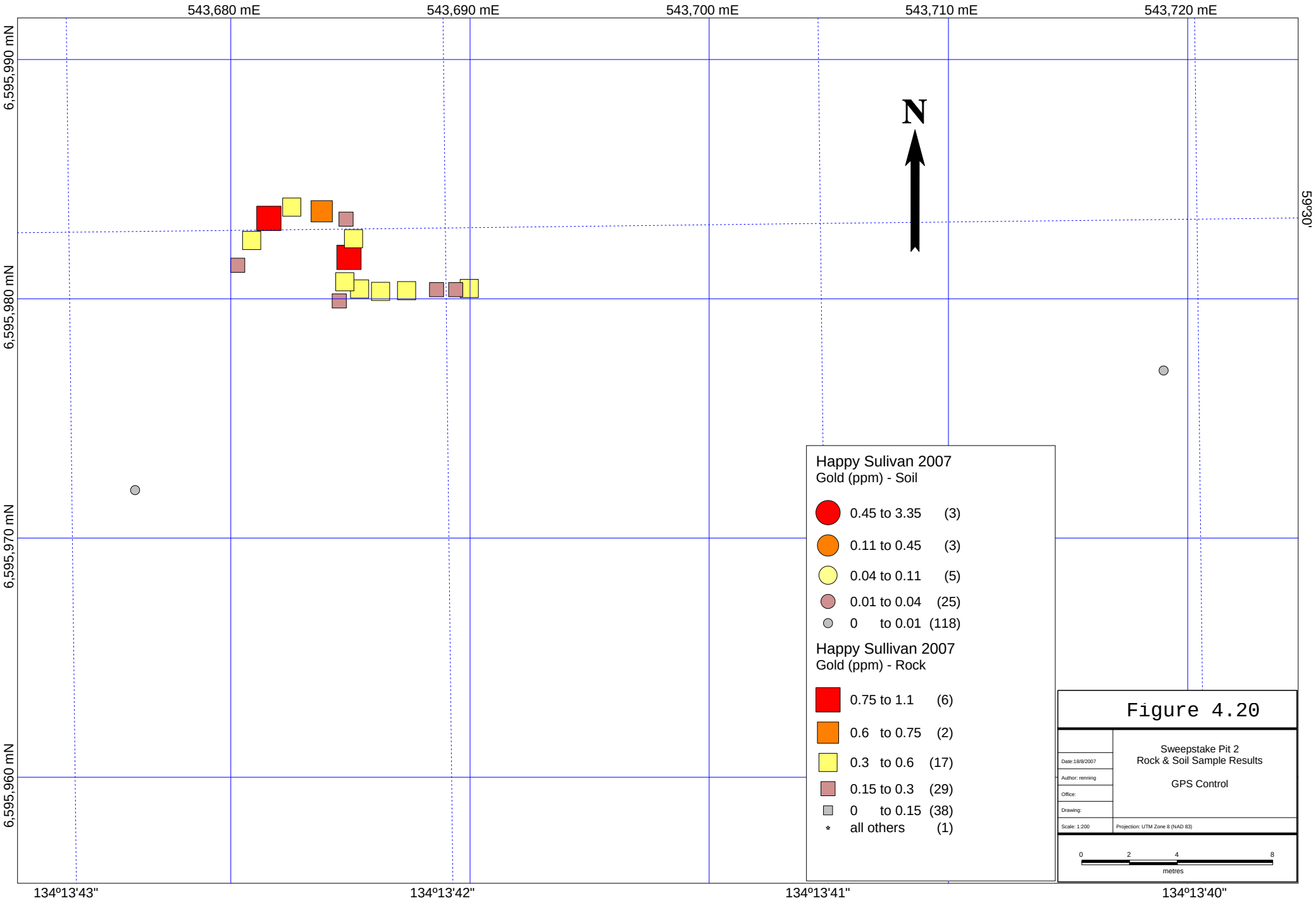

543,600 mE
543,620 mE
543,640 mE
543,660 mE
543,680 mE
N
6,595,880 mN
6,595,860 mN
6,595,840 mN
59º29'57"
59º29'56"
134º13'48"
134º13'47"
134º13'46"
134º13'45"
134º13'44"
134º13'43"
134º13'42"
Happy Sullivan 2007
Zinc (ppm) - Rock
400 to 1,040 (3)
260 to 400 (4)
180 to 260 (2)
100 to 180 (12)
60 to 100 (25)
0 to 60 (47)
Happy Sullivan 2007
Zinc (ppm) - Soil
350 to 450 (1)
210 to 350 (6)
160 to 210 (10)
120 to 160 (16)
100 to 120 (16)
0 to 100 (105)
Figure 4.15
Sweepstake Pit 1
Rock & Silt Sample Locations
GPS Control
Date:22/8/2007
Author: renning
Office:
Drawing:
Scale: 1:400
Projection: UTM Zone 8 (NAD 83)
0 2.5 5 10
metres

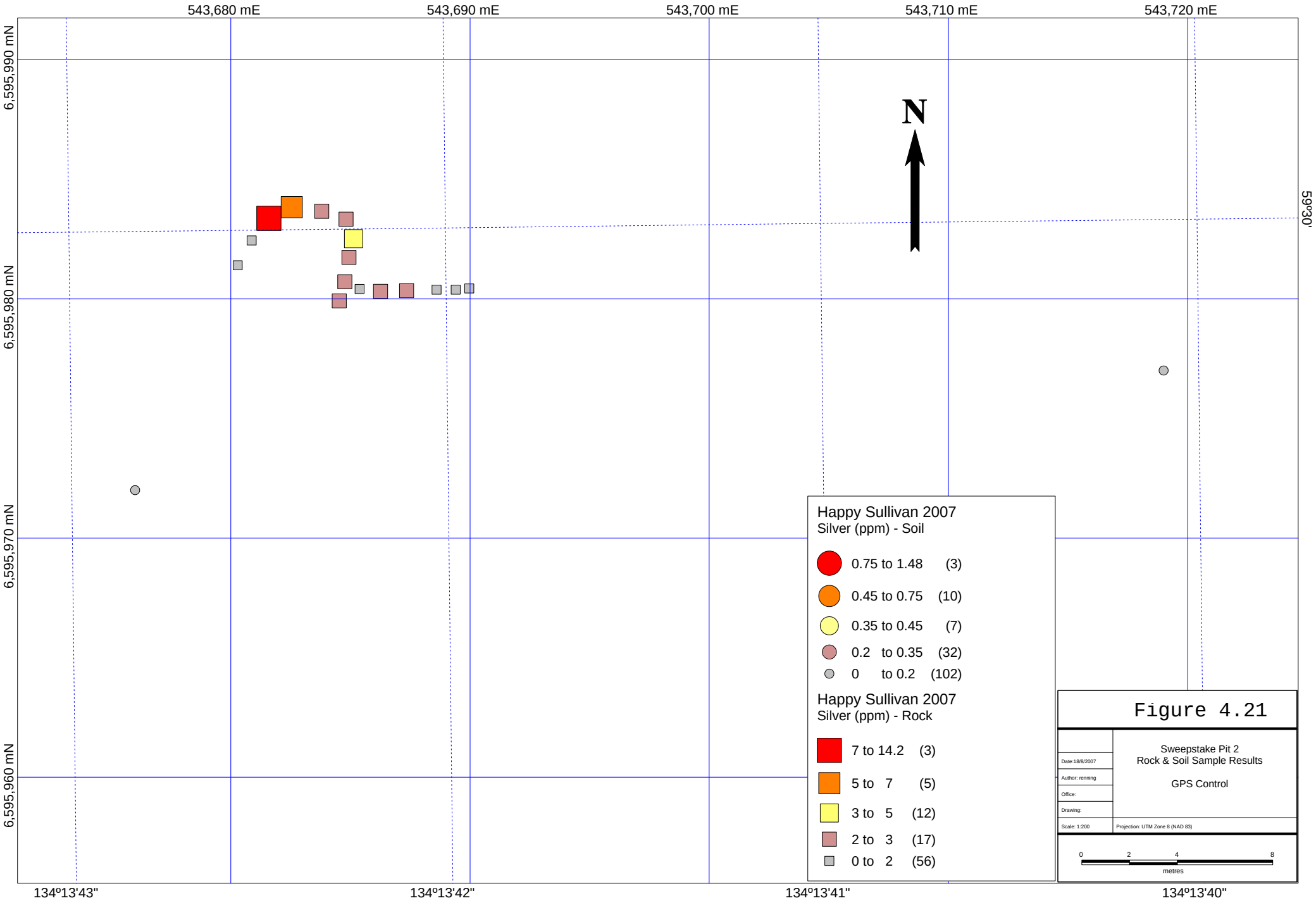

543,680 mE
543,690 mE
543,700 mE
543,710 mE
543,720 mE
6,595,990 mN
6,595,980 mN
6,595,970 mN
6,595,960 mN
59°30'
134°13'43"
134°13'42"
134°13'41"
134°13'40"
47893
47894
47895
47719
47718
47896
47900
47897
47898
47886
47899
47887
47892
47891
47889
47890
J8
Si8
N
LEGEND
GEOCHEMICAL SYMBOLS
Rock Sample Location
Soil Sample Location
Figure 4.16
Sweepstake Pit 2
Rock & Soil Sample Results
GPS Control
Date:21/8/2007
Author: renning
Office:
Drawing:
Scale: 1:200
Projection: UTM Zone 8 (NAD 83)
0
2
4
8
metres

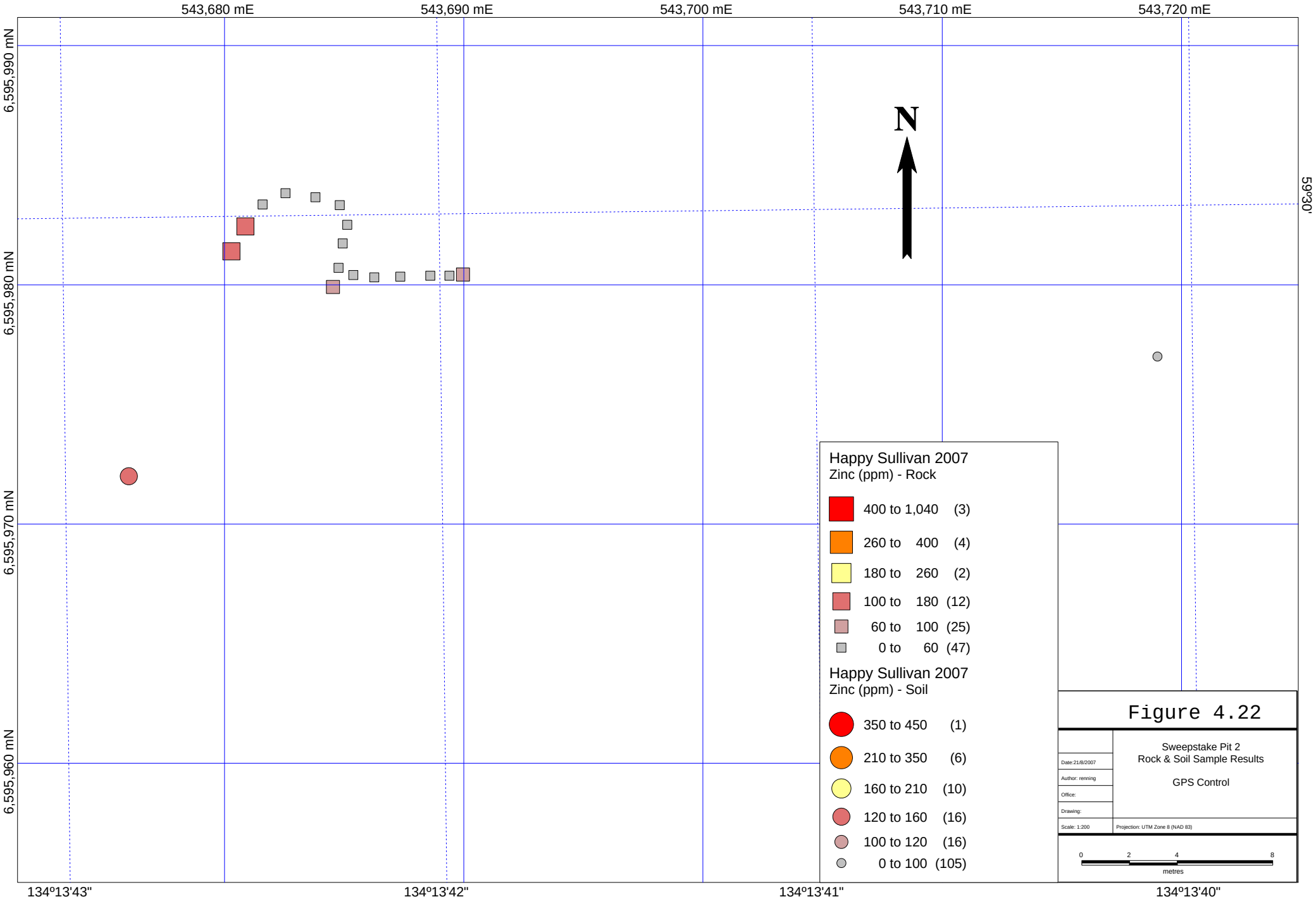

543,680 mE
543,690 mE
543,700 mE
543,710 mE
543,720 mE
6,595,990 mN
6,595,980 mN
6,595,970 mN
6,595,960 mN
59°30'
N
134°13'43"
134°13'42"
134°13'41"
134°13'40"
Happy Sullivan 2007
Antimony (ppm) - Soil
11 to 33.5 (11)
7.5 to 11 (5)
6 to 7.5 (2)
4.5 to 6 (14)
2.5 to 4.5 (36)
0 to 2.5 (86)
Happy Sullivan 2007
Antimony (ppm) - Rock
90 to 183 (5)
60 to 90 (16)
45 to 60 (16)
15 to 45 (51)
0 to 15 (5)
Figure 4.17
Sweepstake Pit 2
Rock & Soil Sample Results
GPS Control
Date:18/8/2007
Author: renning
Office:
Drawing:
Scale: 1:200
Projection: UTM Zone 8 (NAD 83)
0 2 4 8
metres

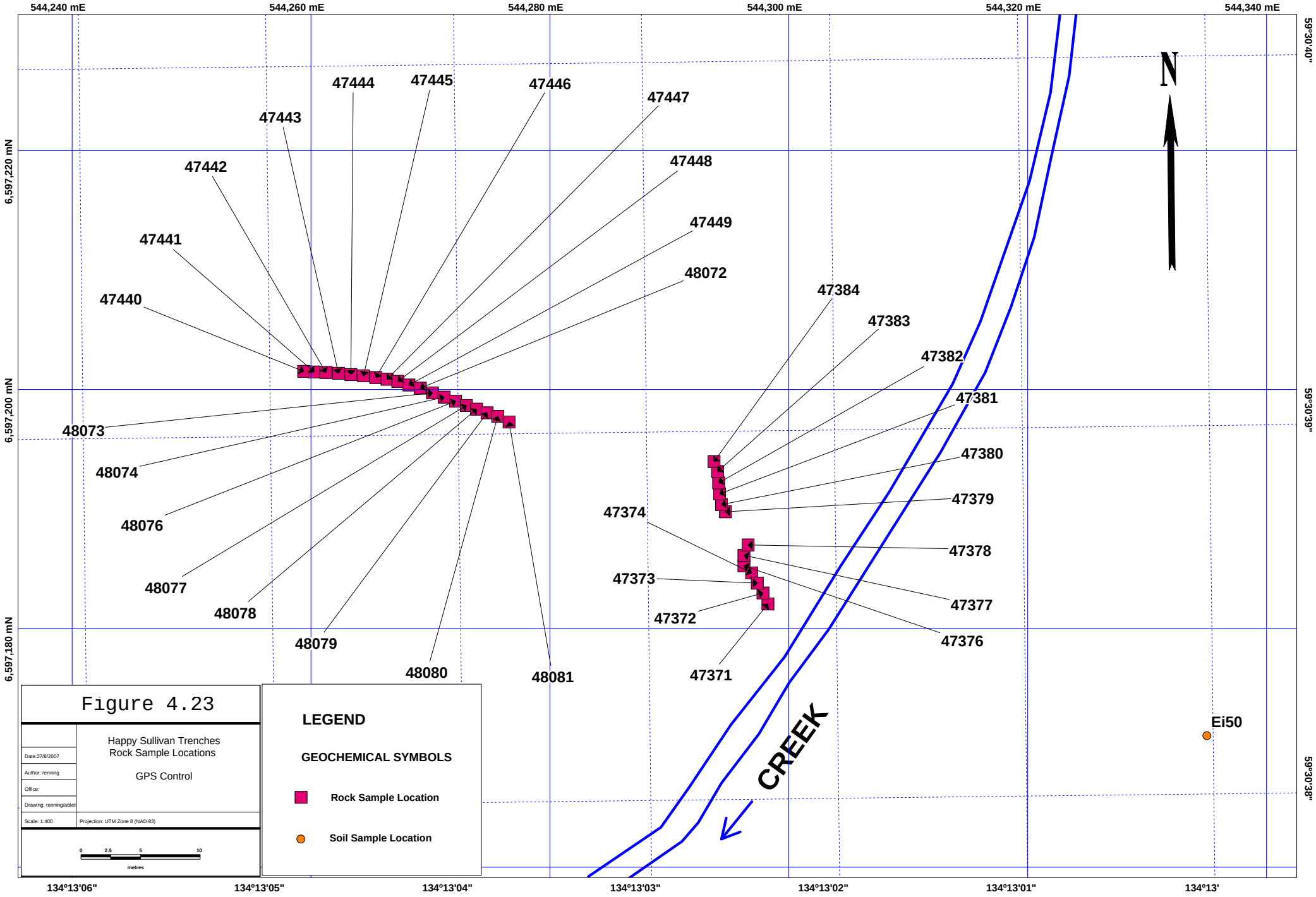

543,680 mE
543,690 mE
543,700 mE
543,710 mE
543,720 mE
6,595,990 mN
6,595,980 mN
6,595,970 mN
6,595,960 mN
59c30'
N
134°13'43"
134°13'42"
134°13'41"
134°13'40"
Happy Sullivan 2007
Arsenic (ppm) - Soil
705 to 1,330 (5)
405 to 705 (6)
255 to 405 (2)
120 to 255 (38)
45 to 120 (93)
0 to 45 (10)
Happy Sullivan 2007
Arsenic (ppm) - Rock
2,700 to 6,060 (3)
1,900 to 2,700 (3)
700 to 1,900 (24)
200 to 700 (49)
0 to 200 (14)
Figure 4.18
Sweepstake Pit 2
Rock & Soil Sample Results
GPS Control
Date:18/8/2007
Author: renning
Office:
Drawing:
Scale: 1:200
Projection: UTM Zone 8 (NAD 83)
0
2
4
8
metres

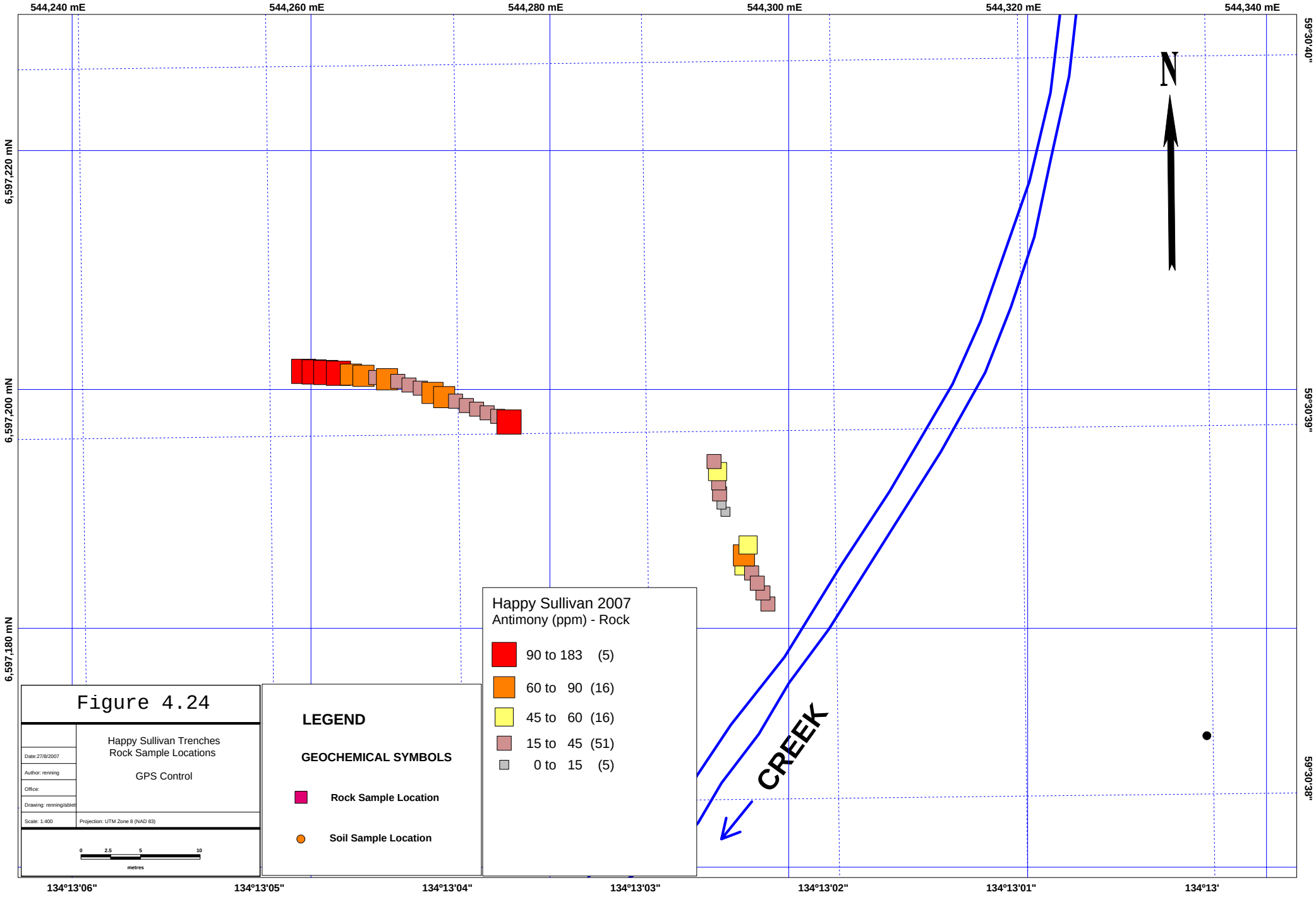

543,680 mE
543,690 mE
543,700 mE
543,710 mE
543,720 mE
6,595,990 mN
6,595,980 mN
6,595,970 mN
6,595,960 mN
59°30'
134°13'43"
134°13'42"
134°13'41"
134°13'40"
N
Happy Sullivan 2007
Barium (ppm) - Rock
850 to 1,430 (6)
650 to 850 (7)
550 to 650 (9)
300 to 550 (50)
0 to 300 (21)
Happy Sullivan 2007
Barium (ppm) - Soil
160 to 250 (6)
130 to 160 (24)
0 to 130 (124)
Figure 4.19
Sweepstake Pit 2
Rock & Soil Sample Results
GPS Control
Date:21/8/2007
Author: renning
Office:
Drawing:
Scale: 1:200
Projection: UTM Zone 8 (NAD 83)
0 2 4 8
metres

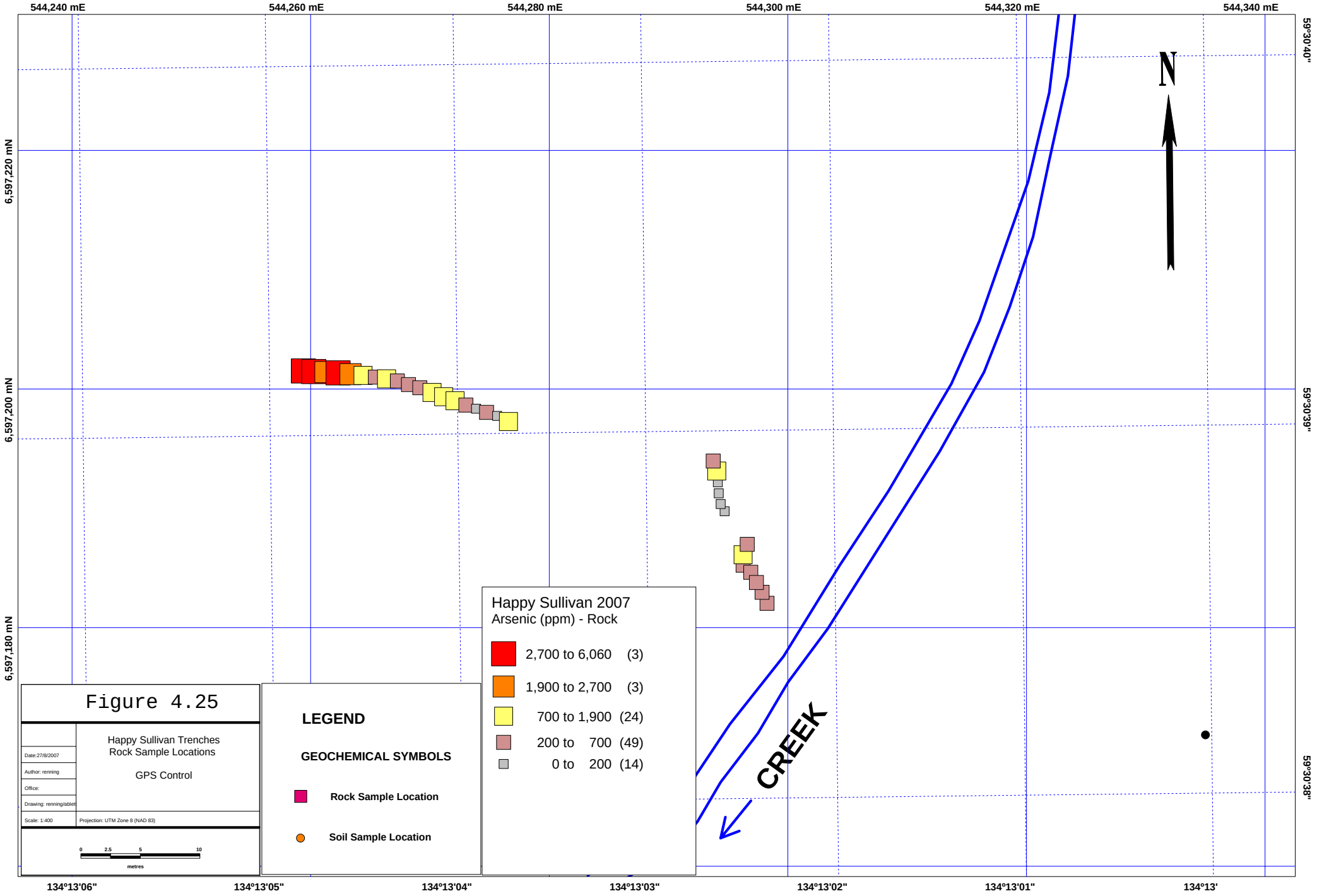

543,680 mE
543,690 mE
543,700 mE
543,710 mE
543,720 mE
6,595,990 mN
6,595,980 mN
6,595,970 mN
6,595,960 mN
59°30'
N
134°13'43"
134°13'42"
134°13'41"
134°13'40"
Happy Sulivan 2007
Gold (ppm) - Soil
0.45 to 3.35 (3)
0.11 to 0.45 (3)
0.04 to 0.11 (5)
0.01 to 0.04 (25)
0 to 0.01 (118)
Happy Sullivan 2007
Gold (ppm) - Rock
0.75 to 1.1 (6)
0.6 to 0.75 (2)
0.3 to 0.6 (17)
0.15 to 0.3 (29)
0 to 0.15 (38)
all others (1)
Figure 4.20
Sweepstake Pit 2
Rock & Soil Sample Results
GPS Control
Date:18/8/2007
Author: renning
Office:
Drawing:
Scale: 1:200
Projection: UTM Zone 8 (NAD 83)
0 2 4 8
metres

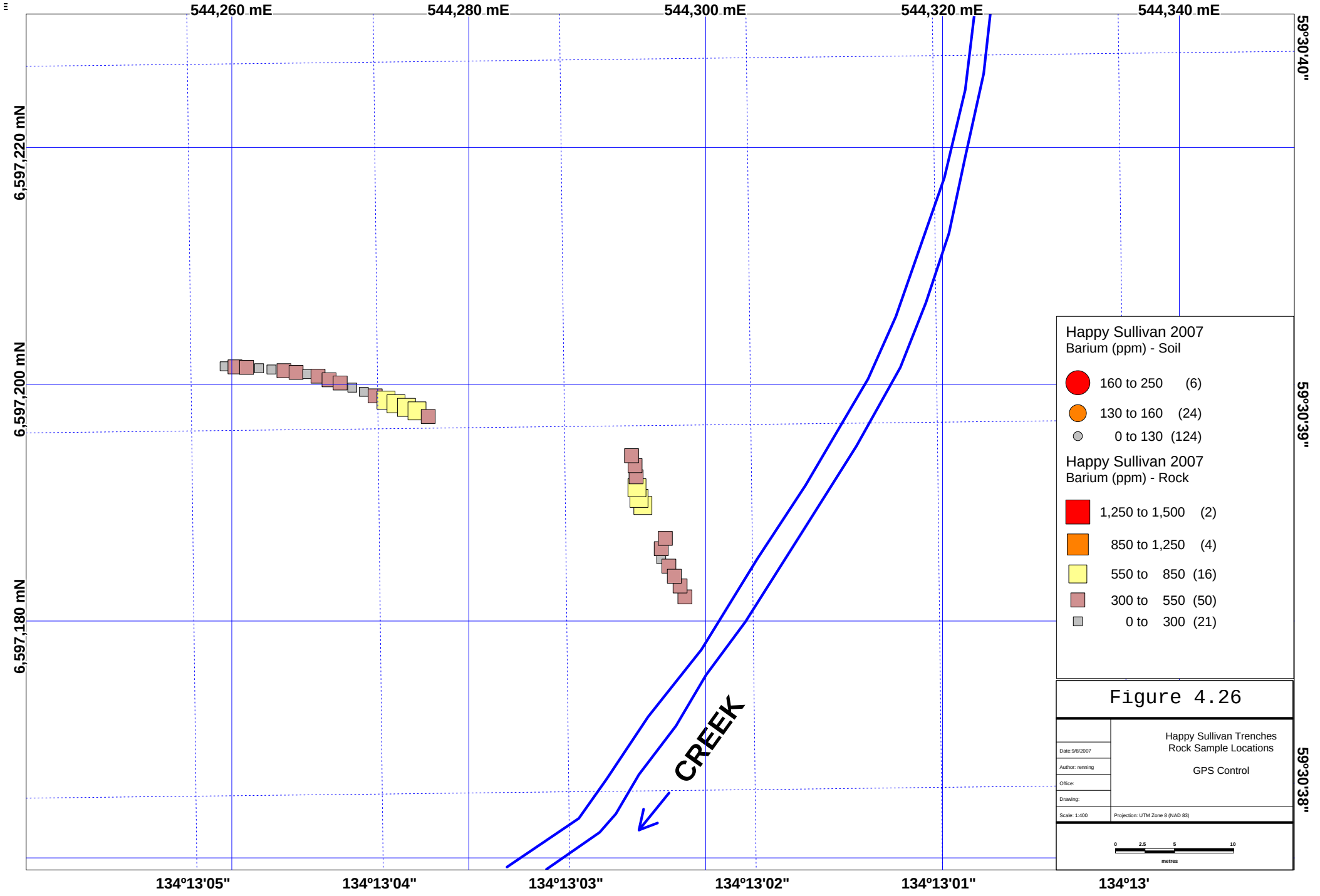

543,680 mE
543,690 mE
543,700 mE
543,710 mE
543,720 mE
6,595,990 mN
6,595,980 mN
6,595,970 mN
6,595,960 mN
59°30'
N
134°13'43"
134°13'42"
134°13'41"
134°13'40"
Happy Sullivan 2007
Silver (ppm) - Soil
0.75 to 1.48 (3)
0.45 to 0.75 (10)
0.35 to 0.45 (7)
0.2 to 0.35 (32)
0 to 0.2 (102)
Happy Sullivan 2007
Silver (ppm) - Rock
7 to 14.2 (3)
5 to 7 (5)
3 to 5 (12)
2 to 3 (17)
0 to 2 (56)
Figure 4.21
Sweepstake Pit 2
Rock & Soil Sample Results
GPS Control
Date:18/8/2007
Author: renning
Office:
Drawing:
Scale: 1:200
Projection: UTM Zone 8 (NAD 83)
0 2 4 8
metres

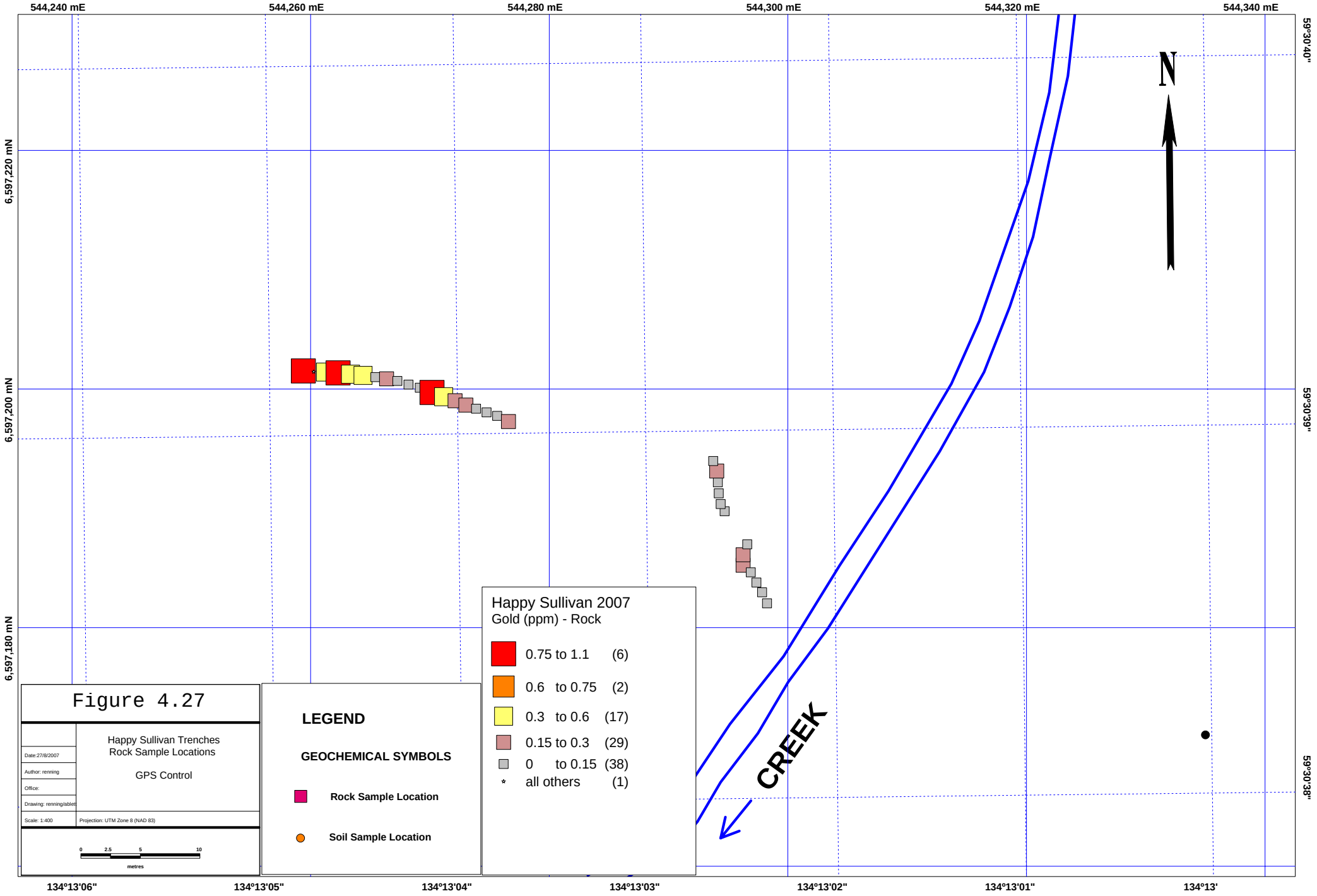

543,680 mE
543,690 mE
543,700 mE
543,710 mE
543,720 mE
6,595,990 mN
6,595,980 mN
6,595,970 mN
6,595,960 mN
59930'
N
Happy Sullivan 2007
Zinc (ppm) - Rock
400 to 1,040 (3)
260 to 400 (4)
180 to 260 (2)
100 to 180 (12)
60 to 100 (25)
0 to 60 (47)
Happy Sullivan 2007
Zinc (ppm) - Soil
350 to 450 (1)
210 to 350 (6)
160 to 210 (10)
120 to 160 (16)
100 to 120 (16)
0 to 100 (105)
Figure 4.22
Sweepstake Pit 2
Rock & Soil Sample Results
GPS Control
Date:21/8/2007
Author: renning
Office:
Drawing:
Scale: 1:200
Projection: UTM Zone 8 (NAD 83)
0 2 4 8
metres
134°13'43"
134°13'42"
134°13'41"
134°13'40"

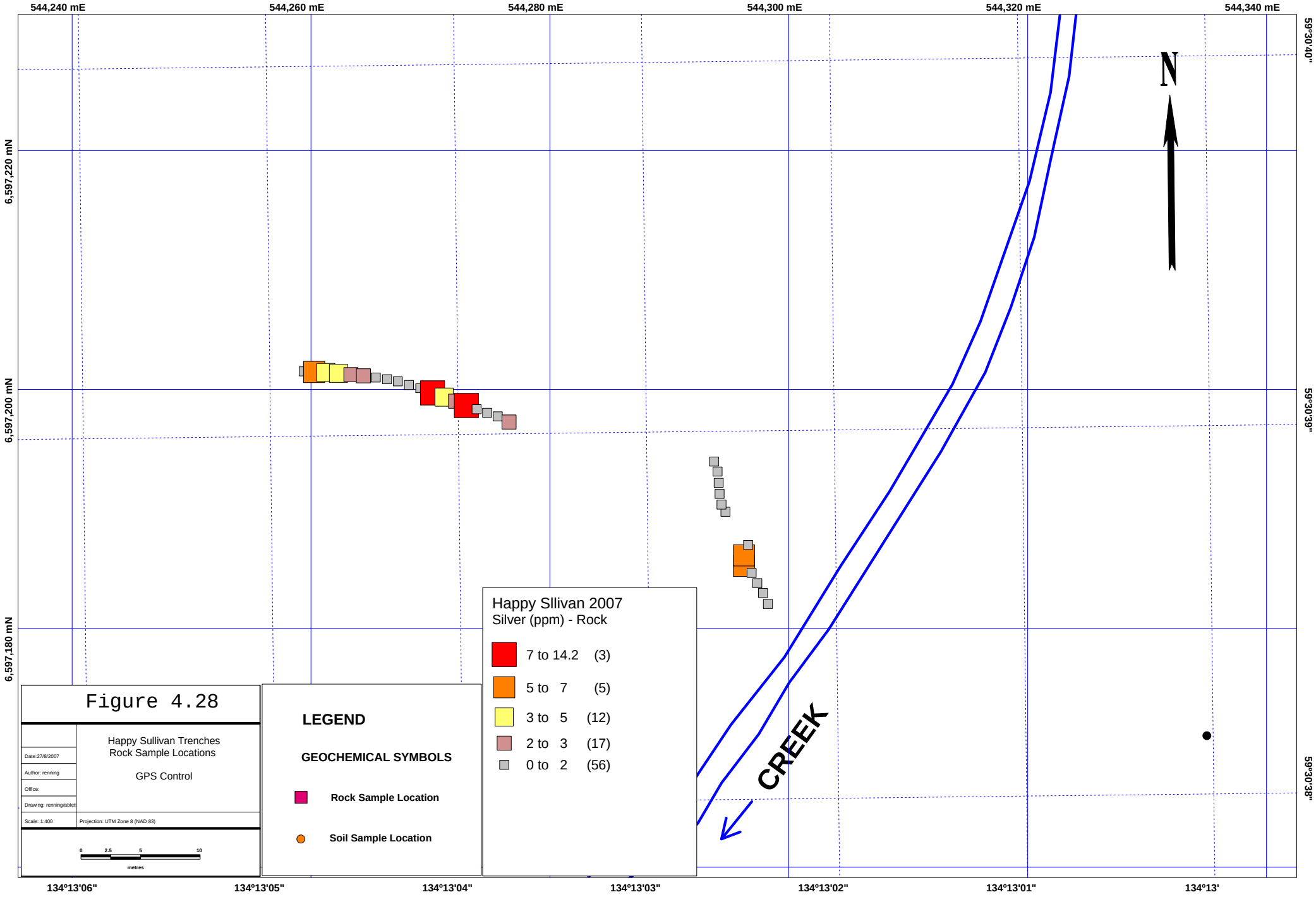

544,240 mE
544,260 mE
544,280 mE
544,300 mE
544,320 mE
544,340 mE
6,597,220 mN
6,597,200 mN
6,597,180 mN
59°30'40"
59°30'39"
59°30'38"
134°13'06"
134°13'05"
134°13'04"
134°13'03"
134°13'02"
134°13'01"
134°13'
N
47444
47445
47446
47447
47443
47448
47442
47449
47441
48072
47440
47384
47383
47382
47381
48073
47380
48074
47379
47374
48076
47378
47373
48077
47377
47372
48078
47376
48079
47371
48080
48081
CREEK
Ei50
Figure 4.23
Happy Sullivan Trenches
Rock Sample Locations
GPS Control
Date:27/8/2007
Author: renning
Office:
Drawing: renning/ablett
Scale: 1:400
Projection: UTM Zone 8 (NAD 83)
0 2.5 5 10
metres
LEGEND
GEOCHEMICAL SYMBOLS
Rock Sample Location
Soil Sample Location

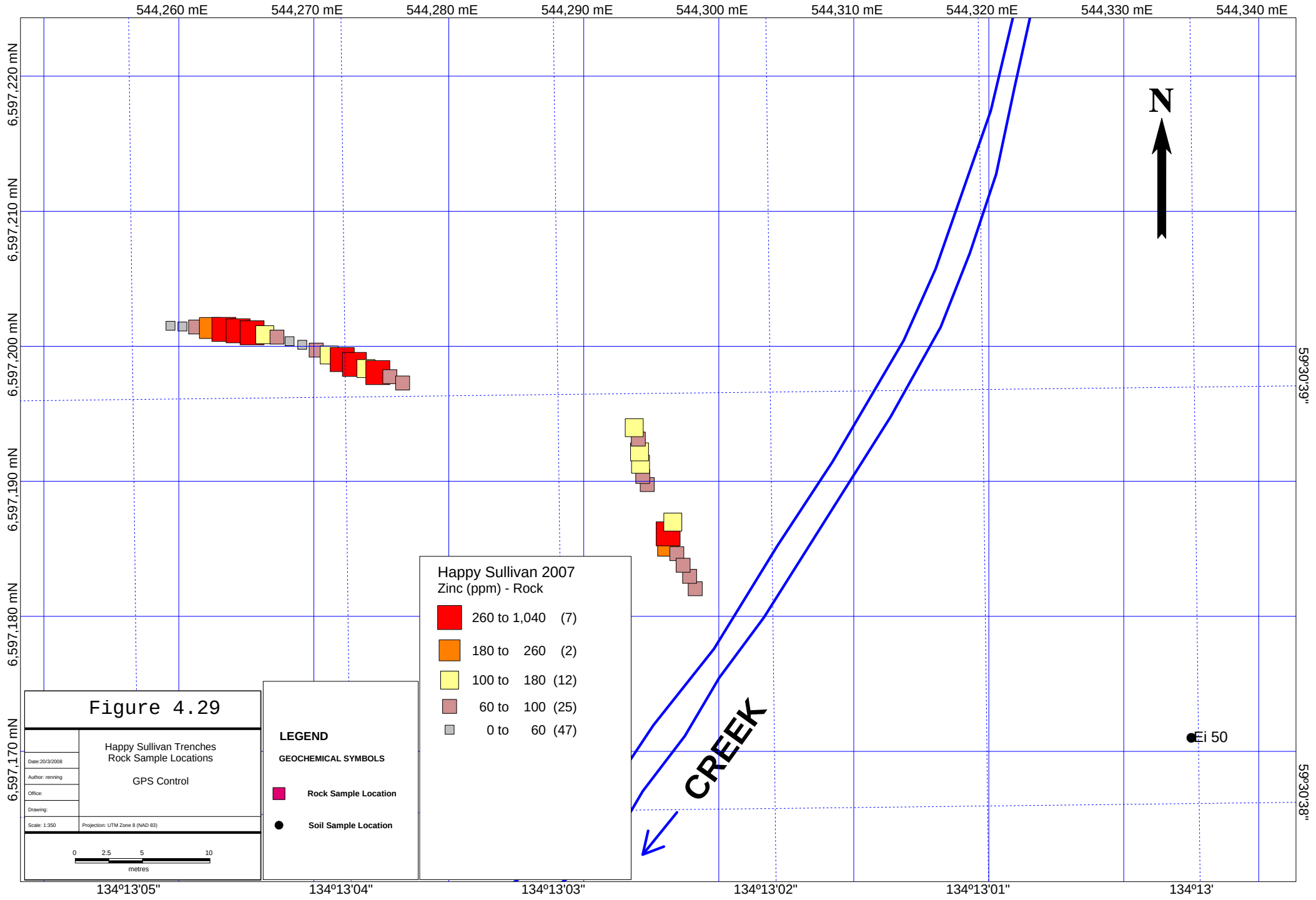

544,240 mE
544,260 mE
544,280 mE
544,300 mE
544,320 mE
544,340 mE
6,597,220 mN
6,597,200 mN
6,597,180 mN
59°30'40"
59°30'39"
59°30'38"
134°13'06"
134°13'05"
134°13'04"
134°13'03"
134°13'02"
134°13'01"
134°13'
N
CREEK
Happy Sullivan 2007
Antimony (ppm) - Rock
90 to 183 (5)
60 to 90 (16)
45 to 60 (16)
15 to 45 (51)
0 to 15 (5)
LEGEND
GEOCHEMICAL SYMBOLS
Rock Sample Location
Soil Sample Location
Figure 4.24
Happy Sullivan Trenches
Rock Sample Locations
GPS Control
Date:27/8/2007
Author: renning
Office:
Drawing: renning/ablett
Scale: 1:400
Projection: UTM Zone 8 (NAD 83)
0 2.5 5 10
metres


544,240 mE
544,260 mE
544,280 mE
544,300 mE
544,320 mE
544,340 mE
6,597,220 mN
6,597,200 mN
6,597,180 mN
59°30'40"
59°30'39"
59°30'38"
134°13'06"
134°13'05"
134°13'04"
134°13'03"
134°13'02"
134°13'01"
134°13'
N
CREEK
Happy Sullivan 2007
Arsenic (ppm) - Rock
2,700 to 6,060 (3)
1,900 to 2,700 (3)
700 to 1,900 (24)
200 to 700 (49)
0 to 200 (14)
LEGEND
GEOCHEMICAL SYMBOLS
Rock Sample Location
Soil Sample Location
Figure 4.25
Happy Sullivan Trenches
Rock Sample Locations
GPS Control
Date:27/8/2007
Author: renning
Office:
Drawing: renning/ablett
Scale: 1:400
Projection: UTM Zone 8 (NAD 83)
0 2.5 5 10
metres


544,260 mE
544,280 mE
544,300 mE
544,320 mE
544,340 mE
6,597,220 mN
6,597,200 mN
6,597,180 mN
59°30'40"
59°30'39"
59°30'38"
134°13'05"
134°13'04"
134°13'03"
134°13'02"
134°13'01"
134°13'
CREEK
Happy Sullivan 2007
Barium (ppm) - Soil
160 to 250 (6)
130 to 160 (24)
0 to 130 (124)
Happy Sullivan 2007
Barium (ppm) - Rock
1,250 to 1,500 (2)
850 to 1,250 (4)
550 to 850 (16)
300 to 550 (50)
0 to 300 (21)
Figure 4.26
Happy Sullivan Trenches
Rock Sample Locations
GPS Control
Date:9/8/2007
Author: renning
Office:
Drawing:
Scale: 1:400
Projection: UTM Zone 8 (NAD 83)
0 2.5 5 10
metres


544,240 mE
544,260 mE
544,280 mE
544,300 mE
544,320 mE
544,340 mE
6,597,220 mN
6,597,200 mN
6,597,180 mN
59°30'40"
59°30'39"
59°30'38"
134°13'06"
134°13'05"
134°13'04"
134°13'03"
134°13'02"
134°13'01"
134°13'
N
CREEK
Happy Sullivan 2007
Gold (ppm) - Rock
0.75 to 1.1 (6)
0.6 to 0.75 (2)
0.3 to 0.6 (17)
0.15 to 0.3 (29)
0 to 0.15 (38)
all others (1)
LEGEND
GEOCHEMICAL SYMBOLS
Rock Sample Location
Soil Sample Location
Figure 4.27
Happy Sullivan Trenches
Rock Sample Locations
GPS Control
Date:27/8/2007
Author: renning
Office:
Drawing: renning/ablett
Scale: 1:400
Projection: UTM Zone 8 (NAD 83)
0 2.5 5 10
metres


544,240 mE
544,260 mE
544,280 mE
544,300 mE
544,320 mE
544,340 mE
6,597,220 mN
6,597,200 mN
6,597,180 mN
59°30'40"
59°30'39"
59°30'38"
134°13'06"
134°13'05"
134°13'04"
134°13'03"
134°13'02"
134°13'01"
134°13'
N
CREEK
Happy Sllivan 2007
Silver (ppm) - Rock
7 to 14.2 (3)
5 to 7 (5)
3 to 5 (12)
2 to 3 (17)
0 to 2 (56)
LEGEND
GEOCHEMICAL SYMBOLS
Rock Sample Location
Soil Sample Location
Figure 4.28
Happy Sullivan Trenches
Rock Sample Locations
GPS Control
Date:27/8/2007
Author: renning
Office:
Drawing: renning/ablett
Scale: 1:400
Projection: UTM Zone 8 (NAD 83)
0 2.5 5 10
metres


544,260 mE
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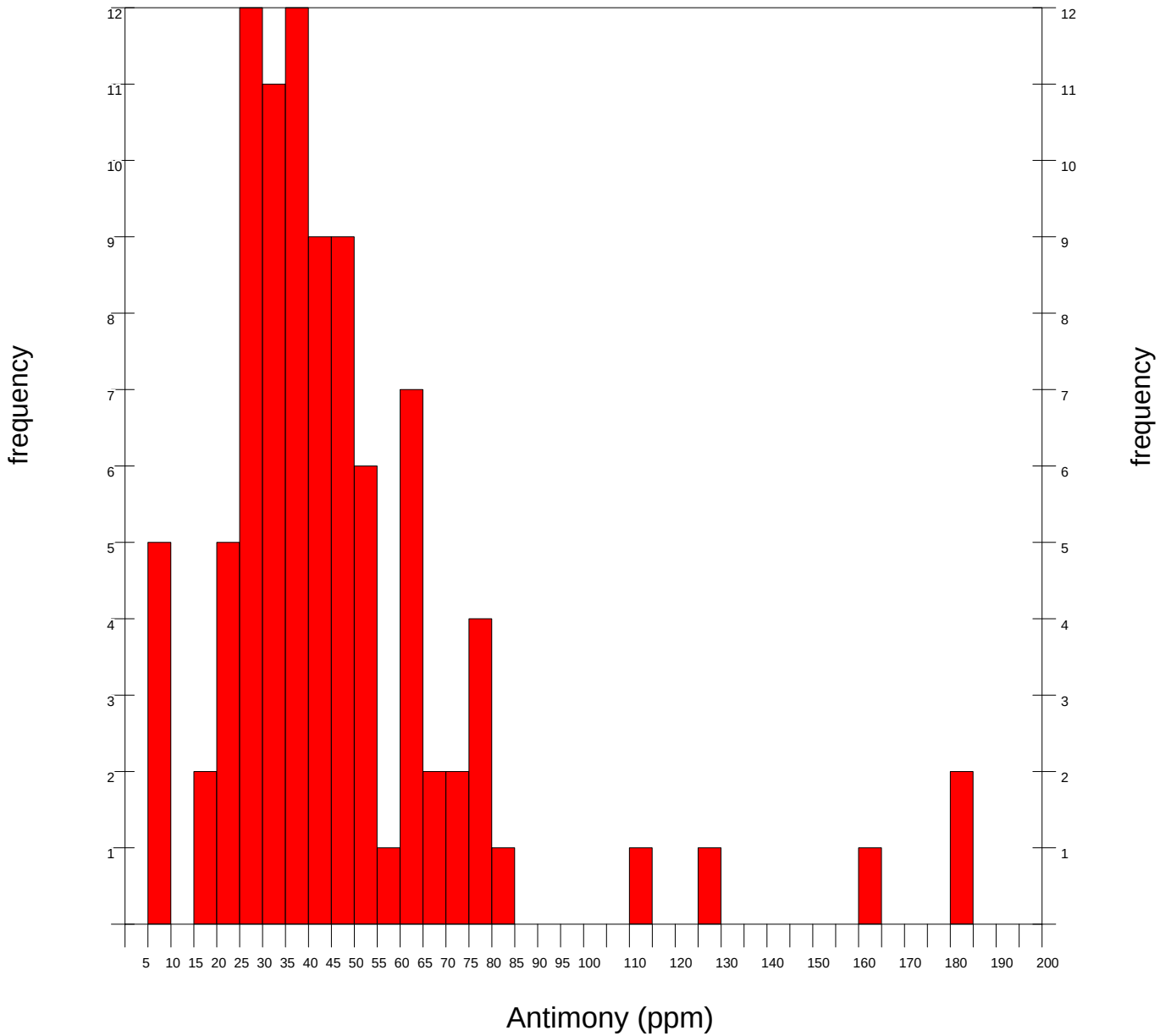
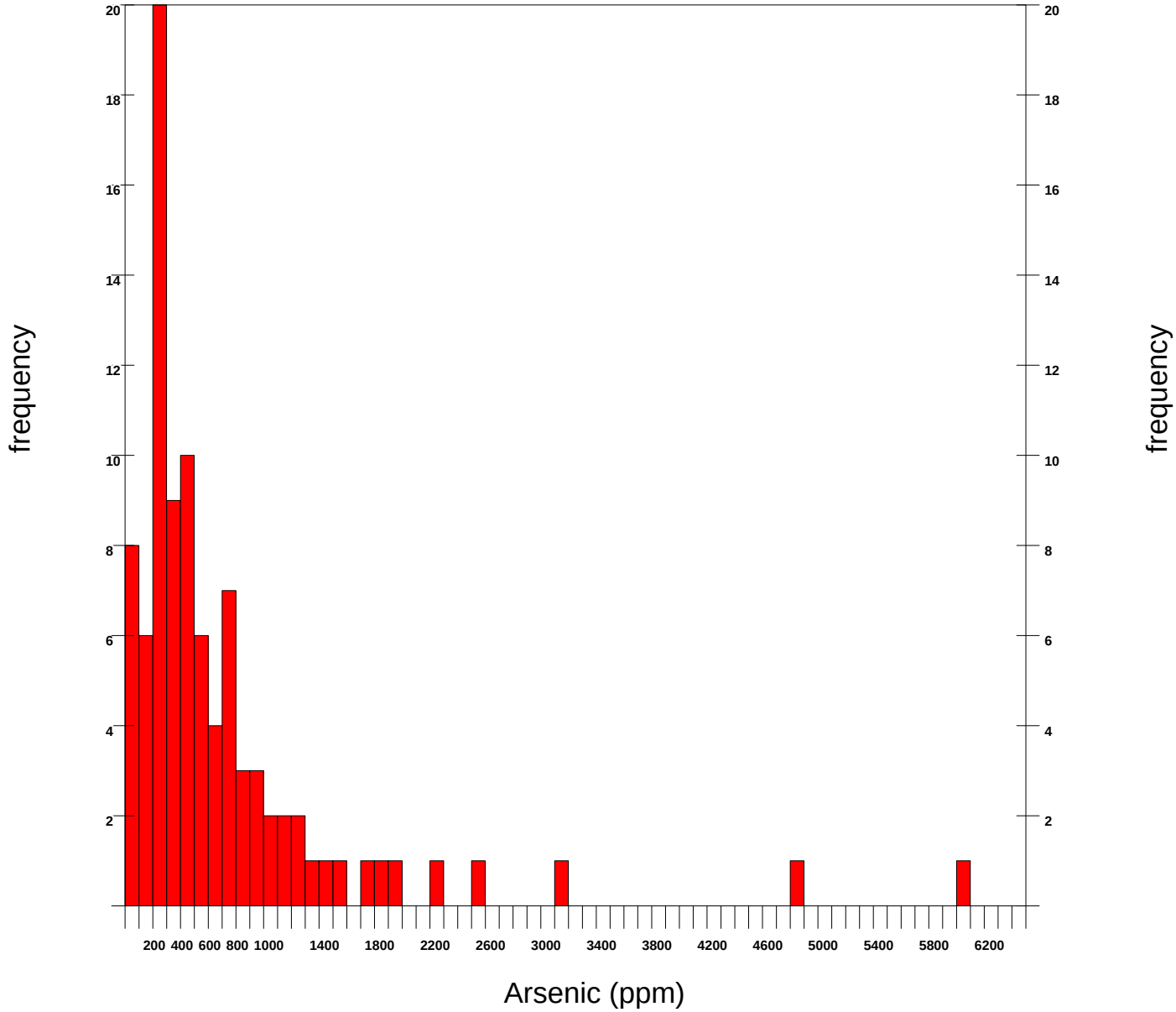
544,280 mE
544,290 mE
544,300 mE
544,310 mE
544,320 mE
544,330 mE
544,340 mE
6,597,220 mN
6,597,210 mN
6,597,200 mN
6,597,190 mN
6,597,180 mN
6,597,170 mN
59°30'39"
59°30'38"
134°13'05"
134°13'04"
134°13'03"
134°13'02"
134°13'01"
134°13'
N
CREEK
Ei 50
Happy Sullivan 2007
Zinc (ppm) - Rock
260 to 1,040 (7)
180 to 260 (2)
100 to 180 (12)
60 to 100 (25)
0 to 60 (47)
LEGEND
GEOCHEMICAL SYMBOLS
Rock Sample Location
Soil Sample Location
Figure 4.29
Happy Sullivan Trenches
Rock Sample Locations
GPS Control
Date:20/3/2008
Author: renning
Office:
Drawing:
Scale: 1:350
Projection: UTM Zone 8 (NAD 83)
0 2.5 5 10
metres

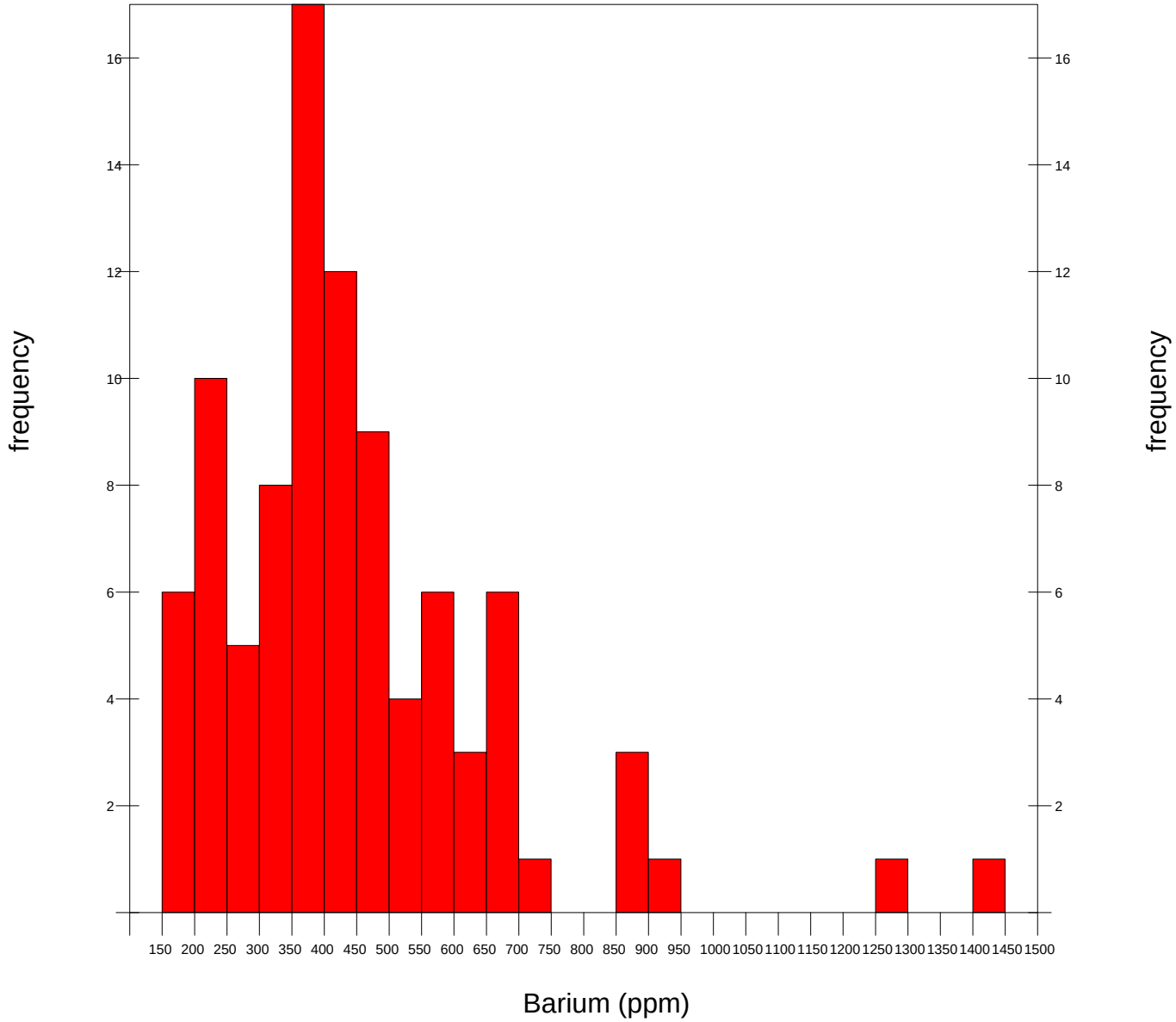
Happy Sullivan Rock Antimony Statistics



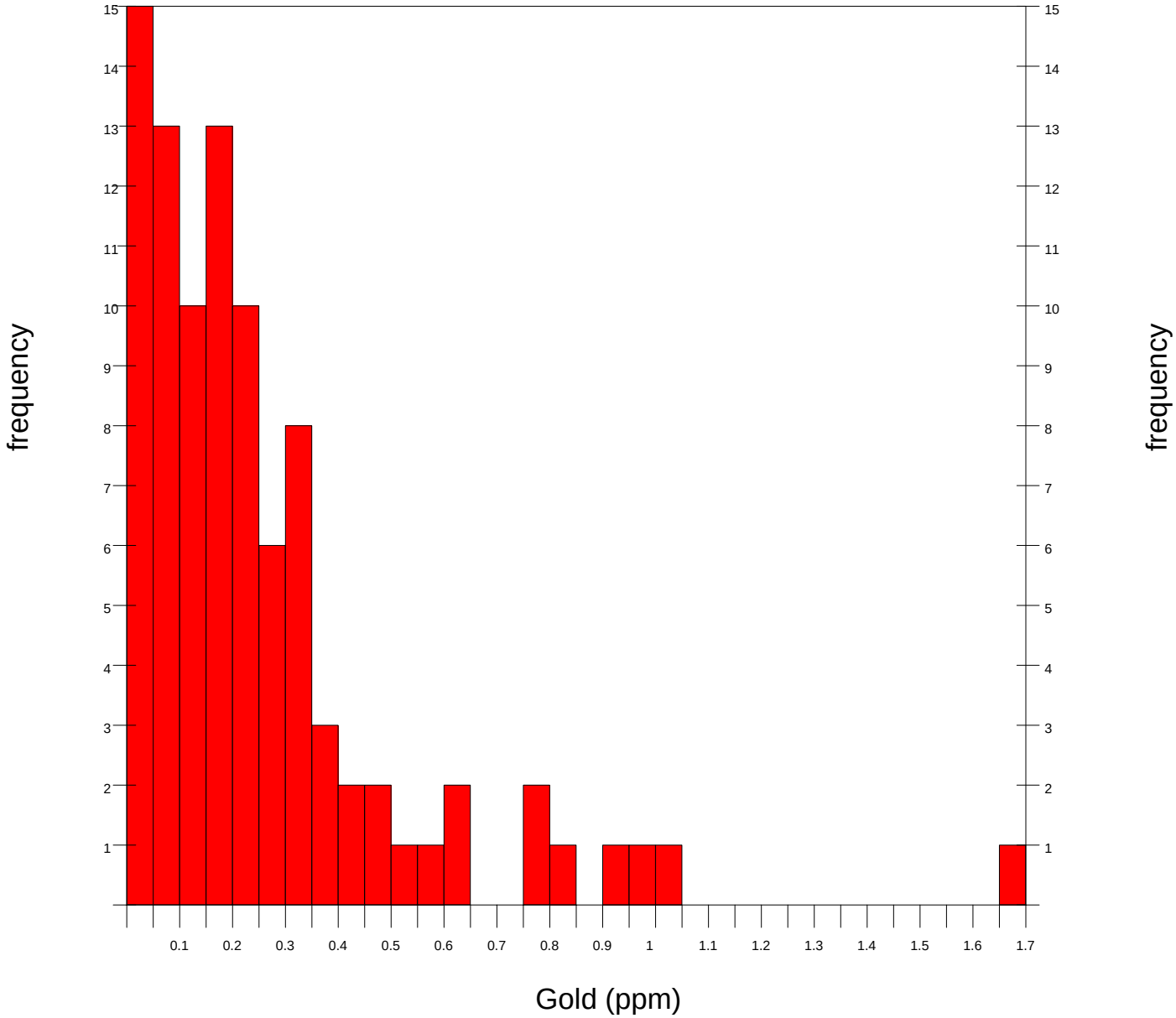
Happy Sullivan Rock Arsenic Statistics



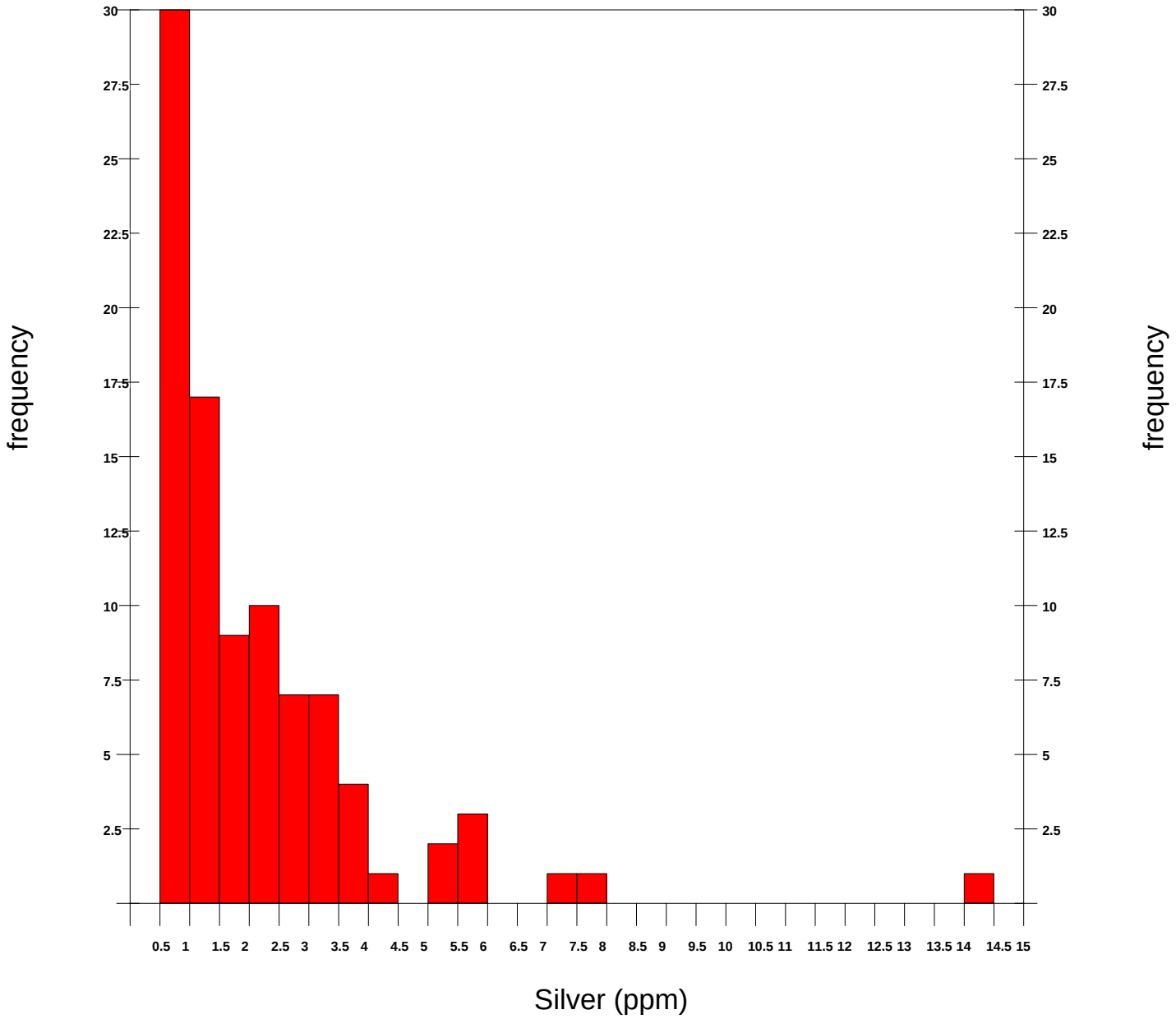
Happy Sullivan Rock Barium Statistics



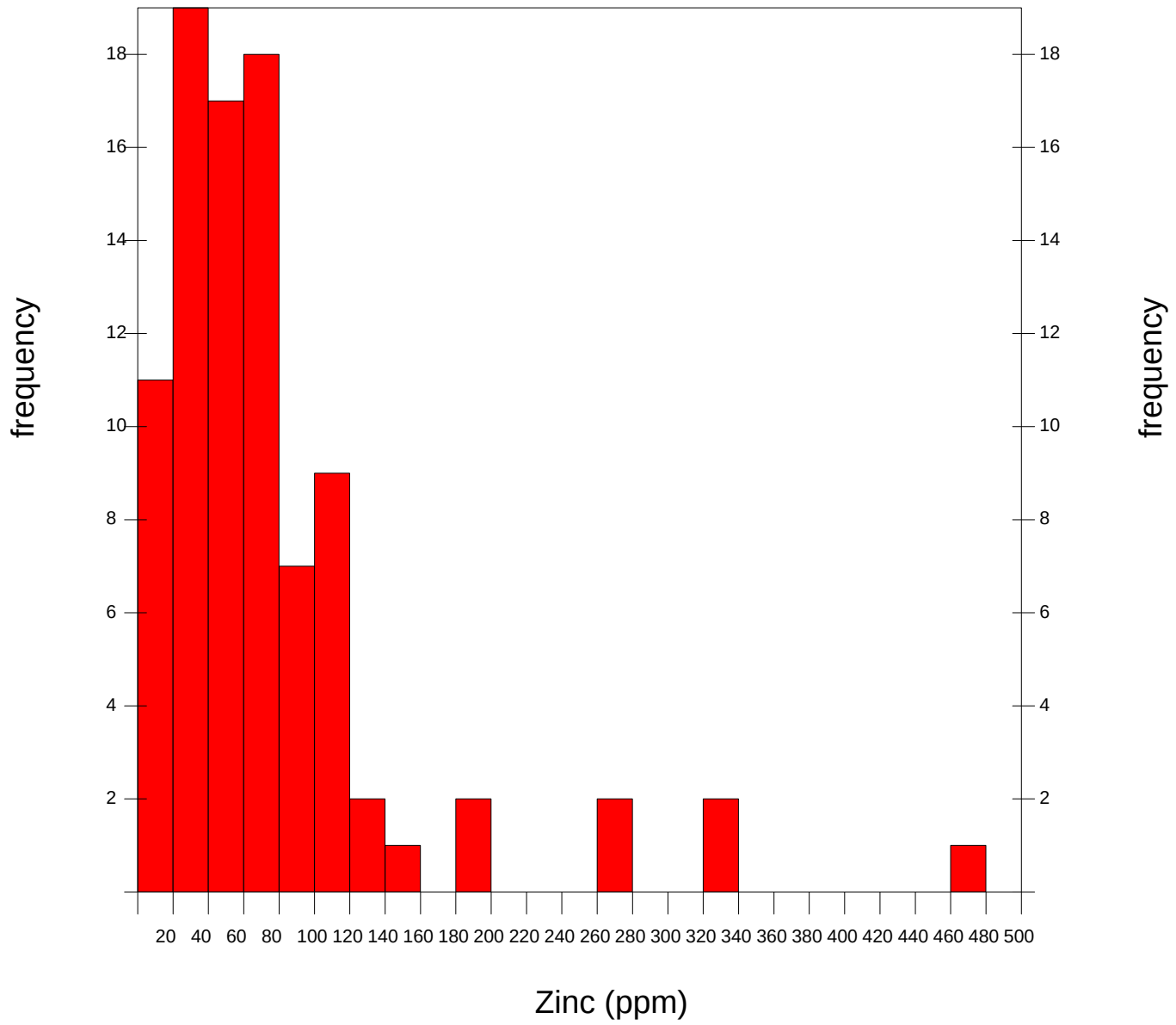
Happy Sullivan Rock Gold Statistics

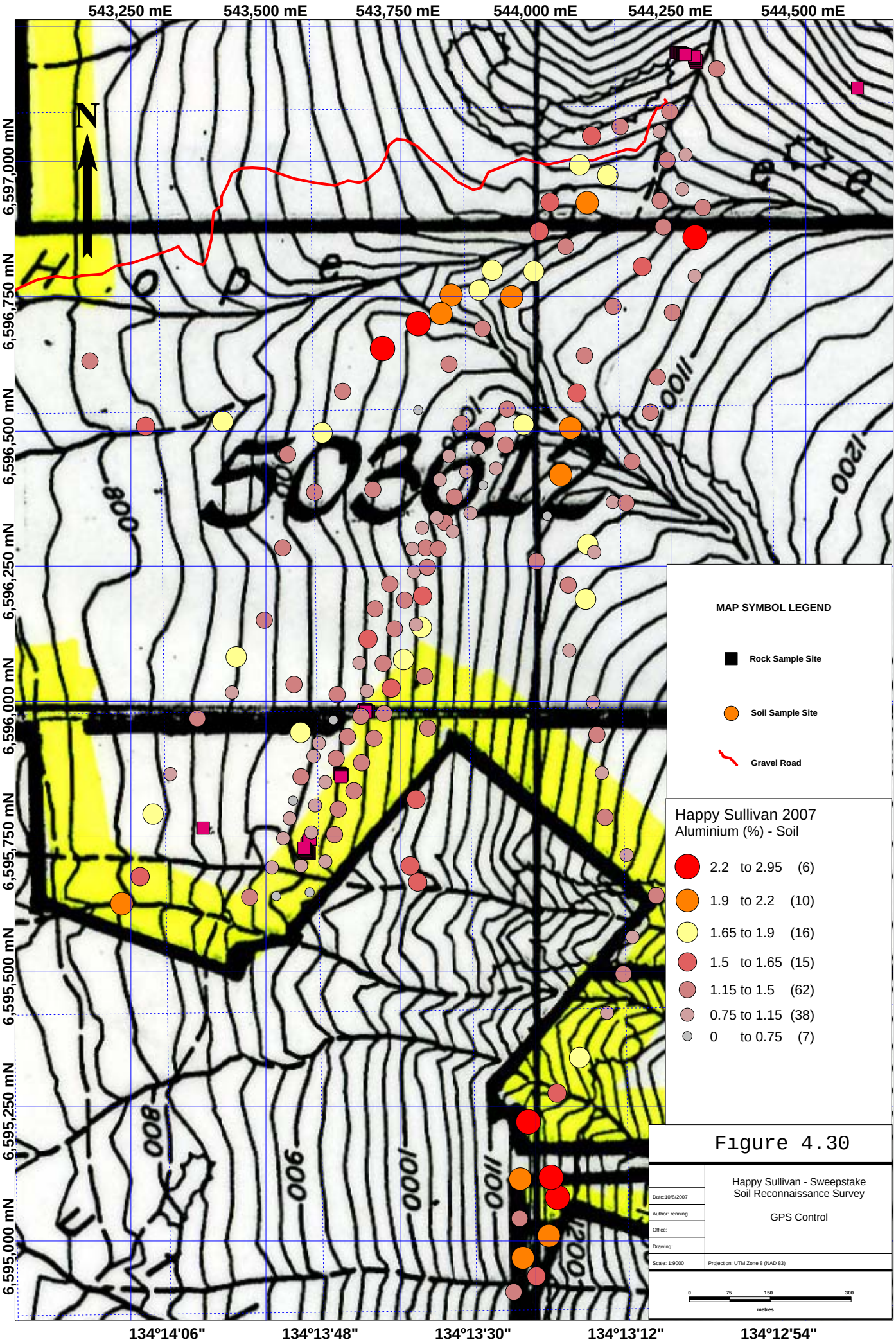


Happy Sullivan Rock Silver Statistics



Happy Sullivan Rock Zinc Statistics

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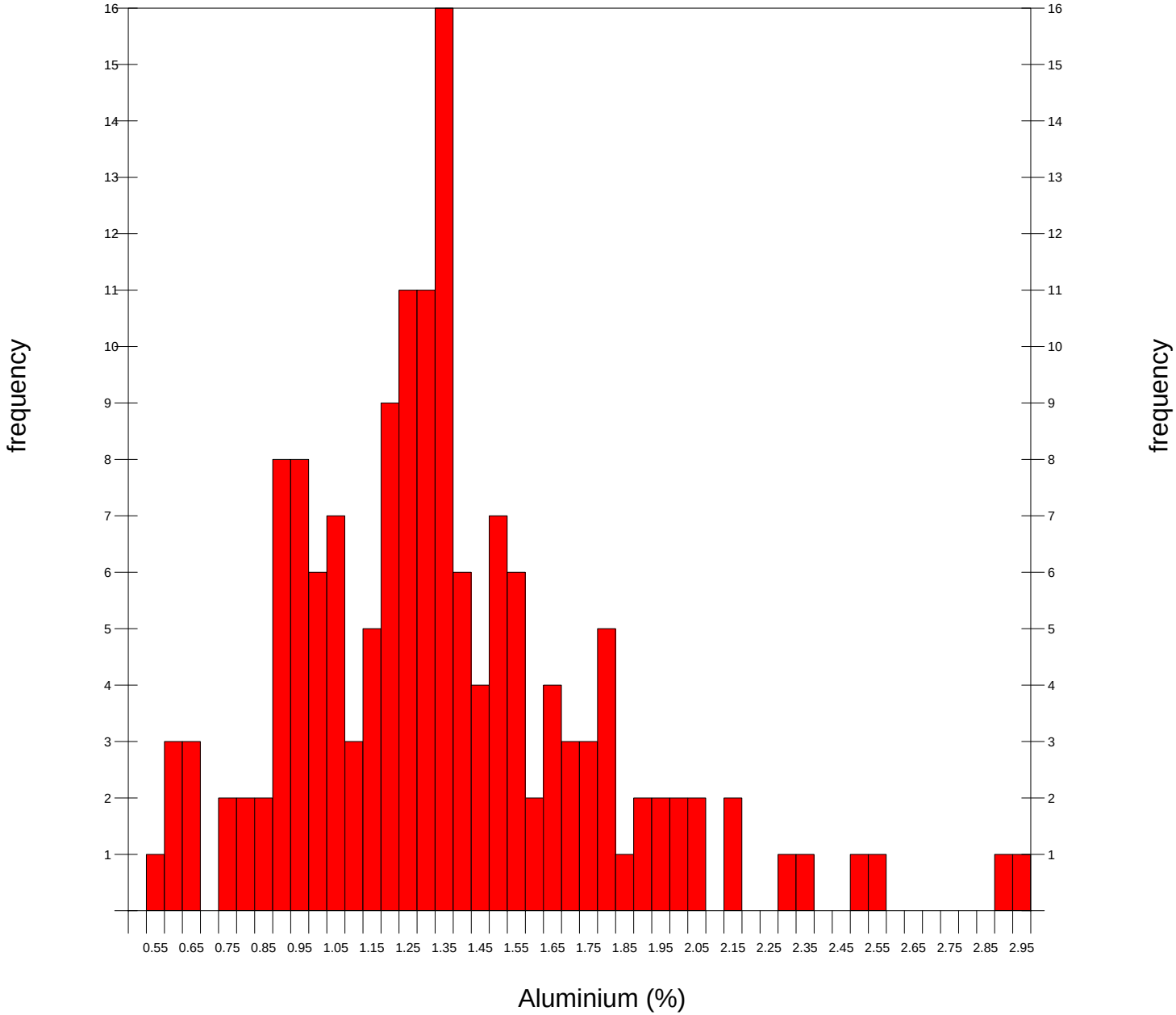
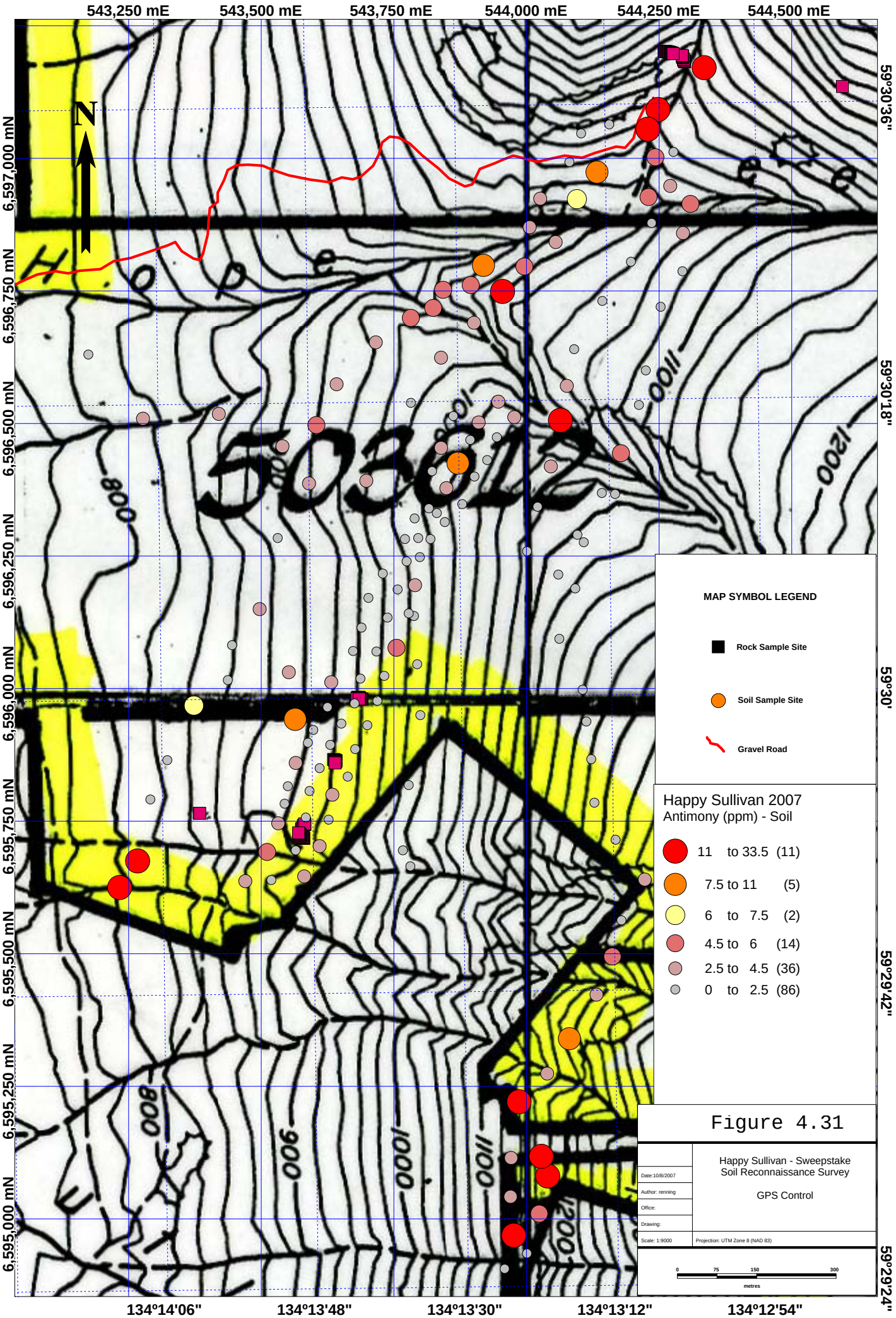
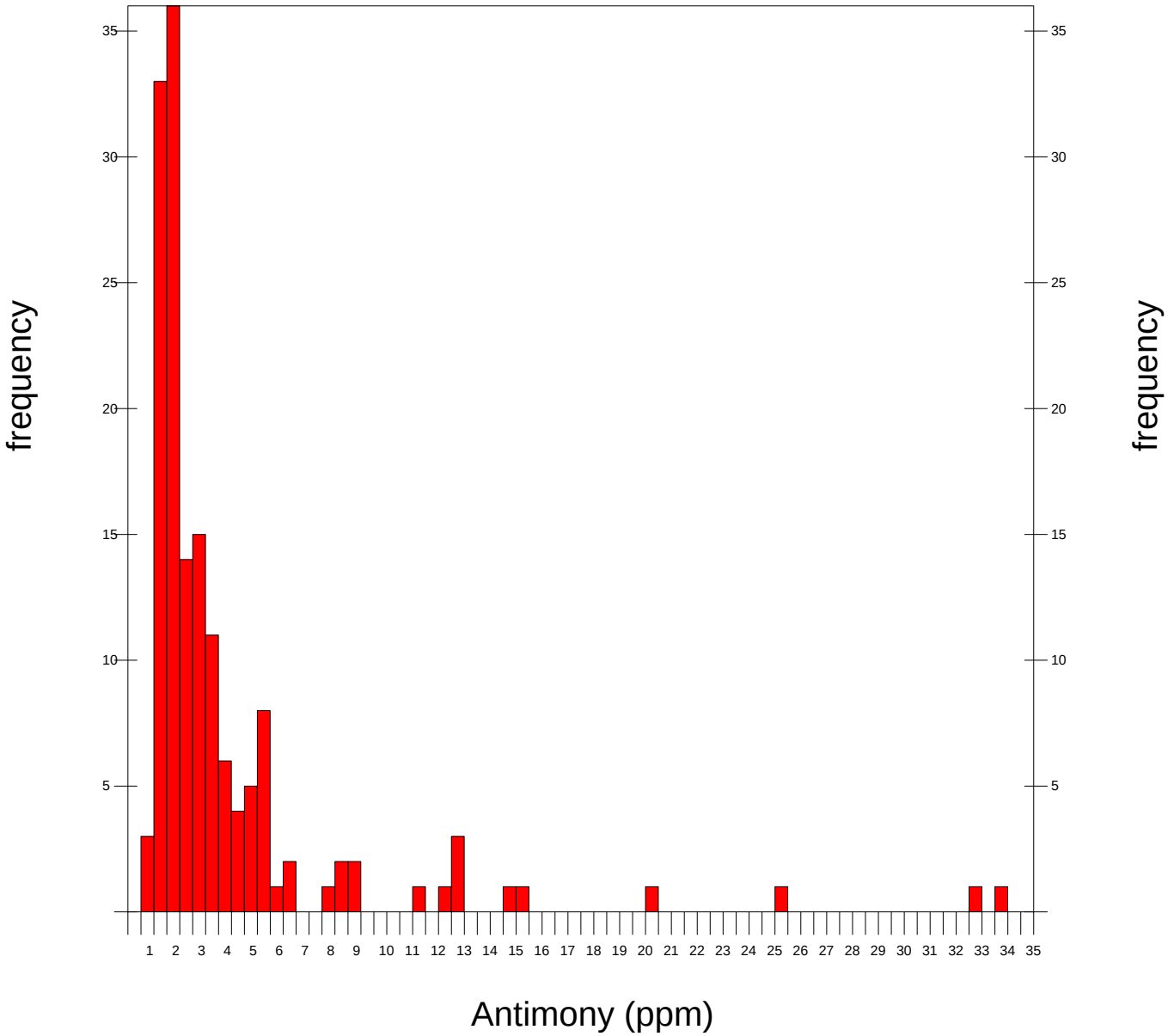
543,500 mE
543,750 mE
544,000 mE
544,250 mE
544,500 mE
6,597,000 mN
6,596,750 mN
6,596,500 mN
6,596,250 mN
6,596,000 mN
6,595,750 mN
6,595,500 mN
6,595,250 mN
6,595,000 mN
59°30'36"
59°30'18"
59°30'
59°29'42"
59°29'24"
134°14'06"
134°13'48"
134°13'30"
134°13'12"
134°12'54"
N
Hope
Hope
800
900
1000
1100
1200
MAP SYMBOL LEGEND
Rock Sample Site
Soil Sample Site
Gravel Road
Happy Sullivan 2007
Aluminium (%) - Soil
2.2 to 2.95 (6)
1.9 to 2.2 (10)
1.65 to 1.9 (16)
1.5 to 1.65 (15)
1.15 to 1.5 (62)
0.75 to 1.15 (38)
0 to 0.75 (7)
Figure 4.30
Happy Sullivan - Sweepstake
Soil Reconnaissance Survey
GPS Control
Date:10/8/2007
Author: renning
Office:
Drawing:
Scale: 1:9000
Projection: UTM Zone 8 (NAD 83)
0
75
150
300
metres

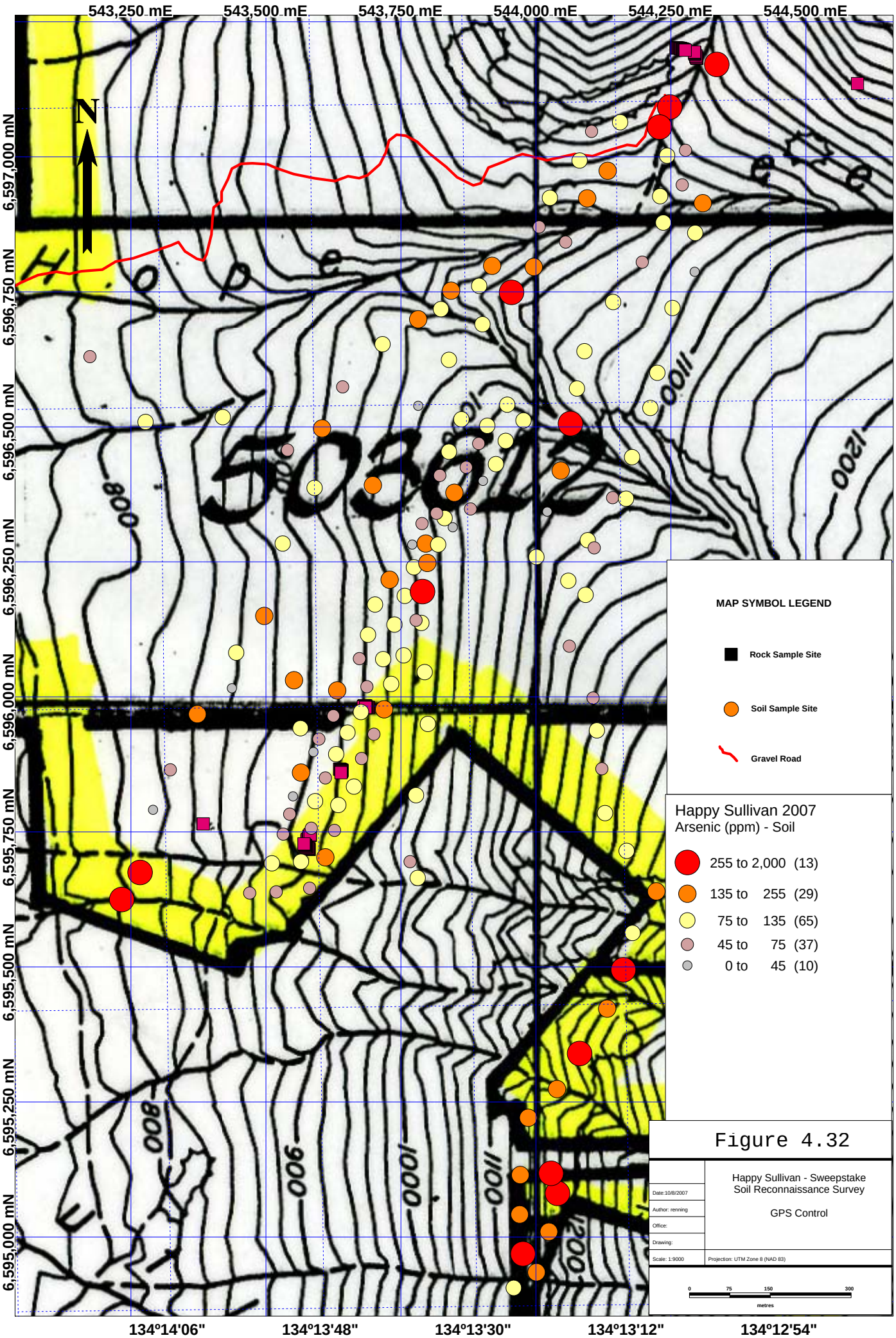
Happy Sullivan Soil Aluminium Statistics



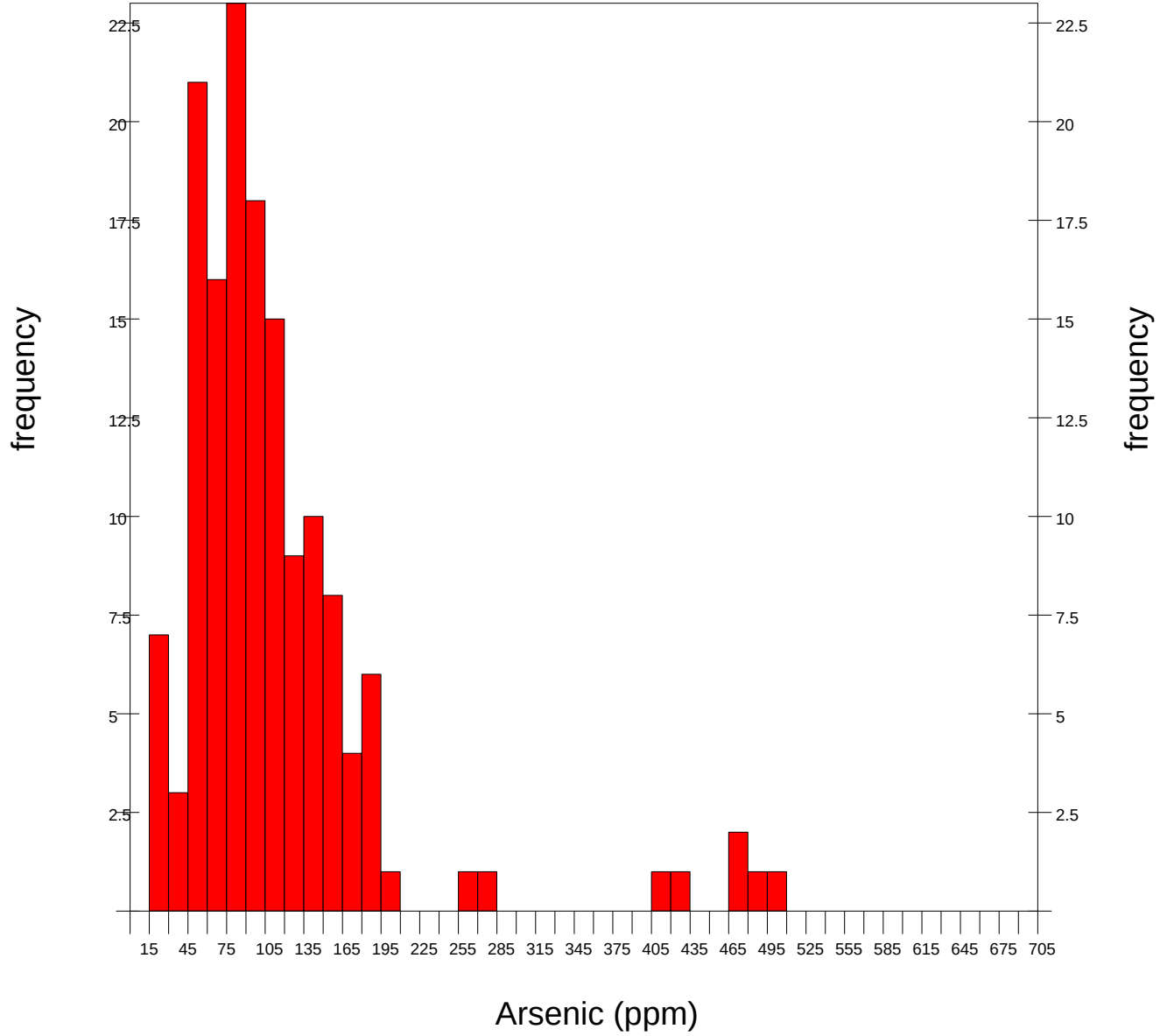

543,250 mE
543,500 mE
543,750 mE
544,000 mE
544,250 mE
544,500 mE
6,597,000 mN
6,596,750 mN
6,596,500 mN
6,596,250 mN
6,596,000 mN
6,595,750 mN
6,595,500 mN
6,595,250 mN
6,595,000 mN
59°30'36"
59°30'18"
59°30'
59°29'42"
59°29'24"
134°14'06"
134°13'48"
134°13'30"
134°13'12"
134°12'54"
N
Hope
MAP SYMBOL LEGEND
Rock Sample Site
Soil Sample Site
Gravel Road
Happy Sullivan 2007
Antimony (ppm) - Soil
11 to 33.5 (11)
7.5 to 11 (5)
6 to 7.5 (2)
4.5 to 6 (14)
2.5 to 4.5 (36)
0 to 2.5 (86)
Figure 4.31
Happy Sullivan - Sweepstake
Soil Reconnaissance Survey
GPS Control
Date:10/8/2007
Author: renning
Office:
Drawing:
Scale: 1:9000
Projection: UTM Zone 8 (NAD 83)
0
75
150
300
metres

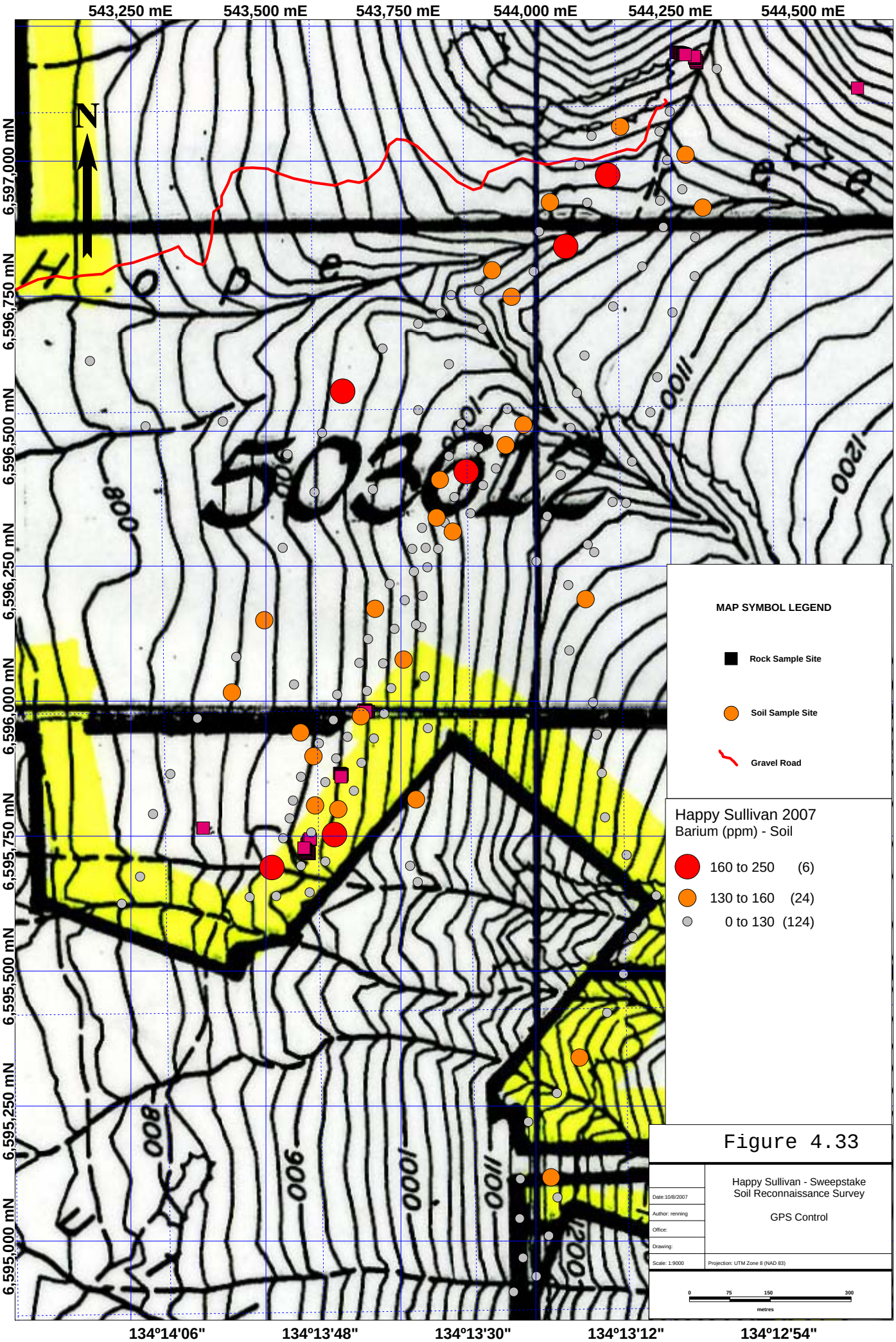
Happy Sullivan Soil Antimony Statistics



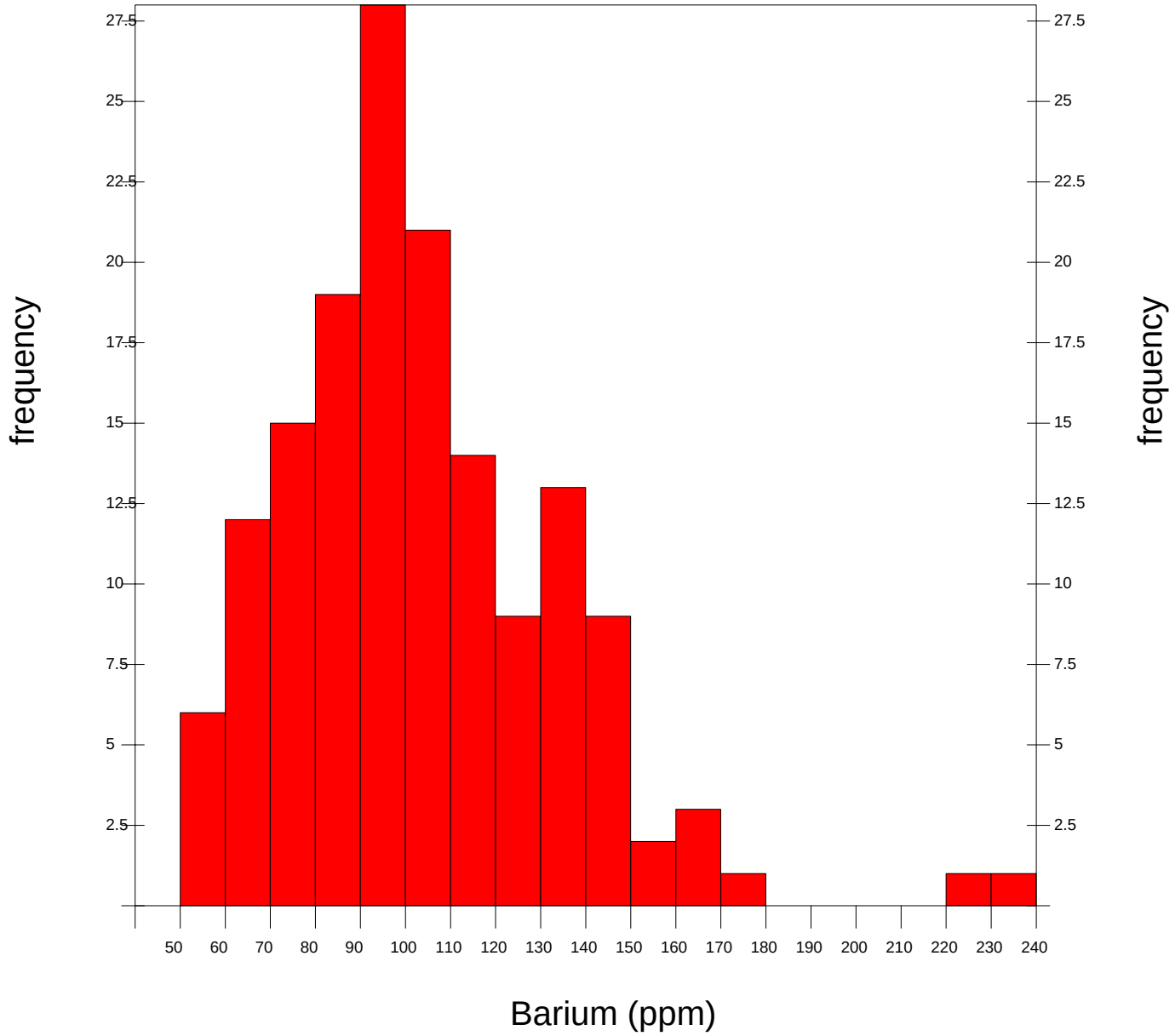

543,250 mE
543,500 mE
543,750 mE
544,000 mE
544,250 mE
544,500 mE
6,597,000 mN
6,596,750 mN
6,596,500 mN
6,596,250 mN
6,596,000 mN
6,595,750 mN
6,595,500 mN
6,595,250 mN
6,595,000 mN
59°30'36"
59°30'18"
59°30'
59°29'42"
59°29'24"
134°14'06"
134°13'48"
134°13'30"
134°13'12"
134°12'54"
N
Hope
Hope
800
900
1000
1100
1200
MAP SYMBOL LEGEND
Rock Sample Site
Soil Sample Site
Gravel Road
Happy Sullivan 2007
Arsenic (ppm) - Soil
255 to 2,000 (13)
135 to 255 (29)
75 to 135 (65)
45 to 75 (37)
0 to 45 (10)
Figure 4.32
Happy Sullivan - Sweepstake
Soil Reconnaissance Survey
GPS Control
Date:10/8/2007
Author: renning
Office:
Drawing:
Scale: 1:9000
Projection: UTM Zone 8 (NAD 83)
0
75
150
300
metres

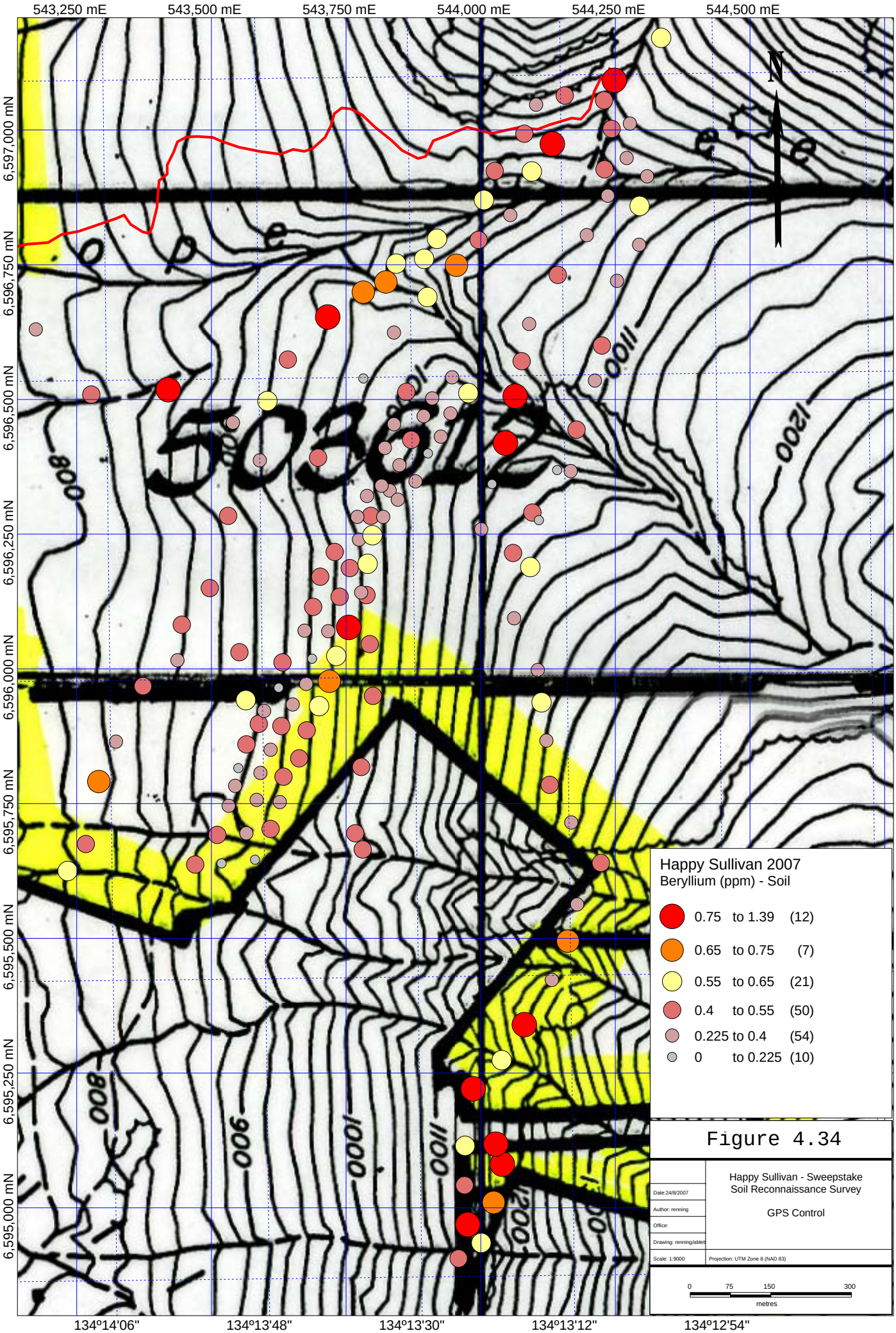
Happy Sullivan Soil Arsenic Statistics



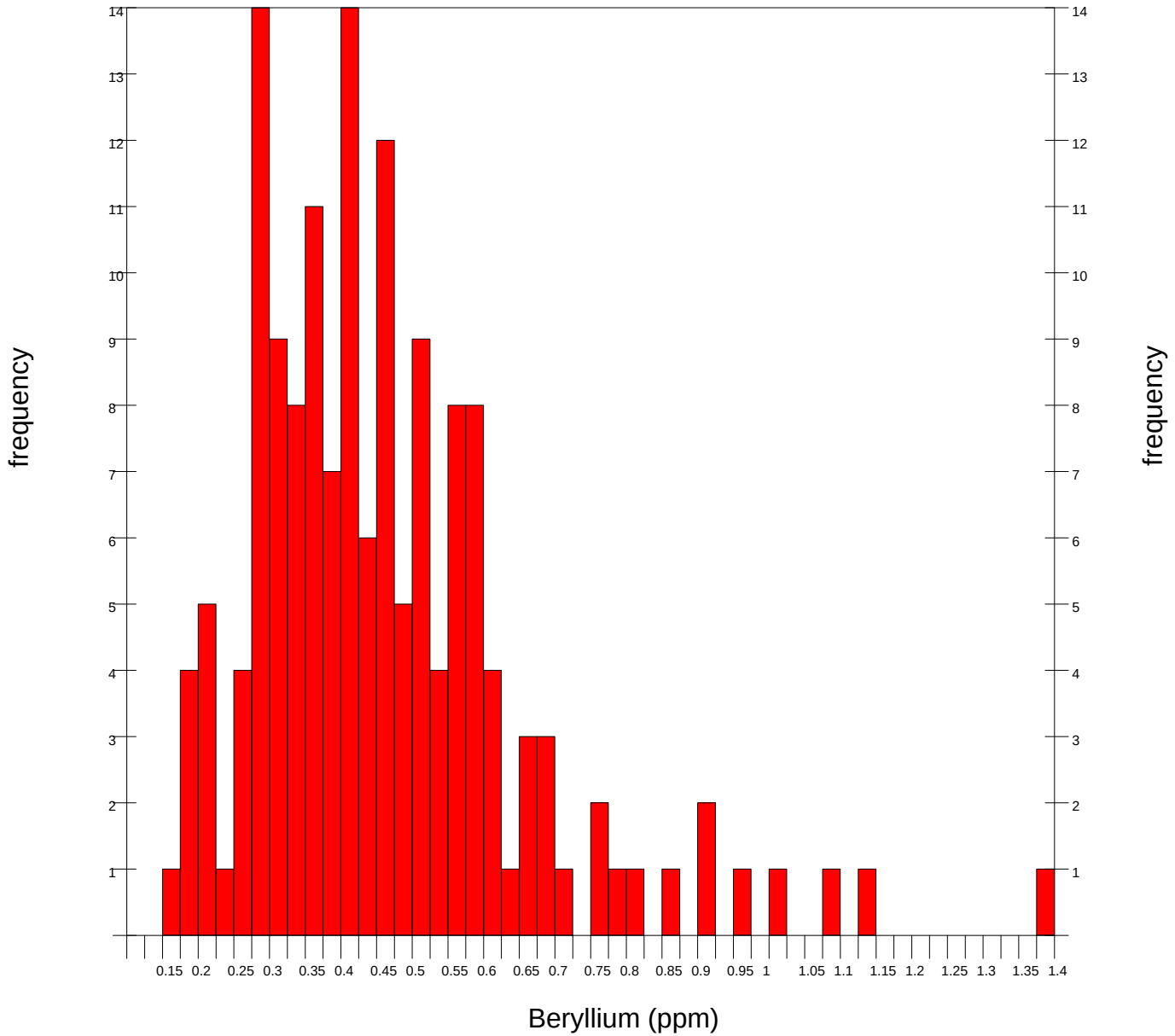

543,250 mE
543,500 mE
543,750 mE
544,000 mE
544,250 mE
544,500 mE
6,597,000 mN
6,596,750 mN
6,596,500 mN
6,596,250 mN
6,596,000 mN
6,595,750 mN
6,595,500 mN
6,595,250 mN
6,595,000 mN
59°30'36"
59°30'18"
59°30'
59°29'42"
59°29'24"
134°14'06"
134°13'48"
134°13'30"
134°13'12"
134°12'54"
N
Hope
MAP SYMBOL LEGEND
Rock Sample Site
Soil Sample Site
Gravel Road
Happy Sullivan 2007
Barium (ppm) - Soil
160 to 250 (6)
130 to 160 (24)
0 to 130 (124)
Figure 4.33
Happy Sullivan - Sweepstake
Soil Reconnaissance Survey
GPS Control
Date:10/8/2007
Author: renning
Office:
Drawing:
Scale: 1:9000
Projection: UTM Zone 8 (NAD 83)
0
75
150
300
metres

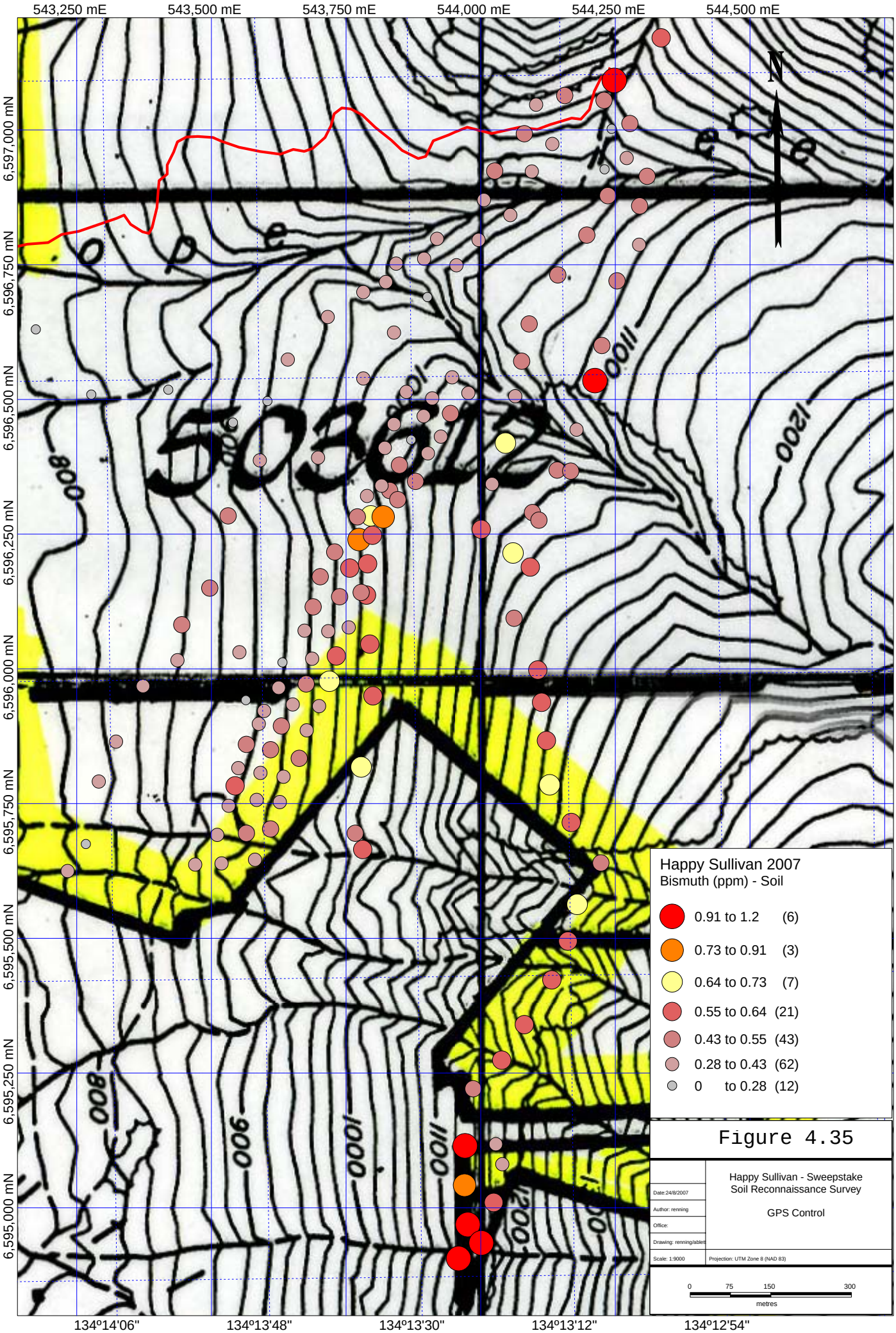
Happy Sullivan Soil Barium Statistics



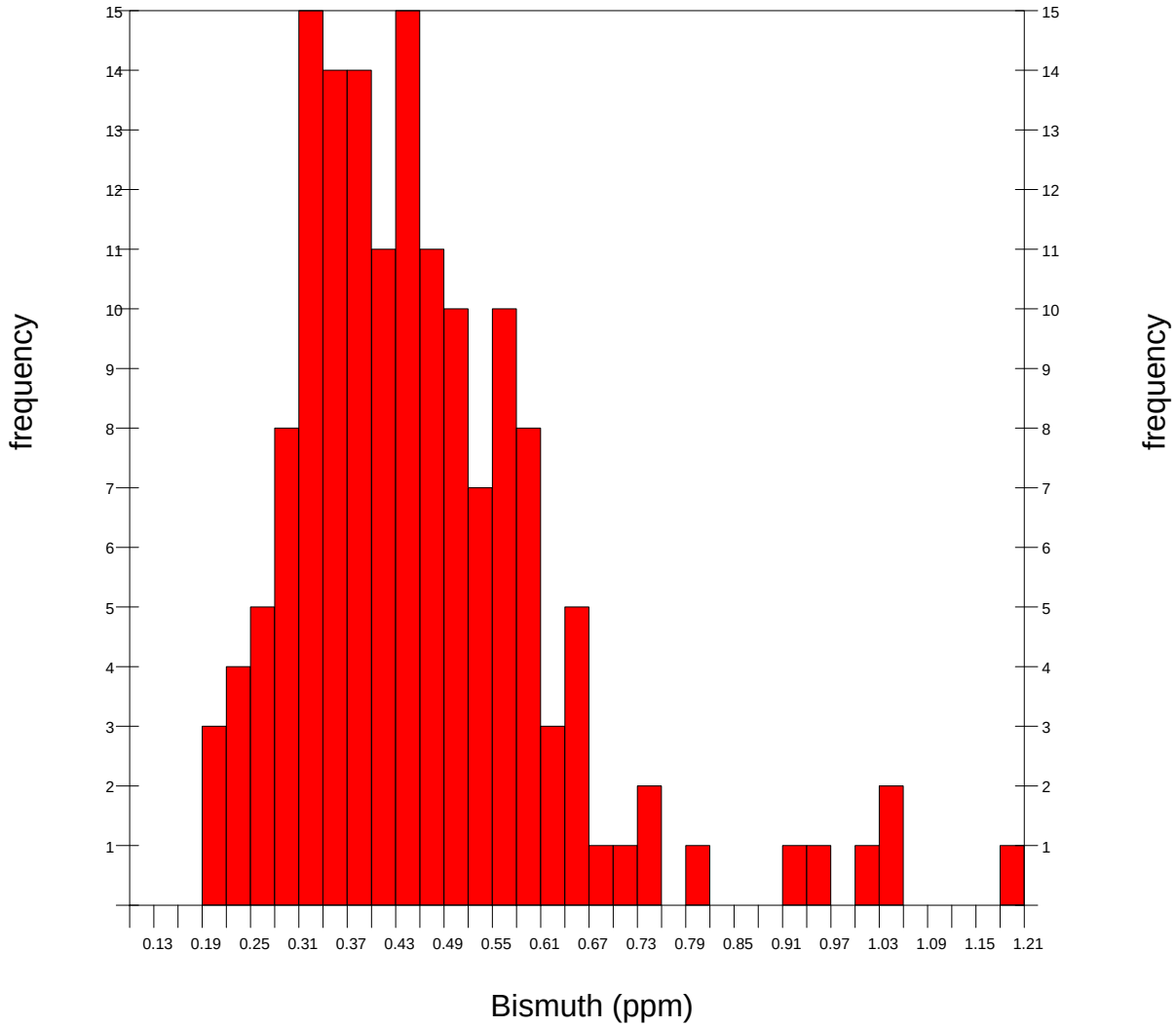

543,250 mE
543,500 mE
543,750 mE
544,000 mE
544,250 mE
544,500 mE
6,597,000 mN
6,596,750 mN
6,596,500 mN
6,596,250 mN
6,596,000 mN
6,595,750 mN
6,595,500 mN
6,595,250 mN
6,595,000 mN
59°30'36"
59°30'18"
59°30'
59°29'42"
59°29'24"
134°14'06"
134°13'48"
134°13'30"
134°13'12"
134°12'54"
N
Happy Sullivan 2007
Beryllium (ppm) - Soil
0.75 to 1.39 (12)
0.65 to 0.75 (7)
0.55 to 0.65 (21)
0.4 to 0.55 (50)
0.225 to 0.4 (54)
0 to 0.225 (10)
Figure 4.34
Happy Sullivan - Sweepstake
Soil Reconnaissance Survey
GPS Control
Date:24/8/2007
Author: renning
Office:
Drawing: renning/ablett
Scale: 1:9000
Projection: UTM Zone 8 (NAD 83)
0 75 150 300
metres

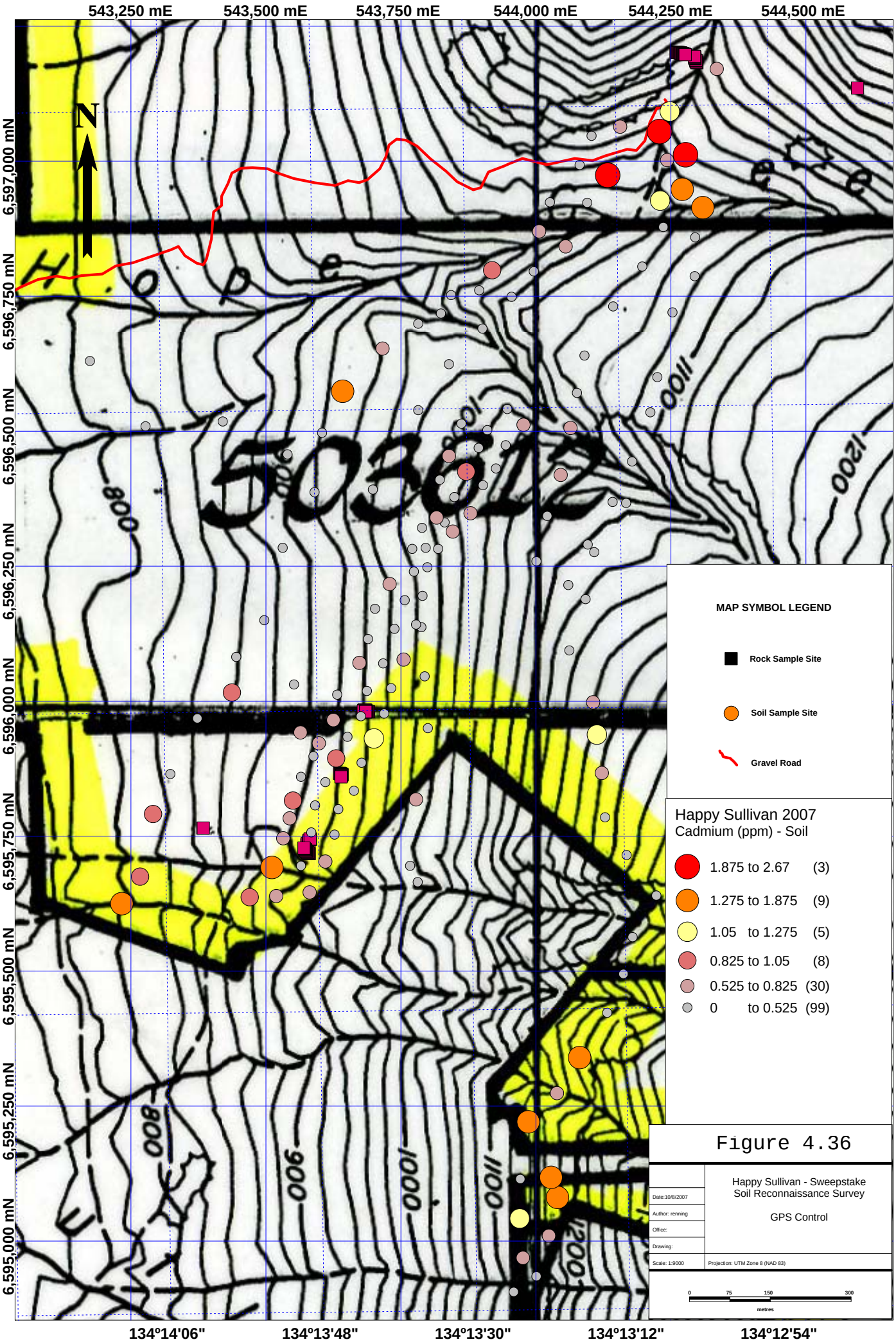
Happy Sullivan Soil Beryllium Statistics




543,250 mE
543,500 mE
543,750 mE
544,000 mE
544,250 mE
544,500 mE
6,597,000 mN
6,596,750 mN
6,596,500 mN
6,596,250 mN
6,596,000 mN
6,595,750 mN
6,595,500 mN
6,595,250 mN
6,595,000 mN
59°30'36"
59°30'18"
59°30'
59°29'42"
59°29'24"
134°14'06"
134°13'48"
134°13'30"
134°13'12"
134°12'54"
N
Happy Sullivan 2007
Bismuth (ppm) - Soil
0.91 to 1.2 (6)
0.73 to 0.91 (3)
0.64 to 0.73 (7)
0.55 to 0.64 (21)
0.43 to 0.55 (43)
0.28 to 0.43 (62)
0 to 0.28 (12)
Figure 4.35
Happy Sullivan - Sweepstake
Soil Reconnaissance Survey
GPS Control
Date:24/8/2007
Author: renning
Office:
Drawing: renning/ablett
Scale: 1:9000
Projection: UTM Zone 8 (NAD 83)
0
75
150
300
metres

Happy Sullivan Soil Bismuth Statistics

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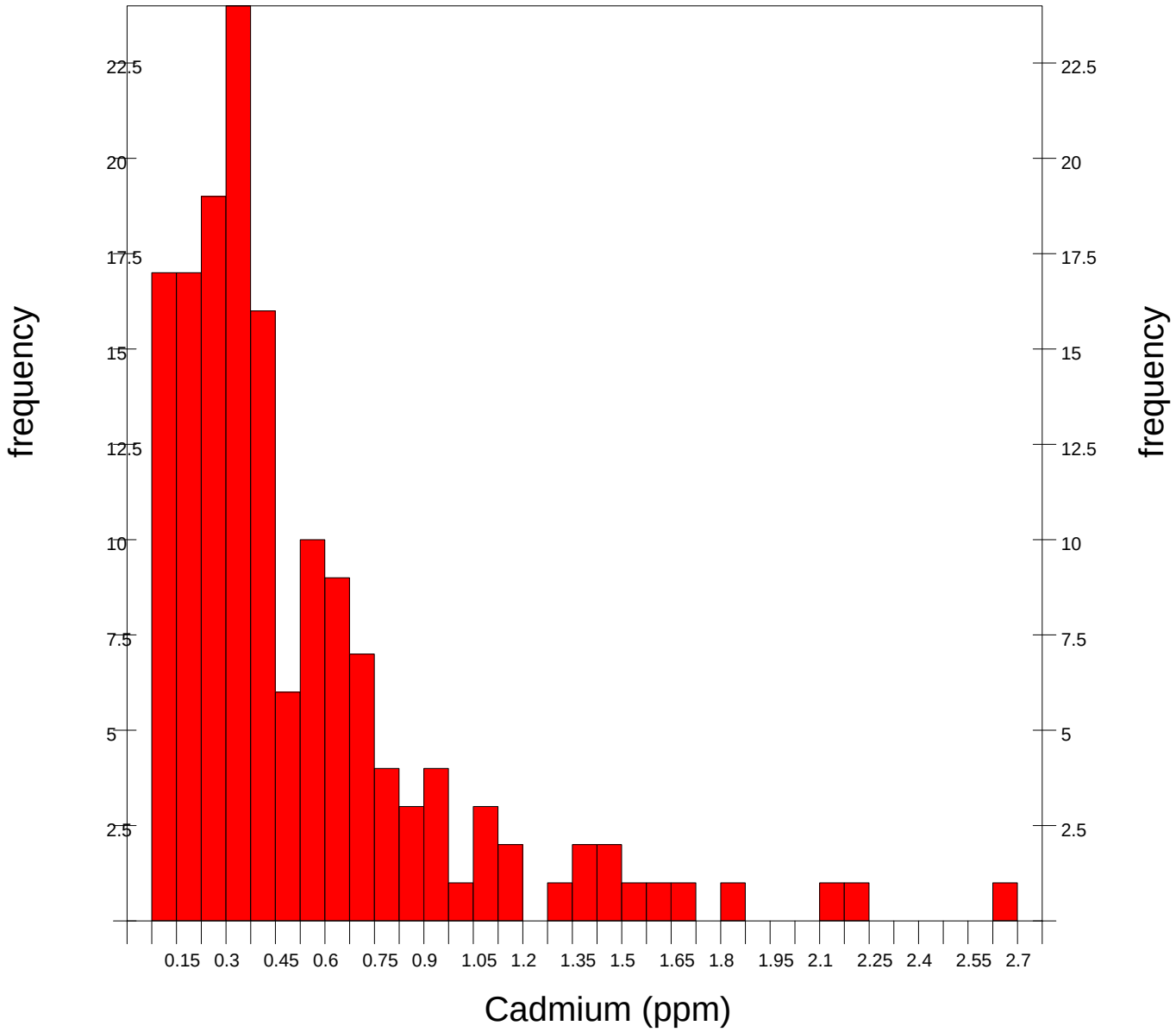
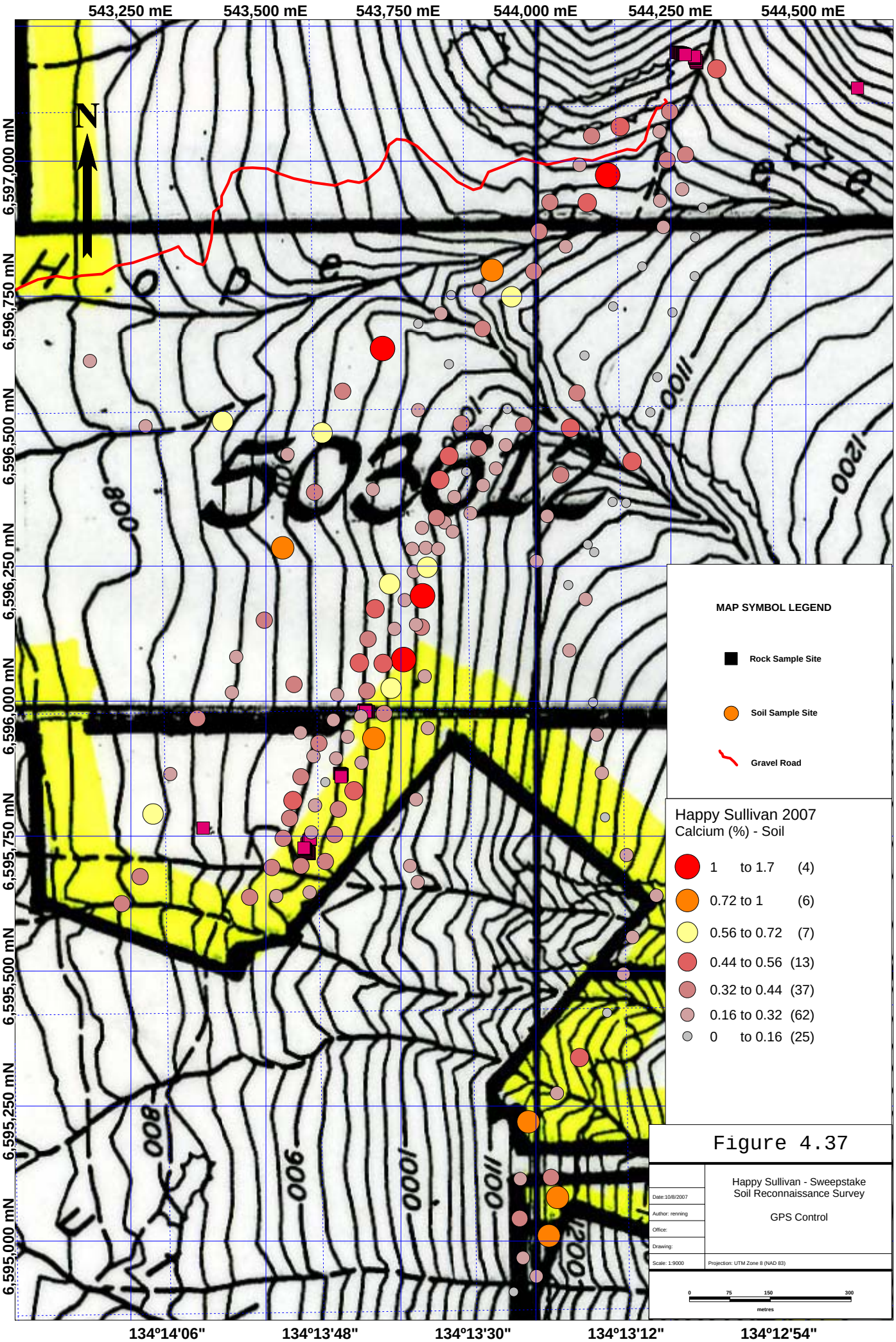
6,595,750 mN
6,595,500 mN
6,595,250 mN
6,595,000 mN
59°30'36"
59°30'18"
59°30'
59°29'42"
59°29'24"
134°14'06"
134°13'48"
134°13'30"
134°13'12"
134°12'54"
N
Hope
Hope
5036E
800
900
1000
1100
1200
MAP SYMBOL LEGEND
Rock Sample Site
Soil Sample Site
Gravel Road
Happy Sullivan 2007
Cadmium (ppm) - Soil
1.875 to 2.67 (3)
1.275 to 1.875 (9)
1.05 to 1.275 (5)
0.825 to 1.05 (8)
0.525 to 0.825 (30)
0 to 0.525 (99)
Figure 4.36
Happy Sullivan - Sweepstake
Soil Reconnaissance Survey
GPS Control
Date:10/8/2007
Author: renning
Office:
Drawing:
Scale: 1:9000
Projection: UTM Zone 8 (NAD 83)
0
75
150
300
metres

Happy Sullivan Soil Cadmium Statistics

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6,595,750 mN
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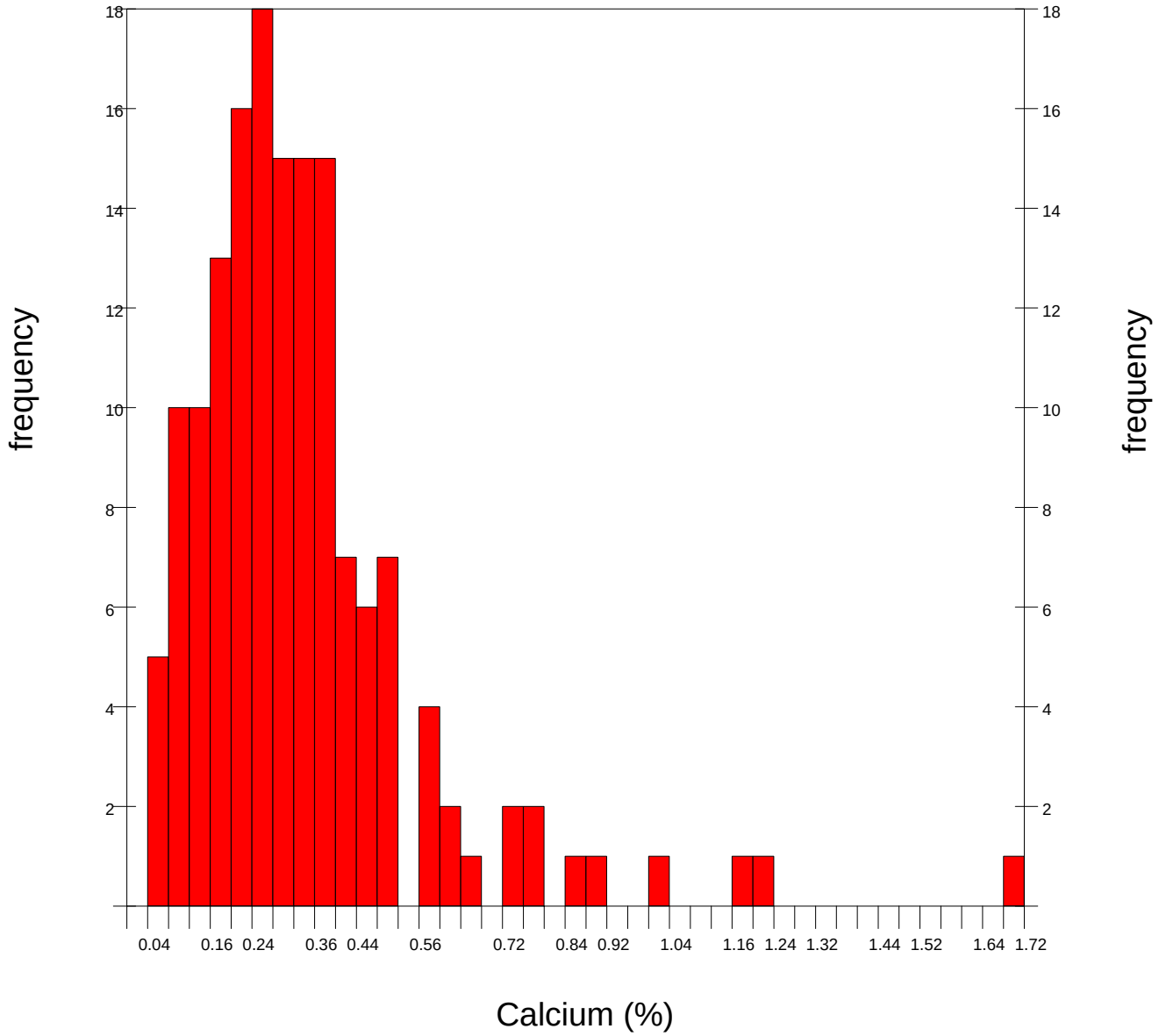
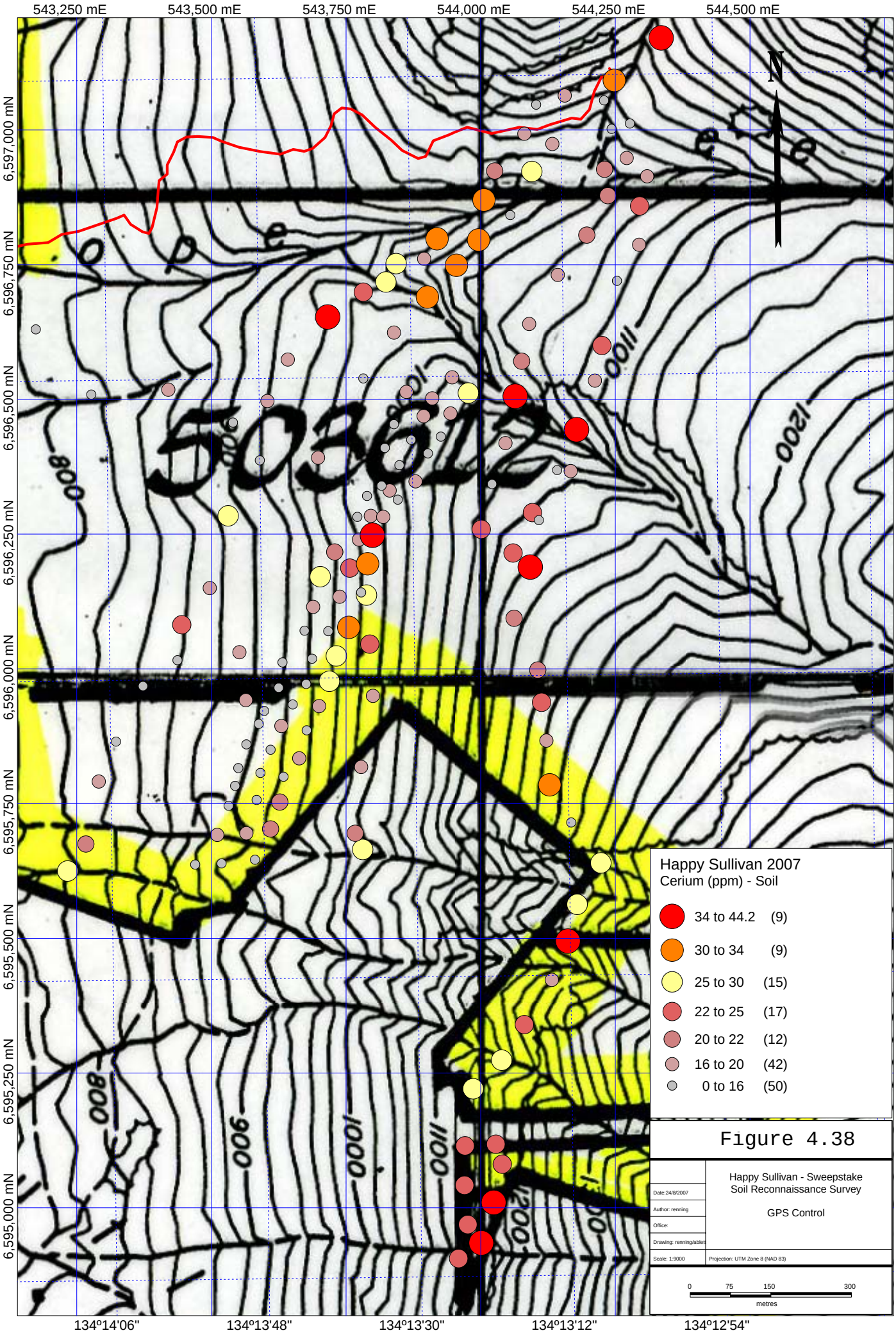
59°30'18"
59°30'
59°29'42"
59°29'24"
134°14'06"
134°13'48"
134°13'30"
134°13'12"
134°12'54"
N
Hope
Hope
Hope
800
900
1000
1100
1200
MAP SYMBOL LEGEND
Rock Sample Site
Soil Sample Site
Gravel Road
Happy Sullivan 2007
Calcium (%) - Soil
1 to 1.7 (4)
0.72 to 1 (6)
0.56 to 0.72 (7)
0.44 to 0.56 (13)
0.32 to 0.44 (37)
0.16 to 0.32 (62)
0 to 0.16 (25)
Figure 4.37
Happy Sullivan - Sweepstake
Soil Reconnaissance Survey
GPS Control
Date:10/8/2007
Author: renning
Office:
Drawing:
Scale: 1:9000
Projection: UTM Zone 8 (NAD 83)
0
75
150
300
metres

Happy Sullivan Soil Calcium Statistics

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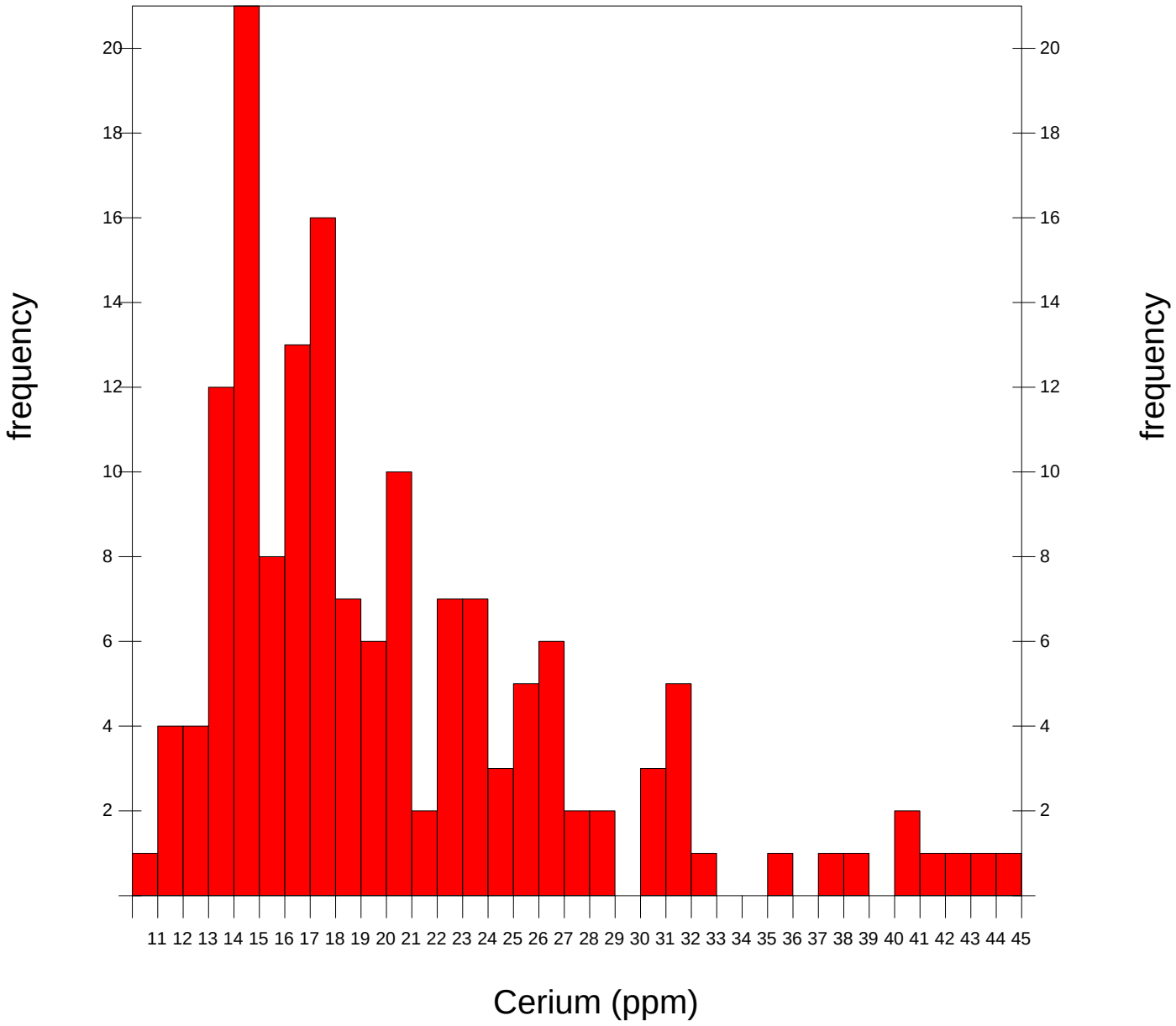
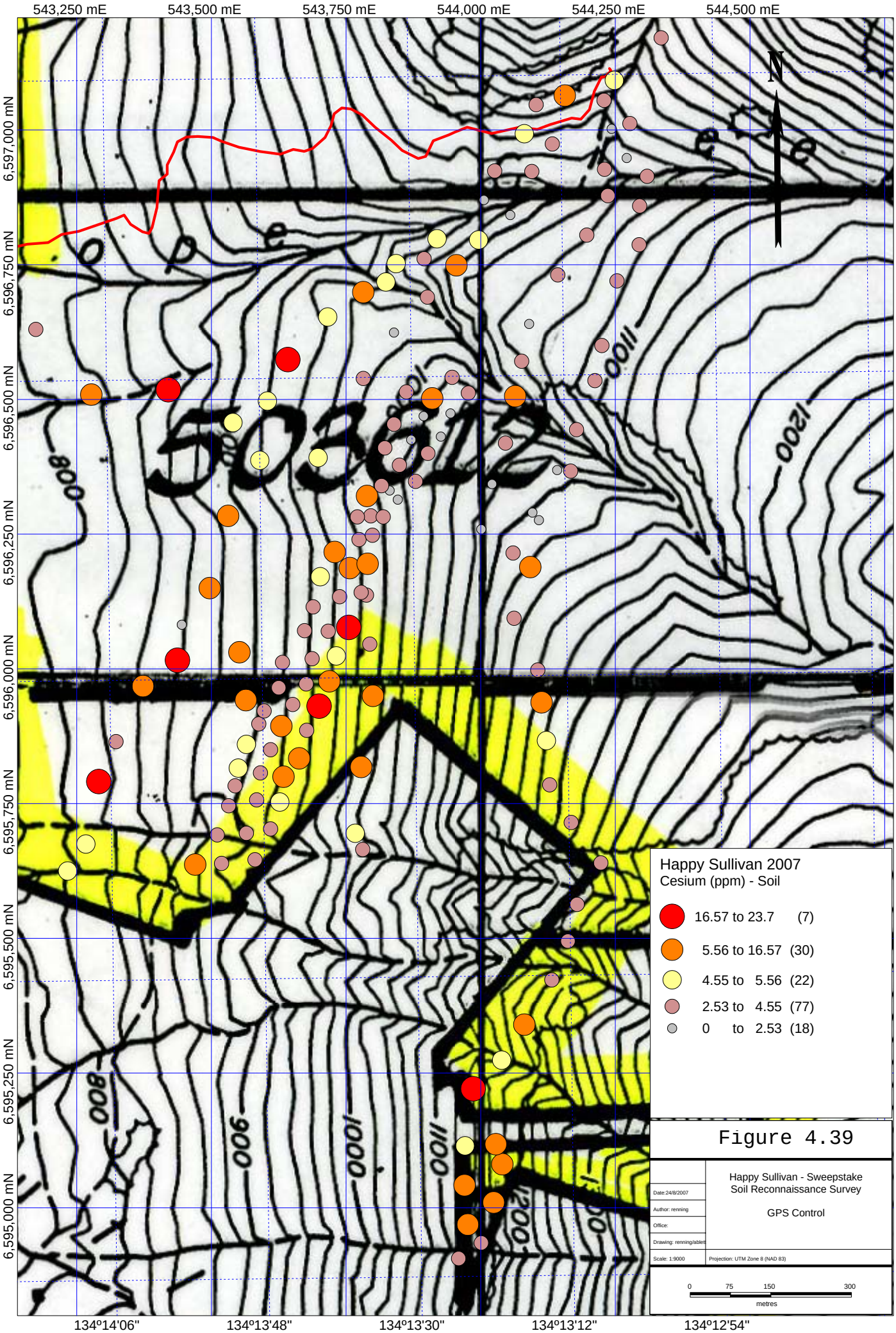
6,595,750 mN
6,595,500 mN
6,595,250 mN
6,595,000 mN
59°30'36"
59°30'18"
59°30'
59°29'42"
59°29'24"
134°14'06"
134°13'48"
134°13'30"
134°13'12"
134°12'54"
N
Happy Sullivan 2007
Cerium (ppm) - Soil
34 to 44.2 (9)
30 to 34 (9)
25 to 30 (15)
22 to 25 (17)
20 to 22 (12)
16 to 20 (42)
0 to 16 (50)
Figure 4.38
Happy Sullivan - Sweepstake
Soil Reconnaissance Survey
GPS Control
Date:24/8/2007
Author: renning
Office:
Drawing: renning/ablett
Scale: 1:9000
Projection: UTM Zone 8 (NAD 83)
0 75 150 300
metres

Happy Sullivan Soil Cerium Statistics

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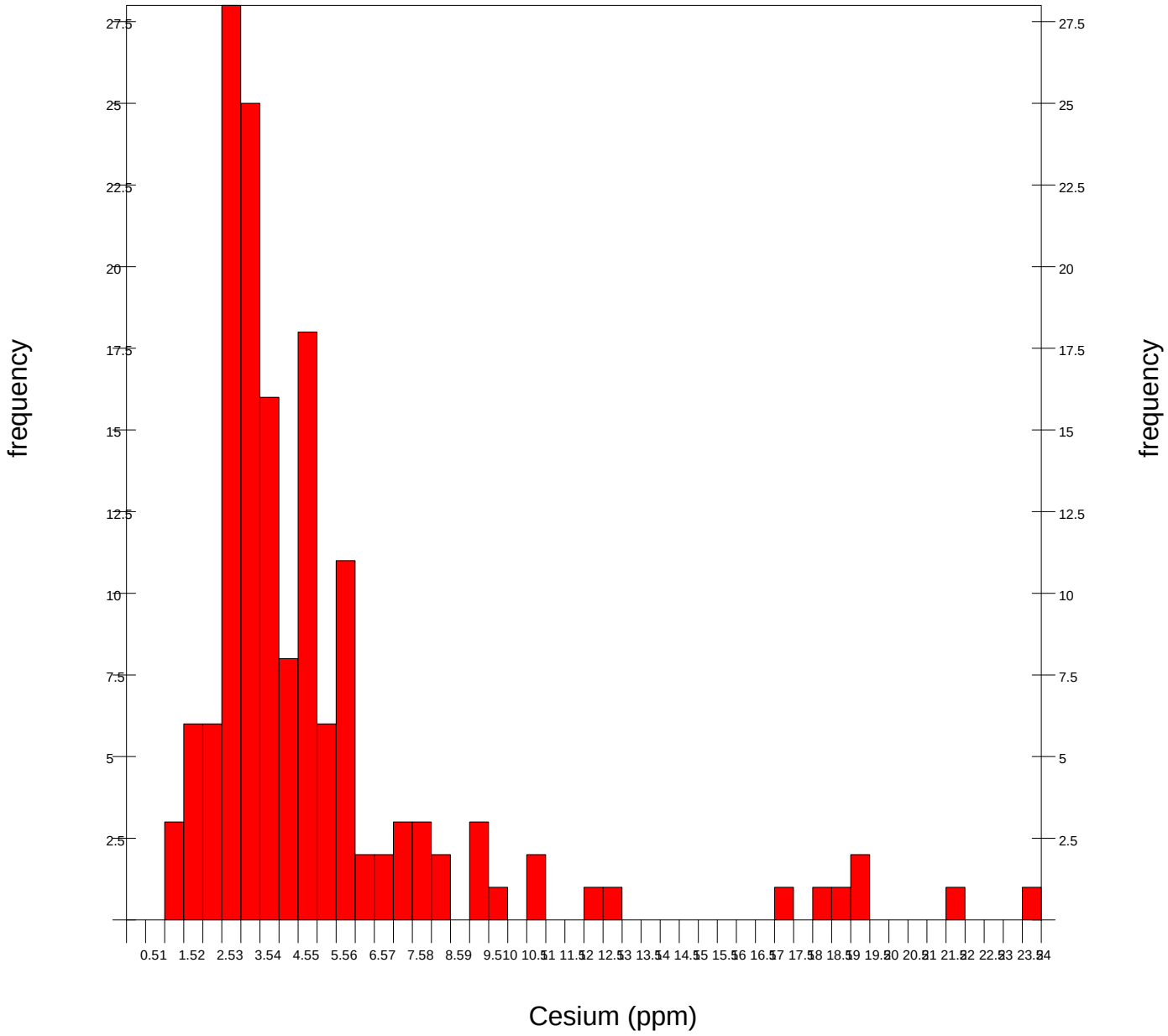
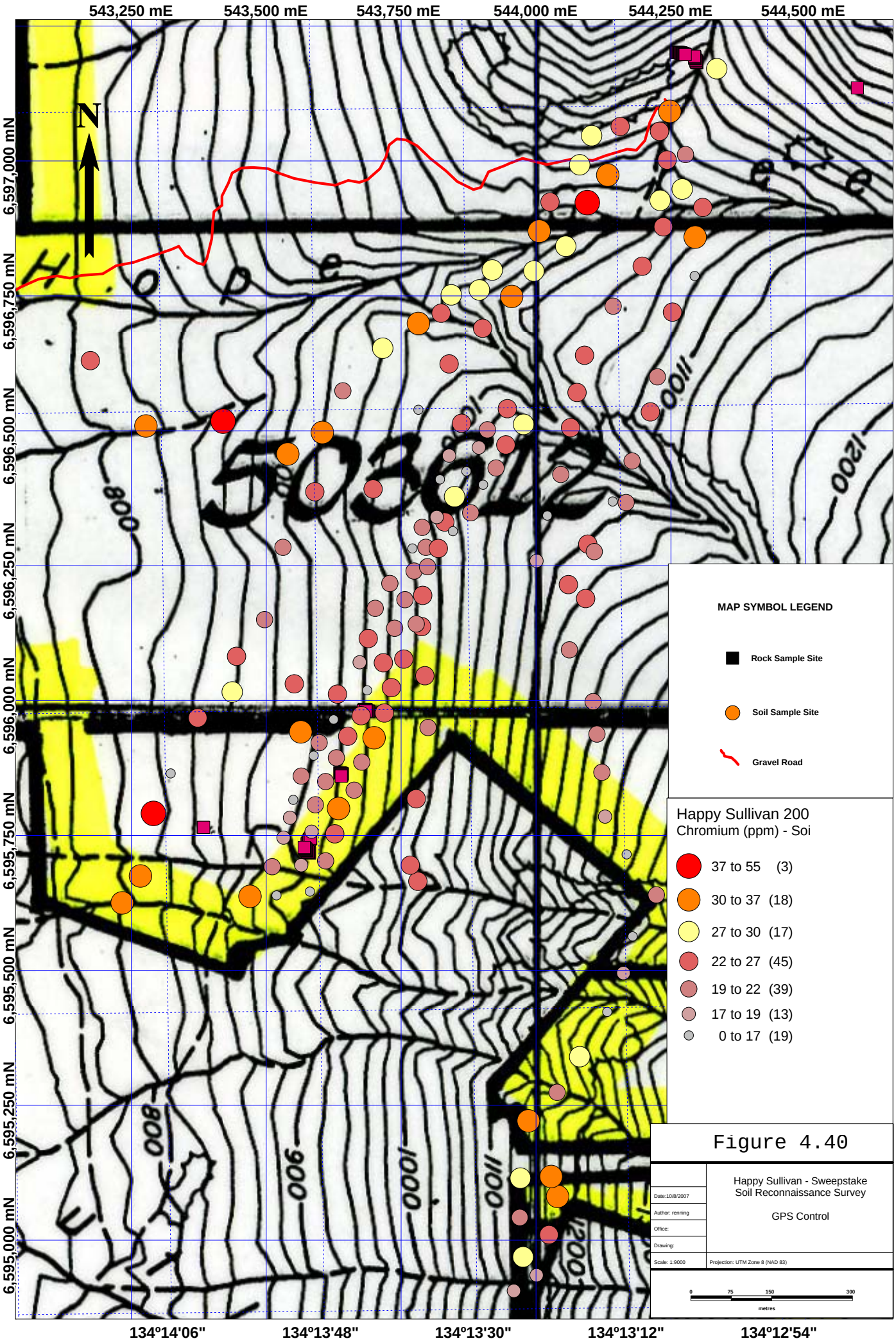
6,595,000 mN
59°30'36"
59°30'18"
59°30'
59°29'42"
59°29'24"
134°14'06"
134°13'48"
134°13'30"
134°13'12"
134°12'54"
N
Happy Sullivan 2007
Cesium (ppm) - Soil
16.57 to 23.7 (7)
5.56 to 16.57 (30)
4.55 to 5.56 (22)
2.53 to 4.55 (77)
0 to 2.53 (18)
Figure 4.39
Happy Sullivan - Sweepstake
Soil Reconnaissance Survey
GPS Control
Date:24/8/2007
Author: renning
Office:
Drawing: renning/ablett
Scale: 1:9000
Projection: UTM Zone 8 (NAD 83)
0
75
150
300
metres

Happy Sullivan Soil Cesium Statistics

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6,596,750 mN
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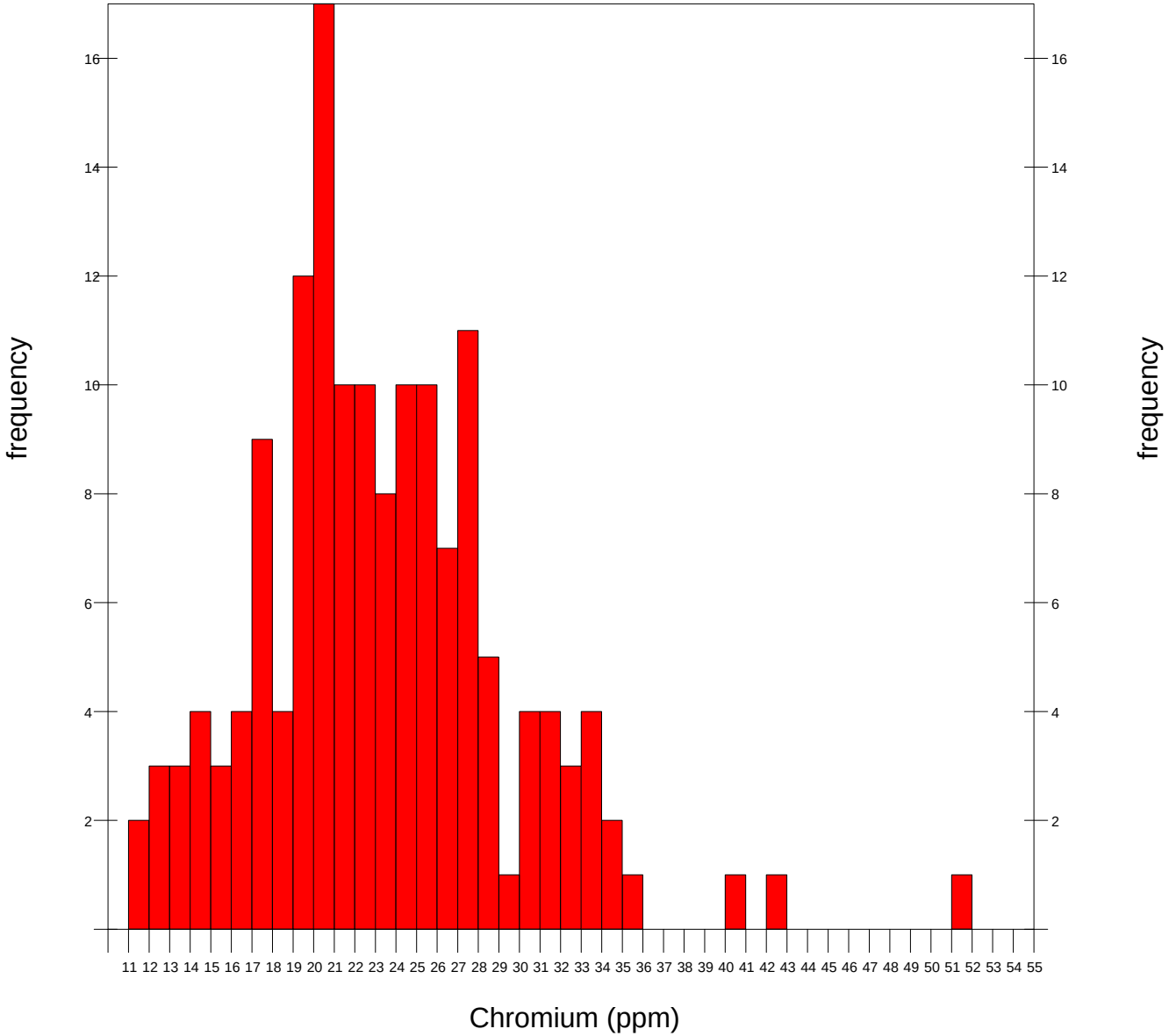
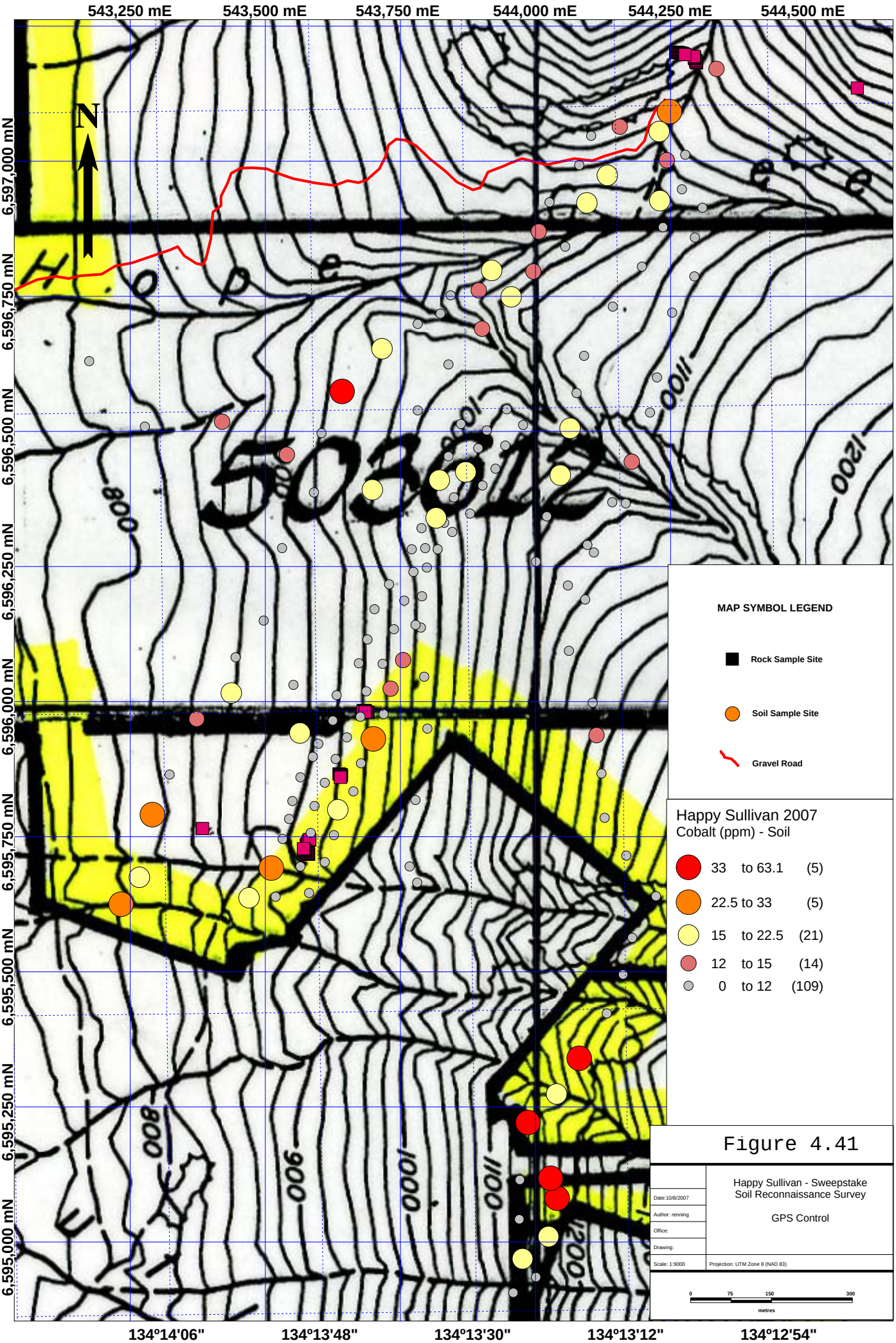
6,596,250 mN
6,596,000 mN
6,595,750 mN
6,595,500 mN
6,595,250 mN
6,595,000 mN
59°30'36"
59°30'18"
59°30'
59°29'42"
59°29'24"
134°14'06"
134°13'48"
134°13'30"
134°13'12"
134°12'54"
N
Hope
Boise
800
900
1000
1100
1200
MAP SYMBOL LEGEND
Rock Sample Site
Soil Sample Site
Gravel Road
Happy Sullivan 200
Chromium (ppm) - Soi
37 to 55 (3)
30 to 37 (18)
27 to 30 (17)
22 to 27 (45)
19 to 22 (39)
17 to 19 (13)
0 to 17 (19)
Figure 4.40
Happy Sullivan - Sweepstake
Soil Reconnaissance Survey
GPS Control
Date:10/8/2007
Author: renning
Office:
Drawing:
Scale: 1:9000
Projection: UTM Zone 8 (NAD 83)
0
75
150
300
metres

Happy Sullivan Soil Chromium Statistics

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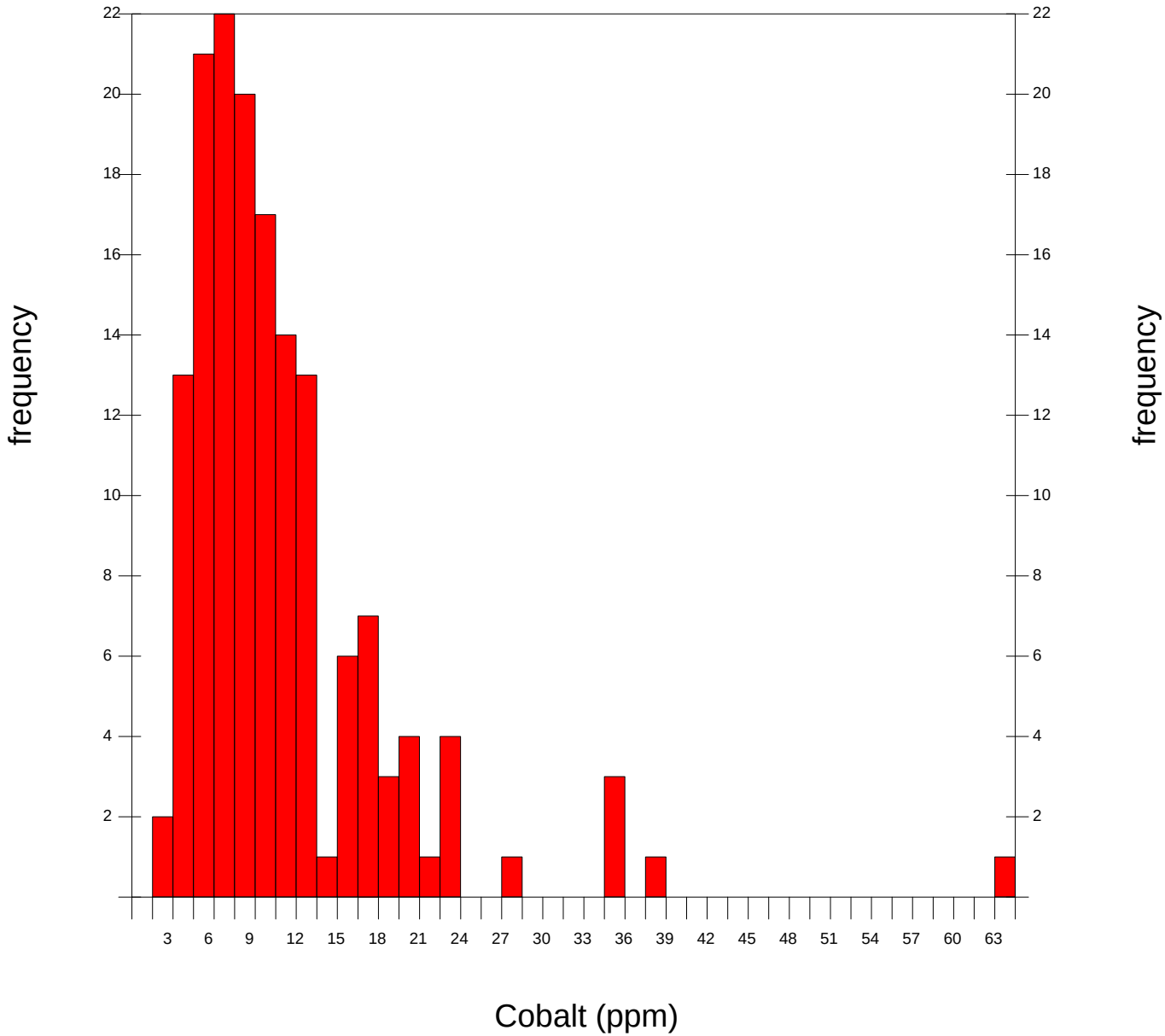
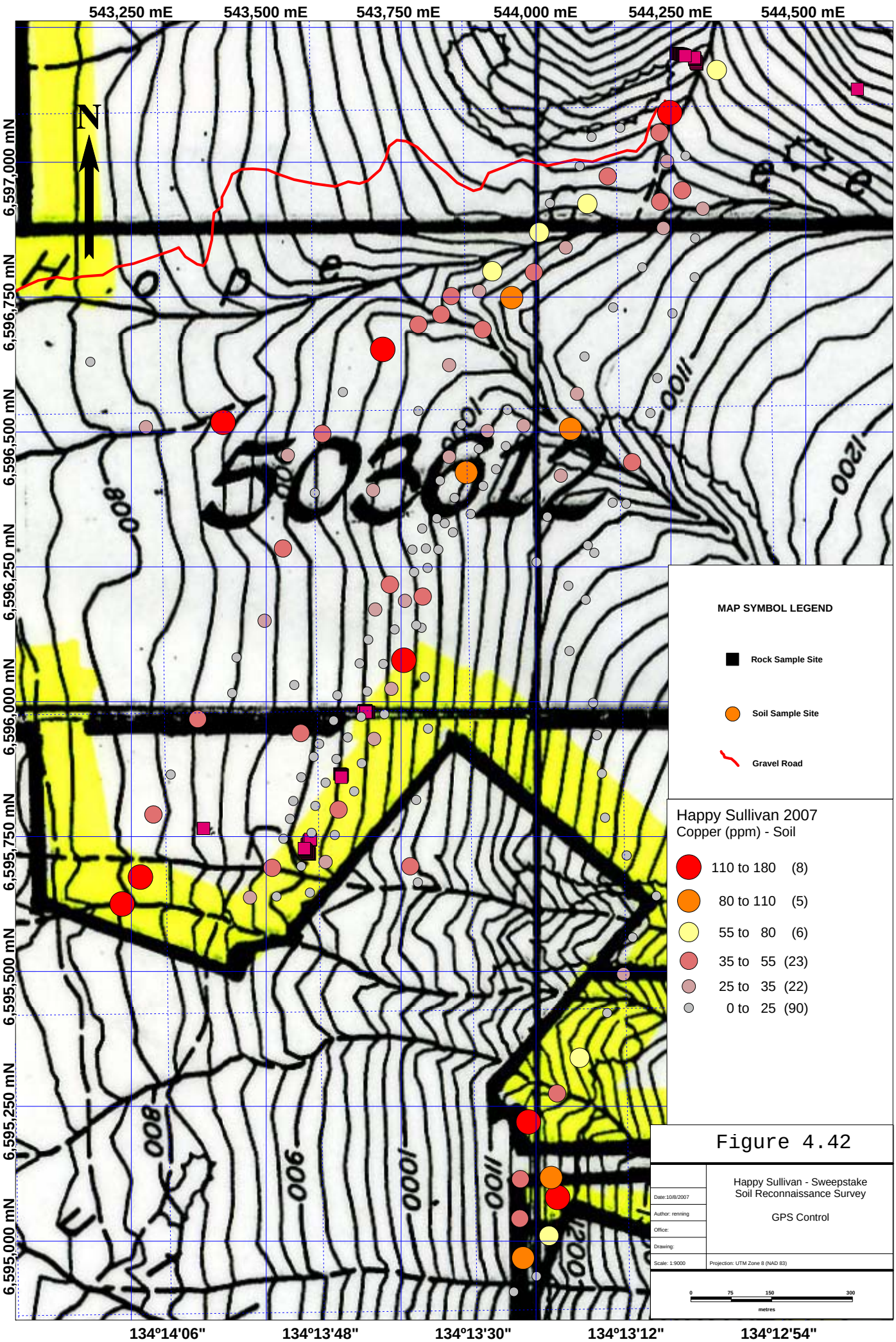
59°30'
59°29'42"
59°29'24"
134°14'06"
134°13'48"
134°13'30"
134°13'12"
134°12'54"
N
Hope
5036E
800
900
1000
1100
1200
MAP SYMBOL LEGEND
Rock Sample Site
Soil Sample Site
Gravel Road
Happy Sullivan 2007
Cobalt (ppm) - Soil
33 to 63.1 (5)
22.5 to 33 (5)
15 to 22.5 (21)
12 to 15 (14)
0 to 12 (109)
Figure 4.41
Happy Sullivan - Sweepstake
Soil Reconnaissance Survey
GPS Control
Date:10/8/2007
Author: renning
Office:
Drawing:
Scale: 1:9000
Projection: UTM Zone 8 (NAD 83)
0 75 150 300
metres

Happy Sullivan Soil Cobalt Statistics

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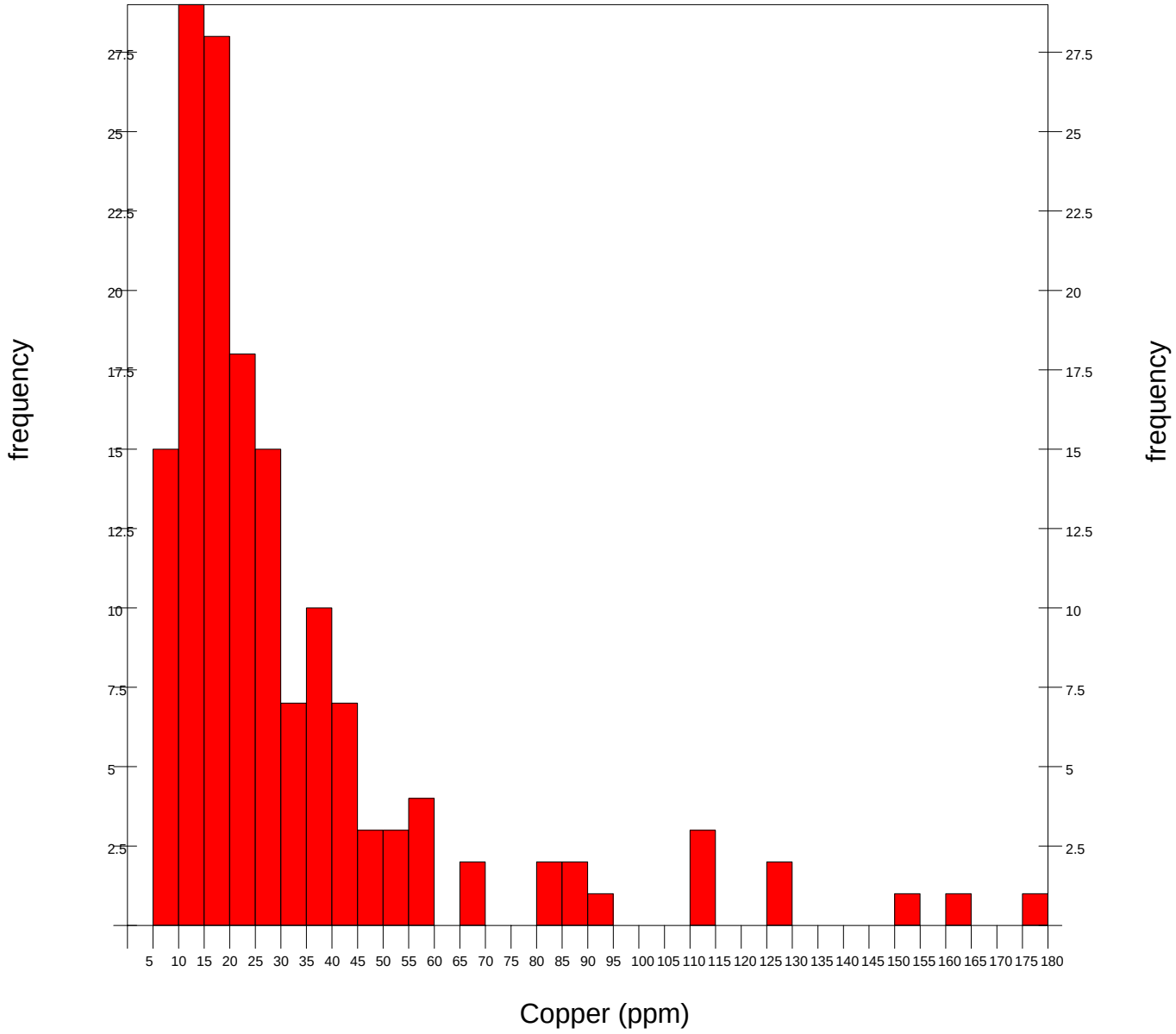
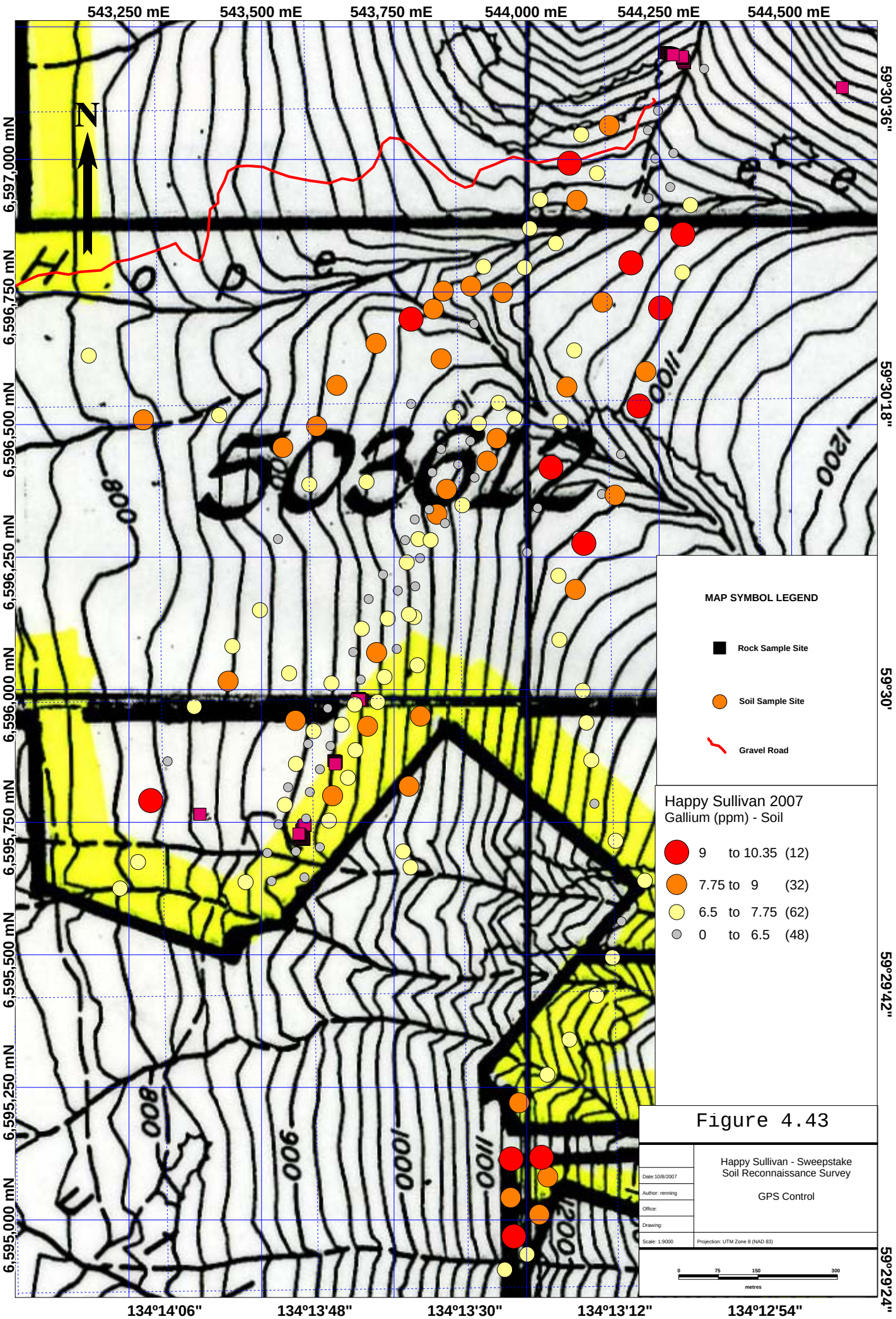
59°30'
59°29'42"
59°29'24"
134°14'06"
134°13'48"
134°13'30"
134°13'12"
134°12'54"
N
Hope
Boise
800
900
1000
1100
1200
MAP SYMBOL LEGEND
Rock Sample Site
Soil Sample Site
Gravel Road
Happy Sullivan 2007
Copper (ppm) - Soil
110 to 180 (8)
80 to 110 (5)
55 to 80 (6)
35 to 55 (23)
25 to 35 (22)
0 to 25 (90)
Figure 4.42
Happy Sullivan - Sweepstake
Soil Reconnaissance Survey
GPS Control
Date:10/8/2007
Author: renning
Office:
Drawing:
Scale: 1:9000
Projection: UTM Zone 8 (NAD 83)
0
75
150
300
metres

Happy Sullivan Soil Copper Statistics

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6,596,750 mN
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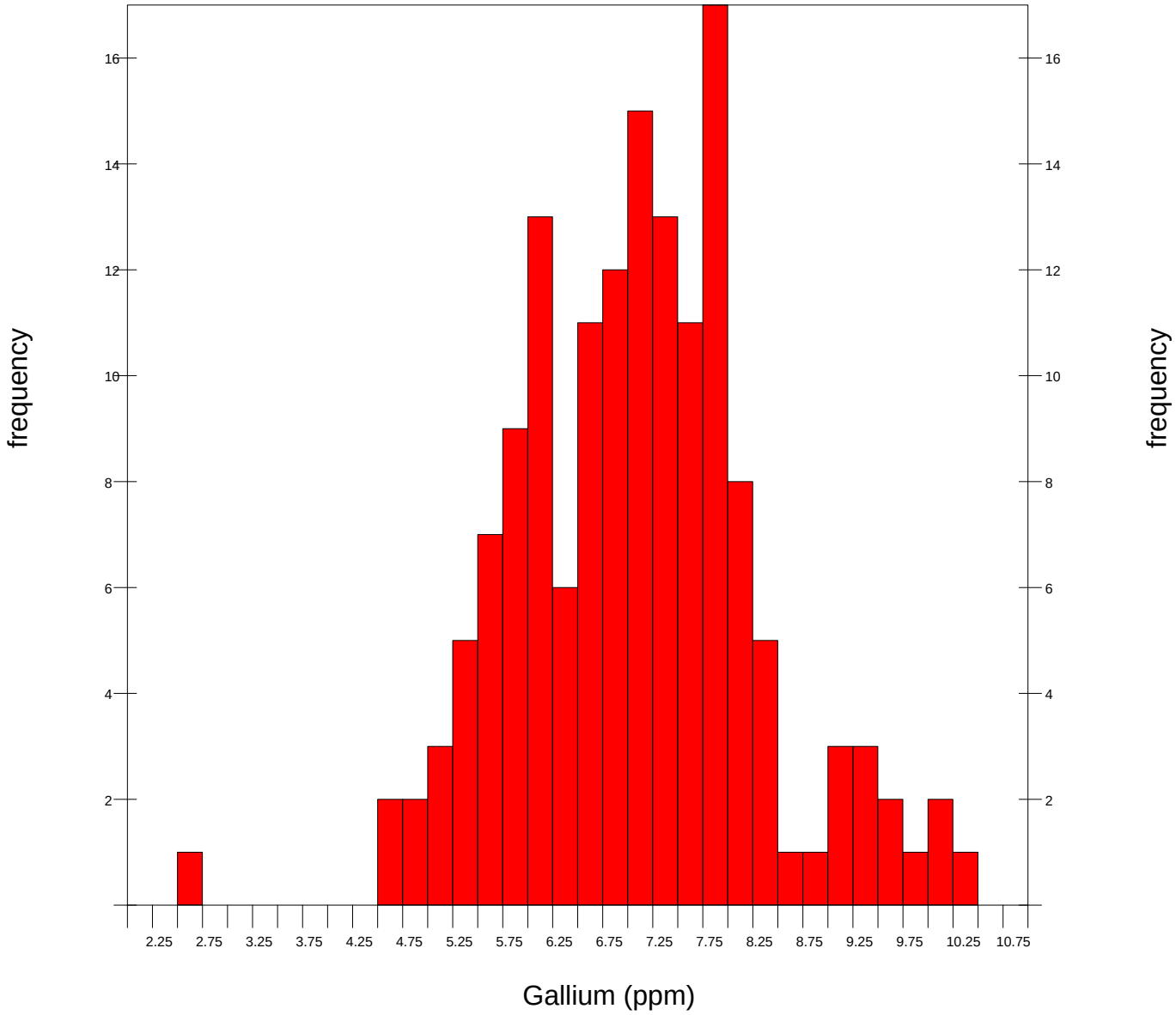
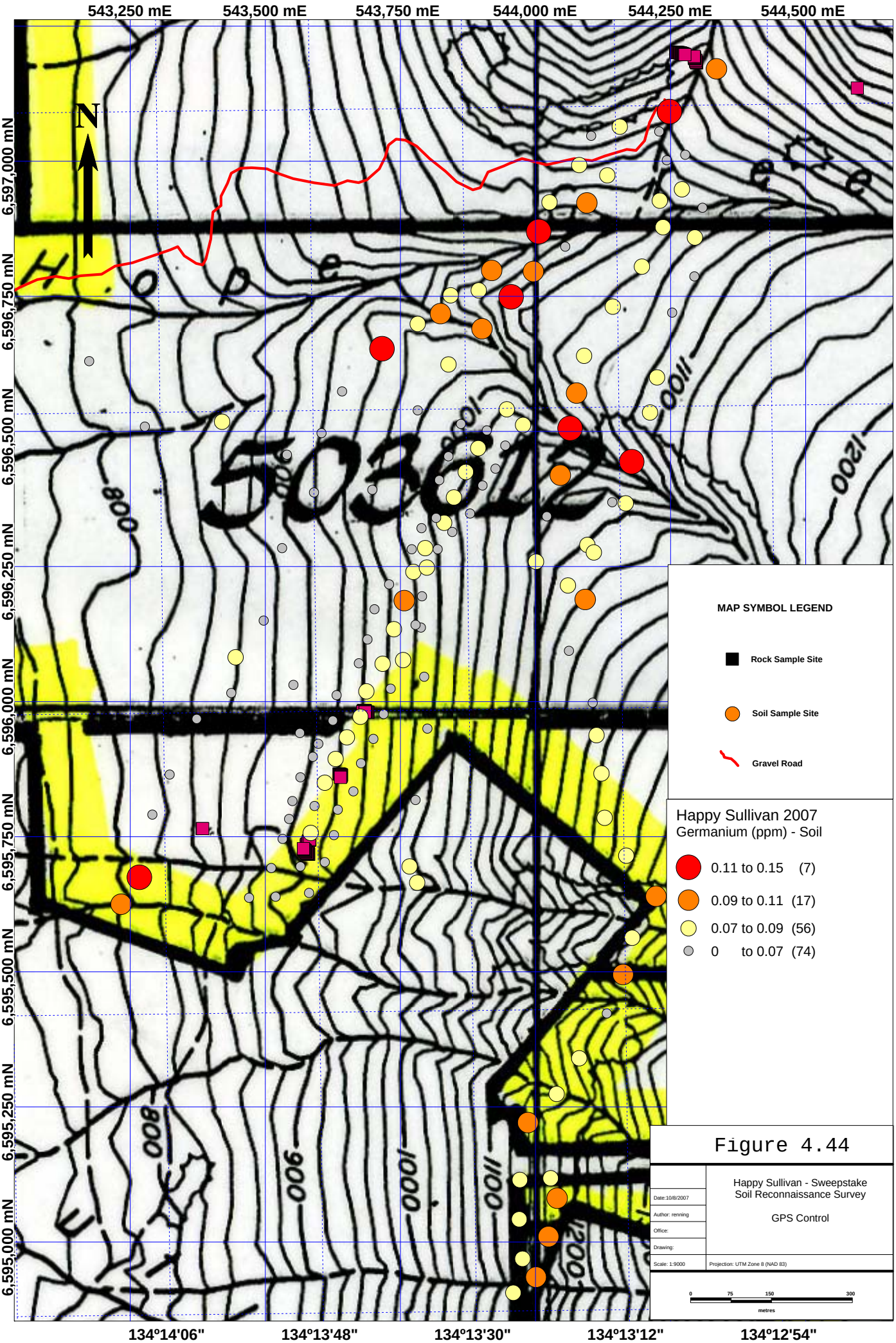
59°30'
59°29'42"
59°29'24"
134°14'06"
134°13'48"
134°13'30"
134°13'12"
134°12'54"
N
Hope
Bowl
MAP SYMBOL LEGEND
Rock Sample Site
Soil Sample Site
Gravel Road
Happy Sullivan 2007
Gallium (ppm) - Soil
9 to 10.35 (12)
7.75 to 9 (32)
6.5 to 7.75 (62)
0 to 6.5 (48)
Figure 4.43
Happy Sullivan - Sweepstake
Soil Reconnaissance Survey
GPS Control
Date:10/8/2007
Author: renning
Office:
Drawing:
Scale: 1:9000
Projection: UTM Zone 8 (NAD 83)
0 75 150 300
metres

Happy Sullivan Soil Gallium Statistics

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59°30'
59°29'42"
59°29'24"
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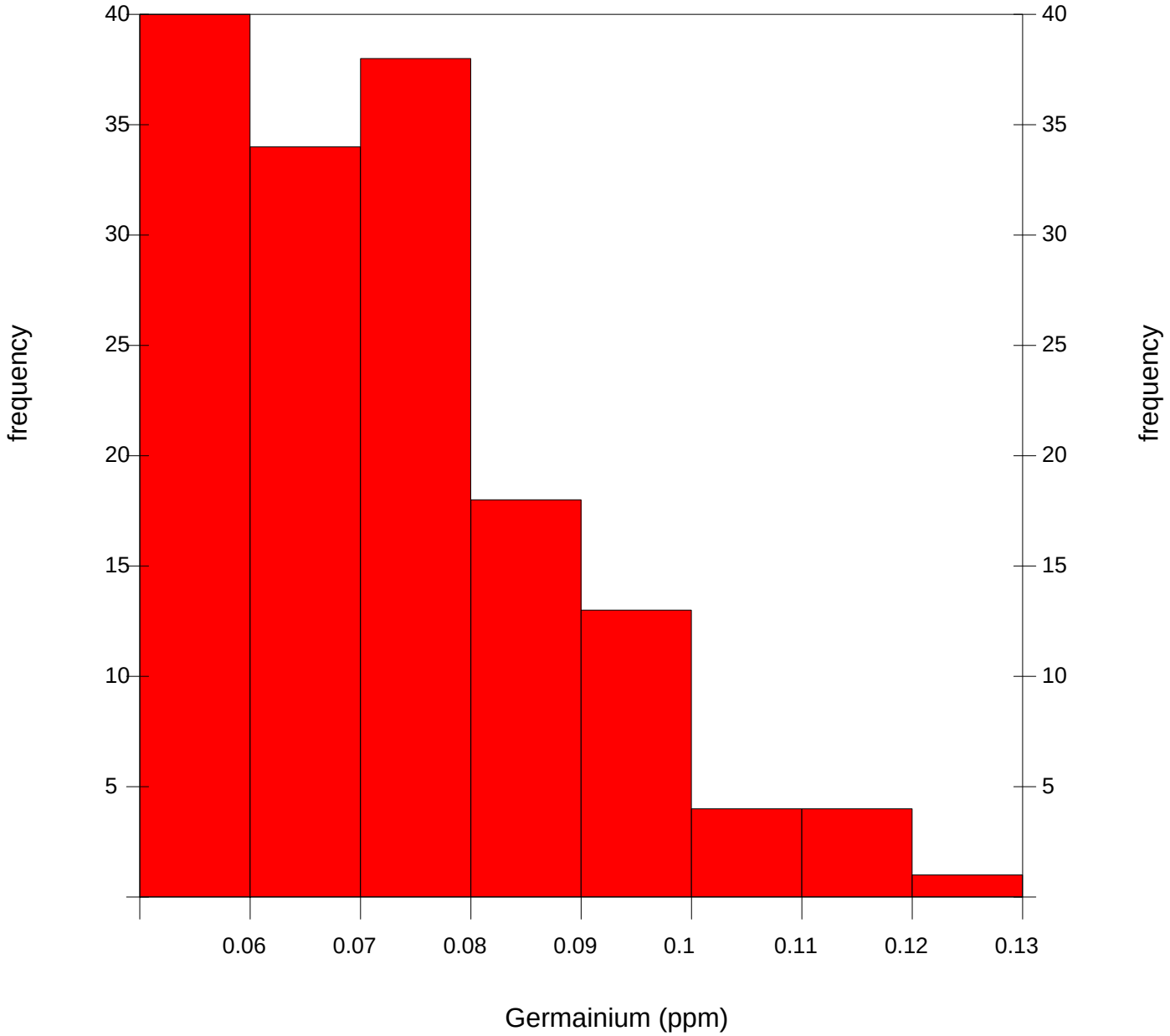
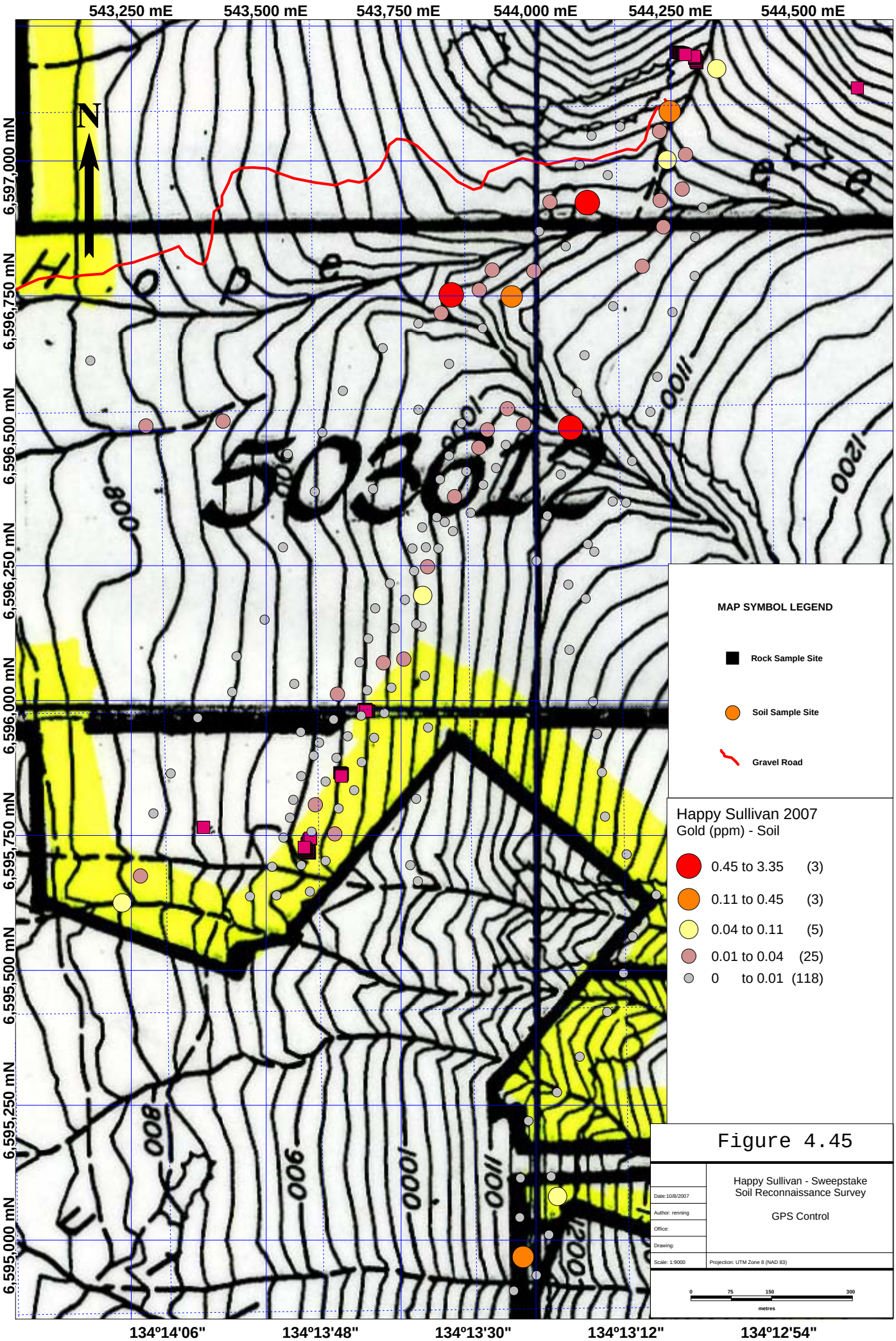
134°13'48"
134°13'30"
134°13'12"
134°12'54"
N
Hope
Soda
800
900
1000
1100
1200
MAP SYMBOL LEGEND
Rock Sample Site
Soil Sample Site
Gravel Road
Happy Sullivan 2007
Germanium (ppm) - Soil
0.11 to 0.15 (7)
0.09 to 0.11 (17)
0.07 to 0.09 (56)
0 to 0.07 (74)
Figure 4.44
Happy Sullivan - Sweepstake
Soil Reconnaissance Survey
GPS Control
Date:10/8/2007
Author: renning
Office:
Drawing:
Scale: 1:9000
Projection: UTM Zone 8 (NAD 83)
0
75
150
300
metres

Happy Sullivan Soil Germainium Statistics

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6,595,750 mN
6,595,500 mN
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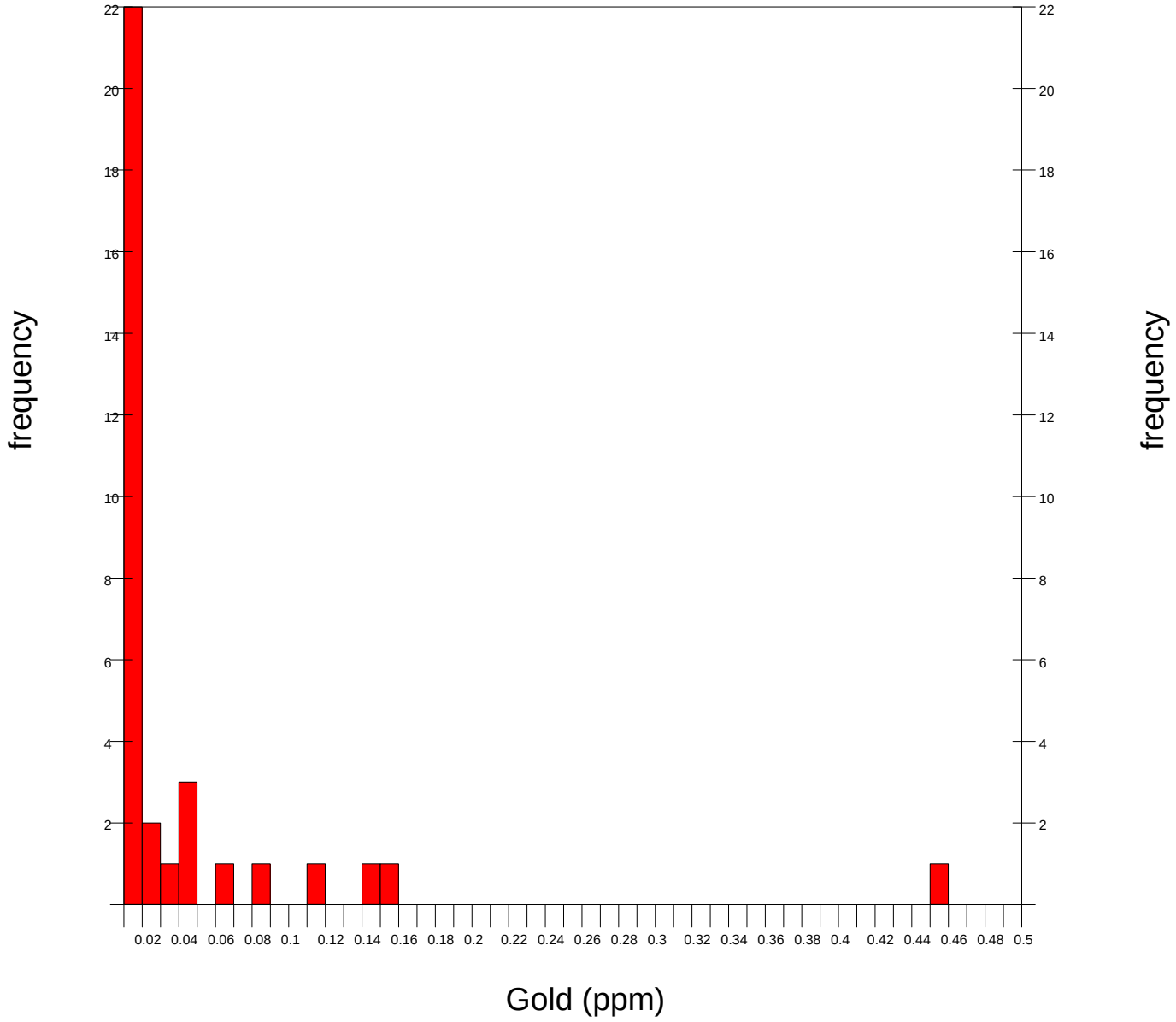
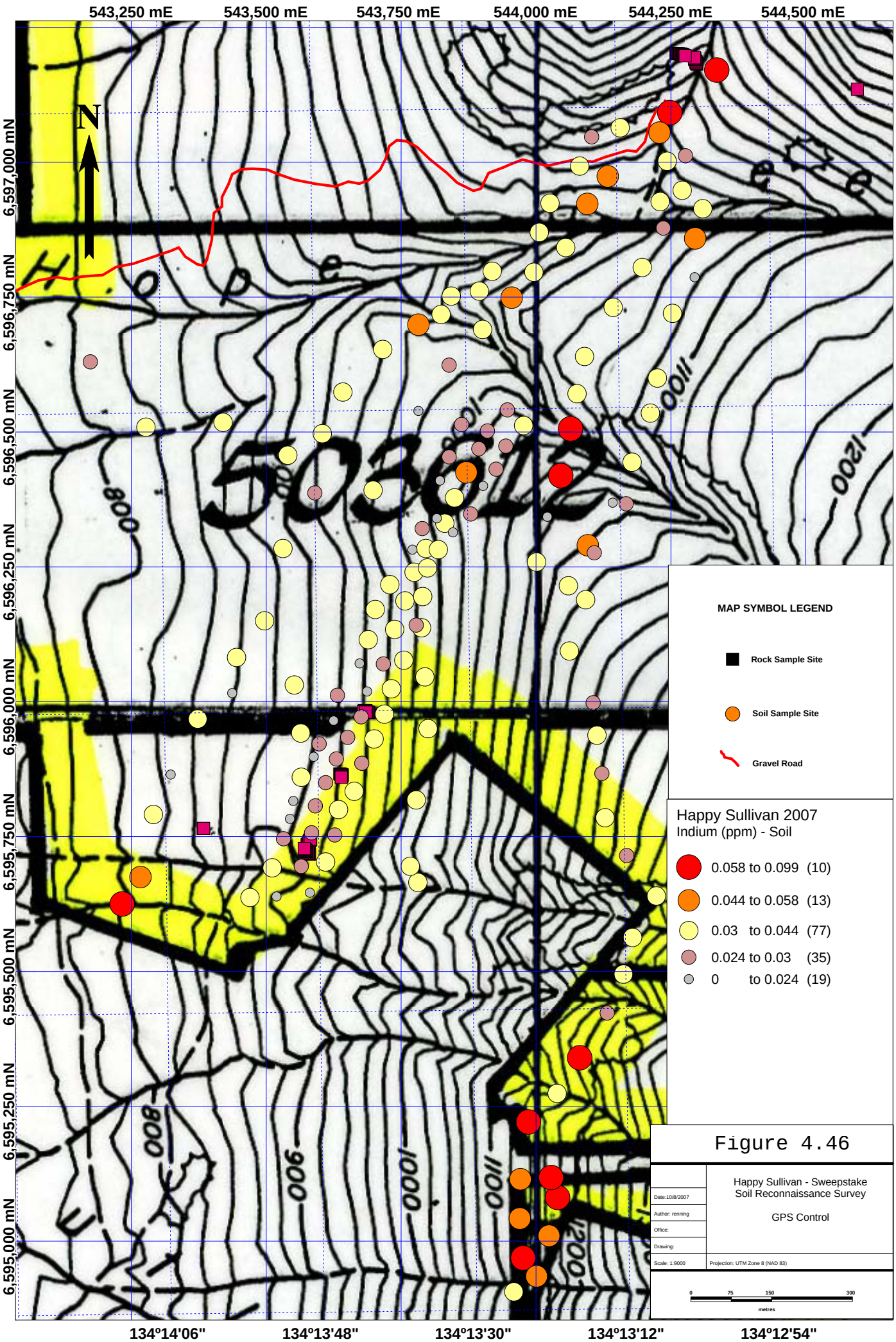
59°30'
59°29'42"
59°29'24"
134°14'06"
134°13'48"
134°13'30"
134°13'12"
134°12'54"
N
Hope
Boise
800
900
1000
1100
1200
MAP SYMBOL LEGEND
Rock Sample Site
Soil Sample Site
Gravel Road
Happy Sullivan 2007
Gold (ppm) - Soil
0.45 to 3.35 (3)
0.11 to 0.45 (3)
0.04 to 0.11 (5)
0.01 to 0.04 (25)
0 to 0.01 (118)
Figure 4.45
Happy Sullivan - Sweepstake
Soil Reconnaissance Survey
GPS Control
Date:10/8/2007
Author: renning
Office:
Drawing:
Scale: 1:9000
Projection: UTM Zone 8 (NAD 83)
0
75
150
300
metres

Happy Sullivan Soil Gold Statistics

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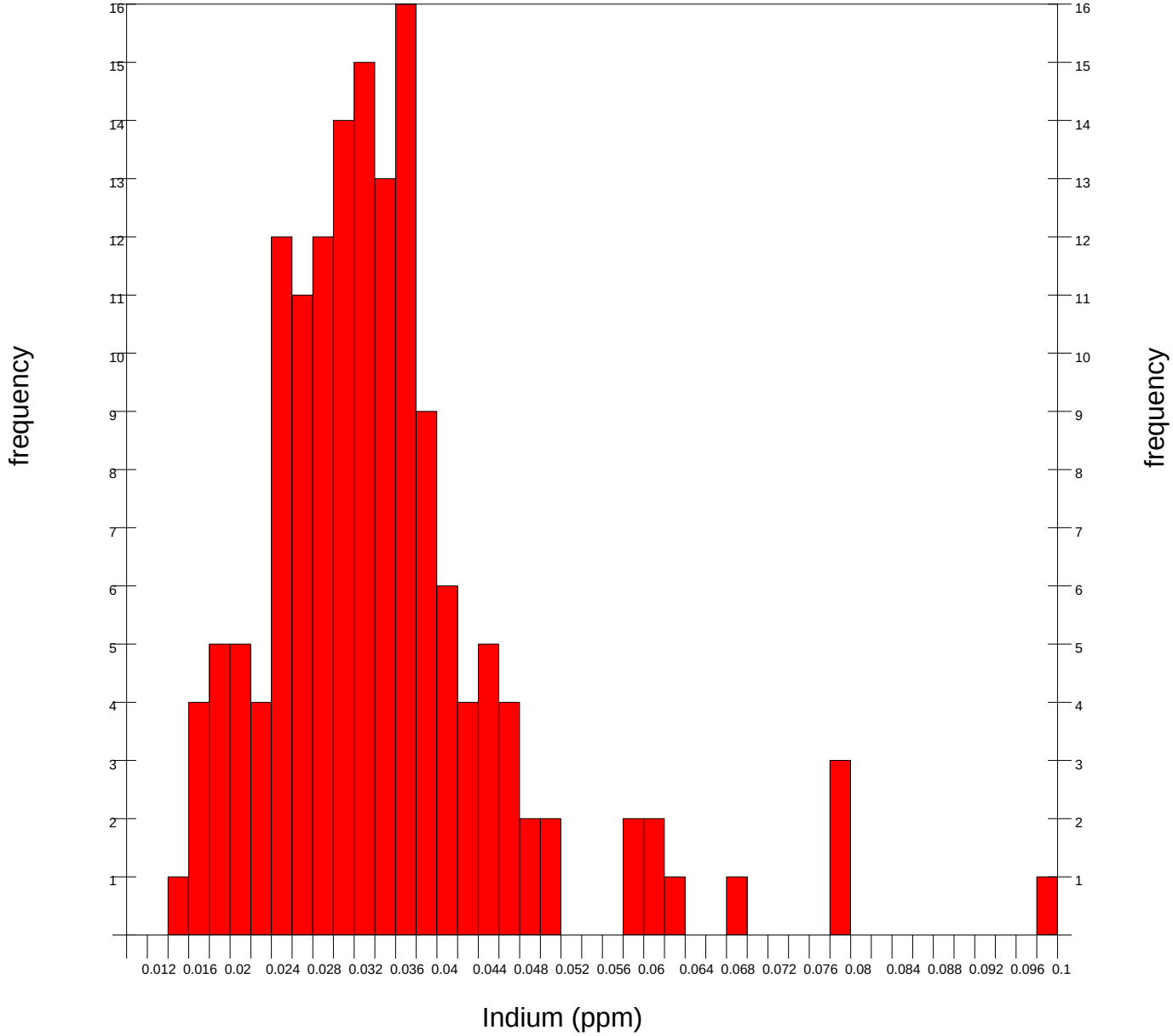
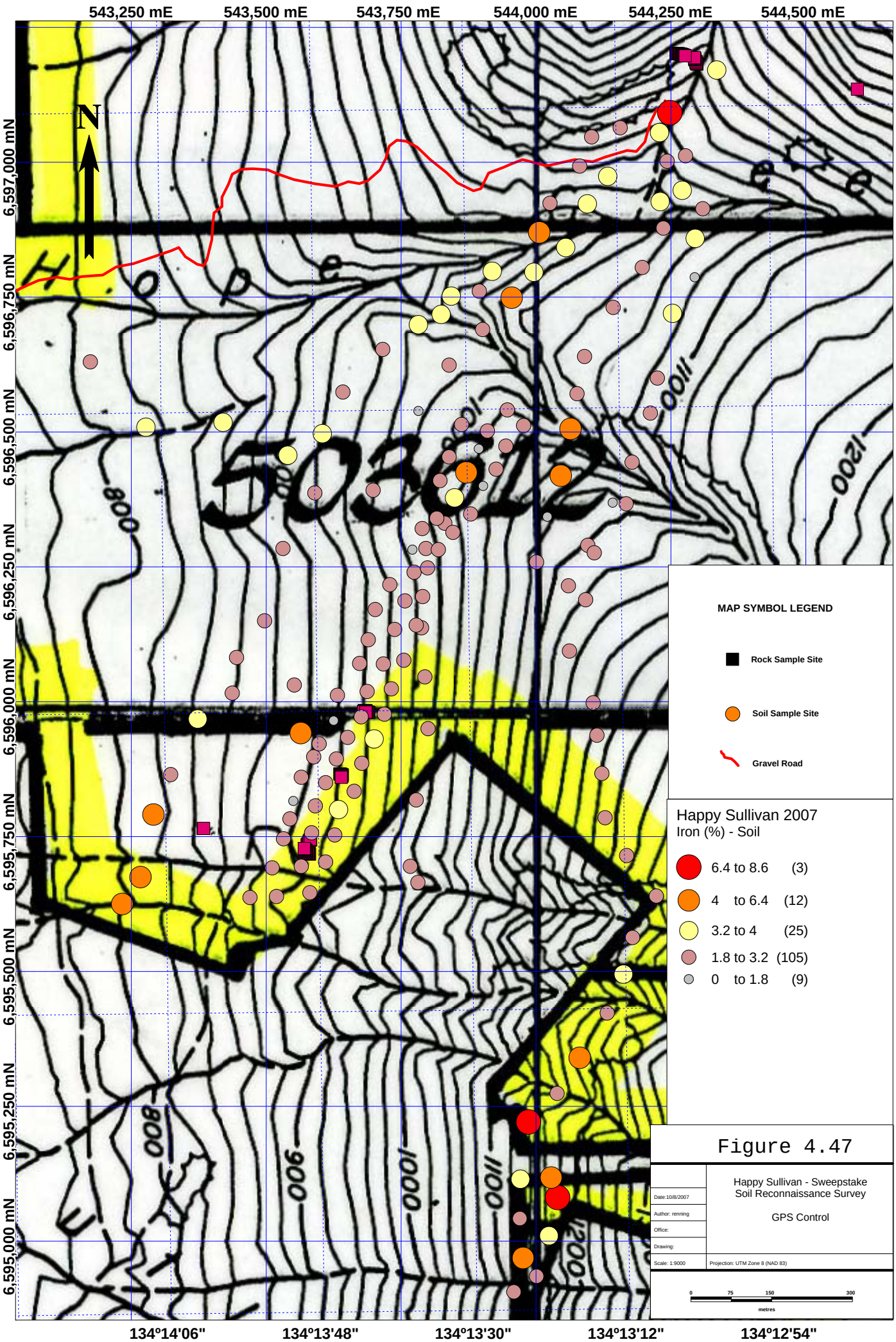
59°30'
59°29'42"
59°29'24"
134°14'06"
134°13'48"
134°13'30"
134°13'12"
134°12'54"
N
Hope
Forbes
800
900
1000
1100
1200
MAP SYMBOL LEGEND
Rock Sample Site
Soil Sample Site
Gravel Road
Happy Sullivan 2007
Indium (ppm) - Soil
0.058 to 0.099 (10)
0.044 to 0.058 (13)
0.03 to 0.044 (77)
0.024 to 0.03 (35)
0 to 0.024 (19)
Figure 4.46
Happy Sullivan - Sweepstake
Soil Reconnaissance Survey
GPS Control
Date:10/8/2007
Author: renning
Office:
Drawing:
Scale: 1:9000
Projection: UTM Zone 8 (NAD 83)
0
75
150
300
metres

Happy Sullivan Soil Indium Statistics

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6,595,750 mN
6,595,500 mN
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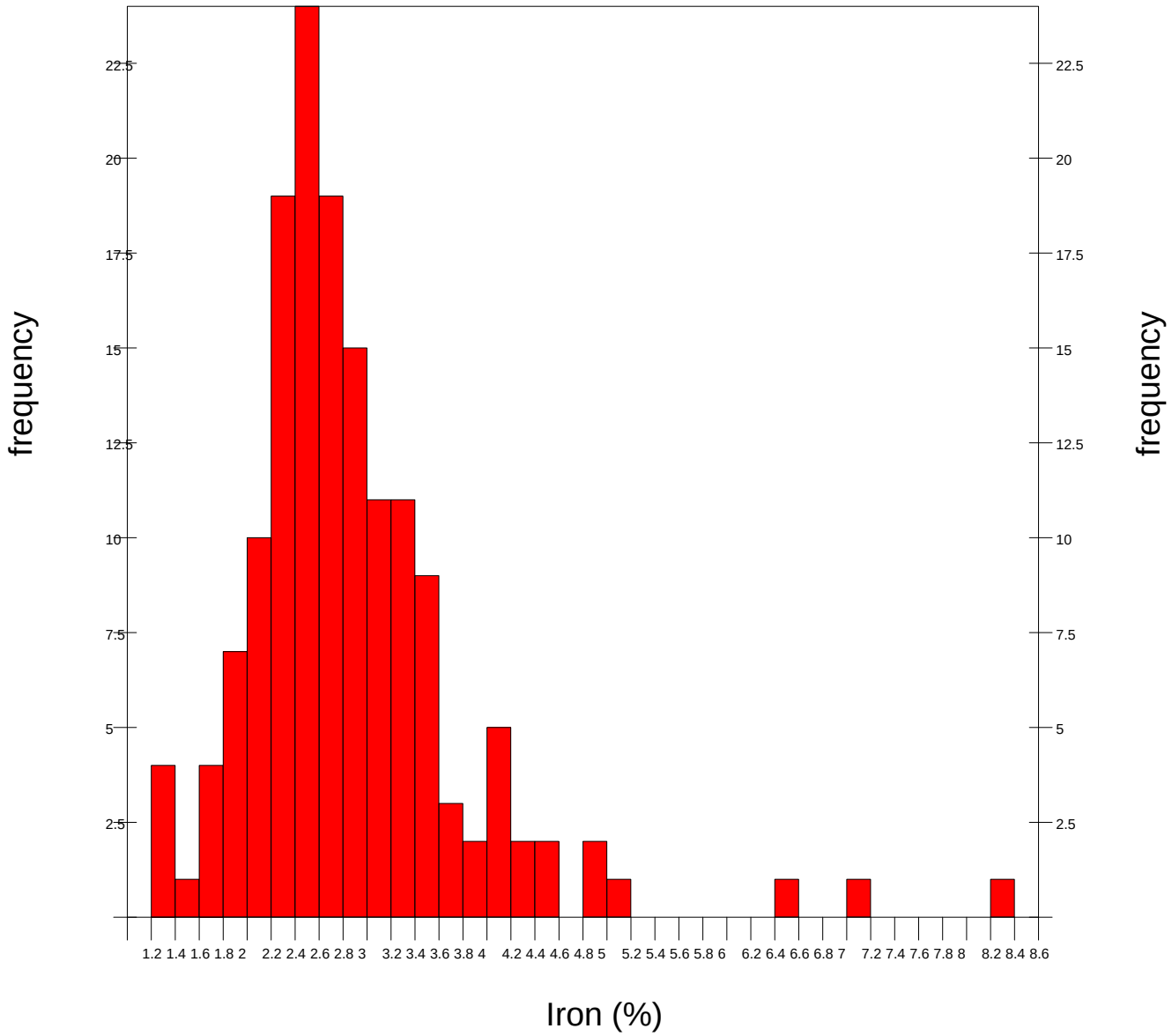
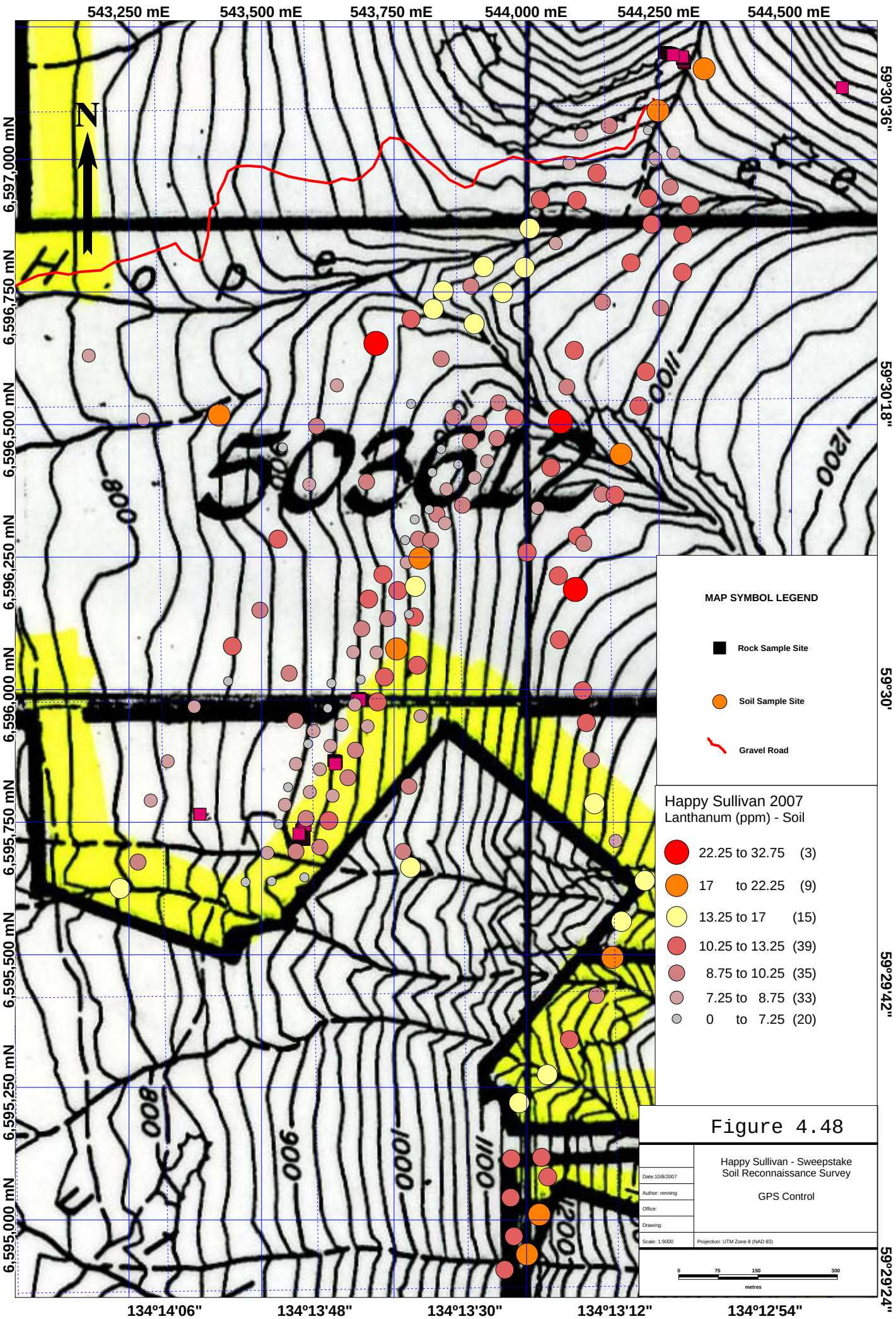
59°30'
59°29'42"
59°29'24"
134°14'06"
134°13'48"
134°13'30"
134°13'12"
134°12'54"
N
Hope
Fobes
800
900
1000
1100
1200
MAP SYMBOL LEGEND
Rock Sample Site
Soil Sample Site
Gravel Road
Happy Sullivan 2007
Iron (%) - Soil
6.4 to 8.6 (3)
4 to 6.4 (12)
3.2 to 4 (25)
1.8 to 3.2 (105)
0 to 1.8 (9)
Figure 4.47
Happy Sullivan - Sweepstake
Soil Reconnaissance Survey
GPS Control
Date:10/8/2007
Author: renning
Office:
Drawing:
Scale: 1:9000
Projection: UTM Zone 8 (NAD 83)
0
75
150
300
metres

Happy Sullivan Soil Iron Statistics

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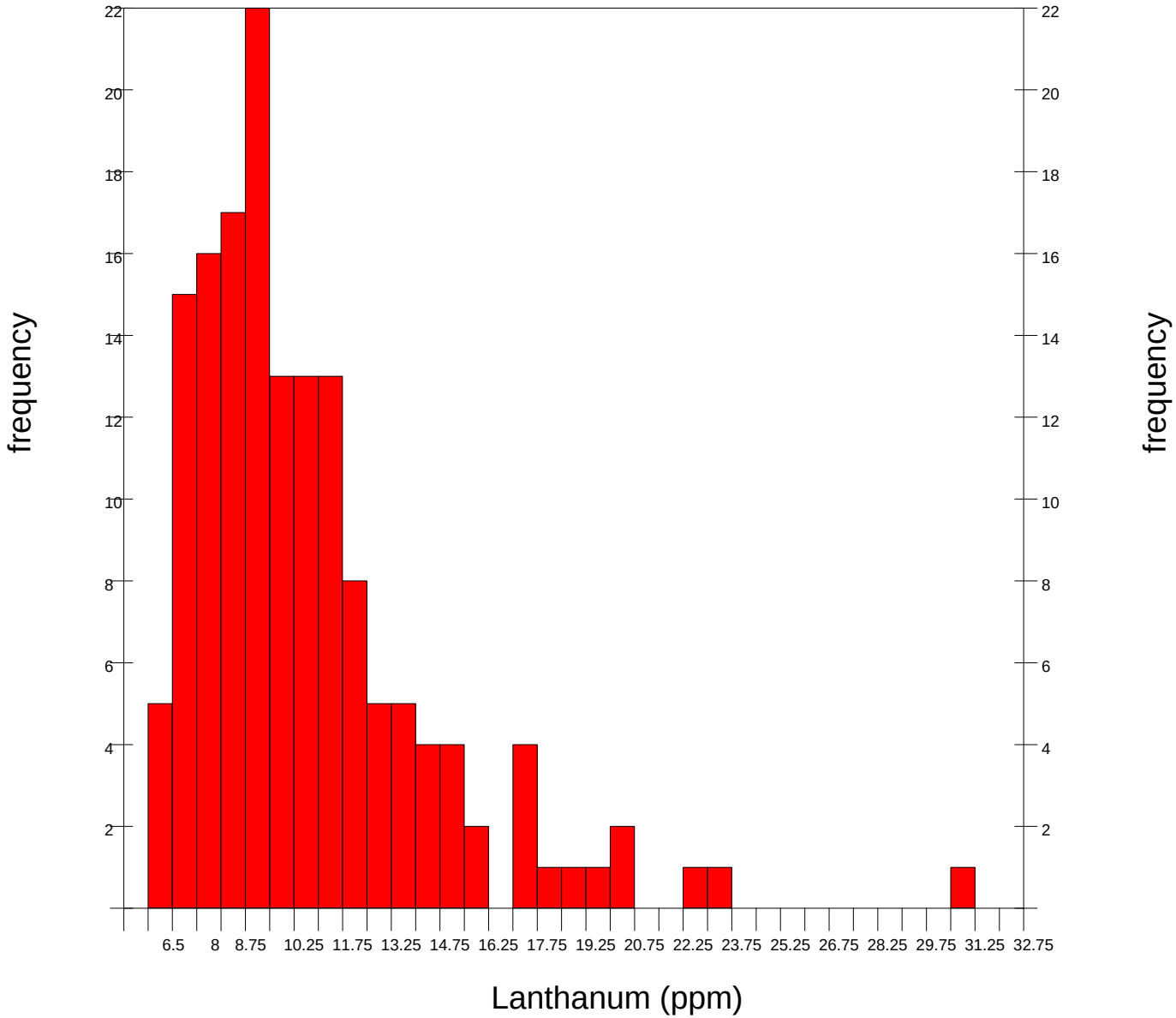
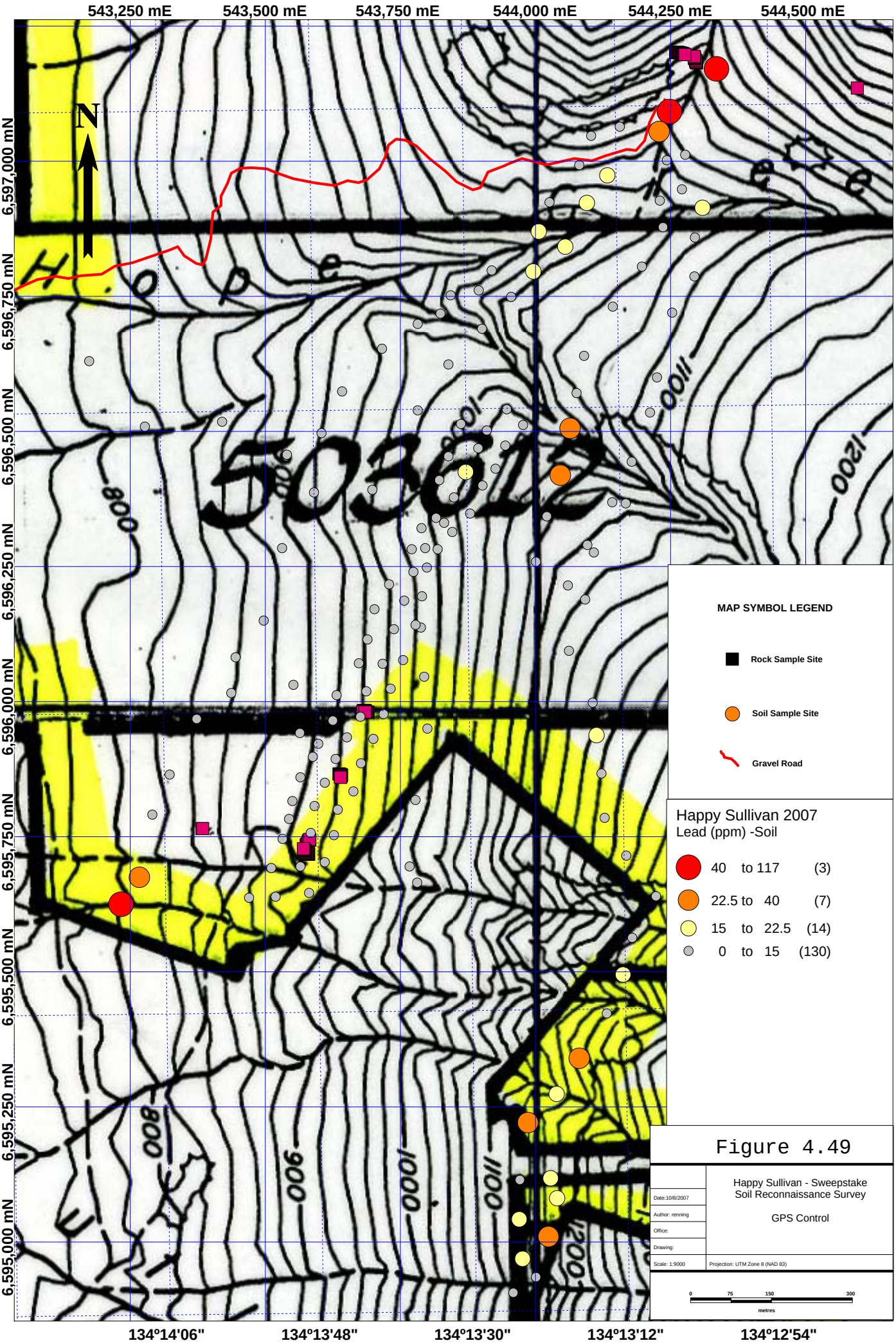
6,596,250 mN
6,596,000 mN
6,595,750 mN
6,595,500 mN
6,595,250 mN
6,595,000 mN
59°30'36"
59°30'18"
59°30'
59°29'42"
59°29'24"
134°14'06"
134°13'48"
134°13'30"
134°13'12"
134°12'54"
N
Hope
Gold
MAP SYMBOL LEGEND
Rock Sample Site
Soil Sample Site
Gravel Road
Happy Sullivan 2007
Lanthanum (ppm) - Soil
22.25 to 32.75 (3)
17 to 22.25 (9)
13.25 to 17 (15)
10.25 to 13.25 (39)
8.75 to 10.25 (35)
7.25 to 8.75 (33)
0 to 7.25 (20)
Figure 4.48
Happy Sullivan - Sweepstake
Soil Reconnaissance Survey
GPS Control
Date:10/8/2007
Author: renning
Office:
Drawing:
Scale: 1:9000
Projection: UTM Zone 8 (NAD 83)
0
75
150
300
metres

Happy Sullivan Soil Lanthanum Statistics

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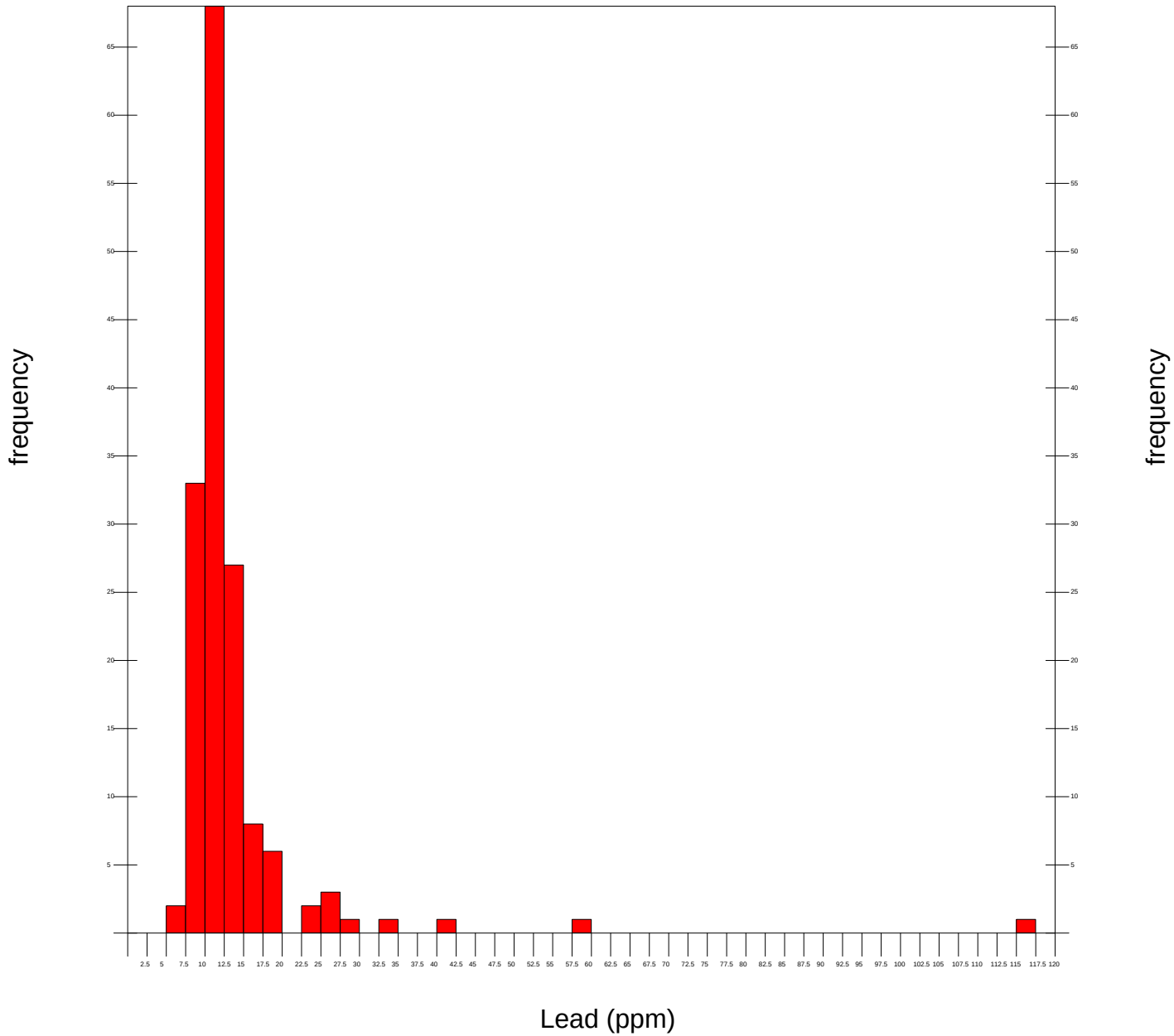
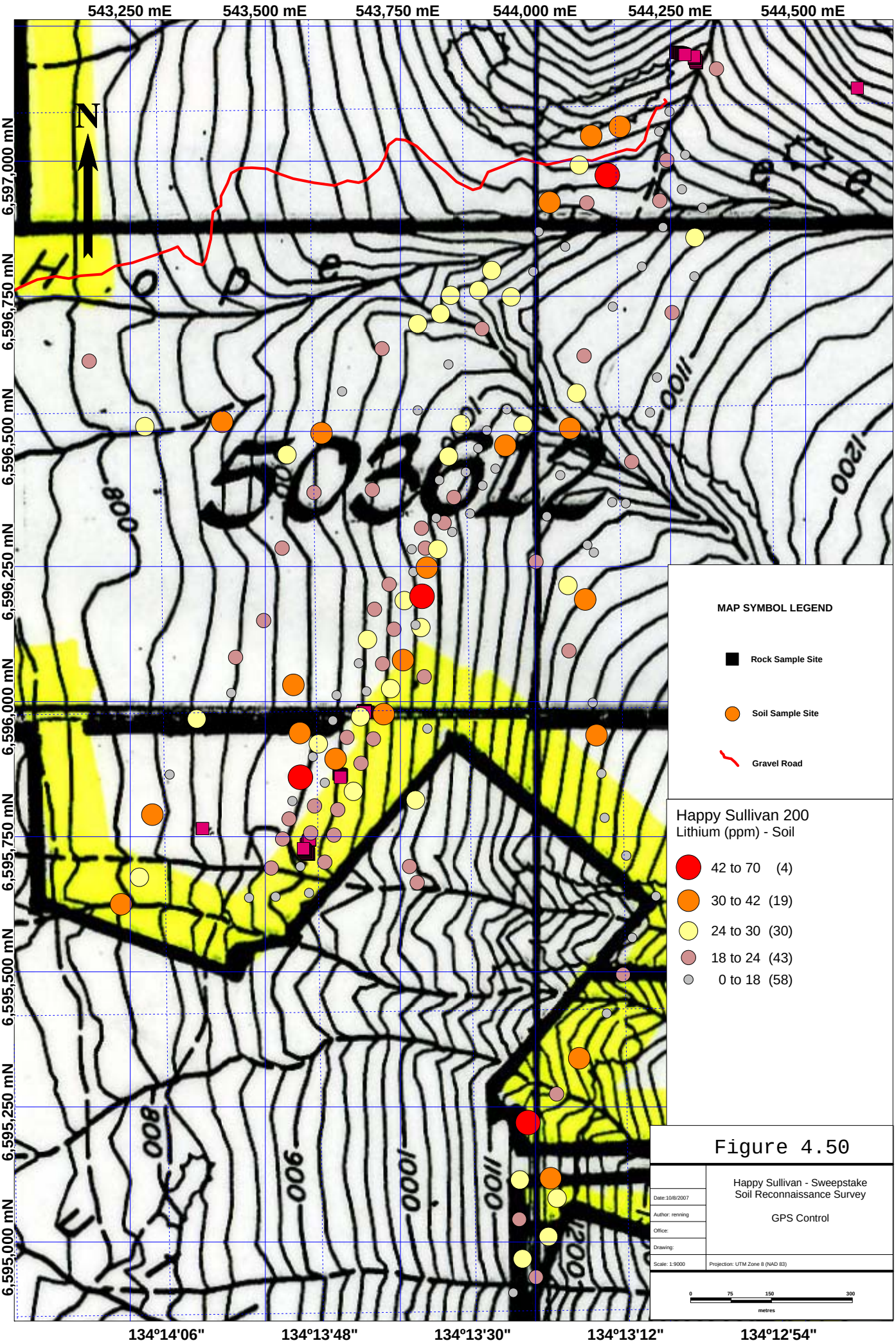
6,596,250 mN
6,596,000 mN
6,595,750 mN
6,595,500 mN
6,595,250 mN
6,595,000 mN
59°30'36"
59°30'18"
59°30'
59°29'42"
59°29'24"
134°14'06"
134°13'48"
134°13'30"
134°13'12"
134°12'54"
N
Hope
5036
MAP SYMBOL LEGEND
Rock Sample Site
Soil Sample Site
Gravel Road
Happy Sullivan 2007
Lead (ppm) -Soil
40 to 117 (3)
22.5 to 40 (7)
15 to 22.5 (14)
0 to 15 (130)
Figure 4.49
Happy Sullivan - Sweepstake
Soil Reconnaissance Survey
GPS Control
Date:10/8/2007
Author: renning
Office:
Drawing:
Scale: 1:9000
Projection: UTM Zone 8 (NAD 83)
0 75 150 300
metres

Happy Sullivan Soil Lead Statistics

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6,595,750 mN
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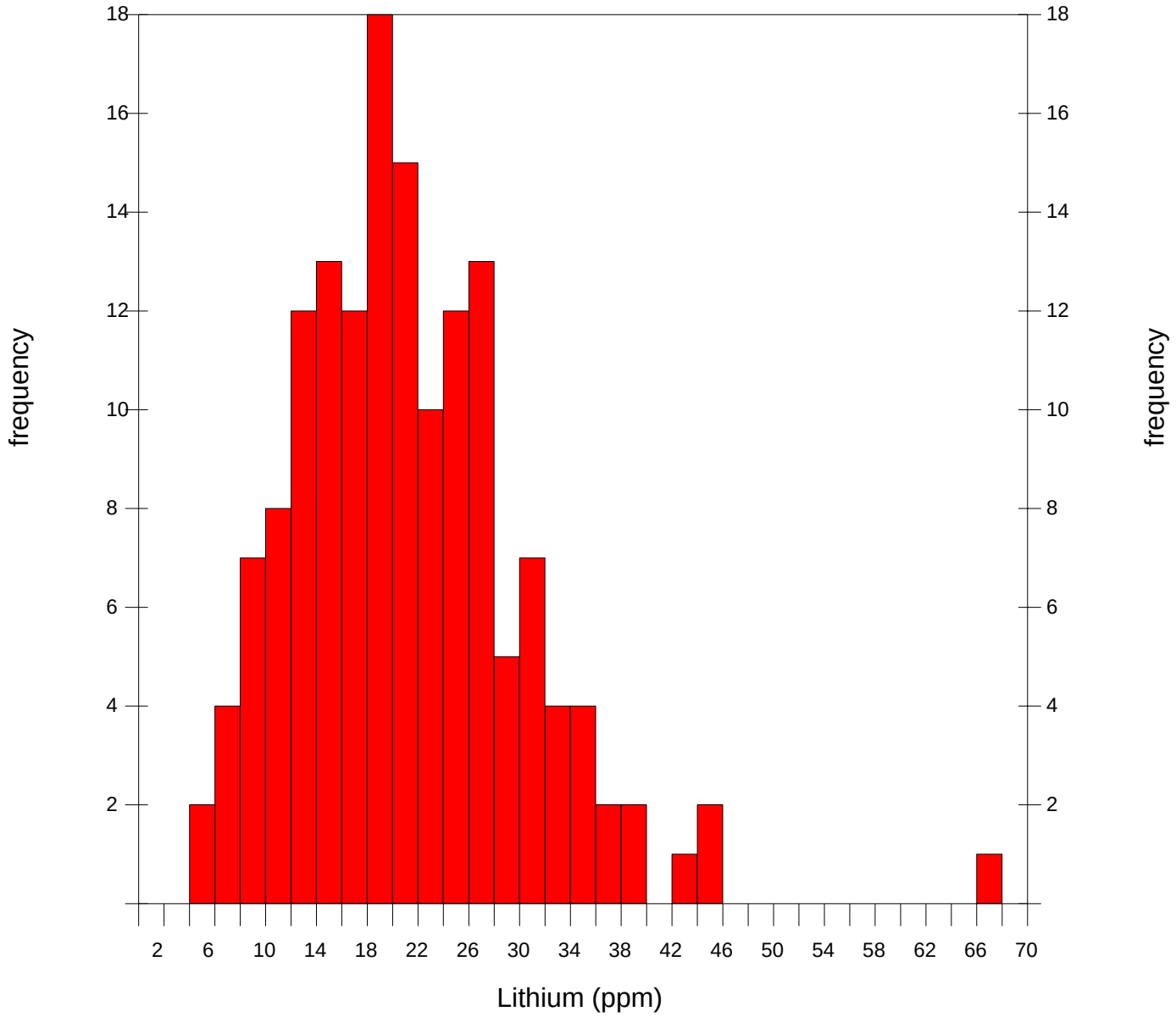
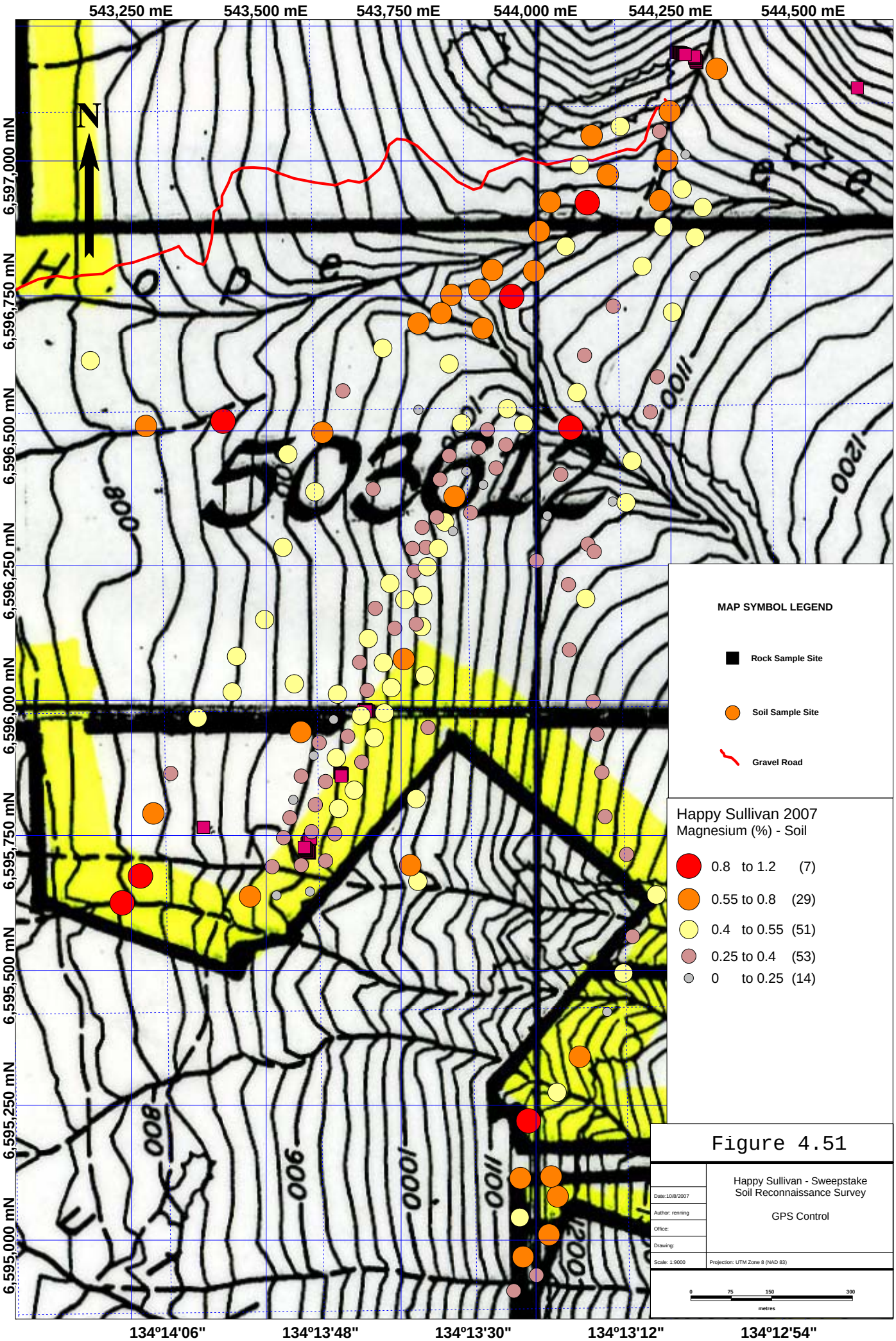
59°30'36"
59°30'18"
59°30'
59°29'42"
59°29'24"
134°14'06"
134°13'48"
134°13'30"
134°13'12"
134°12'54"
N
Hope
Fobes
800
900
1000
1100
1200
MAP SYMBOL LEGEND
Rock Sample Site
Soil Sample Site
Gravel Road
Happy Sullivan 200
Lithium (ppm) - Soil
42 to 70 (4)
30 to 42 (19)
24 to 30 (30)
18 to 24 (43)
0 to 18 (58)
Figure 4.50
Happy Sullivan - Sweepstake
Soil Reconnaissance Survey
GPS Control
Date:10/8/2007
Author: renning
Office:
Drawing:
Scale: 1:9000
Projection: UTM Zone 8 (NAD 83)
0
75
150
300
metres

Happy Sullivan Soil Lithium Statistics

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6,595,250 mN
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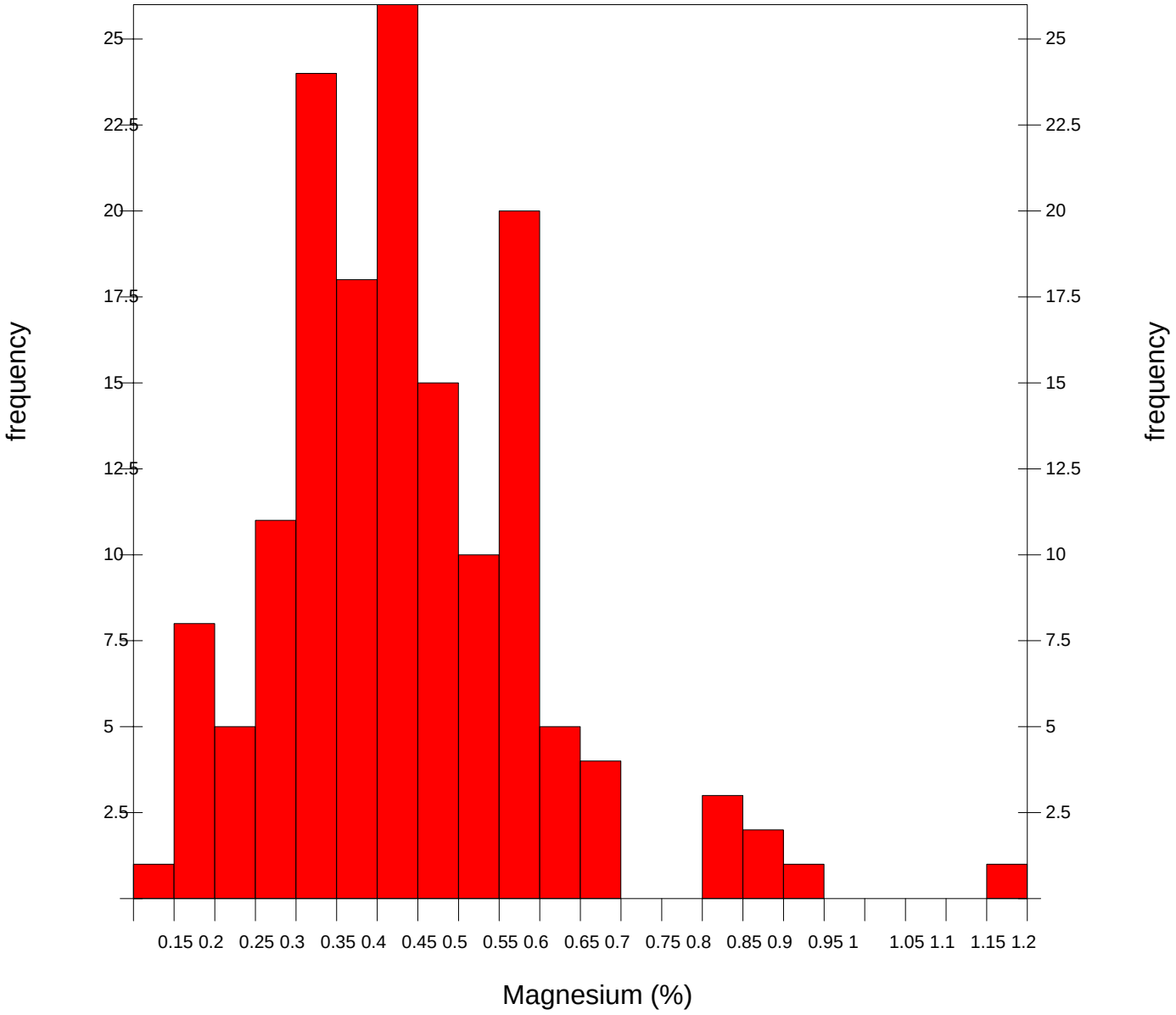
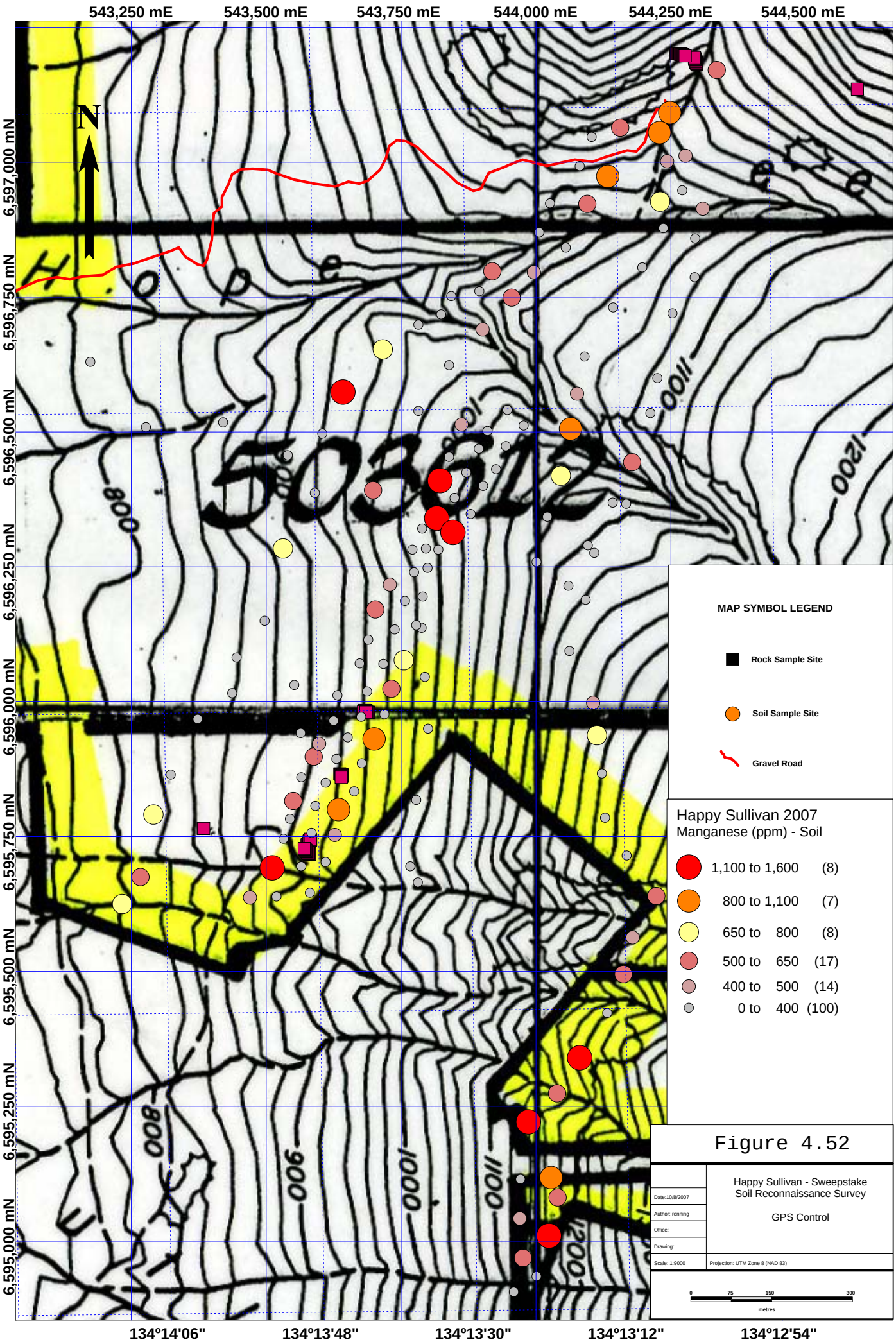
59°30'36"
59°30'18"
59°30'
59°29'42"
59°29'24"
134°14'06"
134°13'48"
134°13'30"
134°13'12"
134°12'54"
N
Hope
Bay
MAP SYMBOL LEGEND
Rock Sample Site
Soil Sample Site
Gravel Road
Happy Sullivan 2007
Magnesium (%) - Soil
0.8 to 1.2 (7)
0.55 to 0.8 (29)
0.4 to 0.55 (51)
0.25 to 0.4 (53)
0 to 0.25 (14)
Figure 4.51
Happy Sullivan - Sweepstake
Soil Reconnaissance Survey
GPS Control
Date:10/8/2007
Author: renning
Office:
Drawing:
Scale: 1:9000
Projection: UTM Zone 8 (NAD 83)
0 75 150 300
metres

Happy Sullivan Soil Magnesium Statistics

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6,596,750 mN
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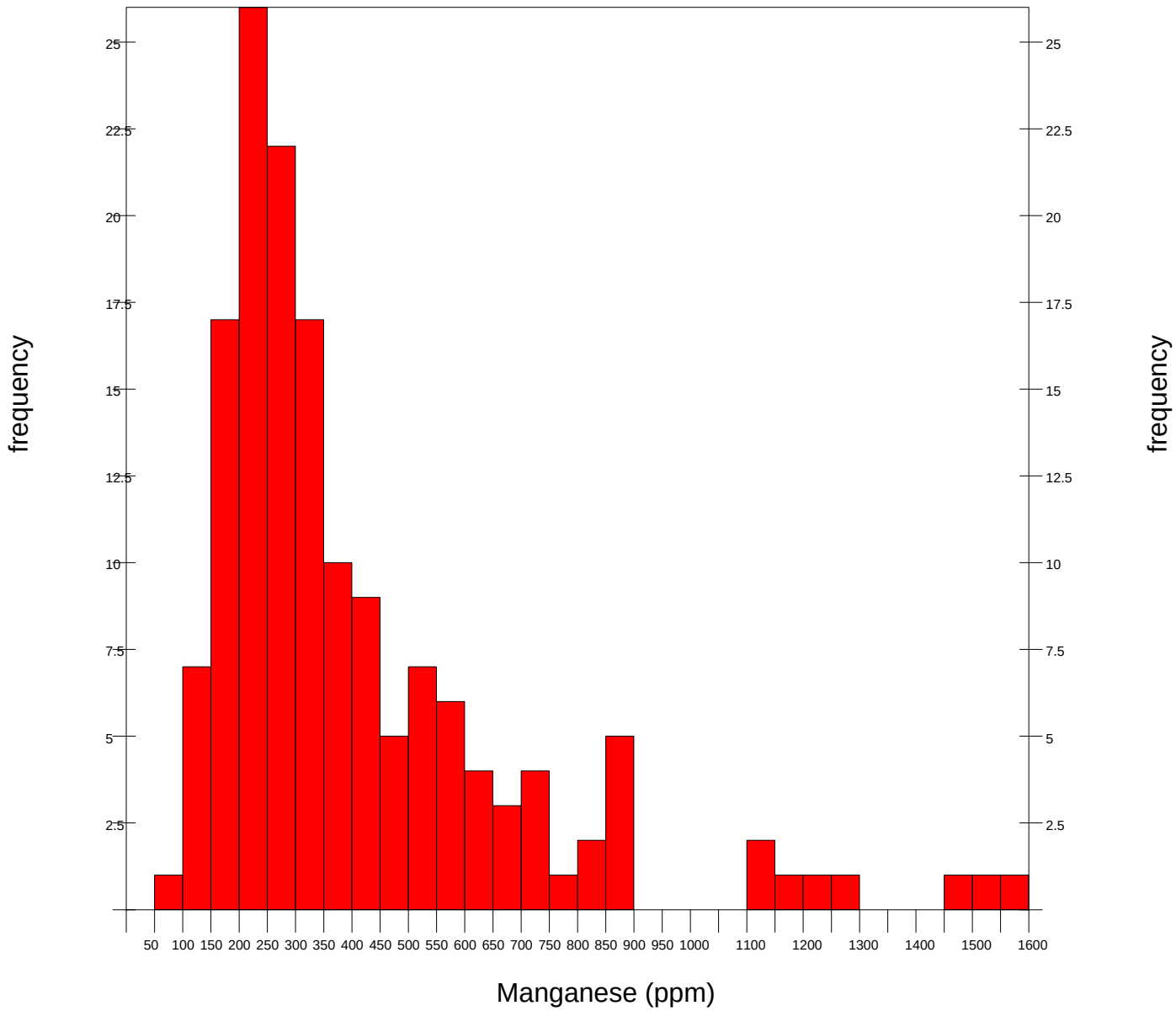
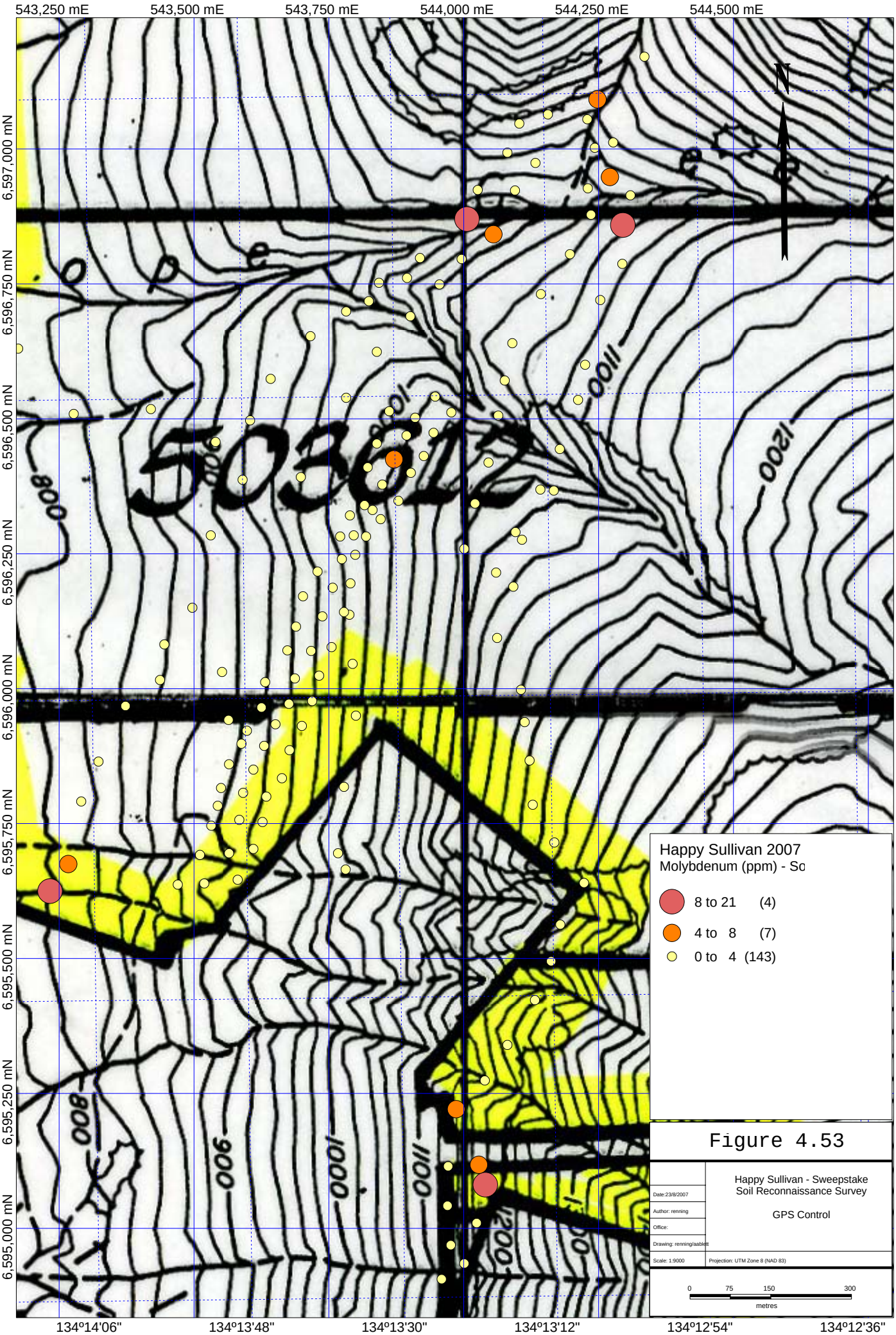
6,596,250 mN
6,596,000 mN
6,595,750 mN
6,595,500 mN
6,595,250 mN
6,595,000 mN
59°30'36"
59°30'18"
59°30'
59°29'42"
59°29'24"
134°14'06"
134°13'48"
134°13'30"
134°13'12"
134°12'54"
N
Hope
5036
800
900
1000
1100
1200
MAP SYMBOL LEGEND
Rock Sample Site
Soil Sample Site
Gravel Road
Happy Sullivan 2007
Manganese (ppm) - Soil
1,100 to 1,600 (8)
800 to 1,100 (7)
650 to 800 (8)
500 to 650 (17)
400 to 500 (14)
0 to 400 (100)
Figure 4.52
Happy Sullivan - Sweepstake
Soil Reconnaissance Survey
GPS Control
Date:10/8/2007
Author: renning
Office:
Drawing:
Scale: 1:9000
Projection: UTM Zone 8 (NAD 83)
0
75
150
300
metres

Happy Sullivan Soil Manganese Statistics

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544,000 mE
544,250 mE
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59°30'18"
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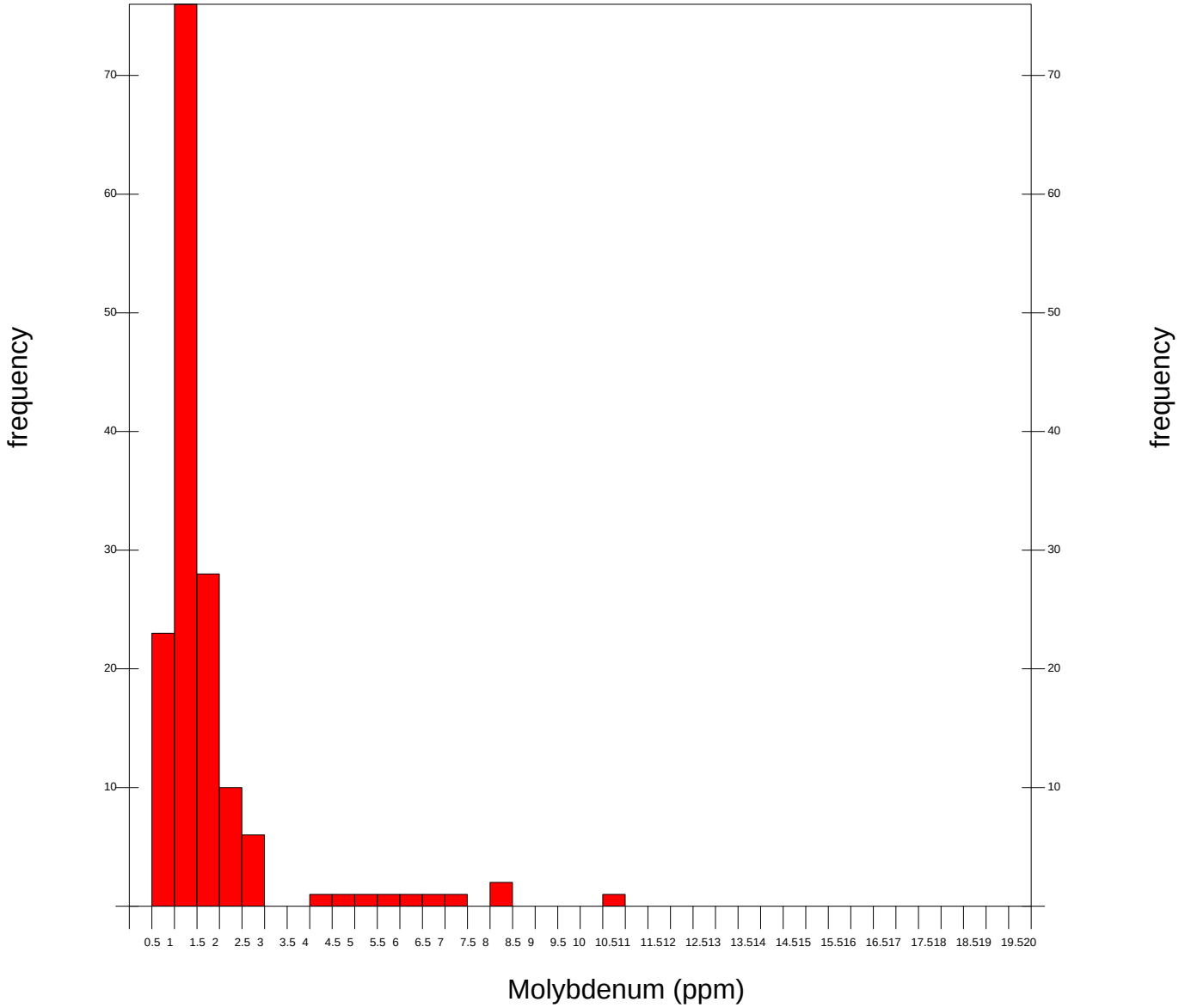
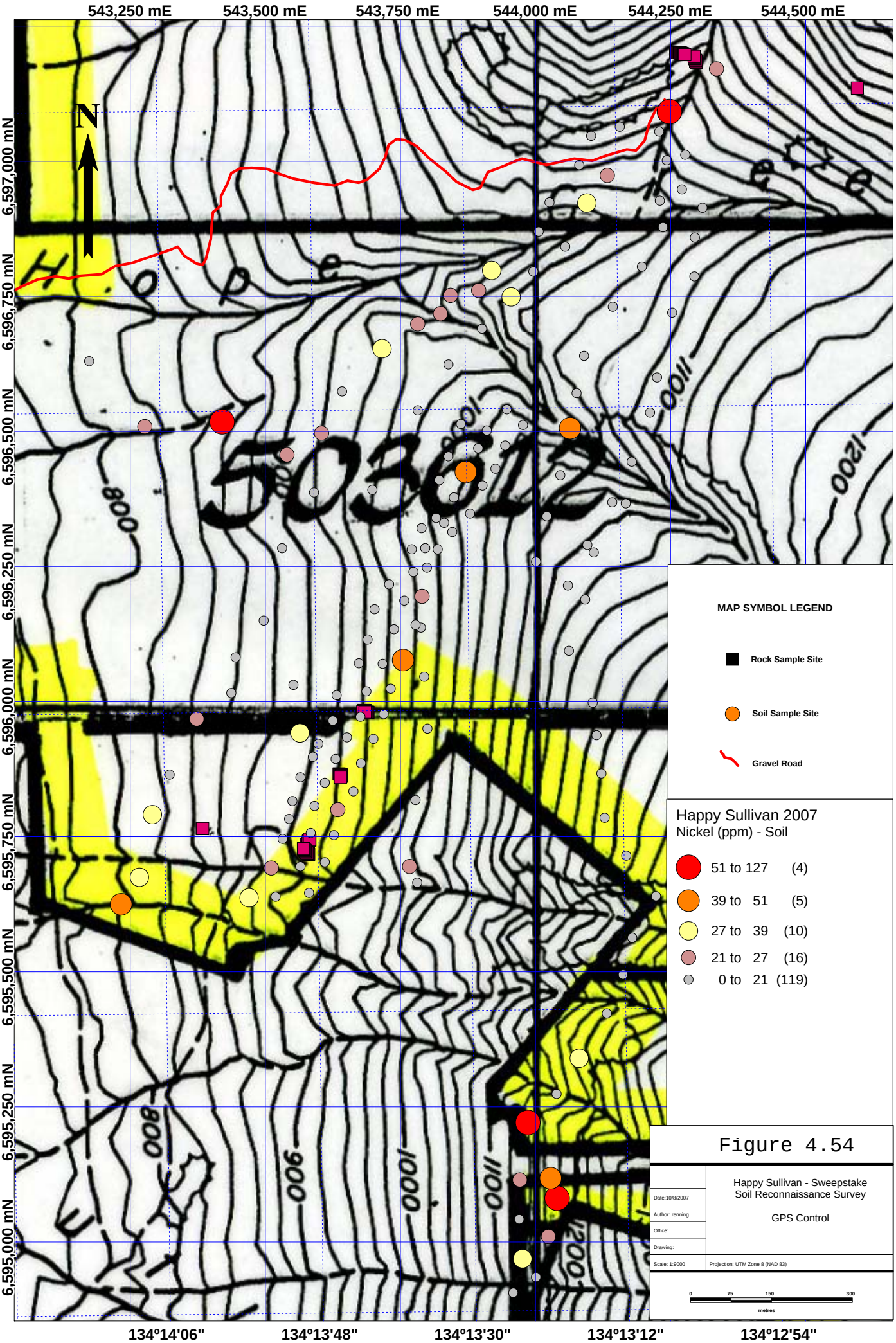
6,597,000 mN
6,596,750 mN
6,596,500 mN
6,596,250 mN
6,596,000 mN
6,595,750 mN
6,595,500 mN
6,595,250 mN
6,595,000 mN
134°14'06"
134°13'48"
134°13'30"
134°13'12"
134°12'54"
134°12'36"
Happy Sullivan 2007
Molybdenum (ppm) - So
8 to 21 (4)
4 to 8 (7)
0 to 4 (143)
Figure 4.53
Happy Sullivan - Sweepstake
Soil Reconnaissance Survey
GPS Control
Date:23/8/2007
Author: renning
Office:
Drawing: renning/aablett
Scale: 1:9000
Projection: UTM Zone 8 (NAD 83)
0 75 150 300
metres

Happy Sullivan Soil Molybdenum Statistics

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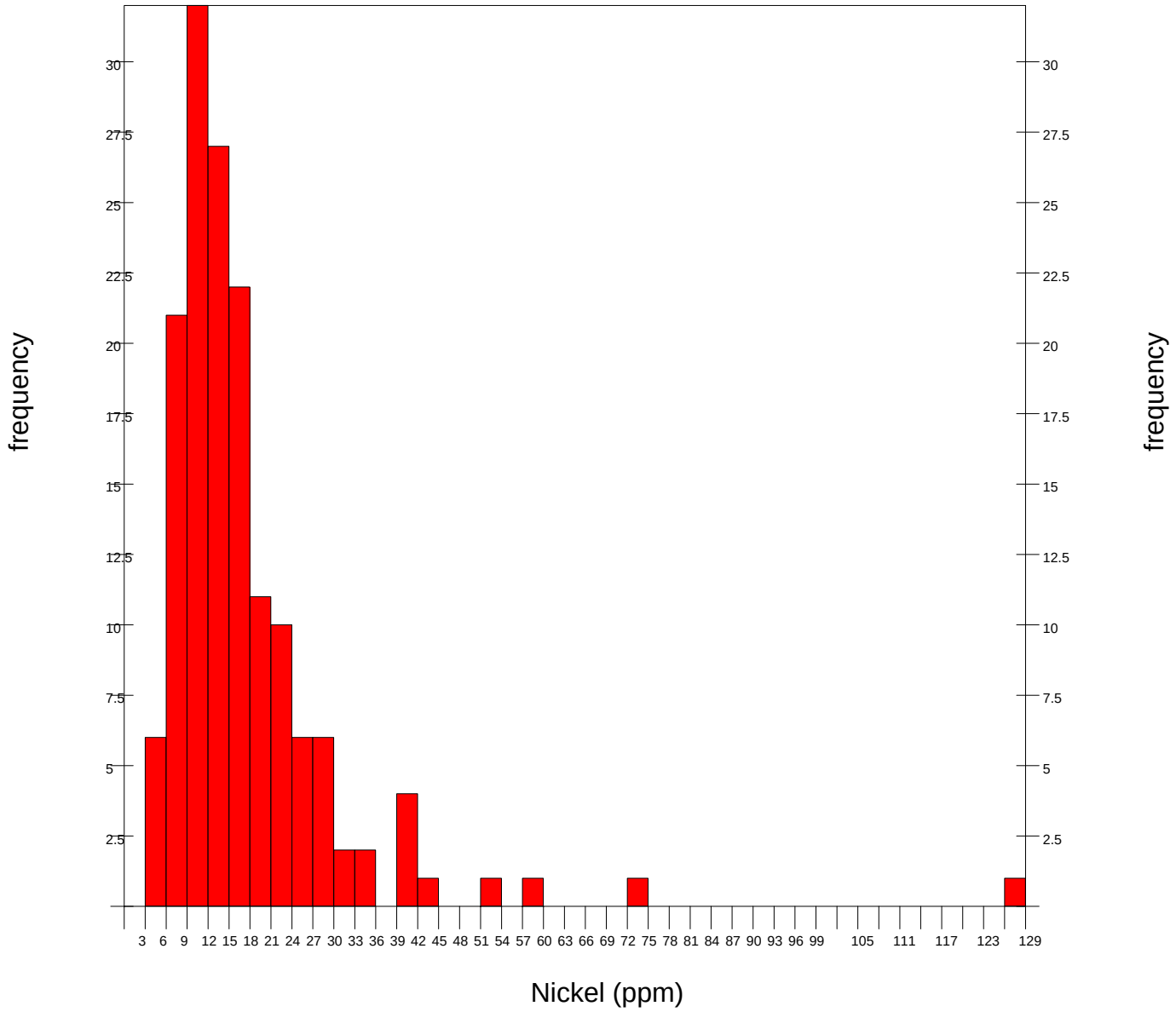
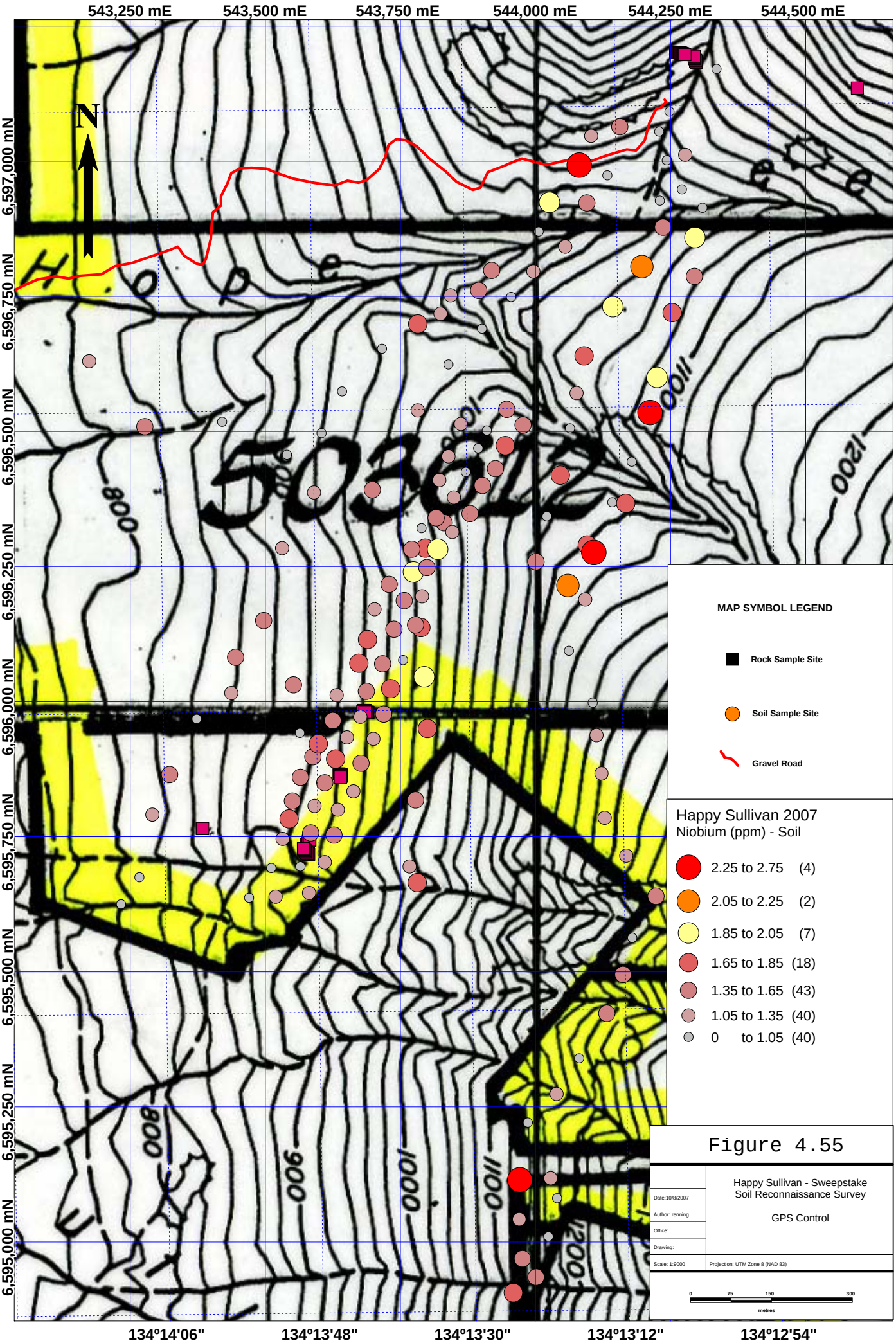
6,595,750 mN
6,595,500 mN
6,595,250 mN
6,595,000 mN
59°30'36"
59°30'18"
59°30'
59°29'42"
59°29'24"
134°14'06"
134°13'48"
134°13'30"
134°13'12"
134°12'54"
N
Hope
Goboil
800
900
1000
1100
1200
MAP SYMBOL LEGEND
Rock Sample Site
Soil Sample Site
Gravel Road
Happy Sullivan 2007
Nickel (ppm) - Soil
51 to 127 (4)
39 to 51 (5)
27 to 39 (10)
21 to 27 (16)
0 to 21 (119)
Figure 4.54
Happy Sullivan - Sweepstake
Soil Reconnaissance Survey
GPS Control
Date:10/8/2007
Author: renning
Office:
Drawing:
Scale: 1:9000
Projection: UTM Zone 8 (NAD 83)
0
75
150
300
metres

Happy Sullivan Soil Nickel Statistics

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544,500 mE
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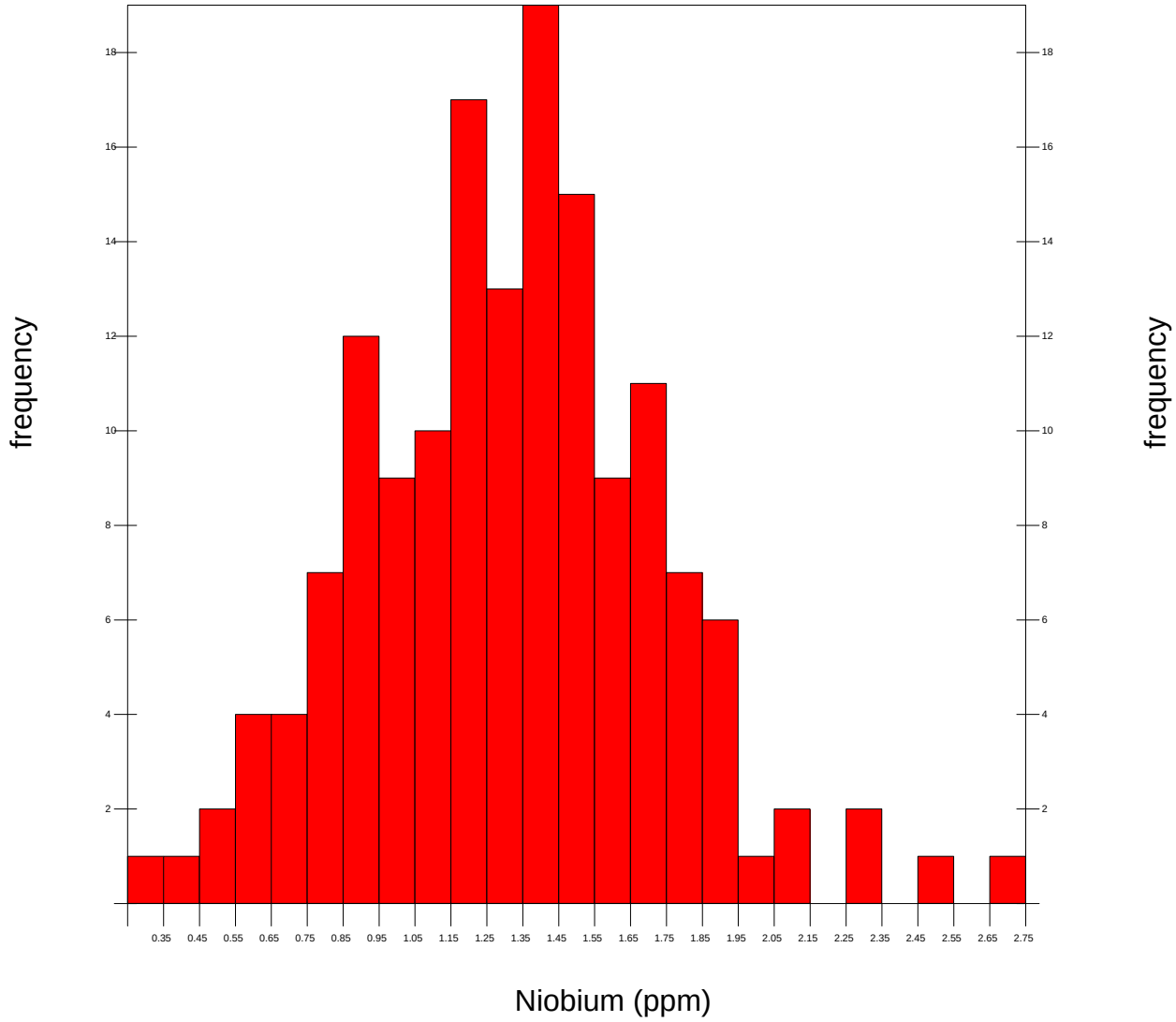
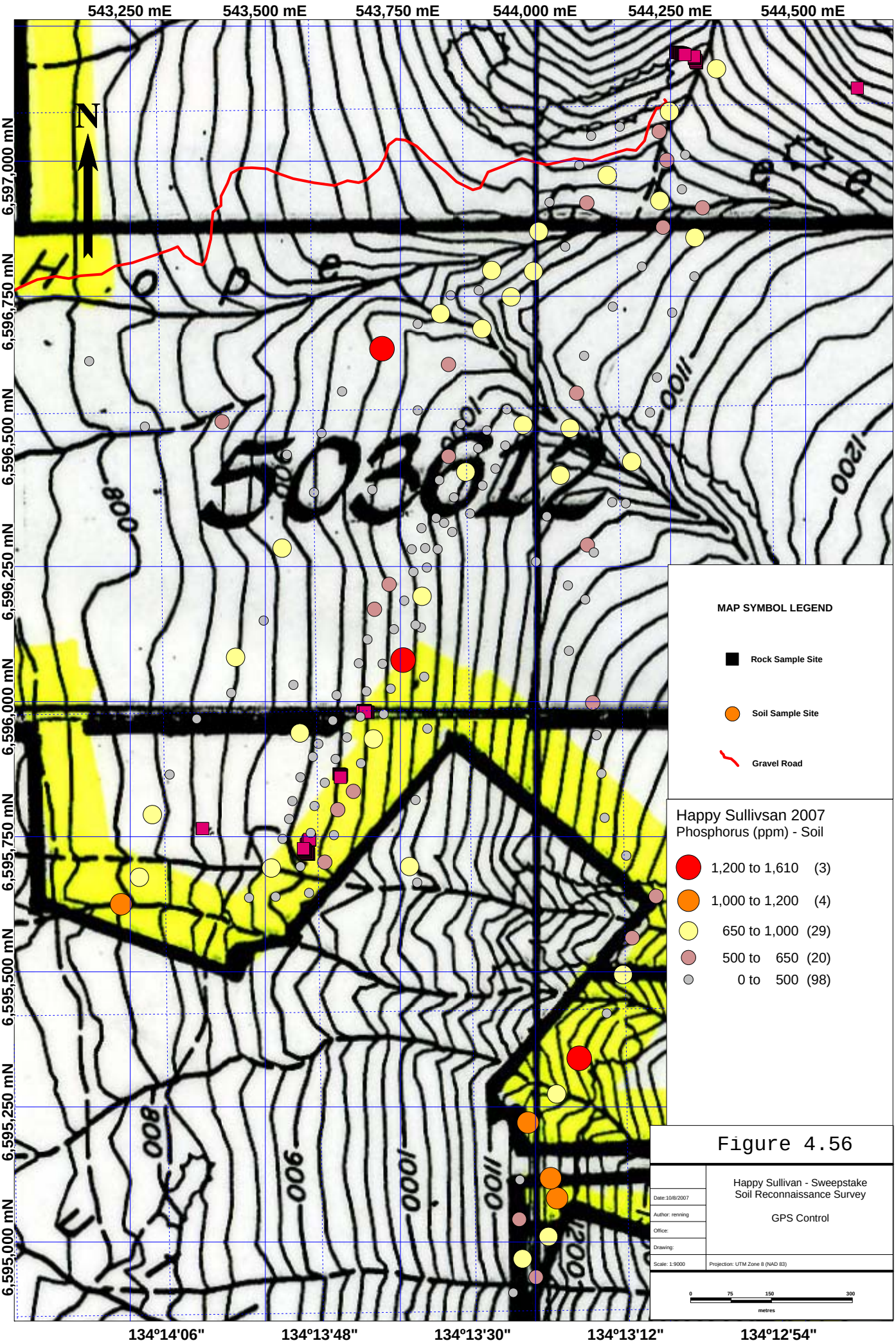
6,596,000 mN
6,595,750 mN
6,595,500 mN
6,595,250 mN
6,595,000 mN
59°30'36"
59°30'18"
59°30'
59°29'42"
59°29'24"
134°14'06"
134°13'48"
134°13'30"
134°13'12"
134°12'54"
N
Hope
Fork
800
900
1000
1100
1200
MAP SYMBOL LEGEND
Rock Sample Site
Soil Sample Site
Gravel Road
Happy Sullivan 2007
Niobium (ppm) - Soil
2.25 to 2.75 (4)
2.05 to 2.25 (2)
1.85 to 2.05 (7)
1.65 to 1.85 (18)
1.35 to 1.65 (43)
1.05 to 1.35 (40)
0 to 1.05 (40)
Figure 4.55
Happy Sullivan - Sweepstake
Soil Reconnaissance Survey
GPS Control
Date:10/8/2007
Author: renning
Office:
Drawing:
Scale: 1:9000
Projection: UTM Zone 8 (NAD 83)
0 75 150 300
metres

Happy Sullivan Soil Niobium Statistics

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543,500 mE
543,750 mE
544,000 mE
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544,500 mE
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6,596,750 mN
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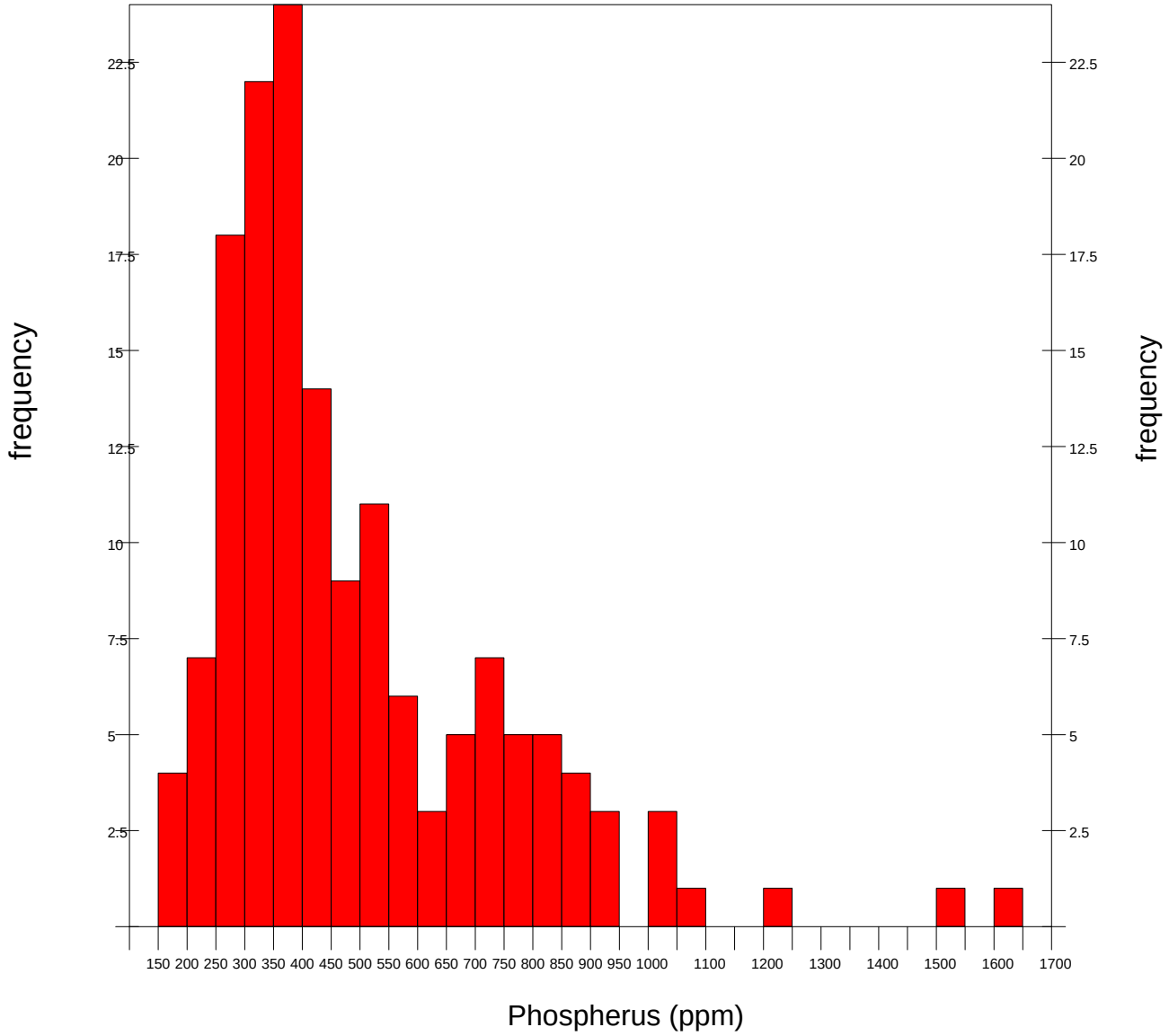
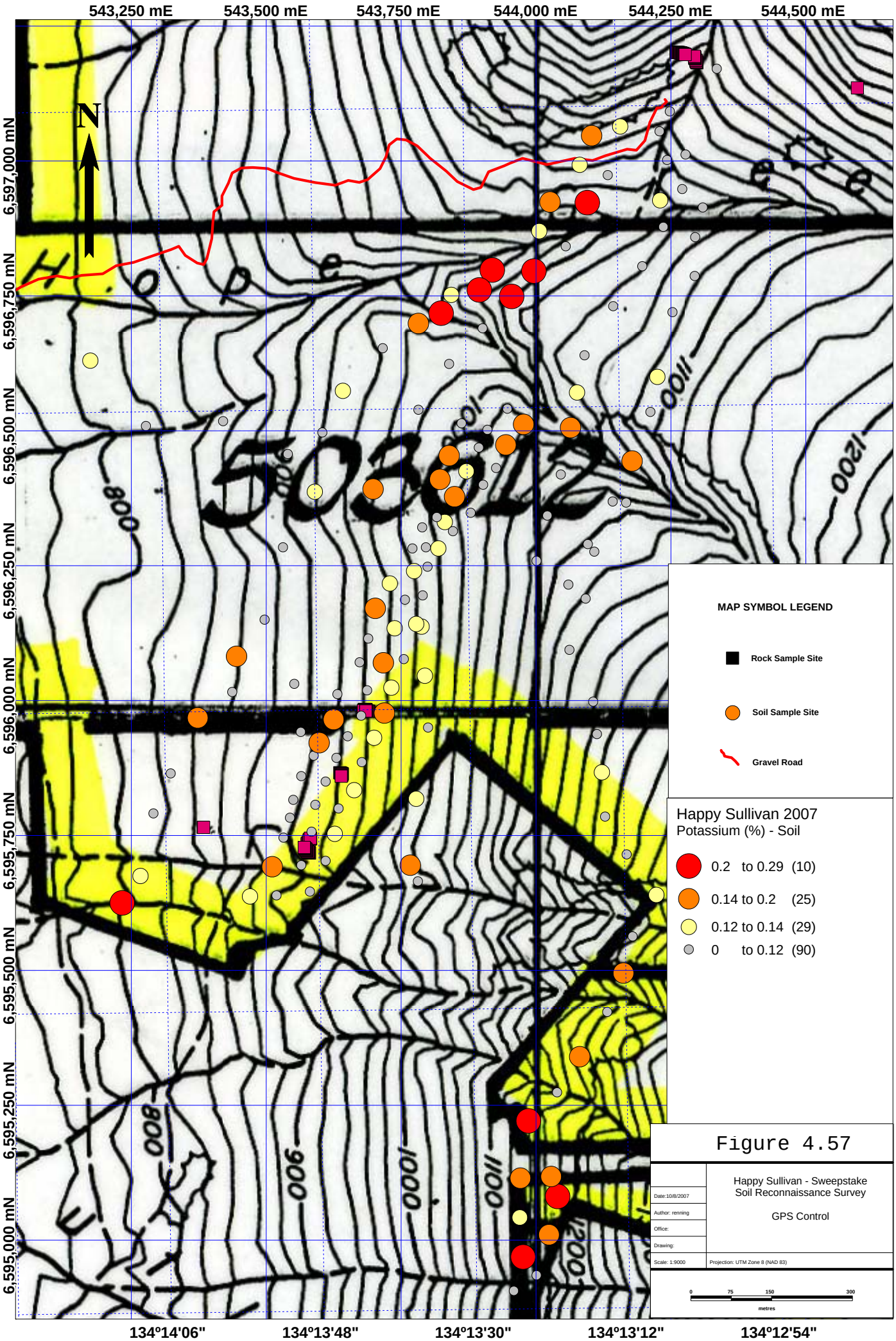
6,596,000 mN
6,595,750 mN
6,595,500 mN
6,595,250 mN
6,595,000 mN
59°30'36"
59°30'18"
59°30'
59°29'42"
59°29'24"
134°14'06"
134°13'48"
134°13'30"
134°13'12"
134°12'54"
N
MAP SYMBOL LEGEND
Rock Sample Site
Soil Sample Site
Gravel Road
Happy Sullivsan 2007
Phosphorus (ppm) - Soil
1,200 to 1,610 (3)
1,000 to 1,200 (4)
650 to 1,000 (29)
500 to 650 (20)
0 to 500 (98)
Figure 4.56
Happy Sullivan - Sweepstake
Soil Reconnaissance Survey
GPS Control
Date:10/8/2007
Author: renning
Office:
Drawing:
Scale: 1:9000
Projection: UTM Zone 8 (NAD 83)
0
75
150
300
metres

Happy Sullivan Soil Phospherus Statistics

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6,595,750 mN
6,595,500 mN
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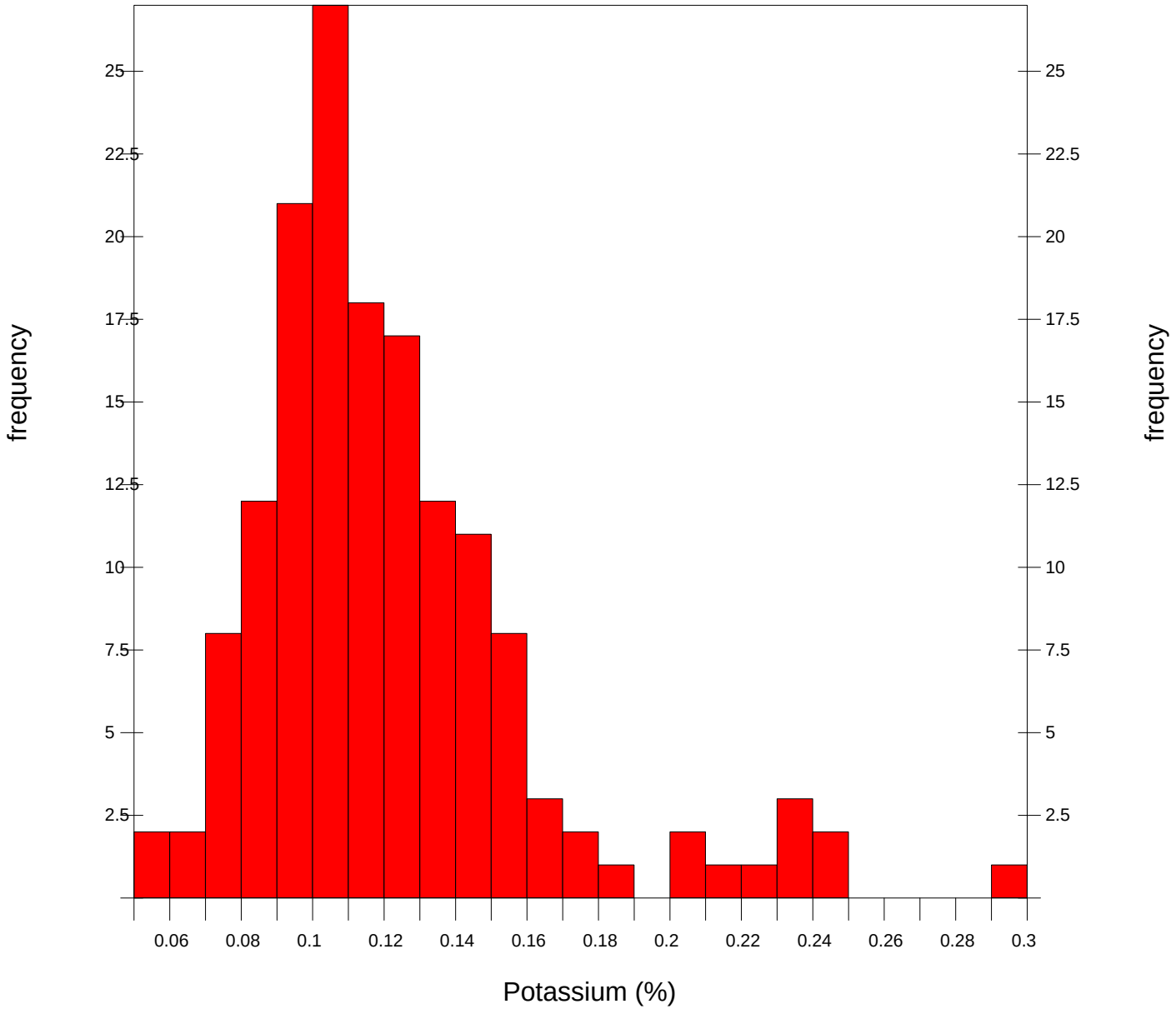
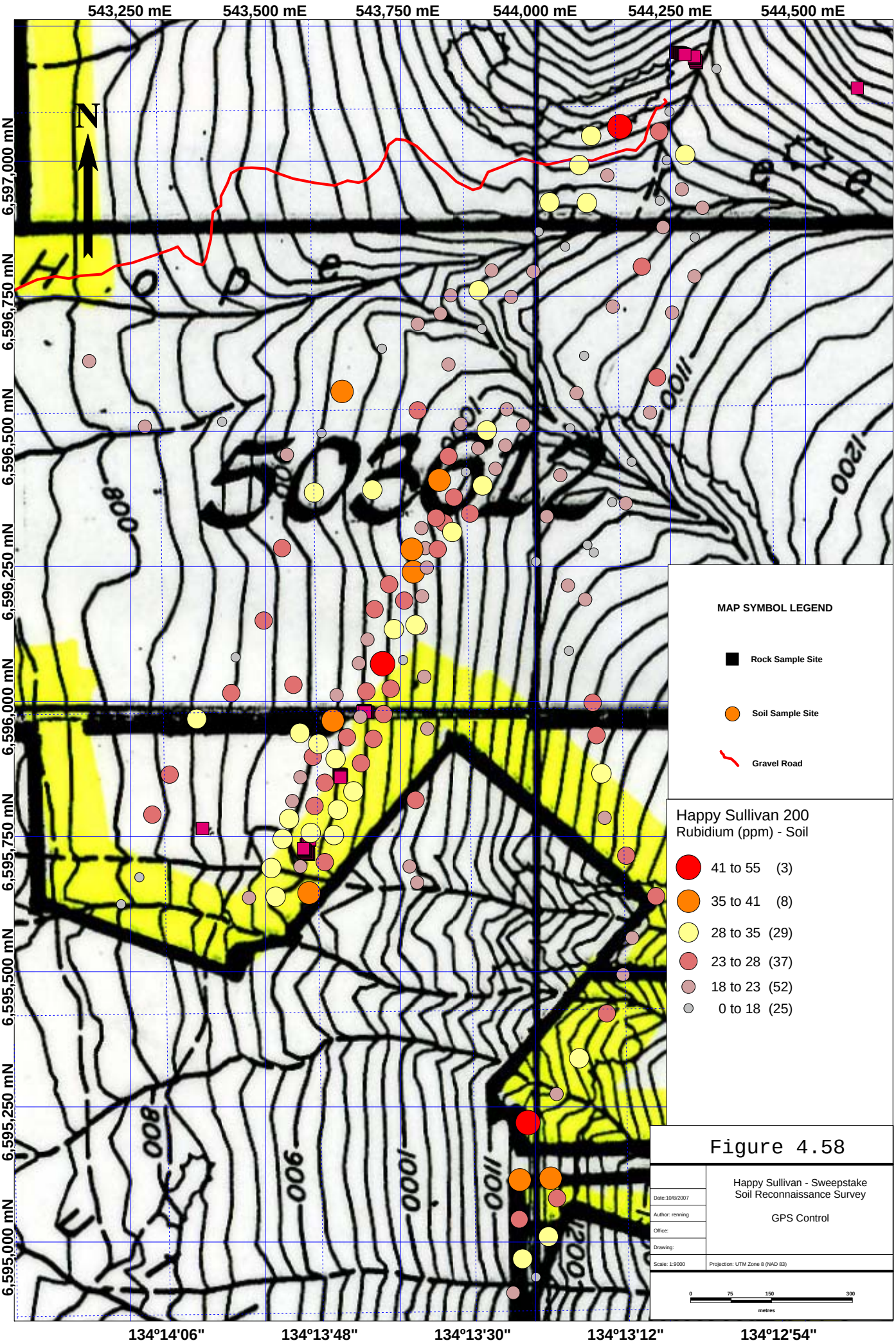
59°30'
59°29'42"
59°29'24"
134°14'06"
134°13'48"
134°13'30"
134°13'12"
134°12'54"
N
Hope
Fork
MAP SYMBOL LEGEND
Rock Sample Site
Soil Sample Site
Gravel Road
Happy Sullivan 2007
Potassium (%) - Soil
0.2 to 0.29 (10)
0.14 to 0.2 (25)
0.12 to 0.14 (29)
0 to 0.12 (90)
Figure 4.57
Happy Sullivan - Sweepstake
Soil Reconnaissance Survey
GPS Control
Date:10/8/2007
Author: renning
Office:
Drawing:
Scale: 1:9000
Projection: UTM Zone 8 (NAD 83)
0
75
150
300
metres

Happy Sullivan Soil Potassium Statistics

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543,500 mE
543,750 mE
544,000 mE
544,250 mE
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6,596,750 mN
6,596,500 mN
6,596,250 mN
6,596,000 mN
6,595,750 mN
6,595,500 mN
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59°30'36"
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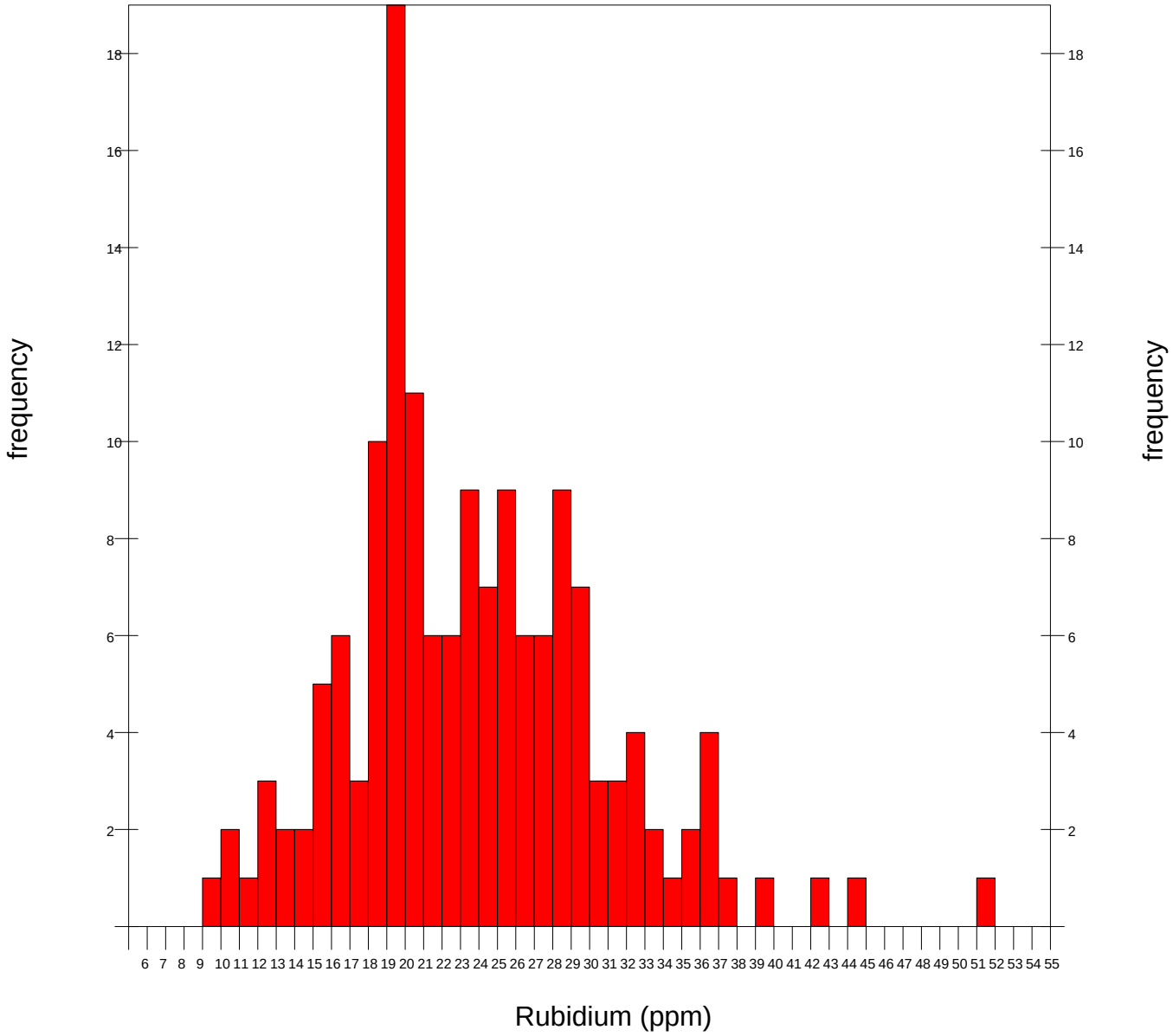
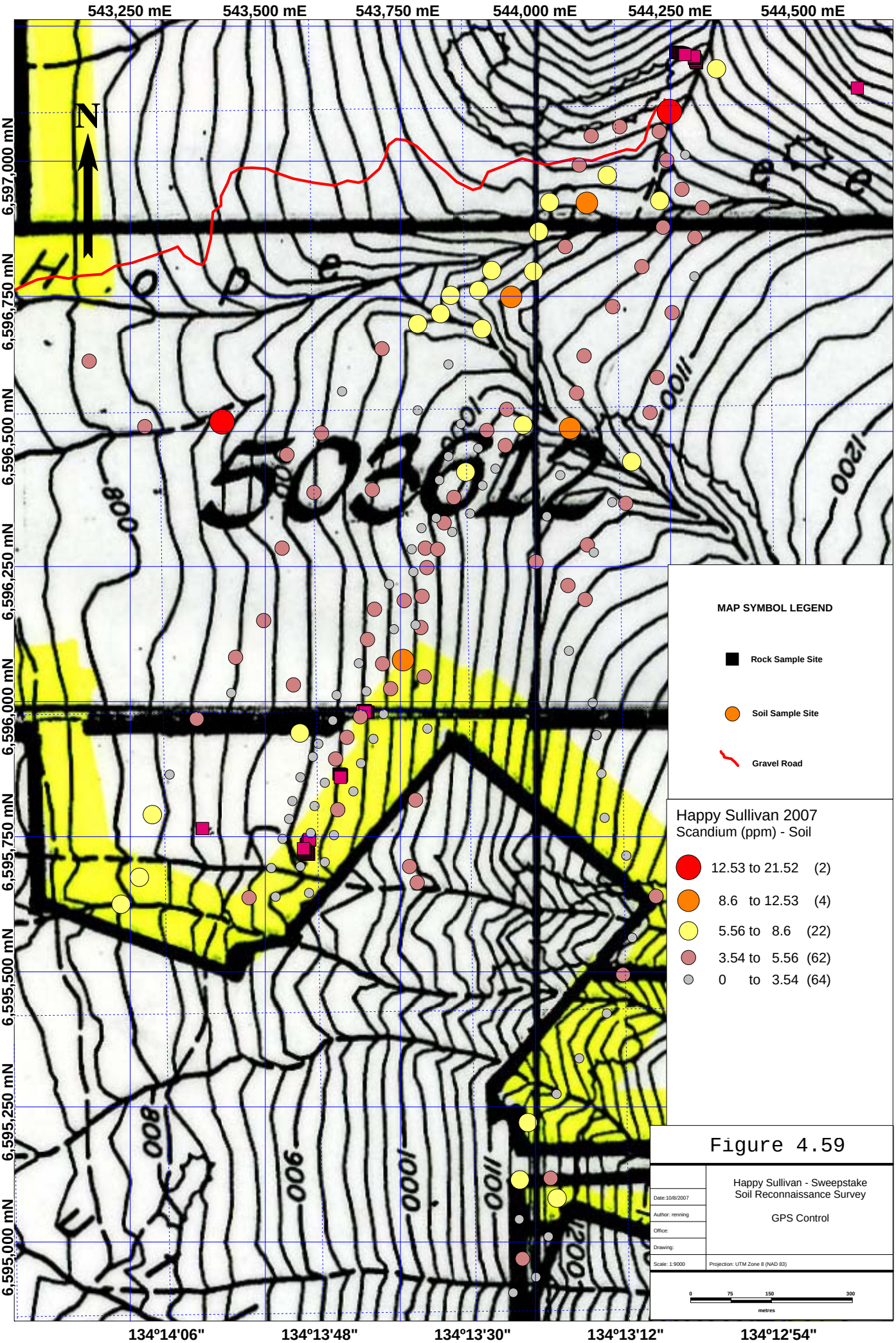
59°30'
59°29'42"
59°29'24"
134°14'06"
134°13'48"
134°13'30"
134°13'12"
134°12'54"
N
Hope
Boise
800
900
1000
1100
1200
MAP SYMBOL LEGEND
Rock Sample Site
Soil Sample Site
Gravel Road
Happy Sullivan 200
Rubidium (ppm) - Soil
41 to 55 (3)
35 to 41 (8)
28 to 35 (29)
23 to 28 (37)
18 to 23 (52)
0 to 18 (25)
Figure 4.58
Happy Sullivan - Sweepstake
Soil Reconnaissance Survey
GPS Control
Date:10/8/2007
Author: renning
Office:
Drawing:
Scale: 1:9000
Projection: UTM Zone 8 (NAD 83)
0
75
150
300
metres

Happy Sullivan Soil Rubidium Statistics

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6,596,250 mN
6,596,000 mN
6,595,750 mN
6,595,500 mN
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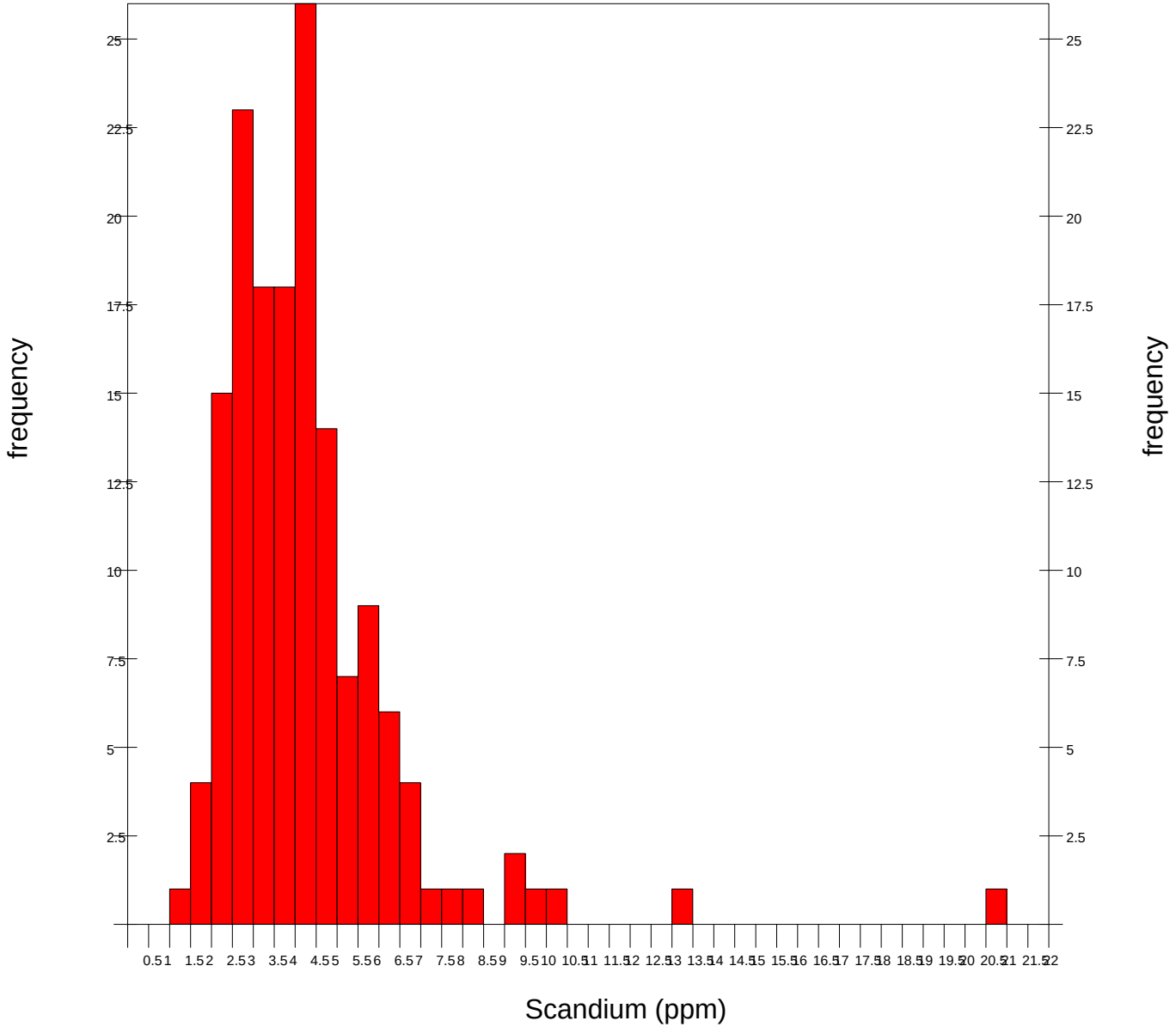
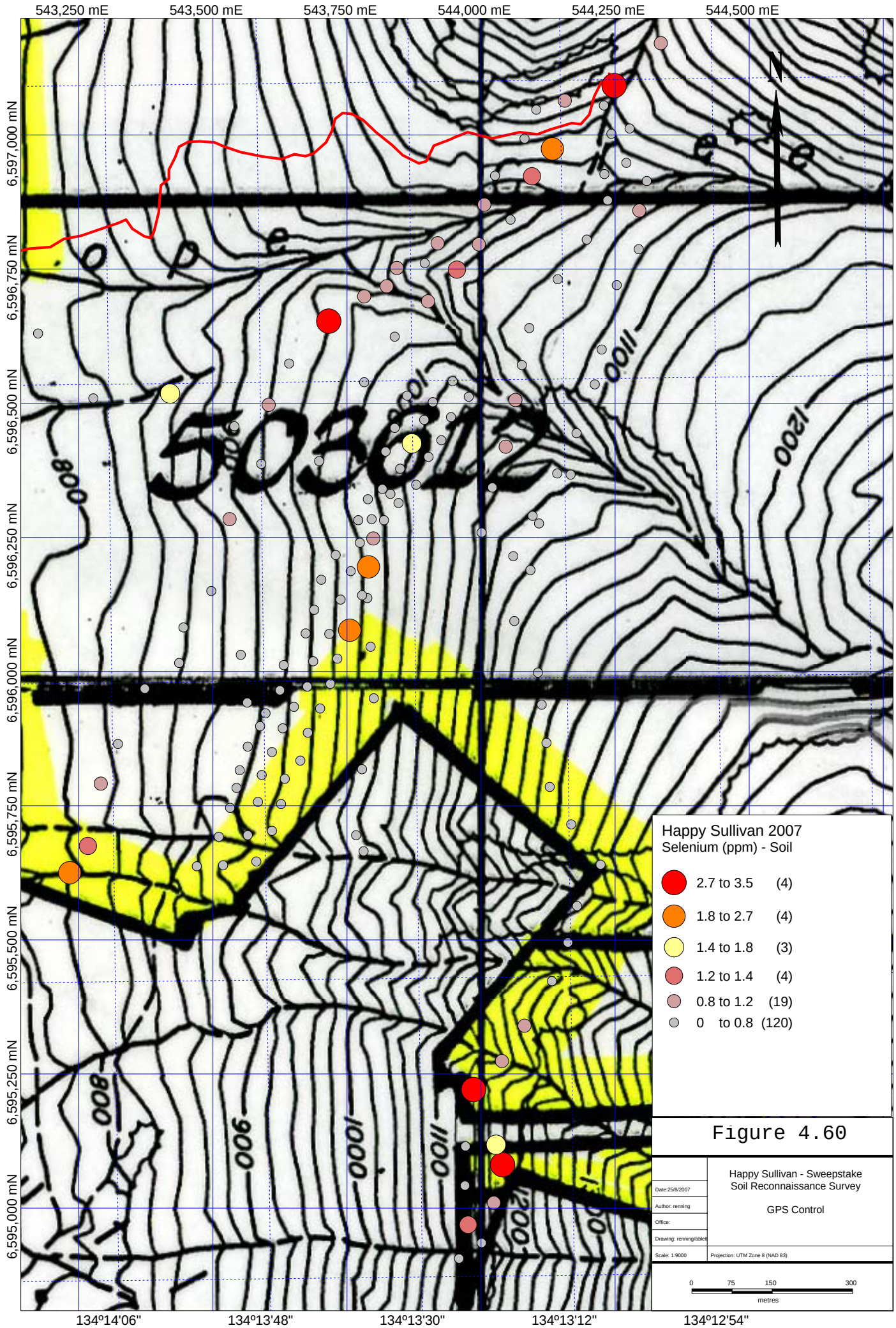
6,595,000 mN
59°30'36"
59°30'18"
59°30'
59°29'42"
59°29'24"
134°14'06"
134°13'48"
134°13'30"
134°13'12"
134°12'54"
N
Hope
Fork
5036'
800
900
1000
1100
1200
MAP SYMBOL LEGEND
Rock Sample Site
Soil Sample Site
Gravel Road
Happy Sullivan 2007
Scandium (ppm) - Soil
12.53 to 21.52 (2)
8.6 to 12.53 (4)
5.56 to 8.6 (22)
3.54 to 5.56 (62)
0 to 3.54 (64)
Figure 4.59
Happy Sullivan - Sweepstake
Soil Reconnaissance Survey
GPS Control
Date:10/8/2007
Author: renning
Office:
Drawing:
Scale: 1:9000
Projection: UTM Zone 8 (NAD 83)
0
75
150
300
metres

Happy Sullivan Soil Scandium Statistics

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544,500 mE
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6,596,750 mN
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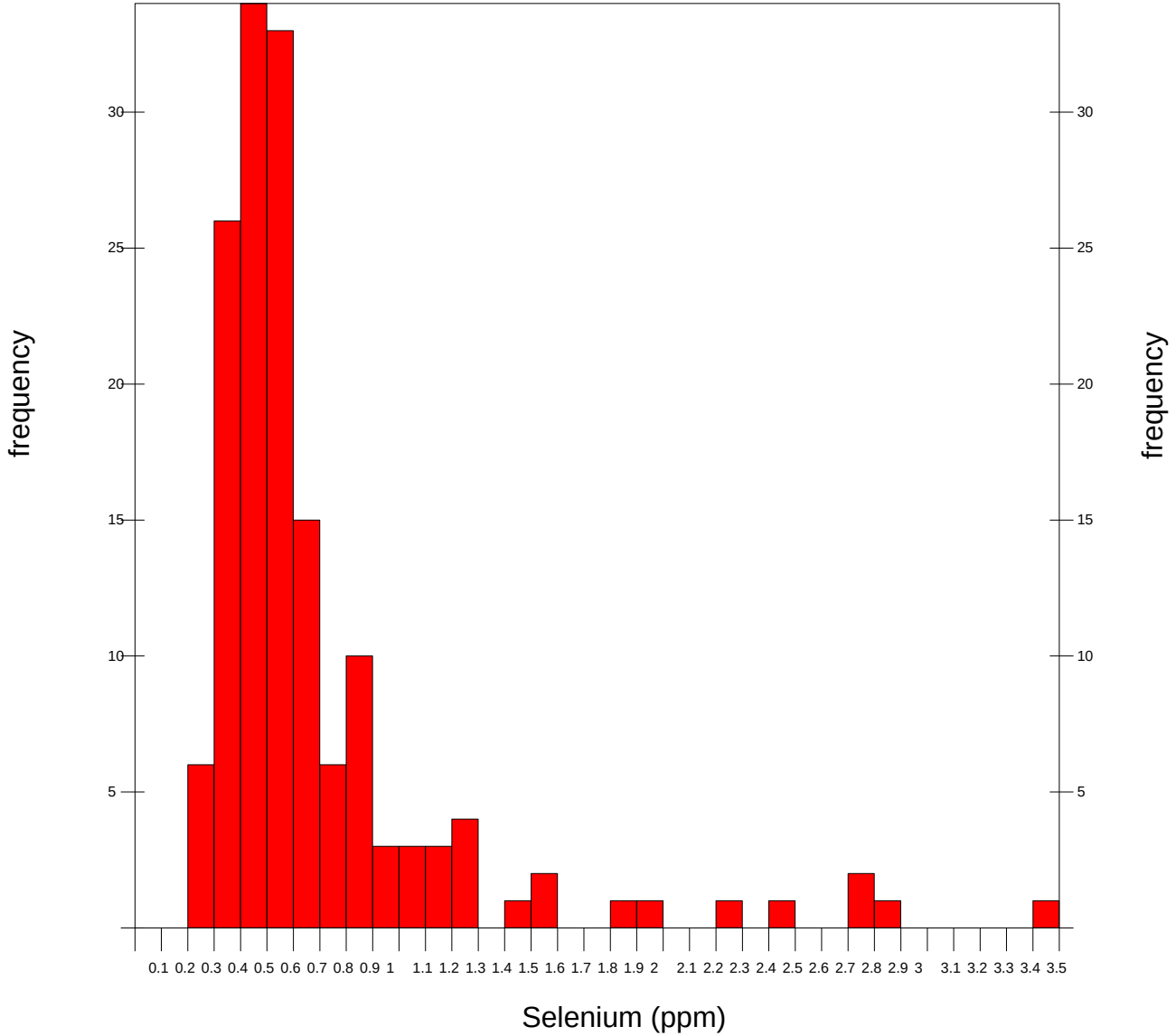
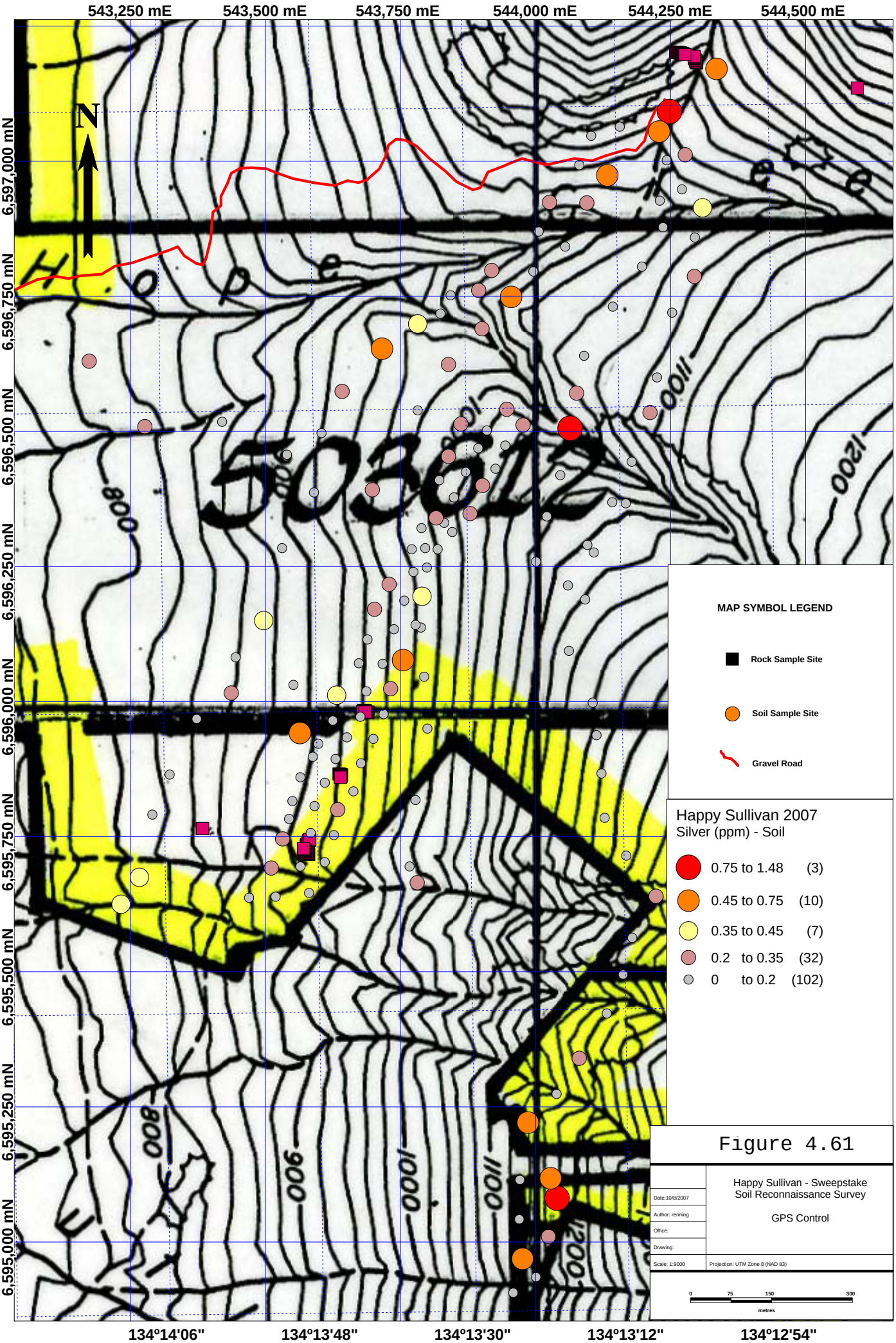
6,596,250 mN
6,596,000 mN
6,595,750 mN
6,595,500 mN
6,595,250 mN
6,595,000 mN
59°30'36"
59°30'18"
59°30'
59°29'42"
59°29'24"
134°14'06"
134°13'48"
134°13'30"
134°13'12"
134°12'54"
N
800
900
1000
1100
1200
Happy Sullivan 2007
Selenium (ppm) - Soil
2.7 to 3.5 (4)
1.8 to 2.7 (4)
1.4 to 1.8 (3)
1.2 to 1.4 (4)
0.8 to 1.2 (19)
0 to 0.8 (120)
Figure 4.60
Happy Sullivan - Sweepstake
Soil Reconnaissance Survey
GPS Control
Date:25/8/2007
Author: renning
Office:
Drawing: renning/ablett
Scale: 1:9000
Projection: UTM Zone 8 (NAD 83)
0 75 150 300
metres

Happy Sullivan Soil Selenium Statistics

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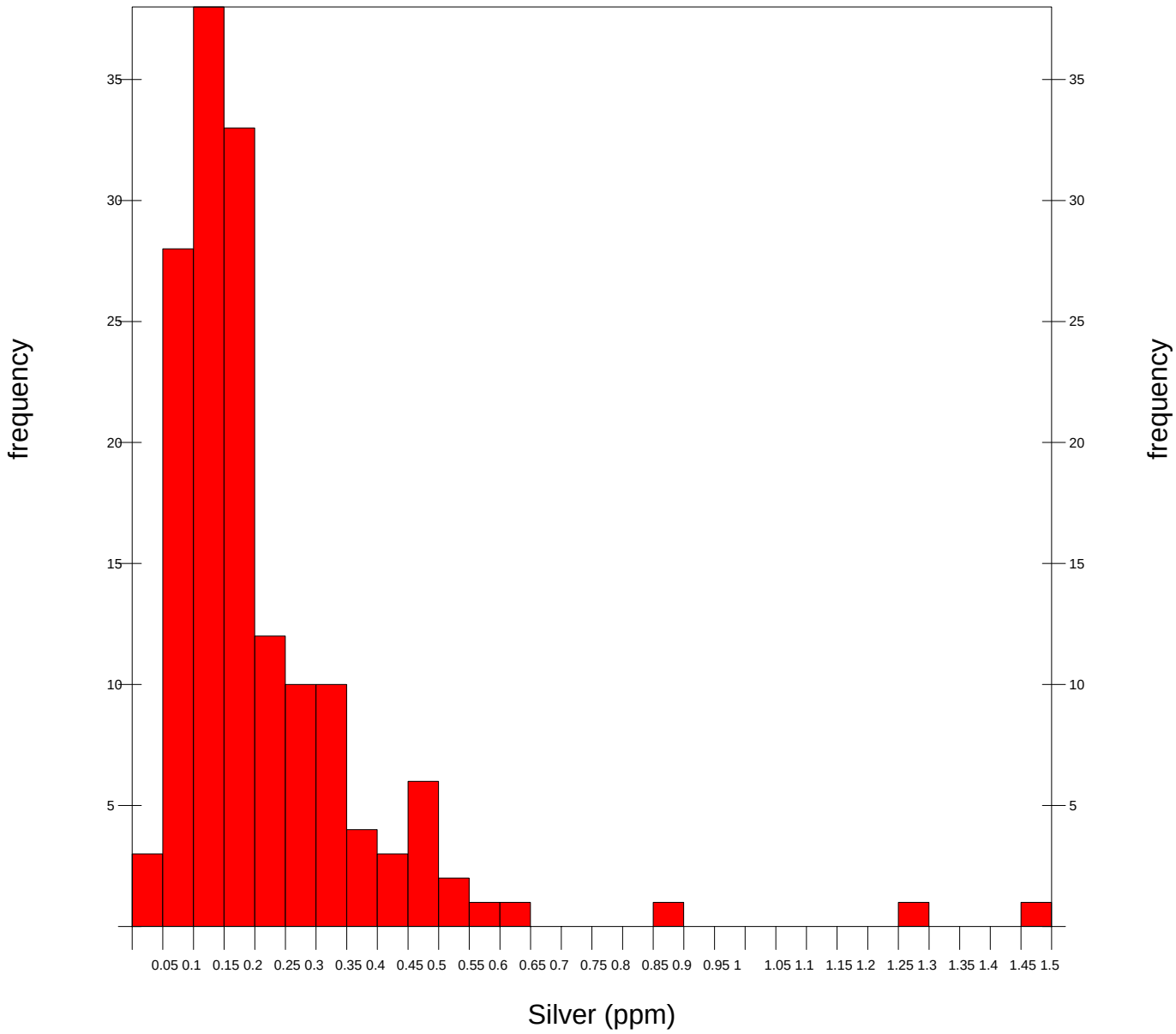
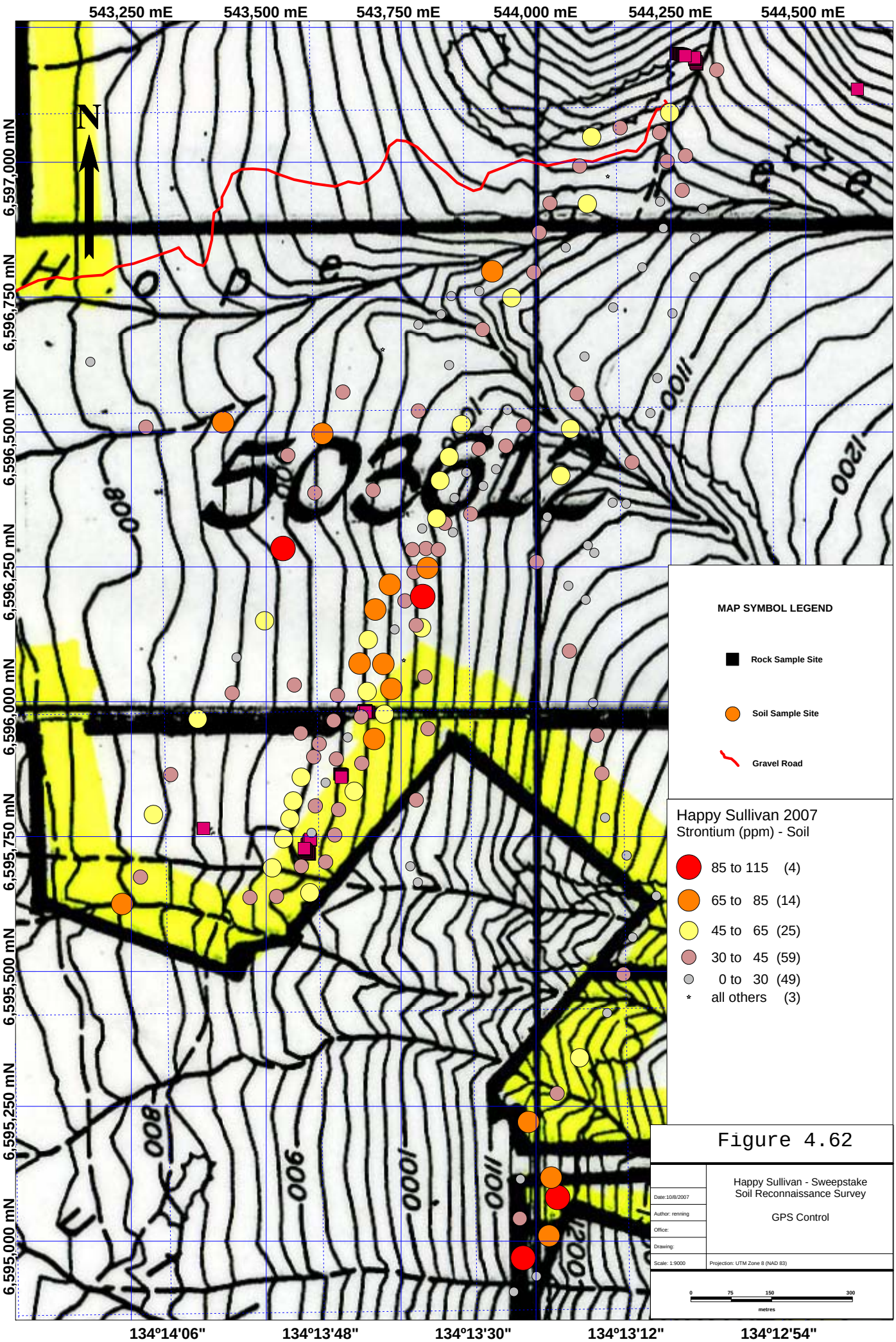
543,750 mE
544,000 mE
544,250 mE
544,500 mE
6,597,000 mN
6,596,750 mN
6,596,500 mN
6,596,250 mN
6,596,000 mN
6,595,750 mN
6,595,500 mN
6,595,250 mN
6,595,000 mN
59°30'36"
59°30'18"
59°30'
59°29'42"
59°29'24"
134°14'06"
134°13'48"
134°13'30"
134°13'12"
134°12'54"
N
Hope
Fault
800
900
1000
1100
1200
MAP SYMBOL LEGEND
Rock Sample Site
Soil Sample Site
Gravel Road
Happy Sullivan 2007
Silver (ppm) - Soil
0.75 to 1.48 (3)
0.45 to 0.75 (10)
0.35 to 0.45 (7)
0.2 to 0.35 (32)
0 to 0.2 (102)
Figure 4.61
Happy Sullivan - Sweepstake
Soil Reconnaissance Survey
GPS Control
Date:10/8/2007
Author: renning
Office:
Drawing:
Scale: 1:9000
Projection: UTM Zone 8 (NAD 83)
0
75
150
300
metres

Happy Sullivan Soil Silver Statistics

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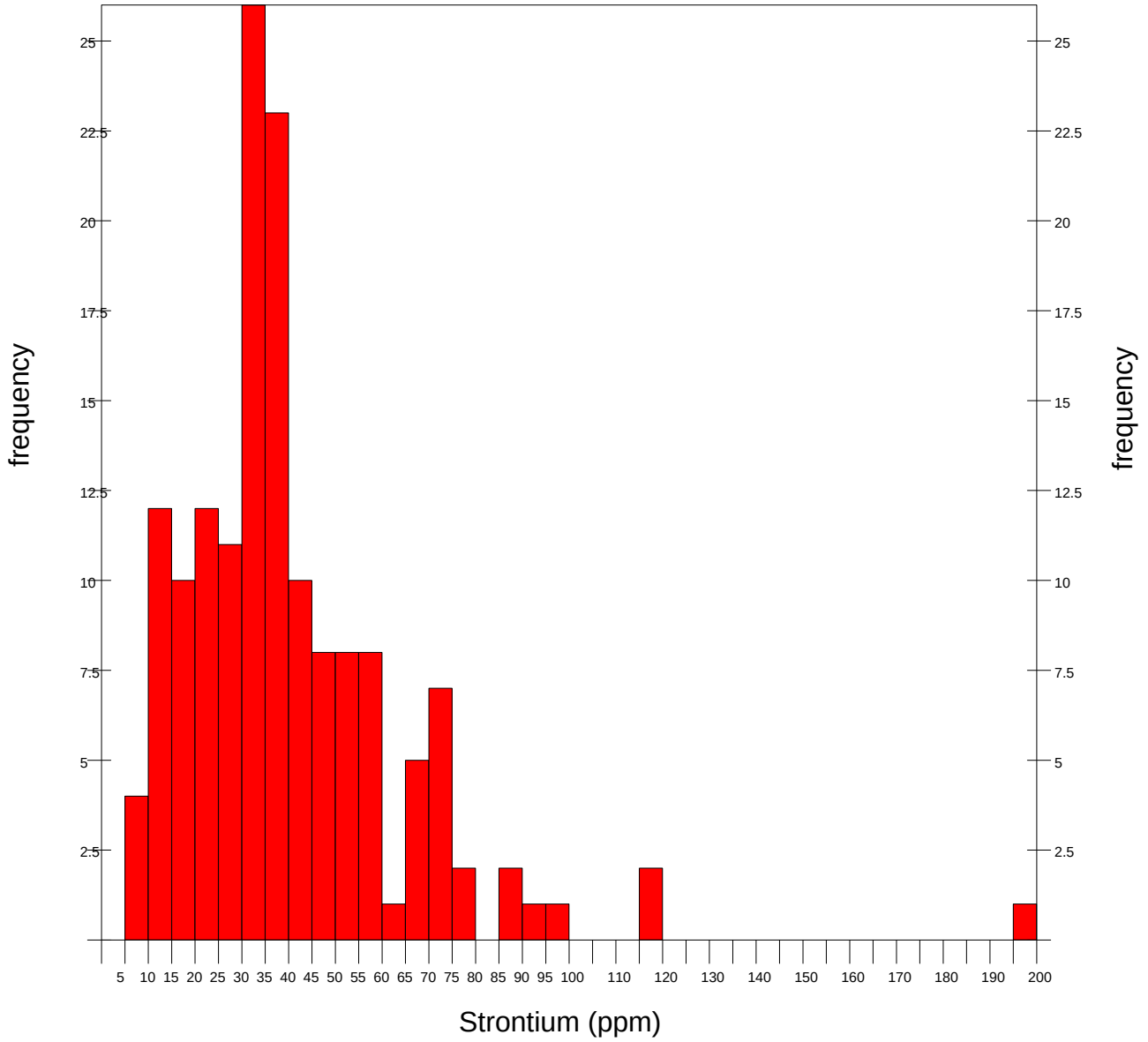
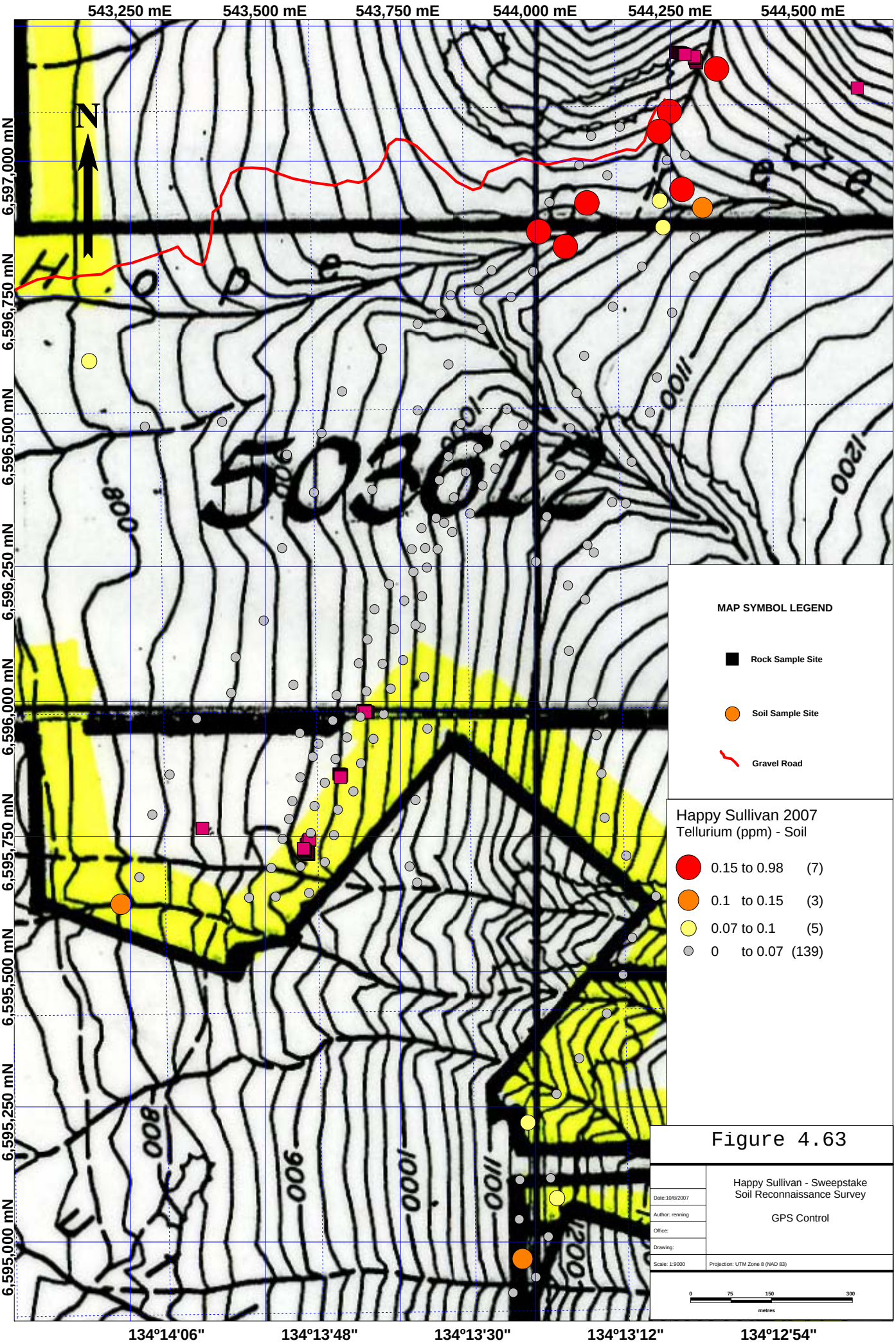
6,596,250 mN
6,596,000 mN
6,595,750 mN
6,595,500 mN
6,595,250 mN
6,595,000 mN
59°30'36"
59°30'18"
59°30'
59°29'42"
59°29'24"
134°14'06"
134°13'48"
134°13'30"
134°13'12"
134°12'54"
N
Hope
Gossan
800
900
1000
1100
1200
MAP SYMBOL LEGEND
Rock Sample Site
Soil Sample Site
Gravel Road
Happy Sullivan 2007
Strontium (ppm) - Soil
85 to 115 (4)
65 to 85 (14)
45 to 65 (25)
30 to 45 (59)
0 to 30 (49)
all others (3)
Figure 4.62
Happy Sullivan - Sweepstake
Soil Reconnaissance Survey
GPS Control
Date:10/8/2007
Author: renning
Office:
Drawing:
Scale: 1:9000
Projection: UTM Zone 8 (NAD 83)
0
75
150
300
metres

Happy Sullivan Soil Strontium Statistics

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543,500 mE
543,750 mE
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544,250 mE
544,500 mE
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6,596,750 mN
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6,596,000 mN
6,595,750 mN
6,595,500 mN
6,595,250 mN
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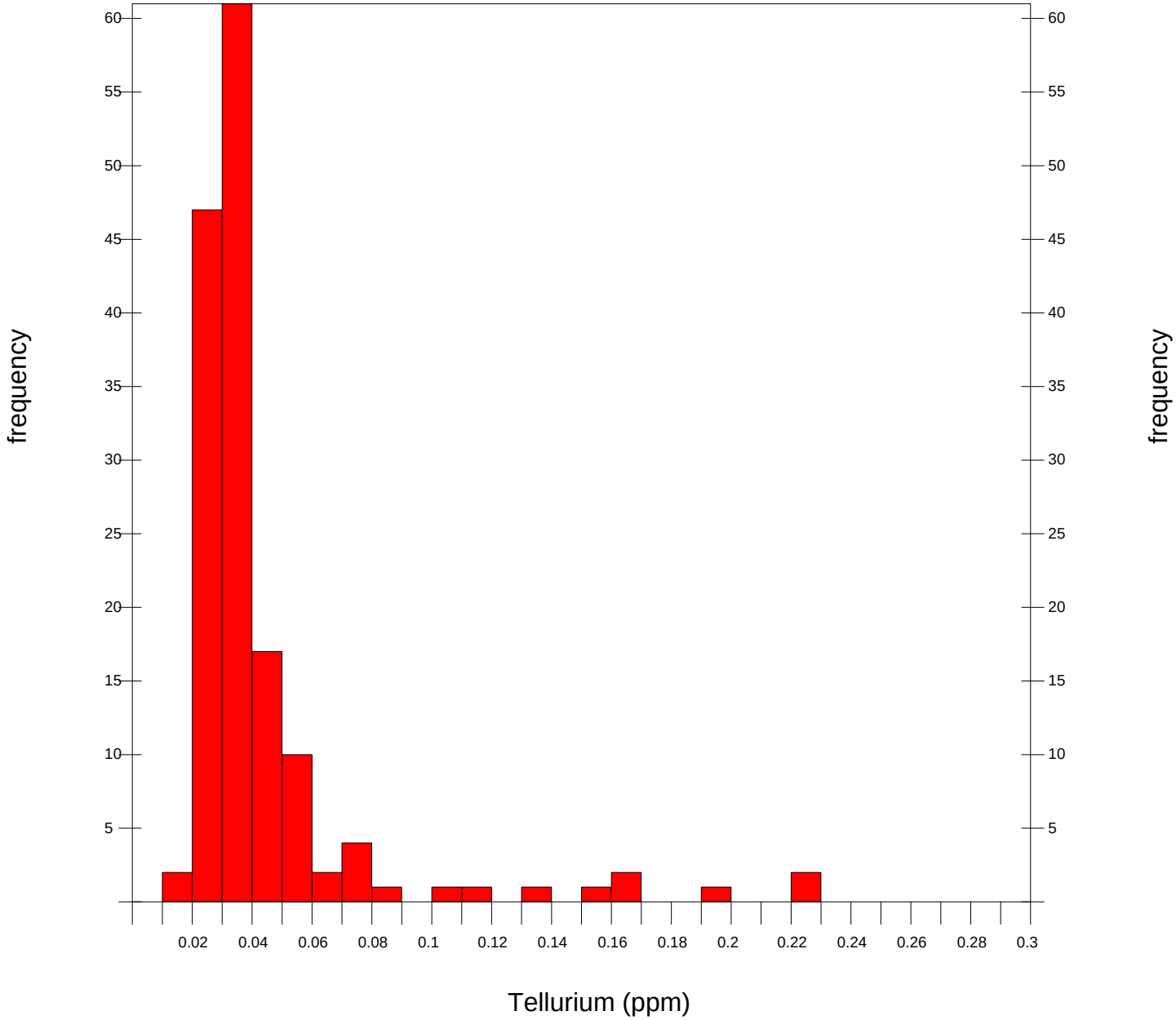
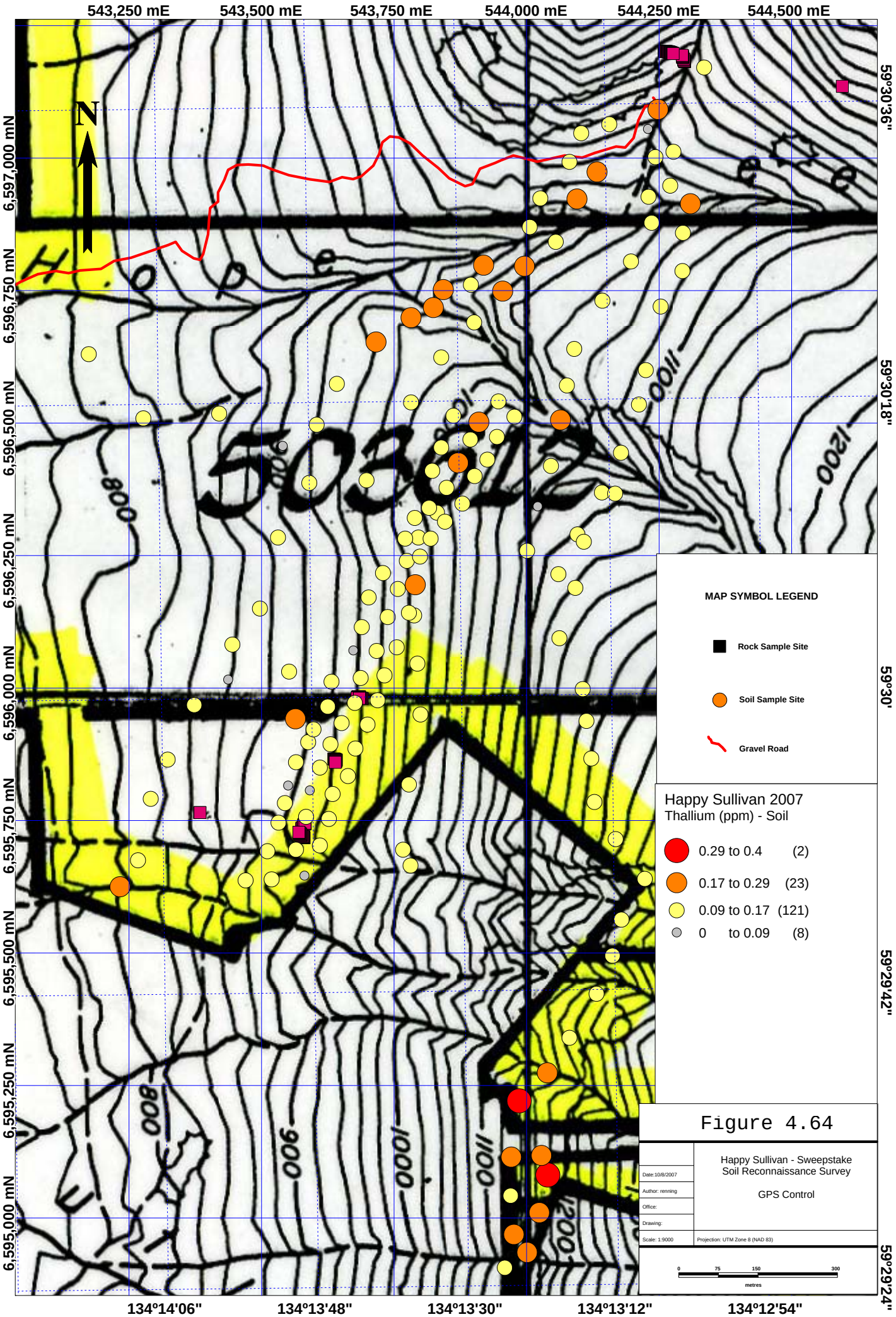
59°30'36"
59°30'18"
59°30'
59°29'42"
59°29'24"
134°14'06"
134°13'48"
134°13'30"
134°13'12"
134°12'54"
N
Hope
Gold
800
900
1000
1100
1200
MAP SYMBOL LEGEND
Rock Sample Site
Soil Sample Site
Gravel Road
Happy Sullivan 2007
Tellurium (ppm) - Soil
0.15 to 0.98 (7)
0.1 to 0.15 (3)
0.07 to 0.1 (5)
0 to 0.07 (139)
Figure 4.63
Happy Sullivan - Sweepstake
Soil Reconnaissance Survey
GPS Control
Date:10/8/2007
Author: renning
Office:
Drawing:
Scale: 1:9000
Projection: UTM Zone 8 (NAD 83)
0
75
150
300
metres

Happy Sullivan Soil Tellurium Statistics

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543,500 mE
543,750 mE
544,000 mE
544,250 mE
544,500 mE
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6,596,750 mN
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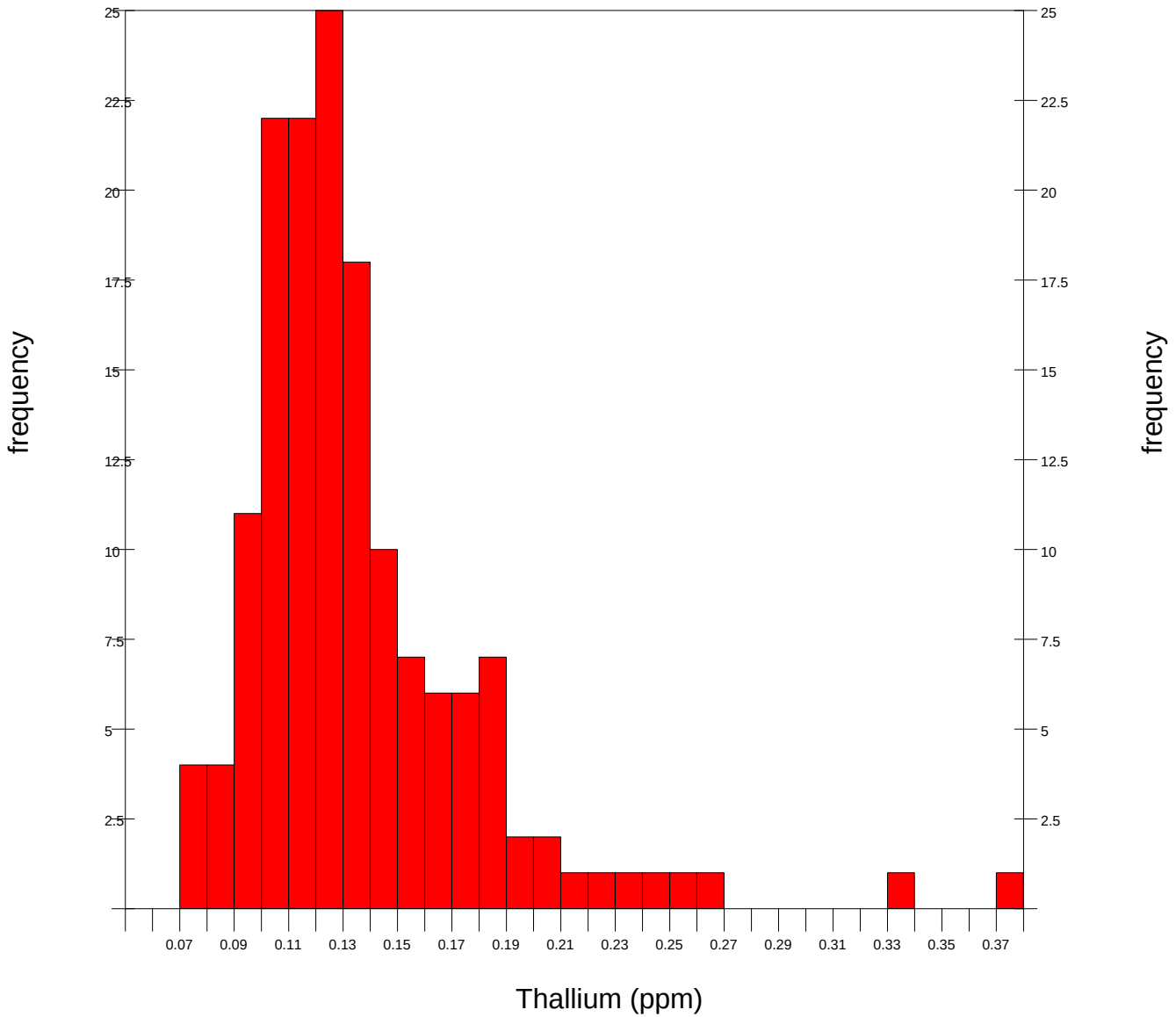
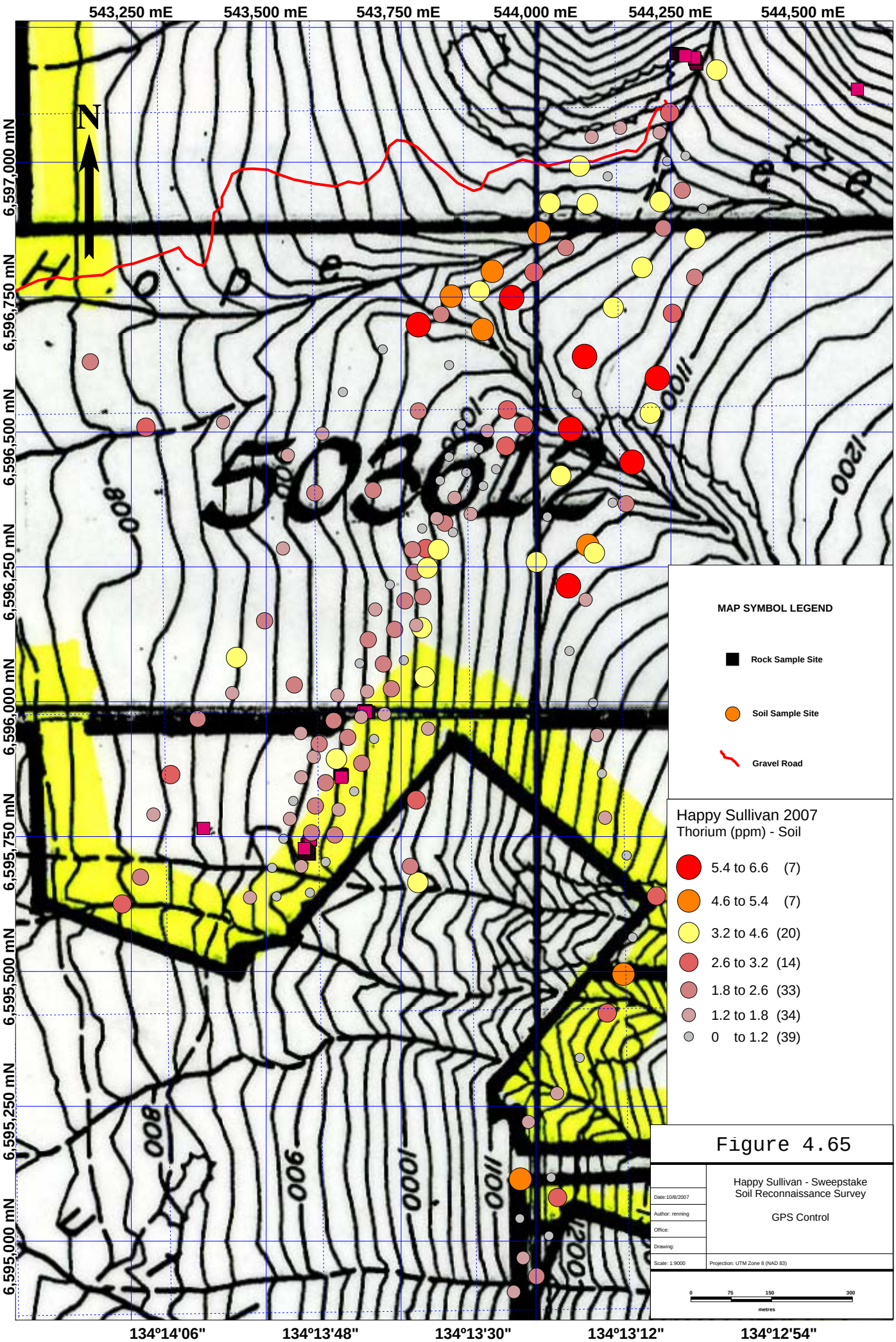
6,596,250 mN
6,596,000 mN
6,595,750 mN
6,595,500 mN
6,595,250 mN
6,595,000 mN
59°30'36"
59°30'18"
59°30'
59°29'42"
59°29'24"
134°14'06"
134°13'48"
134°13'30"
134°13'12"
134°12'54"
N
Hope
Fork
800
900
1000
1100
1200
MAP SYMBOL LEGEND
Rock Sample Site
Soil Sample Site
Gravel Road
Happy Sullivan 2007
Thallium (ppm) - Soil
0.29 to 0.4 (2)
0.17 to 0.29 (23)
0.09 to 0.17 (121)
0 to 0.09 (8)
Figure 4.64
Happy Sullivan - Sweepstake
Soil Reconnaissance Survey
GPS Control
Date:10/8/2007
Author: renning
Office:
Drawing:
Scale: 1:9000
Projection: UTM Zone 8 (NAD 83)
0
75
150
300
metres

Happy Sullivan Soil Thallium Statistics

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6,595,750 mN
6,595,500 mN
6,595,250 mN
6,595,000 mN
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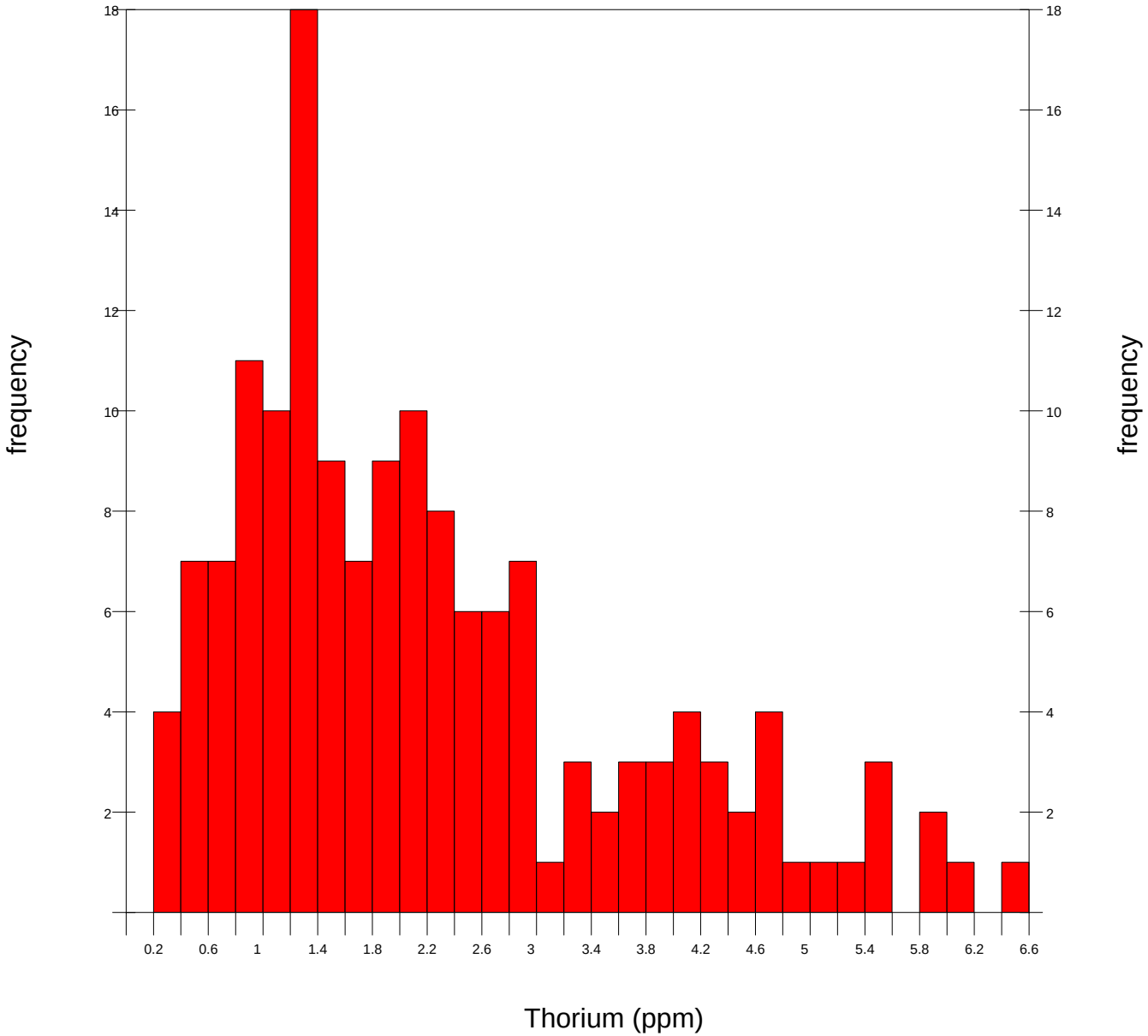
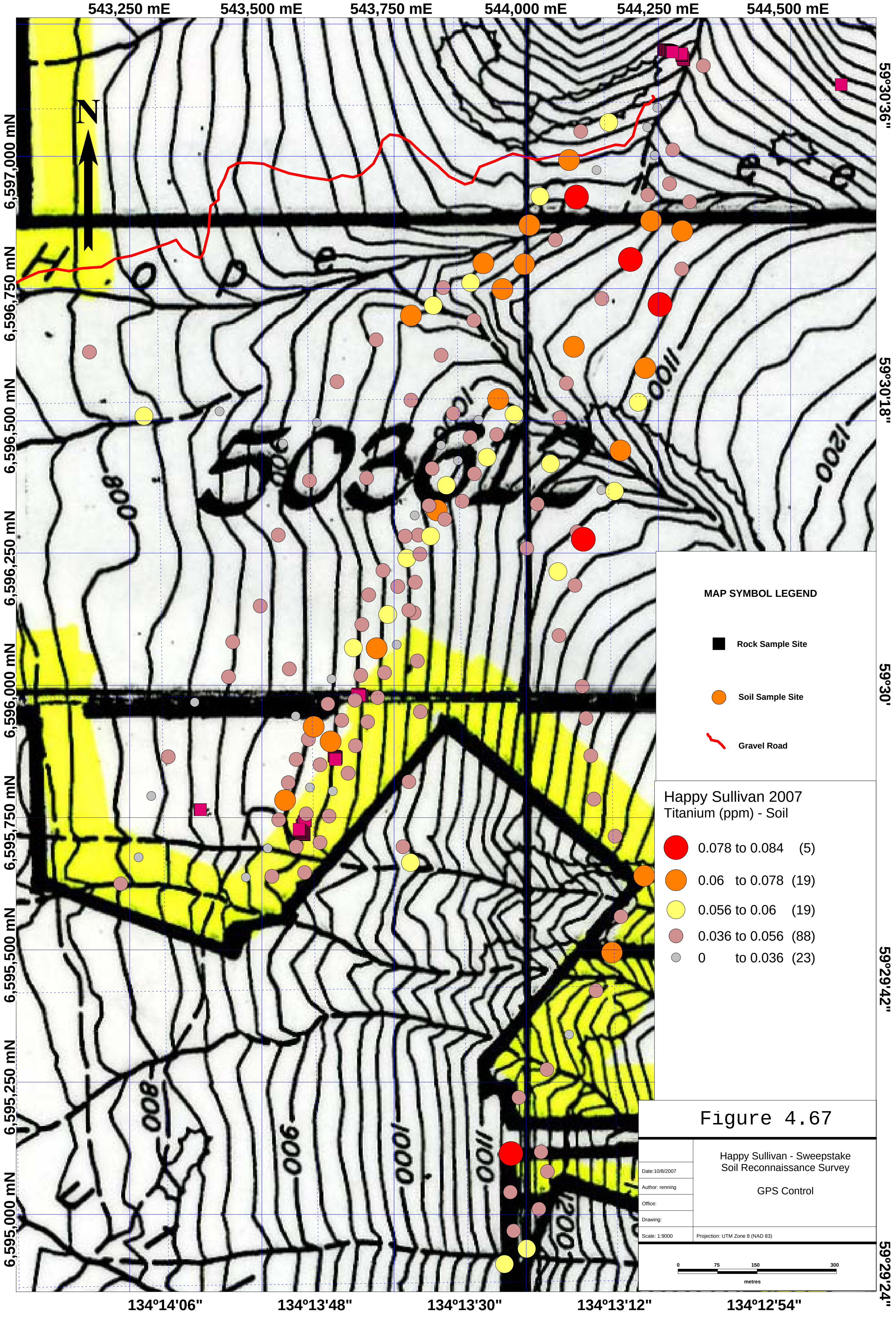
59°30'
59°29'42"
59°29'24"
134°14'06"
134°13'48"
134°13'30"
134°13'12"
134°12'54"
N
Hope
Fork
800
900
1000
1100
1200
MAP SYMBOL LEGEND
Rock Sample Site
Soil Sample Site
Gravel Road
Happy Sullivan 2007
Thorium (ppm) - Soil
5.4 to 6.6 (7)
4.6 to 5.4 (7)
3.2 to 4.6 (20)
2.6 to 3.2 (14)
1.8 to 2.6 (33)
1.2 to 1.8 (34)
0 to 1.2 (39)
Figure 4.65
Happy Sullivan - Sweepstake
Soil Reconnaissance Survey
GPS Control
Date:10/8/2007
Author: renning
Office:
Drawing:
Scale: 1:9000
Projection: UTM Zone 8 (NAD 83)
0
75
150
300
metres

Happy Sullivan Soil Thorium Statistics

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543,500 mE
543,750 mE
544,000 mE
544,250 mE
544,500 mE
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6,596,750 mN
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6,596,250 mN
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6,595,750 mN
6,595,500 mN
6,595,250 mN
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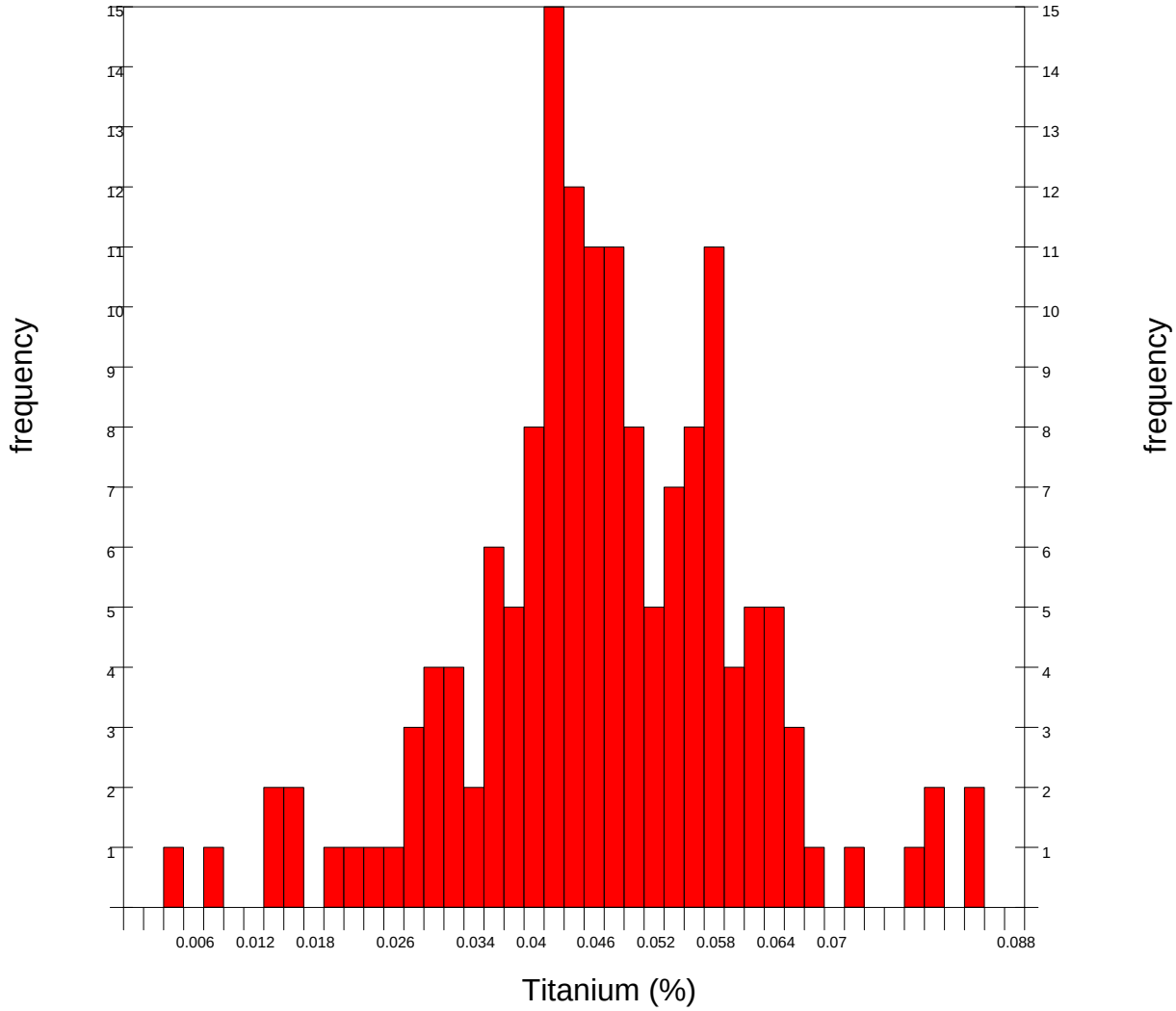
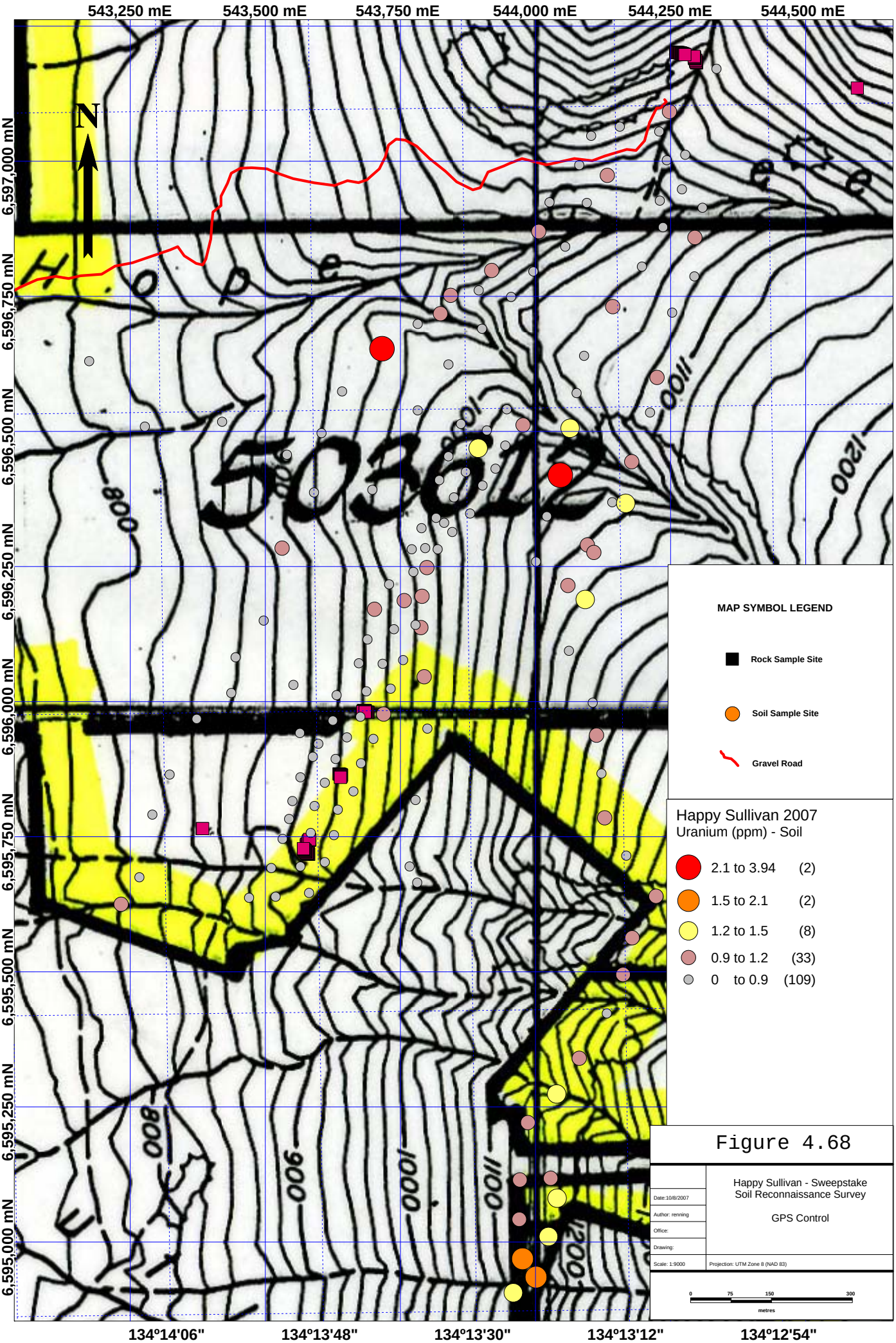
59°30'18"
59°30'
59°29'42"
59°29'24"
134°14'06"
134°13'48"
134°13'30"
134°13'12"
134°12'54"
N
503612
800
900
1000
1100
1200
MAP SYMBOL LEGEND
Rock Sample Site
Soil Sample Site
Gravel Road
Happy Sullivan 2007
Titanium (ppm) - Soil
0.078 to 0.084 (5)
0.06 to 0.078 (19)
0.056 to 0.06 (19)
0.036 to 0.056 (88)
0 to 0.036 (23)
Figure 4.67
Happy Sullivan - Sweepstake
Soil Reconnaissance Survey
GPS Control
Date:10/8/2007
Author: renning
Office:
Drawing:
Scale: 1:9000
Projection: UTM Zone 8 (NAD 83)
0 75 150 300
metres

Happy Sullivan Soil Titanium Statistcis

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543,750 mE
544,000 mE
544,250 mE
544,500 mE
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6,596,750 mN
6,596,500 mN
6,596,250 mN
6,596,000 mN
6,595,750 mN
6,595,500 mN
6,595,250 mN
6,595,000 mN
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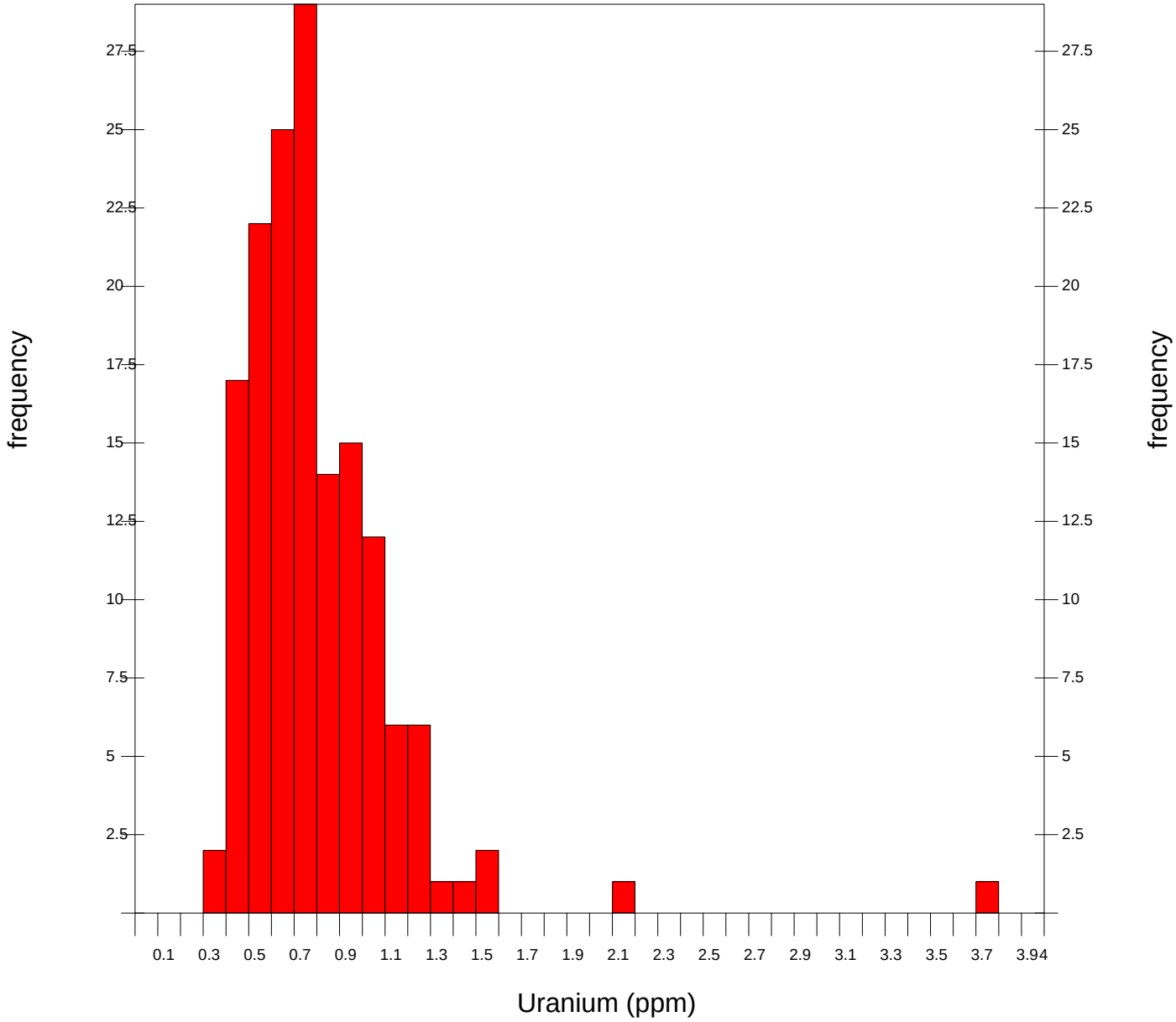
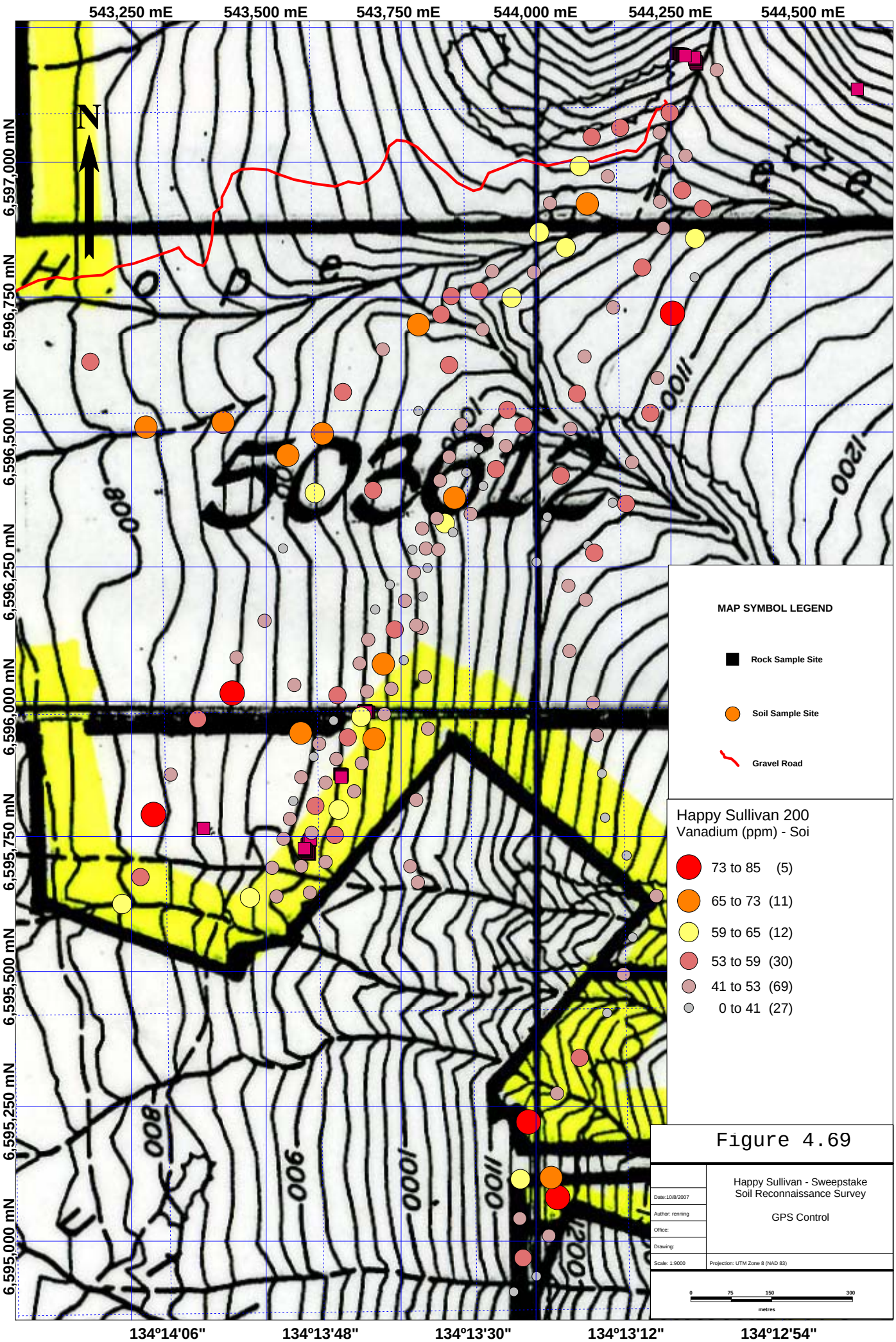
59°30'18"
59°30'
59°29'42"
59°29'24"
134°14'06"
134°13'48"
134°13'30"
134°13'12"
134°12'54"
N
Hope
Fault
800
900
1000
1100
1200
MAP SYMBOL LEGEND
Rock Sample Site
Soil Sample Site
Gravel Road
Happy Sullivan 2007
Uranium (ppm) - Soil
2.1 to 3.94 (2)
1.5 to 2.1 (2)
1.2 to 1.5 (8)
0.9 to 1.2 (33)
0 to 0.9 (109)
Figure 4.68
Happy Sullivan - Sweepstake
Soil Reconnaissance Survey
GPS Control
Date:10/8/2007
Author: renning
Office:
Drawing:
Scale: 1:9000
Projection: UTM Zone 8 (NAD 83)
0
75
150
300
metres

Happy Sullivan Soil Uranium Statistics




543,250 mE
543,500 mE
543,750 mE
544,000 mE
544,250 mE
544,500 mE
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6,596,750 mN
6,596,500 mN
6,596,250 mN
6,596,000 mN
6,595,750 mN
6,595,500 mN
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6,595,000 mN
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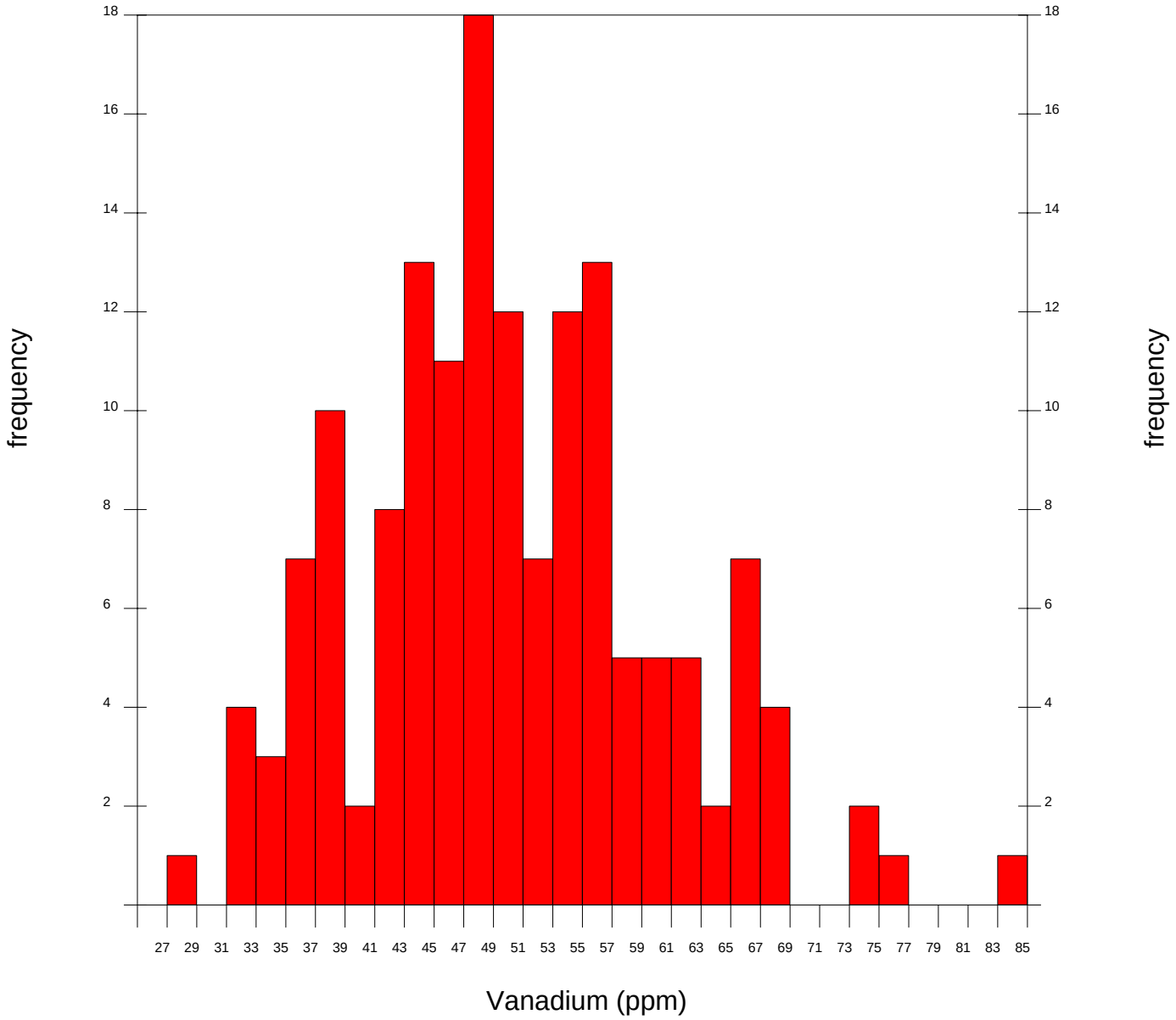
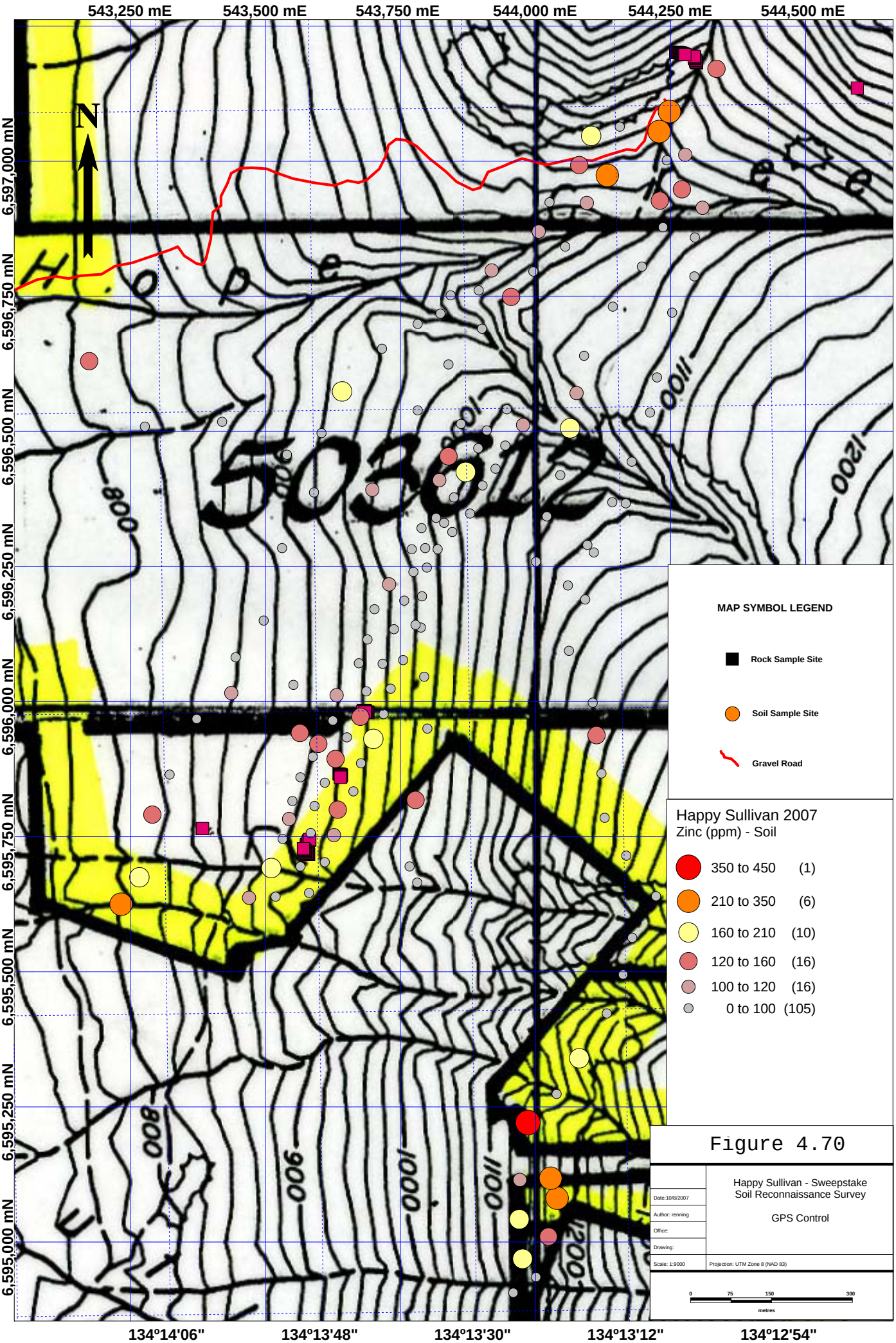
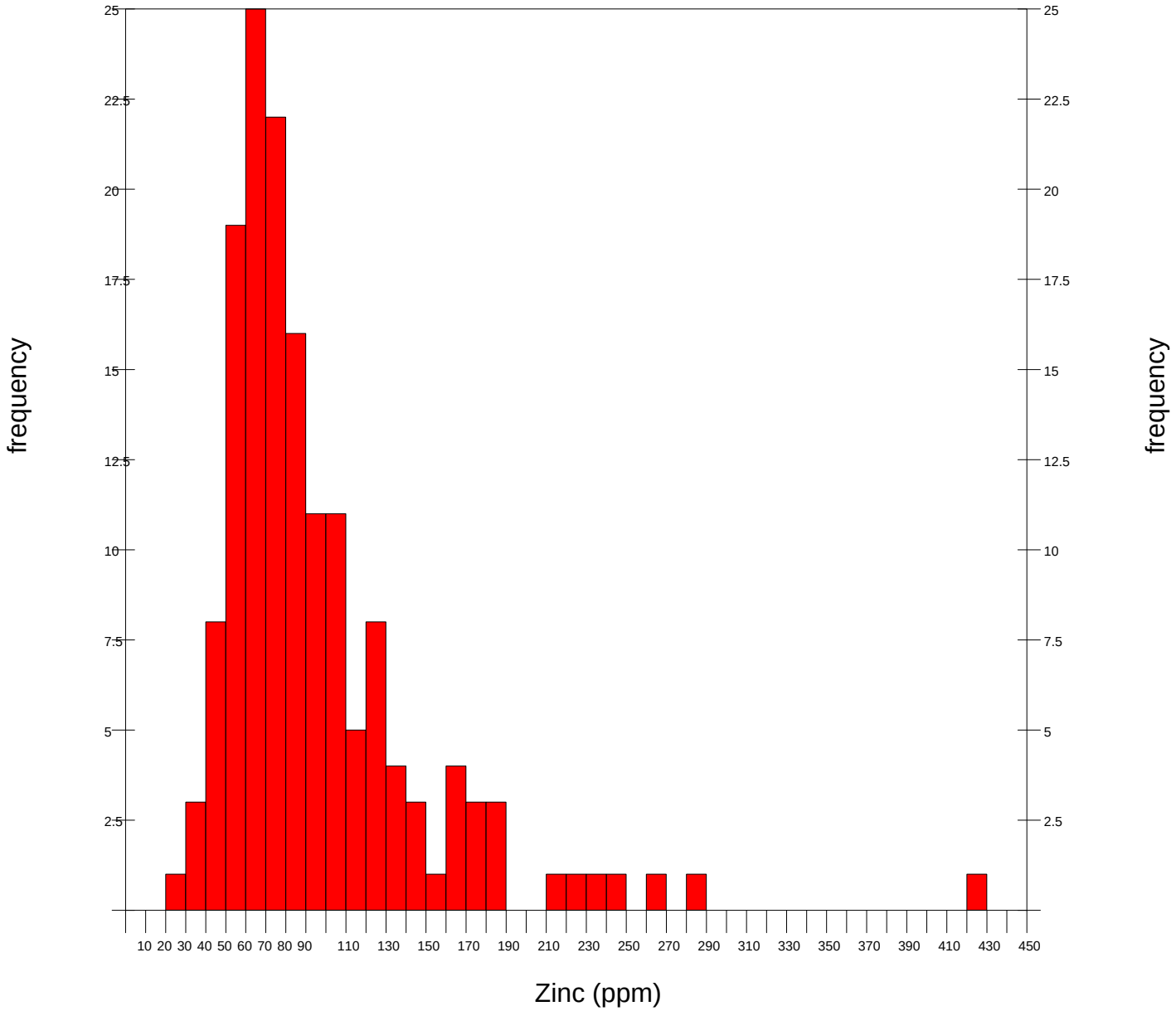
59°30'
59°29'42"
59°29'24"
134°14'06"
134°13'48"
134°13'30"
134°13'12"
134°12'54"
N
Hope
Soil Sample Site
MAP SYMBOL LEGEND
Rock Sample Site
Soil Sample Site
Gravel Road
Happy Sullivan 200
Vanadium (ppm) - Soi
73 to 85 (5)
65 to 73 (11)
59 to 65 (12)
53 to 59 (30)
41 to 53 (69)
0 to 41 (27)
Figure 4.69
Happy Sullivan - Sweepstake
Soil Reconnaissance Survey
GPS Control
Date:10/8/2007
Author: renning
Office:
Drawing:
Scale: 1:9000
Projection: UTM Zone 8 (NAD 83)
0
75
150
300
metres

Happy Sullivan Soil Vanadium Statistics




543,250 mE
543,500 mE
543,750 mE
544,000 mE
544,250 mE
544,500 mE
6,597,000 mN
6,596,750 mN
6,596,500 mN
6,596,250 mN
6,596,000 mN
6,595,750 mN
6,595,500 mN
6,595,250 mN
6,595,000 mN
59°30'36"
59°30'18"
59°30'
59°29'42"
59°29'24"
134°14'06"
134°13'48"
134°13'30"
134°13'12"
134°12'54"
N
Hope
Gossan
800
900
1000
1100
1200
MAP SYMBOL LEGEND
Rock Sample Site
Soil Sample Site
Gravel Road
Happy Sullivan 2007
Zinc (ppm) - Soil
350 to 450 (1)
210 to 350 (6)
160 to 210 (10)
120 to 160 (16)
100 to 120 (16)
0 to 100 (105)
Figure 4.70
Happy Sullivan - Sweepstake
Soil Reconnaissance Survey
GPS Control
Date:10/8/2007
Author: renning
Office:
Drawing:
Scale: 1:9000
Projection: UTM Zone 8 (NAD 83)
0
75
150
300
metres

Happy Sullivan Soil Zinc Statistics



Pit 2 workings and the Happy Sullivan. One of the larger arsenic anomalies along the B Shear trend is located at 543790mE, 6596200mN (470ppm) and the anomaly extends for a distance of 90 metres to 543800mE, 6596300mN (184ppm). The best arsenic anomaly in soil samples, off of the trend, is located at 543250mE, 6595640mE (936ppm As, 507ppm As). One of the most intriguing areas worthy of follow up is located between the Happy Sullivan and Hope Creek that shows anomalous arsenic, gold and tellurium.

Although a more widespread survey is needed to delineate the effect of the shear on soil geochemistry, both Strontium (Fig. 4.61) and Rubidium (Fig. 4.57) do appear to concentrate along the shear and this possible relationship may prove useful in future soil sampling programs. Arsenic anomalies appear to cluster along the shear sporadically and spread extensively downslope; however mostly below 1100 metres elevation. A separate, highly anomalous concentration of elements, arsenic, aluminium, antimony, beryllium, bismuth, cobalt, copper, gallium, indium, iron and magnesium only to name a few, occupy an untested area at the southeast corner of the survey. A linear Germanium anomaly, located between two other soil lines, is noted in Figure 4.43 and is considered to be an analytical error.

10.2 SWEEPSTAKE

The two old hand dug trenches at the Sweepstake were found covered beneath a thick canopy of Tag Alder growth within 75 metres easterly of an old cabin. The cabin itself was in fair shape and could easily be restored for exploration purposes (equipment storage etc.) with little more than replacing floor boards. For the most part, the tin roof has preserved the historic log structure from decay.

The two hand dug trenches expose a quartz-argillite breccia within pyrite altered argillite. There was more pyrite alteration at this location than the less altered breccias found in Pit 1 and Pit 2 described below.

In the southern most trench, there is a 1 metre wide quartz vein within a 10 metre wide altered argillite zone. The Sweepstake Minfile indicates that the vein is about 2-3 metres wide and contains occasional free gold. Chip samples collected only show anomalous gold and silver accompanied by highly anomalous arsenic and antimony.

10.3 SWEEPSTAKE PIT 1

This small open cut was almost mistaken for one of several natural Spring runoff ‘trench like’ features in the area. Upon closer inspection it was obvious the bank had once been disturbed and there was an exposure of quartz-argillite breccia. The assay result returned highly anomalous arsenic (1720ppm) and antimony (81ppm) and 1.03 gram/ton gold over 1 metre.

10.4 SWEEPSTAKE PIT 2

This particular location was excavated in ‘glory hole’ fashion and it was apparent that a significant amount of blasting had taken place in order to reach a depth of about 3.5 metres and a width of about 4 metres.

The quartz argillite breccia shows anomalous values up to 1940 ppm arsenic, 75ppm antimony, 7.8ppm silver and 0.84 ppm gold.

10.5 HAPPY SULLIVAN

Two trenches easterly of the lower portal sampled the altered B-Shear further than had been done in 2006 and yielded up to 0.99 g/t gold, 6,060 ppm arsenic, 14.2 g/t silver and 183 ppm antimony. An old caved in portal entrance was discovered at the second trench closest to the creek. This particular level would be about 5 metres lower than the lower of the other two adits about 30 metres to the west.

11.0 CONCLUSIONS

Although recent drilling (1987) at the Engineer Mine by Erickson Gold Mining Corp. was not considered economic, a drill result from the ‘A-Shear’ of 2.56 g/t gold over 29m is an adequate result today. Highlights of additional drilling by Erickson on the ‘B-Shear’ are as follows:

*Hole 87-104; 0.5m of about 8.7 g/t within 0.9m of 5.7 g/t Au.
*Hole 87-107; 0.3m of about 6 g/t within 4.2m of intensely silicified argillite.

The Engineer Mine may soon be further advanced by the new operator, BC Gold Corp. and there is a good chance that Guardsmen may locate and develop other brecciated, silicified and mineralized zones of argillite along the 2.2km trend of the ‘B-Shear’ within Guardsmen’s property. As an example, in 1987, Erickson

describes a breccia zone, that is parallel to and about 570 metres east of the 'B Shear':

> "On parts of the Engineer property, away from the old mine, other major shear zones have been outlined. At 1300m elevation on Gleaner Mountain, just above the Bee and Glean LCP, a shear up to 18m wide zone of intensely silicified argillite and silicified breccia outcrops in a creek gully. The zone strikes 005º to 010º and dips 70º to 80º to the west. Talus covers any strike extension of this structure. "

12.0 RECOMMENDATIONS

The entire Gold Hill property remains an attractive exploration bet. On BC Gold's property, 'Shear A' is a major structure that provided a very deep seated plumbing system for migrating mineralizing fluids. Other shear zones that occur on Guardsmen's property may have similar characteristics. The potential for finding new high grade veins related to shear zones, similar to the Engineer vein, through additional soil sampling, prospecting, mapping and geophysics is good.

The size, structure and style of mineralization along the B-Shear suggests that a 3D IP or 3D Resisitivity geophysics survey along with detailed geological mapping may be the best method of generating drill targets along the B-Shear structure.

A further program of prospecting is recommended along the western boundary of Guardsmen Tenure 503612 upslope of the eastern portion of BC Gold's property. The Glean prospect should also be thoroughly evaluated by a two person fly camp over a period of 4-5 days.

12.0 REFERENCES

British Columbia Geological Survey Branch, Bulletin 105

Lunn, M.C. & Thompson,G.R.:
Geological and Geochemical Assessment Report on the GB2 Claim Group, November 1990

Currie, L.D.:
Geology of the Tagish Lake Area, Northern Coast Mountains, Northwestern British Columbia, 1991

Davidson, G.S. (P.Geol.): Engineer Mining Corp, January 1999

APPENDIX A

STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS FOR MICHAEL RENNING

1. I have worked in the mining exploration business since 1981. Although I have had much exploration experience as a field assistant and independent prospector, I have worked specifically as a prospector for PNC Exploration (Canada) in 1986, Welcome North Mines in 1988, Rio Algom Exploration in 1992 and Christopher James Gold in 2006 and 2007.

2. I had earned a 25% interest in Guardsmen Resources Inc. for my company, Amber Minerals Ltd., by contributing much research and prospecting time during the period from 1987 to 2003. I own all shares in Amber Minerals Ltd.

3. On January 8, 2008, Christopher James Gold had publicly announced they have dropped the option to purchase further interest in Guardsmen Resources and all of its assets.

4. My other company, Future Metals Inc. was retained by Christopher James Gold during 2007 to work on Guardsmen projects throughout the Province of British Columbia. The contract had expired on December 31, 2007. FMI also explores for and independently acquires Mineral Tenure for Rare Earth Element potential.

5. Although I am a shareholder of Christopher James Gold, I own less than 10% of the common shares in the company.

Signed this 14th day of January, 2008 in Vancouver, British Columbia, Canada,

_____

M i c h a e l R e n n i n g, prospector
bcgold@shaw.ca

APPENDIX B

2007 SEASON COST STATEMENT

Happy Sullivan 2007 Summary Of Expenses

Administration	$210.68
Communication	$94.69
Equipment	$23,637.01
Food- Restaurant	$1,219.91
Food- Groceries	$1,834.96
Sample assaying	$8,092.64
Shipping/Delivery	$1,058.91
Field Supplies	$771.54
Exploration Supplies	$6,111.83
Tenure/registration	$709.92
Travel and accomodation	$3,868.88
Wages/Consulting/Labour	$39,257.52
Fuel/Oil	$2,943.77
TOTAL	89,812.26

Happy Sullivan 2007 Detailed Expenses

Expense Category	Contractor	Contractor's Employee	Description	Rate	Days	Total
Admin			1/01-10/31 staff wages management	$ -	0.00	$ 210.68
Communication	Future Metals	0	Telus Mobility	$ -	0.00	$ 84.69
Communications -Telephone card act.	Future Metals	0	Town Pantry,3696 Hwy.16 & King St.,Smithers,BC	$ -	0.00	$ 10.00
Equipment - ATV Rental	Future Metals	0	Yamaha 2006 ATV Kodiak	$ 125.00	13.00	$ 1,625.00
Equipment - ATV Rental	Future Metals	0	Yamaha 2007 ATV Rhino	$ 150.00	11.00	$ 1,650.00
Equipment Rental - Field	Future Metals	0	Camping gears/ equipmt.	$ 350.00	13.00	$ 4,550.00
Equipment - Trailer Rental	Future Metals	0	Mirage Cargo / RV Trailer	$ 200.00	11.00	$ 2,200.00
Equipment - Trailer Rental	Future Metals	0	Petersen Utility Trailer	$ 35.00	11.00	$ 385.00
Equipment - Transport- Air	Future Metals	0	Alpine Aviation, Box 6,Whitehorse,YT	$ -	0.00	$ 1,287.80
Equipment - Transport- Water	Future Metals	0	Rustic North Ltd.,119 Platinum Rd.,Whitehorse	$ -	0.00	$ 2,400.00
Equipment - Transportation- Boat	Future Metals	0	Rustic North Ltd.,119 Platinum Rd.,Whitehorse	$ -	0.00	$ 1,925.00
Equipment - Transport-Helicopter	Future Metals	0	Discovery Helicopters, PO Box 178,Atlin,BC	$ -	0.00	$ 2,152.69
Equipment - Transport-Helicopter	Future Metals	0	Discovery Helicopters, PO Box 178,Atlin,BC	$ -	0.00	$ 962.76
Equipment - Transport-Helicopter	Future Metals	0	Discovery Helicopters, PO Box 178,Atlin,BC	$ -	0.00	$ 698.99
Equipment - Vehicle Rental	Future Metals	0	Dodge Ram 1500 1/2 ton 4 x 4	$ 100.00	13.00	$ 1,300.00
Equipment - Vehicle Rental	Future Metals	0	Ford 3500 1 ton 4X4	$ 100.00	11.00	$ 1,100.00
Equipment - Vehicle Rental	Future Metals	0	MPV 4X4	$ 90.00	13.00	$ 1,170.00
Equipment - Vehicle-Maintenance	Future Metals	0	Bee Jays Services,Box 559,Watson Lk,YT	$ -	0.00	$ 129.23
Equipment - Vehicle-Maintenance	Future Metals	0	Fas,Gas,Kopper King,91888 Alaska Hway,Whitehorse,YT	$ -	0.00	$ 23.50

Expense Category	Contractor	Contractor's Employee	Description	Rate	Days	Total
Equipment - Vehicle-Maintenance	Future Metals	0	Great Northern Oil,Box 100,Km.21 Tagish Rd.,Tagish,YT	$ -	0.00	$ 23.54
Equipment - Vehicle-Repair	Future Metals	0	Kal Tire,Hwy.16 W.,Smithers,BC	$ -	0.00	$ 53.50
Food- Restaurant	Future Metals	0	Belvedere Motel Hotel,Box 288,Watson Lk.,YT	$ -	0.00	$ 51.13
Food- Restaurant	Future Metals	0	Unreadable	$ -	0.00	$ 10.30
Food-Groceries	Future Metals	0	Whthorse Liquor Store,2190 2nd Ave.,Whthorse,YT	$ -	0.00	$ 38.85
Food-Groceries	Future Metals	0	The Gazebo,Box 100,Tagish,YT Y0* 1T0	$ -	0.00	$ 3.75
Food-Groceries	Future Metals	0	Fields Stores,3752-4th Ave.,Smithers,BC	$ -	0.00	$ 11.24
Food-Groceries	Future Metals	0	Atlin Gen.Store,1st Trainor Ave.,Atlin,BC	$ -	0.00	$ 14.65
Food-Groceries	Future Metals	0	Canada Safeway	$ -	0.00	$ 395.04
Food-Groceries	Future Metals	0	Canada Safeway	$ -	0.00	$ 554.31
Food-Groceries	Future Metals	0	Canada Safeway	$ -	0.00	$ 355.01
Food-Groceries	Future Metals	0	Canada Safeway	$ -	0.00	$ 73.37
Food-Groceries	Future Metals	0	Canada Safeway	$ -	0.00	$ 23.92
Food-Groceries	Future Metals	0	Cdn.Superstore,2270-2nd Ave.,Whthorse,BC	$ -	0.00	$ 23.62
Food-Groceries	Future Metals	0	Nature's Pantry,Box 4068,Smithers,BC	$ -	0.00	$ 58.36
Food-Groceries	Future Metals	0	Nature's Pantry,Box 4068,Smithers,BC	$ -	0.00	$ 98.46
Food-Groceries	Future Metals	0	Smithers Sausage Fact.,1107 Main St.,Smithers,BC	$ -	0.00	$ 175.36
Food-Groceries	Future Metals	0	Mac's Fireweed,203 Main St.,Whthorse,YT	$ -	0.00	$ 9.02
Food-Restaurant	Future Metals	0	Alpenhorn Bistro & Bar,1261 Main St.,Smithers,BC	$ -	0.00	$ 120.30
Food-Restaurant	Future Metals	0	Belvedere Motel Hotel,Box 288,Watson Lk.,YT	$ -	0.00	$ 99.94

Expense Category	Contractor	Contractor's Employee	Description	Rate	Days	Total
Food-Restaurant	Future Metals	0	Jade Boulder Café, Box 276,Dease Lake,BC	$ -	0.00	$ 174.02
Food-Restaurant	Future Metals	0	King Edward Hotel,405 5th St.,Stewart,BC	$ -	0.00	$ 270.30
Food-Restaurant	Future Metals	0	Northern Rockies Lodge, Box 8,Mile 462, Muncho Lk., BC	$ -	0.00	$ 7.06
Food-Restaurant	Future Metals	0	Sally's Café,Lot 17 Mile,648 Alaska Hwy.,Watson Lake,YT	$ -	0.00	$ 15.37
Food-Restaurant	Future Metals	0	Subway,4904 50th Ave.,Ft.Nelson,BC	$ -	0.00	$ 9.41
Food-Restaurant	Future Metals	0	Twilight Café, Atlin,BC	$ -	0.00	$ 22.61
Food-Restaurant	Future Metals	0	Twilight Café, Atlin,BC	$ -	0.00	$ 25.95
Food-Restaurant	Future Metals	0	Twilight Café,3rd & Discovery,Atlin,BC	$ -	0.00	$ 63.73
Food-Restaurant	Future Metals	0	Twilight Café,3rd St. & Discovery, Atlin,BC	$ -	0.00	$ 215.52
Food-Restaurant	Future Metals	0	Watson Lake Foods,718 Adela Trail,Watson Lk.,Yukon	$ -	0.00	$ 6.96
Food-Restaurant	Future Metals	0	Yukon Hotel & Rest.,804 Alaska Hwy.,Teslin,YT	$ -	0.00	$ 127.31
Sample analysis	ALS Chemex	0	9/04 analysis	$ -	0.00	$ 4,727.88
Sample analysis	ALS Chemex	0	Sample analysis		0.00	$ 3,364.76
Shipping	Future Metals	0	Bandstra, Telkwa,BC	$ -	0.00	$ 512.46
Shipping Supplies-Wood Core Box	Future Metals	0	IRL Supplies,610-Richard Rd.,Pr.George,BC	$ -	0.00	$ 4,985.60
Supplies - Exploration	Future Metals	0	IRL Supplies,610-Richard Rd.,Pr.George,BC	$ -	0.00	$ 1,106.13
Supplies - Exploration	Future Metals	0	IRL Supplies,610-Richard Rd.,Pr.George,BC	$ -	0.00	$ 20.10
Supplies - Field	Future Metals	0	Atlin Trading Post,Atlin,BC	$ -	0.00	$ 32.12
Supplies - Field	Future Metals	0	Bulkley Valley Hme.Ctr.,Hwy.16,Telkwa,BC	$ -	0.00	$ 5.64
Supplies - Field	Future Metals	0	Cad.Tire,1350 Main St.,N.Van,BC	$ -	0.00	$ 58.54
Supplies - Field	Future Metals	0	Canadian Tire #631	$ -	0.00	$ 291.40

Expense Category	Contractor	Contractor's Employee	Description	Rate	Days	Total
Supplies - Field	Future Metals	0	Frt.St.John Mohawk, 9515 Alaska Rd.,Ft.St.John,BC	$ -	0.00	$ 60.96
Supplies - Field	Future Metals	0	IRL Supplies,810 Richard Rd.,Pr.George,BC	$ -	0.00	$ 163.51
Supplies - Field	Future Metals	0	IRL Supplies,810 Richard Rd.,Pr.George,BC	$ -	0.00	$ 117.37
Supplies - Personal-Laundry	Future Metals	0	BV Traveller Services Ltd.,Box 2170,Smithers,BC	$ -	0.00	$ 42.00
Supplies - Vehicle - Fuel	Future Metals	0	Fas,Gas,Kopper King,91888 Alaska Hway,Whitehorse,YT	$ -	0.00	$ 51.69
Supplies - Vehicle - Fuel	Future Metals	0	Great Northern Oil,Box 100,Km.21 Tagish Rd.,Tagish,YT	$ -	0.00	$ 23.58
Supplies - Vehicle - Fuel	Future Metals	0	Riverdale Super A Gasbar,29 Lewis Blvd.,Whitehorse,Yukon	$ -	0.00	$ 51.52
Supplies - Vehicle - Fuel	Future Metals	0	Shell Canada,Discovery & 3rd St.,Atlin,BC	$ -	0.00	$ 85.88
Supplies - Vehicle - Fuel	Future Metals	0	Superstore GasBar,2226 2nd Ave.,Whthorse,BC	$ -	0.00	$ 47.17
Supplies - Vehicle-Fuel	Future Metals	0	Blueberry Gas,Mile 101,Alaska Hwy.,Wowowsa,BC	$ -	0.00	$ 162.79
Supplies - Vehicle-Fuel	Future Metals	0	Esso 7/11,Hwy.16,Smithers,BC	$ -	0.00	$ 61.32
Supplies - Vehicle-Fuel	Future Metals	0	Esso, Site #88004970	$ -	0.00	$ 51.90
Supplies - Vehicle-Fuel	Future Metals	0	Esso, Vilage Rd.,Lake Louise,Ab	$ -	0.00	$ 53.38
Supplies - Vehicle-Fuel	Future Metals	0	Esso,4804-50 Ave., Fort Nelson,BC	$ -	0.00	$ 83.96
Supplies - Vehicle-Fuel	Future Metals	0	Gas Maiv, (not legible)	$ -	0.00	$ 152.55
Supplies - Vehicle-Fuel	Future Metals	0	Great Northern Oil,Box 100,Km.21 Tagish Rd.,Tagish,YT	$ -	0.00	$ 87.74
Supplies - Vehicle-Fuel	Future Metals	0	Junct.37 Services,Watson Lk.,Yukon	$ -	0.00	$ 114.24
Supplies - Vehicle-Fuel	Future Metals	0	Mohawk,3813 Hwy. 16W,Smithers,BC	$ -	0.00	$ 58.46

Expense Category	Contractor	Contractor's Employee	Description	Rate	Days	Total
Supplies - Vehicle-Fuel	Future Metals	0	Northern Rockies Lodge, Box 8,Mile 462, Muncho Lk., BC	$ -	0.00	$ 108.60
Supplies - Vehicle-Fuel	Future Metals	0	Petro Can, 606 5th Ave.,Stewart,BC	$ -	0.00	$ 284.64
Supplies - Vehicle-Fuel	Future Metals	0	Petro Can,3712 Hwy.16,Smithers,BC	$ -	0.00	$ 70.77
Supplies - Vehicle-Fuel	Future Metals	0	Petro-Can,606 5th Ave.,Stewart,BC	$ -	0.00	$ 8.62
Supplies - Vehicle-Fuel	Future Metals	0	Petro-Can., Alaska Hwy., Watson Lk., Yukon	$ -	0.00	$ 243.73
Supplies - Vehicle-Fuel	Future Metals	0	Shell, Pine Tree Services,Box 267,Atlin,BC	$ -	0.00	$ 25.36
Supplies - Vehicle-Fuel	Future Metals	0	Shell,Discovery & 3rd St., Atlin,BC	$ -	0.00	$ 23.60
Supplies - Vehicle-Fuel	Future Metals	0	Shell,Discovery & 3rd St., Atlin,BC	$ -	0.00	$ 108.29
Supplies - Vehicle-Fuel	Future Metals	0	Shell,Discovery & 3rd St.,Atlin,BC	$ -	0.00	$ 359.41
Supplies - Vehicle-Fuel	Future Metals	0	Shell,Pine Tree Services,Box 267,Atlin,BC	$ -	0.00	$ 49.68
Supplies - Vehicle-Fuel	Future Metals	0	Shell,Pine Tree Services,Box 267,Atlin,BC	$ -	0.00	$ 142.40
Supplies - Vehicle-Fuel	Future Metals	0	Smitherstown Pantry,3696 Hwy.16,Smithers,BC	$ -	0.00	$ 58.09
Supplies - Vehicle-Fuel	Future Metals	0	Smitherstown Pantry,3696 Hwy.16,Smithers,BC	$ -	0.00	$ 197.85
Supplies - Vehicle-Fuel	Future Metals	0	Tatogga Lake Resort,Box 59 $37 Hwy.,Iskut,BC	$ -	0.00	$ 112.69
Supplies - Vehicle-Fuel	Future Metals	0	Yukon Motel,Box 187,Teslin, YT	$ -	0.00	$ 63.86
Supply Services-Expediting	Future Metals	0	Skeena Expediting,Telkwa,BC	$ -	0.00	$ 387.50
Supply Services-Expediting	Future Metals	0	Small's Expediting,Whitehorse,YT	$ -	0.00	$ 158.95
Tenure and registration	BC Mineral Titles ON LINE	0	Engineer tenrue	$ -	0.00	$ 709.92

Expense Category	Contractor	Contractor's Employee	Description	Rate	Days	Total
Travel and accomodation	Future Metals	0	King Edward Hotel,405 5th St.,Stewart,BC	$ -	0.00	$ 931.01
Travel and accomodation	Future Metals	0	Northern Rockies Lodge, Box 8,Mile 462, Muncho Lk., BC	$ -	0.00	$ 117.72
Travel and accomodation	Future Metals	0	The Atlin Inn, 1 1st St., Atlin,BC	$ -	0.00	$ 430.61
Travel and accomodation	Future Metals	0	The Atlin Inn,Atlin,BC	$ -	0.00	$ 85.62
Travel and accomodation	Future Metals	0	Watson Lake Hotel,713 Frank Trail,Watson Lk.,YT	$ -	0.00	$ 872.35
Travel and accomodation	Future Metals	0	Yukon Motel,Box 187,Teslin, YT	$ -	0.00	$ 149.22
Travel and accomodation - Transport			Bandstra,Box 95, Smithers,BC	$ -	0.00	$ 1,282.35
Wages/Consulting/Labour	AMEX Exploartion/Albert Ablett	0	10/31 claims consulting work	$ 600.00	0.88	$ 525.00
Wages/Consulting/Labour	Future Metals Inc./Michael Renning	Eric Kimmel	Prep/Field Work	$ 325.00	1.60	$ 520.00
Wages/Consulting/Labour	Future Metals Inc./Michael Renning	Jonny Gerewig	Prep/Field Work	$ 350.00	1.30	$ 455.00
Wages/Consulting/Labour	Future Metals Inc./Michael Renning	Brent Schoon	Field Work	$ 325.00	11.00	$ 3,575.00
Wages/Consulting/Labour	Future Metals Inc./Michael Renning	Eric Kimmel	Field Work	$ 325.00	11.50	$ 3,737.50
Wages/Consulting/Labour	Future Metals Inc./Michael Renning	Ian Welsted	Field Work	$ 325.00	13.00	$ 4,225.00
Wages/Consulting/Labour	Future Metals Inc./Michael Renning	Jonny Gerewig	Field Work	$ 350.00	13.00	$ 4,550.00
Wages/Consulting/Labour	Future Metals Inc./Michael Renning	Lisa Pettenuzzo	Field Work	$ 375.00	13.00	$ 4,875.00

Expense Category	Contractor	Contractor's Employee	Description	Rate	Days	Total
Wages/Consulting/Labour	Future Metals Inc./Michael Renning	Michael Pettit	Field Work	$ 325.00	8.00	$ 2,600.00
Wages/Consulting/Labour	Future Metals Inc./Michael Renning	Michael Renning	Field Work	$ 400.00	13.00	$ 5,200.00
Wages/Consulting/Labour	Future Metals Inc./Michael Renning	Thea Gray	Field Work	$ 325.00	11.00	$ 3,575.00
Wages/Consulting/Labour	Lee M Gifford	0	Property assessment reports/exploration preparation	$ 250.00	2.44	$ 610.63
Wages/Consulting/Labour	Lee M Gifford	0	Geological project reports	$ 250.00	2.54	$ 634.88
Wages/Consulting/Labour	Lee M Gifford	0	Exploration report preparation/assessment	$ 250.00	1.00	$ 250.00
Wages/Consulting/Labour	Lindsay Graham	0	Mapping	$ 250.00	6.00	$ 1,500.00
Wages/Consulting/Labour	Lindsay Graham	0	Mapping	$ 250.00	0.50	$ 125.00
Wages/Consulting/Labour	Lindsay Graham	0	Mapping	$ 250.00	1.90	$ 475.00
Wages/Consulting/Labour	Lindsay Graham	0	Mapping	$ 250.00	1.00	$ 250.00
Wages/Consulting/Labour	Thea Gray		Technical Report Writing	$ 400.00	3.94	$ 1,574.51

APPENDIX C

SAMPLE DESCRIPTIONS

Sample #	Project	Area	Year	Sample Type/Size	Representaive Sample (Y/N)	Deposit/Model Type	Rock Type/Category	Texture/Colour	Alteration	Minerals	Assay Certificate Number	Analysis Type
47352	Happy Sullivan	Happy Sullivan	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Brecciated quartz - Argillite/ dark black, white quartz	Minor iron staining	Quartz stringers up to 1mm	VA07083868	Au-AA26; ME-ICP61
47354	Happy Sullivan	Happy Sullivan	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Brecciated quartz - Argillite/ dark black, white quartz	Minor iron staining	Quartz stringers up to 1mm	VA07083868	Au-AA26; ME-ICP61
47355	Happy Sullivan	Sweepstake	2007	Panel Chip/0.7X1.0M	Yes	Epithermal	Sediment/ Argillite	Brecciated quartz - Argillite/ dark black, white quartz		Quartz veinlets	VA07083868	Au-AA26; ME-ICP61
47356	Happy Sullivan	Sweepstake	2007	Panel Chip/0.8X1.0M	Yes	Epithermal	Sediment/ Argillite	Brecciated quartz - Argillite/ dark black, white quartz		Quartz veinlets (2-3mm)	VA07083868	Au-AA26; ME-ICP61
47357	Happy Sullivan	Happy Sullivan	2007	Chip/1.0M	Yes	Epithermal	Sediment/ Argillite	Fine grained/ dark black		Quartz stringers up to 2mm	VA07083868	Au-AA26; ME-ICP61
47358	Happy Sullivan	Sweepstake	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Fine grained/ dark black	Rusty surfaces		VA07083868	Au-AA26; ME-ICP61
47359	Happy Sullivan	Sweepstake	2007	Panel Chip/1.0X1.2M	Yes	Epithermal	Sediment/ Argillite	Brecciated quartz - Argillite/ dark black, white quartz		Quartz veinlets (1-2mm)	VA07083868	Au-AA26; ME-ICP61
47359	Happy Sullivan	Sweepstake	2007	Panel Chip/1.0X1.2M	Yes	Epithermal	Sediment/ Argillite	Brecciated quartz - Argillite/ dark black, white quartz		Quartz veinlets (1-2mm)	VA07083868	Au-AA26; ME-ICP61
47360	Happy Sullivan	Happy Sullivan	2007	Panel Chip/1.0X1.2M	Yes	Epithermal	Sediment/ Argillite	Fine grained/ dark black		Quartz veinlets	VA07083868	Au-AA26; ME-ICP61
47361	Happy Sullivan	Happy Sullivan	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Brecciated quartz - Argillite/ dark black, white quartz	Patchy' iron staining	Quartz veinlets up to 2mm, trace of pyrite	VA07083868	Au-AA26; ME-ICP61
47362	Happy Sullivan	Happy Sullivan	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Fine grained/ dark black		Quartz crystals line cavities	VA07083868	Au-AA26; ME-ICP61

Sample #	Project	Area	Year	Sample Type/Size	Representaive Sample (Y/N)	Deposit/Model Type	Rock Type/Category	Texture/Colour	Alteration	Minerals	Assay Certificate Number	Analysis Type
47363	Happy Sullivan	Happy Sullivan	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Fine grained/ dark black		Quartz veinlets (2-5mm)	VA07083868	Au-AA26; ME-ICP61
47365	Happy Sullivan	Sweepstake	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Fine grained/ dark 'greenish' black		Quartz stringers up to 5mm	VA07083868	Au-AA26; ME-ICP61
47366	Happy Sullivan	Sweepstake	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Fine grained/ dark black	Slick'n'side surfaces	Quartz stringers up to 1mm	VA07083868	Au-AA26; ME-ICP61
47367	Happy Sullivan	Happy Sullivan	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Brecciated quartz - Argillite/ dark black, white quartz		Quartz veinlets up to 15mm	VA07083868	Au-AA26; ME-ICP61
47368	Happy Sullivan	Sweepstake	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Fine grained/ dark black	Patchy' iron staining	Quartz stringers up to 4mm	VA07083868	Au-AA26; ME-ICP61
47369	Happy Sullivan	Happy Sullivan	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Fine grained/ dark black		Quartz veinlets	VA07083868	Au-AA26; ME-ICP61
47370	Happy Sullivan	Happy Sullivan	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Fine grained/ dark black		Quartz veinlets	VA07083868	Au-AA26; ME-ICP61
47371	Happy Sullivan	Happy Sullivan	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Fine grained/ dark black	Highly fractured, Carbonate altered		VA07083868	Au-AA26; ME-ICP61
47372	Happy Sullivan	Happy Sullivan	2007	Chip/1.0M	Yes	Epithermal	Sediment/ Argillite	Fine grained/ dark black fragments	Hydrothermal and carbonate alteration, highly fractured		VA07083868	Au-AA26; ME-ICP61
47373	Happy Sullivan	Happy Sullivan	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Fine grained/ tan green-brown	Carbonate alteration	Fine quartz veinlets	VA07083868	Au-AA26; ME-ICP61
47374	Happy Sullivan	Happy Sullivan	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Fine grained/ dark black	Carbonate altered, carbonate veinlets		VA07083868	Au-AA26; ME-ICP61
47376	Happy Sullivan	Happy Sullivan	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Fine grained/ dark black	Hydrothermally altered, silicified		VA07083868	Au-AA26; ME-ICP61
47377	Happy Sullivan	Happy Sullivan	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Fine grained/ tan green-brown	Silicified, carbonate alteration		VA07083868	Au-AA26; ME-ICP61
47378	Happy Sullivan	Happy Sullivan	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Fine grained/ tan green-brown	Silicified, carbonate alteration		VA07083868	Au-AA26; ME-ICP61

Sample #	Project	Area	Year	Sample Type/Size	Representaive Sample (Y/N)	Deposit/Model Type	Rock Type/Category	Texture/Colour	Alteration	Minerals	Assay Certificate Number	Analysis Type
47379	Happy Sullivan	Happy Sullivan	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Fine grained/ tan green-brown	Silicified, limonitic veinlets		VA07083868	Au-AA26; ME-ICP61
47380	Happy Sullivan	Happy Sullivan	2007	Panel Chip/0.5X1.0M	Yes	Epithermal	Sediment/ Argillite	Fine grained/ dark black	Rusty brown weathering		VA07083868	Au-AA26; ME-ICP61
47381	Happy Sullivan	Happy Sullivan	2007	Panel Chip/0.5X2.0M	Yes	Epithermal	Sediment/ Argillite	Fine grained and banded/ dark black	Highly fractured, iron stained weathered surfaces		VA07083868	Au-AA26; ME-ICP61
47382	Happy Sullivan	Happy Sullivan	2007	Panel Chip/0.5X2.0M	Yes	Epithermal	Sediment/ Argillite	Fine grained/ dark black	Highly fractured, carbonate alteration	Numerous calcite veins throughout	VA07083868	Au-AA26; ME-ICP61
47383	Happy Sullivan	Happy Sullivan	2007	Panel Chip/1.5X2.0M	Yes	Epithermal	Sediment/ Argillite	Fine grained/ dark grey black	Rusty, limonitic weathered surface		VA07083868	Au-AA26; ME-ICP61
47423	Happy Sullivan	Sweepstake	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Fine grained/ dark black		Fine quartz stringers	VA07083868	Au-AA26; ME-ICP61
47425	Happy Sullivan	Sweepstake	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Fine grained/ dark black	Silicified, rusty patches		VA07083868	Au-AA26; ME-ICP61
47427	Happy Sullivan	Sweepstake	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Brecciated quartz - Argillite, banded/ dark black, white quartz			VA07083868	Au-AA26; ME-ICP61
47428	Happy Sullivan	Sweepstake	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Fine grained/ dark black	Silicified, rusty fractures	Criss-crossing quartz veinlets	VA07083868	Au-AA26; ME-ICP61
47428	Happy Sullivan	Sweepstake	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Fine grained/ dark black	Slightly silicified, rusty fractures	Criss-crossing quartz veinlets	VA07083868	Au-AA26; ME-ICP61
47430	Happy Sullivan	Sweepstake	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Fine grained/ dark black	Rusty fractures		VA07083868	Au-AA26; ME-ICP61
47431	Happy Sullivan	Happy Sullivan	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Fine grained/ dark black	Deep 'purplish' brown rusty fractures	Quartz stringers up to 1mm	VA07083868	Au-AA26; ME-ICP61

Sample #	Project	Area	Year	Sample Type/Size	Representaive Sample (Y/N)	Deposit/Model Type	Rock Type/Category	Texture/Colour	Alteration	Minerals	Assay Certificate Number	Analysis Type
47432	Happy Sullivan	Sweepstake	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Brecciated quartz - Argillite/ dark black, white quartz	Silicified	Quartz stringers criss-crossing	VA07083868	Au-AA26; ME-ICP61
47434	Happy Sullivan	Happy Sullivan	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Brecciated quartz - Argillite/ dark black, white quartz		Open cavities with quartz crystals up to 3mm	VA07083868	Au-AA26; ME-ICP61
47435	Happy Sullivan	Sweepstake	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Fine grained/ dark black	Silicified, trace 'yellowish' oxidation, open cavities	Fine pyrite, a few fine quartz stringers	VA07083868	Au-AA26; ME-ICP61
47436	Happy Sullivan	Sweepstake	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Brecciated quartz - Argillite/ dark black, white quartz	Rusty patches	Quartz veinlets	VA07083868	Au-AA26; ME-ICP61
47437	Happy Sullivan	Happy Sullivan	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Brecciated quartz - Argillite/ dark black, white quartz		Open cavities with quartz crystals up to 2mm	VA07083868	Au-AA26; ME-ICP61
47438	Happy Sullivan	Happy Sullivan	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Brecciated quartz - Argillite/ dark black, white quartz	Minor iron staining	Open cavities with quartz crystals	VA07083868	Au-AA26; ME-ICP61
47439	Happy Sullivan	Sweepstake	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Fine grained, banded/ dark grey-black		Unusual 'yellowish' oxidation of pyrite?	VA07083868	Au-AA26; ME-ICP61
47441	Happy Sullivan	Happy Sullivan	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Argillite/ medium-dark black	Rusty fractures		VA07083868	Au-AA26; ME-ICP61
47442	Happy Sullivan	Happy Sullivan	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Argillite/ medium-dark black	Silicified, rusty fractures	Quartz stringers	VA07083868	Au-AA26; ME-ICP61
47443	Happy Sullivan	Happy Sullivan	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Brecciated quartz - Argillite/ dark black, white quartz	Rusty fractures		VA07083868	Au-AA26; ME-ICP61
47444	Happy Sullivan	Happy Sullivan	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Fine grained/ light-medium 'greenish' -grey	Carbonate altered, rusty surfaces		VA07083868	Au-AA26; ME-ICP61

Sample #	Project	Area	Year	Sample Type/Size	Representaive Sample (Y/N)	Deposit/Model Type	Rock Type/Category	Texture/Colour	Alteration	Minerals	Assay Certificate Number	Analysis Type
47445	Happy Sullivan	Happy Sullivan	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Breccciated Argillite/ medium-dark black	Hydrothermally altered, very rusty		VA07083868	Au-AA26; ME-ICP61
47446	Happy Sullivan	Happy Sullivan	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Argillite/ medium-dark black	Rusty fractures	Very fine criss-crossing veinlets of calcite	VA07083868	Au-AA26; ME-ICP61
47447	Happy Sullivan	Happy Sullivan	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Argillite/ medium-dark black	Carbonate altered, minor silicifiaction		VA07083868	Au-AA26; ME-ICP61
47448	Happy Sullivan	Happy Sullivan	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Argillite/ medium-dark black	Slightly silicified	Trace disseminated pyrite	VA07083868	Au-AA26; ME-ICP61
47449	Happy Sullivan	Happy Sullivan	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Brecciated quartz - Argillite/ dark black, white quartz	Argillic altered fragments	Minor, fine disseminated sulphides	VA07083868	Au-AA26; ME-ICP61
47449	Happy Sullivan	Happy Sullivan	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Argillite/ light-medium cream-brown	Rusty fractures	Calcite veinlets	VA07083868	Au-AA26; ME-ICP61
47717	Happy Sullivan	Happy Sullivan	2007	Chip/1.0M	Yes	Epithermal	Sediment/ Argillite	Fine grained/ dark black	Rust brown weathering		VA07083868	Au-AA26; ME-ICP61
47718	Happy Sullivan	Sweepstake	2007	Panel Chip/1.0X2.5M	Yes	Epithermal	Sediment/ Argillite	Brecciated quartz - Argillite/ dark black, white quartz	Minor iron staining		VA07083868	Au-AA26; ME-ICP61
47719	Happy Sullivan	Sweepstake	2007	Panel Chip/1.0X2.0M	Yes	Epithermal	Sediment/ Argillite	Brecciated quartz - Argillite/ dark black, white quartz		Quartz/Calcite veinlets	VA07083868	Au-AA26; ME-ICP61
47720	Happy Sullivan	Sweepstake	2007	Panel Chip/0.5X1.0M	Yes	Epithermal	Sediment/ Argillite	Fine grained/ dark black		Quartz veins criss-crossing, 1-2mm	VA07083868	Au-AA26; ME-ICP61
47721	Happy Sullivan	Sweepstake	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Fine grained/ dark 'greenish' brown			VA07083868	Au-AA26; ME-ICP61
47722	Happy Sullivan	Sweepstake	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Fine grained/ dark black	Spotty iron staining		VA07083868	Au-AA26; ME-ICP61
47723	Happy Sullivan	Sweepstake	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Fine grained/ dark black	Silicified, iron stained fractures	Quartz veins 2-3mm	VA07083868	Au-AA26; ME-ICP61

Sample #	Project	Area	Year	Sample Type/Size	Representaive Sample (Y/N)	Deposit/Model Type	Rock Type/Category	Texture/Colour	Alteration	Minerals	Assay Certificate Number	Analysis Type
47724	Happy Sullivan	Sweepstake	2007	Panel Chip/0.5X1.0M	Yes	Epithermal	Sediment/ Argillite	Brecciated quartz - Argillite/ dark black, white quartz		Quartz veins up to 3mm	VA07083868	Au-AA26; ME-ICP61
47726	Happy Sullivan	Sweepstake	2007	Panel Chip/0.75X1.0M	Yes	Epithermal	Sediment/ Argillite	Fine grained/ dark black	Highly fractured	Very small, criss-crossing quartz veins up to 1mm	VA07083868	Au-AA26; ME-ICP61
47727	Happy Sullivan	Sweepstake	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Brecciated quartz - Argillite/ dark black, white quartz		Quartz veins up to 4mm	VA07083868	Au-AA26; ME-ICP61
47728	Happy Sullivan	Sweepstake	2007	Panel Chip/0.5X1.0M	Yes	Epithermal	Sediment/ Argillite	Brecciated quartz - Argillite/ dark black, white quartz	Silicified		VA07083868	Au-AA26; ME-ICP61
47729	Happy Sullivan	Sweepstake	2007	Panel Chip/0.25X1.0M	Yes	Epithermal	Sediment/ Argillite	Brecciated quartz - Argillite/ dark black, white quartz	Open spaces observed throughout	Quartz veins up to 3mm	VA07083868	Au-AA26; ME-ICP61
47730	Happy Sullivan	Sweepstake	2007	Panel Chip/0.5X1.0M	Yes	Epithermal	Sediment/ Argillite	Brecciated quartz - Argillite/ dark black, white quartz	Iron stained fractures		VA07083868	Au-AA26; ME-ICP61
47731	Happy Sullivan	Sweepstake	2007	Panel Chip/0.25X0.50M	Yes	Epithermal	Sediment/ Argillite	Brecciated quartz - Argillite/ dark black, white quartz			VA07083868	Au-AA26; ME-ICP61
47886	Happy Sullivan	Sweepstake	2007	Panel Chip/0.5X0.5M	Yes	Epithermal	Sediment/ Argillite	Fine grained/ dark grey	Argillic alteration, rusty iron stained cavities	Fine quartz veinlets	VA07083868	Au-AA26; ME-ICP61
47887	Happy Sullivan	Sweepstake	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Brecciated quartz - Argillite/ dark black, white quartz	Quartz stockwork, argillic altered fragments, numerous open spaces		VA07083868	Au-AA26; ME-ICP61

Sample #	Project	Area	Year	Sample Type/Size	Representaive Sample (Y/N)	Deposit/Model Type	Rock Type/Category	Texture/Colour	Alteration	Minerals	Assay Certificate Number	Analysis Type
47889	Happy Sullivan	Sweepstake	2007	Panel Chip/0.75X1.0M	Yes	Epithermal	Sediment/ Argillite	Brecciated quartz - Argillite/ dark black, white quartz	Up to 5mm openings, minor iron staining	Quartz crystals	VA07083868	Au-AA26; ME-ICP61
47890	Happy Sullivan	Sweepstake	2007	Panel Chip/0.75X1.0M	Yes	Epithermal	Sediment/ Argillite	Brecciated quartz - Argillite/ dark black, white quartz			VA07083868	Au-AA26; ME-ICP61
47891	Happy Sullivan	Sweepstake	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Brecciated quartz - Argillite/ dark black, white quartz	Minor iron stains		VA07083868	Au-AA26; ME-ICP61
47892	Happy Sullivan	Sweepstake	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Brecciated quartz - Argillite/ dark black, white quartz		Quartz veins up to 3cm wide	VA07083868	Au-AA26; ME-ICP61
47893	Happy Sullivan	Sweepstake	2007	Panel Chip/1.0X2.0M	Yes	Epithermal	Sediment/ Argillite	Brecciated quartz - Argillite/ dark black, white quartz	Iron stained fractures		VA07083868	Au-AA26; ME-ICP61
47894	Happy Sullivan	Sweepstake	2007	Panel Chip/0.5X2.0M	Yes	Epithermal	Sediment/ Argillite	Brecciated quartz - Argillite/ dark black, white quartz	Minor iron staining	Quartz veins up to 3mm	VA07083868	Au-AA26; ME-ICP61
47895	Happy Sullivan	Sweepstake	2007	Panel Chip/1.0X2.0M	Yes	Epithermal	Sediment/ Argillite	Brecciated quartz - Argillite/ dark black, white quartz	Silicified	Up to 2mm quartz stringers	VA07083868	Au-AA26; ME-ICP61
47896	Happy Sullivan	Sweepstake	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Brecciated quartz - Argillite/ dark black, white quartz	Minor iron stains		VA07083868	Au-AA26; ME-ICP61
47897	Happy Sullivan	Sweepstake	2007	Panel Chip/0.5X1.0M	Yes	Epithermal	Sediment/ Argillite	Fine grained/ grey-black	Heavy iron staining, acid leached patches		VA07083868	Au-AA26; ME-ICP61

Sample #	Project	Area	Year	Sample Type/Size	Representaive Sample (Y/N)	Deposit/Model Type	Rock Type/Category	Texture/Colour	Alteration	Minerals	Assay Certificate Number	Analysis Type
47898	Happy Sullivan	Sweepstake	2007	Panel Chip/0.25X1.0M	Yes	Epithermal	Sediment/ Argillite	Brecciated quartz - Argillite/ dark black, white quartz	Quartz crystal growth has filled most voids and open cavities.	Quartz crystals	VA07083868	Au-AA26; ME-ICP61
47899	Happy Sullivan	Sweepstake	2007	Panel Chip/1.0X1.25M	Yes	Epithermal	Sediment/ Argillite	Brecciated quartz - Argillite/ dark black, white quartz		Numerous open spaces with fine crystals	VA07083868	Au-AA26; ME-ICP61
47900	Happy Sullivan	Sweepstake	2007	Panel Chip/1.0X2.5M	Yes	Epithermal	Sediment/ Argillite	Brecciated quartz - Argillite/ dark black, white quartz		Quartz veins and fine quartz crystals in open cavities (up to 2cm).	VA07083868	Au-AA26; ME-ICP61
48072	Happy Sullivan	Happy Sullivan	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Argillite/ light-medium 'greenish' grey	Carbonate altered	Quartz stringers up to 4mm	VA07083868	Au-AA26; ME-ICP61
48073	Happy Sullivan	Happy Sullivan	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Argillite/ medium-dark 'greenish' brown	Carboante altered, rusty fractures		VA07083868	Au-AA26; ME-ICP61
48074	Happy Sullivan	Happy Sullivan	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Fine grained/ medium grey black	Silicified	Quartz crystals in small open spaces	VA07083868	Au-AA26; ME-ICP61
48076	Happy Sullivan	Happy Sullivan	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Fine grained/ medium-dark black	Carbonate alteration	Quartz and calcite stringers	VA07083868	Au-AA26; ME-ICP61
48077	Happy Sullivan	Happy Sullivan	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Fine grained/ light-medium 'greenish' -grey	Carbonate alteration	Trace visible pyrite	VA07083868	Au-AA26; ME-ICP61
48078	Happy Sullivan	Happy Sullivan	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Argillite/ light grey-black	Carbonate altered, highly fractured		VA07083868	Au-AA26; ME-ICP61
48079	Happy Sullivan	Happy Sullivan	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Argillite/ light-medium brown	Carbonate altered, highly fractured	Calcite veinlets up to 1mm	VA07083868	Au-AA26; ME-ICP61
48080	Happy Sullivan	Happy Sullivan	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Fine grained/ medium grey black	Carbonate alteration	Uneven pyrite distribution	VA07083868	Au-AA26; ME-ICP61

Sample #	Project	Area	Year	Sample Type/Size	Representaive Sample (Y/N)	Deposit/Model Type	Rock Type/Category	Texture/Colour	Alteration	Minerals	Assay Certificate Number	Analysis Type
48081	Happy Sullivan	Happy Sullivan	2007	Panel Chip/1.0X1.0M	Yes	Epithermal	Sediment/ Argillite	Argillite/ light-medium 'greenish' brown	Carbonate altered, rusty fractures		VA07083868	Au-AA26; ME-ICP61

APPENDIX D

SAMPLE LOCATIONS & ASSAY HIGHLIGHTS

Happy Sullivan - Sweeptake Rock Sample Locations & Analysis Highlights

SAMPLE #	Easting	Northing	Au (ppm)	Ag (ppm)	As (ppm)	Ba (ppm)	Cu (ppm)	Mn (ppm)	Sb (ppm)	Zn (ppm)
47717	544595.70	6597135.50	0.01	0.5	5	940	67	568	5	77
47718	543684.94	6595981.73	0.79	2.3	464	340	39	195	53	37
47719	543685.13	6595982.51	0.45	3	556	280	22	76	71	13
47720	543636.41	6595866.36	0.22	2	739	540	72	377	39	64
47721	543637.29	6595865.98	0.05	0.6	310	400	104	687	28	104
47722	543638.22	6595865.53	0.14	2.6	599	420	74	269	39	58
47723	543639.28	6595865.10	1.03	3	1720	220	15	73	81	12
47724	543640.16	6595864.64	0.34	1.3	718	210	27	99	61	19
47726	543640.84	6595864.34	0.14	1.7	539	300	76	1075	24	64
47727	543640.92	6595863.63	0.2	1.4	247	180	16	91	53	13
47728	543640.59	6595862.62	0.17	0.6	98	160	4	50	32	2
47729	543640.12	6595861.74	0.62	0.9	254	180	7	69	32	3
47730	543639.64	6595860.80	0.19	0.6	211	160	5	51	38	2
47731	543638.97	6595859.84	0.16	1.5	317	610	14	246	44	21
47352	543576.20	5695731.03	0.11	1.2	237	200	16	97	45	10
47353	543577.23	6595731.60	0.12	2.3	1160	440	65	139	61	45
47354	543577.84	6595732.37	0.12	2	637	380	48	174	33	33
47355	543575.93	6595733.37	0.16	1.1	274	230	25	168	40	27
47356	543576.02	6595734.69	0.22	2.3	272	240	30	157	46	23
47357	543576.14	6595735.90	0.05	1.3	77	260	18	146	41	22
47358	543578.23	6595736.98	0.13	1.6	306	470	72	283	34	62
47359	543579.02	6595737.59	0.09	1.5	302	560	92	256	31	74
47360	543579.47	6595738.42	0.11	0.8	445	520	69	363	25	70
47361	543579.57	6595739.60	0.18	1	691	450	57	323	30	58
47362	543579.51	6595740.67	0.34	1	490	360	53	284	37	48
47363	543579.65	6595741.87	0.11	1.1	157	390	61	308	35	53
47365	543580.26	6595742.72	0.25	1.4	1280	430	51	181	48	37
47366	543579.47	6595738.42	0.12	0.9	288	470	69	277	30	55
47367	543582.43	6595743.78	0.27	1.3	290	350	38	298	35	62
47368	543581.92	6595745.06	0.15	1	463	340	41	414	37	48
47369	543383.00	6595765.00	0.02	0.5	10	1430	117	643	6	114

SAMPLE #	Easting	Northing	Au (ppm)	Ag (ppm)	As (ppm)	Ba (ppm)	Cu (ppm)	Mn (ppm)	Sb (ppm)	Zn (ppm)
47370	543384.00	6595765.00	0.02	0.5	5	1290	122	729	5	122
47371	544298.25	6597182.04	0.05	1	274	420	112	613	28	82
47372	544297.84	6597182.96	0.07	0.7	379	400	132	579	27	79
47373	544297.36	6597183.78	0.04	0.9	226	360	71	632	21	72
47374	544296.89	6597184.64	0.04	0.5	265	340	95	619	21	75
47376	544296.25	6597185.23	0.22	5.4	487	170	31	334	46	198
47377	544296.25	6597186.11	0.22	5.6	1140	360	45	438	61	260
47378	544296.59	6597186.98	0.07	0.5	410	400	68	910	46	118
47379	544294.70	6597189.76	0.01	0.5	30	680	35	748	5	79
47380	544294.37	6597190.36	0.05	0.5	39	660	29	790	9	84
47381	544294.20	6597191.26	0.01	0.5	77	640	106	852	27	102
47382	544294.13	6597192.18	0.01	0.5	131	460	107	1005	27	103
47383	544294.04	6597193.13	0.15	1.2	718	380	71	607	53	86
47384	544293.74	6597193.97	0.04	0.8	299	510	98	1140	42	126
47423	543580.40	6595717.50	0.02	0.7	109	890	52	532	37	59
47425	543579.49	6595718.05	0.04	1.2	254	870	50	448	27	53
47426	543578.67	6595718.60	0.04	0.9	332	230	21	340	50	30
47427	543577.76	6595719.27	0.19	3.7	478	480	34	165	46	35
47428	543576.95	6595719.88	0.24	3.3	704	690	72	306	42	66
47429	543576.10	6595720.57	0.39	4.1	1085	560	90	200	61	53
47430	543575.37	6595721.46	0.33	5.6	878	680	76	187	44	70
47431	543574.78	6595722.13	0.27	3	663	450	48	158	43	49
47432	543574.17	6595722.92	0.07	1.6	258	680	88	230	28	73
47434	543573.60	6595724.04	0.08	1	334	550	75	178	33	60
47435	543573.44	6595724.93	0.48	3.1	837	420	42	136	41	34
47436	543572.40	6595725.48	0.27	2.5	1315	450	40	444	63	39
47437	543571.23	6595726.05	0.13	1.8	469	380	32	109	45	19
47438	543570.78	6595727.02	0.23	3.2	760	380	47	87	47	29
47439	543570.54	6595727.92	0.16	3.7	1575	400	40	105	75	32
47440	544259.39	6597201.52	0.99	1	4820	230	9	402	129	40
47441	544260.26	6597201.47	1.69	5.7	6060	300	20	172	183	35
47442	544261.24	6597201.43	0.42	3.6	2220	380	32	232	182	71
47443	544262.30	6597201.36	0.79	3.4	3190	230	38	684	114	187
47444	544263.34	6597201.25	0.4	2.2	2550	290	42	797	76	322
47445	544264.39	6597201.15	0.3	2.4	1260	360	76	567	69	323
47446	544265.42	6597201.00	0.02	0.6	229	460	122	750	27	277

SAMPLE #	Easting	Northing	Au (ppm)	Ag (ppm)	As (ppm)	Ba (ppm)	Cu (ppm)	Mn (ppm)	Sb (ppm)	Zn (ppm)
47447	544266.36	6597200.86	0.22	0.5	965	250	50	574	63	117
47448	544267.27	6597200.68	0.09	0.9	501	380	143	593	28	70
47449	544268.20	6597200.38	0.03	0.5	202	410	127	604	25	56
47886	543689.97	6595980.43	0.3	1.4	706	880	67	318	31	82
47887	543689.40	6595980.38	0.28	0.9	126	200	12	65	38	11
47889	543688.60	6595980.38	0.21	1.7	203	300	30	158	39	42
47890	543687.35	6595980.34	0.31	2.7	458	360	27	120	44	37
47891	543686.26	6595980.31	0.36	2.9	834	410	33	128	57	32
47892	543685.39	6595980.41	0.33	1.9	525	340	28	125	62	31
47893	543684.82	6595983.33	0.27	2.1	283	430	53	226	48	45
47894	543683.80	6595983.66	0.61	2.6	523	290	19	73	52	18
47895	543682.55	6595983.83	0.55	5.2	1080	300	24	87	68	20
47896	543681.59	6595983.36	0.84	7.8	1940	370	35	142	75	26
47897	543680.88	6595982.44	0.39	0.6	1820	720	21	895	36	118
47898	543680.29	6595981.40	0.16	1.8	647	680	19	497	30	101
47899	543684.54	6595979.91	0.15	2.4	222	510	99	455	31	83
47900	543684.77	6595980.71	0.3	2.4	245	360	52	230	54	44
48072	544269.14	6597200.11	0.08	0.9	480	360	111	642	21	45
48073	544270.17	6597199.72	0.93	7.3	997	240	54	263	77	91
48074	544271.15	6597199.36	0.5	3.6	729	190	31	278	73	109
48076	544272.10	6597199.02	0.16	2.6	952	380	156	888	38	783
48077	544273.01	6597198.66	0.18	14.2	325	580	128	598	29	478
48078	544273.86	6597198.35	0.05	0.5	176	580	82	641	19	149
48079	544274.74	6597198.05	0.07	0.9	357	550	163	658	23	1040
48080	544275.63	6597197.75	0.02	0.5	110	630	65	586	17	84
48081	544276.58	6597197.28	0.23	2.9	1410	460	25	89	164	66

Happy Sullivan 2007 Soil Sample Locations & Analysis Highlights

SAMPLE ID	Easting	Northing	Au (ppm)	Ag (ppm)	As (ppm)	Au (ppm)	Ba (ppm)	Cu (ppm)	Mn (ppm)	Pb (ppm)	Sb (ppm)	Y (ppm)	Zn (ppm)
J1	543519	6595639	0.005	0.06	47.5	0.2	80	10.6	171	9.3	2.32	2.16	66
J2	543565	6595695	0.005	0.16	90.8	0.2	70	13.2	255	11	1.27	3.39	65
J3	543584	6595757	0.005	0.09	54.9	0.2	100	9.7	223	7.6	1.14	2.93	67
J4	543591	6595807	0.016	0.09	75	0.2	130	17.6	245	10.1	1.93	2.38	66
J5	543610	6595850	0.005	0.04	71.8	0.2	60	9.6	151	9.1	1.58	2.55	77
J6	543630	6595894	0.005	0.13	112	0.2	100	13.6	319	13.3	1.97	3.37	130
J7	543651	6595934	0.006	0.12	126	0.2	80	12.9	328	9.2	1.74	2.8	92
J8	543676	6595972	0.007	0.08	134.5	0.2	130	13.7	187	9.7	2.24	2.78	123
J9	543687	6596019	0.007	0.07	49.1	0.2	80	9.8	138	8.4	1.43	2.26	65
J10	543717	6596070	0.011	0.09	82.7	0.2	80	12.6	151	7.4	1.88	3.09	46
J11	543738	6596134	0.006	0.11	76.1	0.2	80	13.8	248	10.5	1.55	3.18	80
J12	543757	6596187	0.005	0.06	81.2	0.2	80	27	328	12	1.66	6.14	65
J13	543774	6596240	0.008	0.11	118	0.2	100	18	196	12.7	1.85	3.54	88
J14	543796	6596284	0.009	0.17	184	0.2	90	15.3	342	12.6	2.3	3.27	90
J15	543831	6596331	0.006	0.09	92.3	0.2	120	13	254	9.4	1.61	3.17	85
J16	543849	6596378	0.016	0.11	179	0.2	100	17.9	274	10.7	3.6	2.93	88
J17	543871	6596425	0.009	0.18	57.1	0.2	230	80.1	383	18.7	8.96	2.95	173
J18	543894	6596469	0.012	0.11	51.8	0.2	100	19.7	158	8.5	1.44	3.82	51
J19	543910	6596502	0.013	0.16	75.1	0.2	120	28.9	283	7.7	4.49	3.39	69
J20	543947	6596541	0.013	0.26	87.3	0.2	100	23.3	191	9	2.76	4.13	59
Ei1	544248	6597092	0.157	1.25	1330	0.2	110	129.5	878	116.5	33.5	23.6	237
Ei2	544277	6597012	0.017	0.32	57	0.2	130	24.8	417	12.8	1.97	2.99	105
Ei3	544271	6596948	0.012	0.11	56.9	0.2	70	45.9	356	13.7	3.44	4.93	124
Ei4	544236	6596878	0.011	0.07	83.7	0.2	100	27.5	355	10.1	1.97	5.71	74
Ei5	544197	6596805	0.015	0.15	64.7	0.2	90	17.8	192	11	1.63	4.11	50
Ei6	544143	6596731	0.005	0.13	79.8	0.2	90	16.4	172	13.3	1.63	3.46	47
Ei7	544090	6596640	0.005	0.1	113	0.2	50	15	203	9.4	1.87	3.91	43
Ei8	544076	6596571	0.005	0.21	96.9	0.2	90	25.6	448	13.8	2.72	4.92	102

SAMPLE ID	Easting	Northing	Au (ppm)	Ag (ppm)	As (ppm)	Au (ppm)	Ba (ppm)	Cu (ppm)	Mn (ppm)	Pb (ppm)	Sb (ppm)	Y (ppm)	Zn (ppm)
Ei9	544064	6596506	1.165	1.48	951	1.4	120	93	858	26.6	15	15.9	160
Ei10	544046	6596419	0.005	0.16	161	0.2	80	28.1	717	27.5	3.12	5.23	66
Ei11	544021	6596343	0.005	0.13	27.4	0.2	70	9.2	89	7.7	0.73	2.79	26
Ei12	544001	6596259	0.005	0.04	84.7	0.2	90	15.3	239	9.9	1.05	5.62	50
Ei13	544060	6596215	0.005	0.07	86	0.2	70	11.4	211	12.1	1.11	4.66	53
Ei14	544096	6596290	0.005	0.05	95.1	0.2	50	13	203	10.5	1.03	5.53	43
Ei15	544142	6596369	0.005	0.19	45.3	0.2	60	10.7	100	10.8	1.38	2.76	33
Ei16	544229	6597055	0.01	0.47	469	0.2	110	37.8	887	25	12.75	3.58	229
Ei17	544243	6597002	0.064	0.18	83.4	0.2	80	34.5	432	11.6	4.56	3.71	88
Ei18	544230	6596927	0.01	0.16	108.5	0.2	110	36.1	693	13.7	5.33	6.17	125
Ei19	544309	6596914	0.008	0.42	156	0.2	130	31.8	445	19.1	5.46	4.98	108
Ei20	544295	6596859	0.005	0.16	123.5	0.2	100	24.1	296	14.4	2.58	5.83	77
Ei21	544294	6596787	0.005	0.21	27.2	0.2	90	12	117	13.5	1.2	3.04	41
Ei22	544253	6596720	0.005	0.08	91.7	0.2	90	12.8	246	11	2.33	3.32	80
Ei23	544225	6596600	0.005	0.15	79.7	0.2	70	18.5	213	10.3	2.06	6.33	59
Ei24	544212	6596535	0.005	0.27	102	0.2	100	17.7	201	14.6	1.93	3.18	59
Ei25	544178	6596444	0.005	0.14	93.8	0.2	90	42.8	514	12.2	4.52	12.6	85
Ei26	544167	6596367	0.005	0.03	92	0.2	60	13.4	214	9.4	2.05	4.83	52
Ei27	544108	6596276	0.005	0.12	74.5	0.2	60	7.6	266	12	1.26	2.71	74
Ei28	544092	6596189	0.005	0.08	77.4	0.2	140	21	329	11.9	1.78	11.3	94
Ei29	544062	6596094	0.005	0.06	71.3	0.2	90	9.1	218	8.2	1.03	3.52	58
Ei30	544106	6595998	0.005	0.11	71	0.2	80	15.2	469	11.7	1.36	4.11	85
Ei31	544113	6595938	0.005	0.09	75.4	0.2	110	21.7	703	17.2	1.4	4.74	159
Ei32	544122	6595867	0.005	0.14	53.3	0.2	70	9.9	216	10.8	1.45	3.06	79
Ei33	544128	6595785	0.005	0.12	123.5	0.2	60	18.5	328	11.3	1.96	6.9	50
Ei34	544168	6595715	0.005	0.09	109.5	0.2	50	9.7	159	9.2	1.61	3.02	39
Ei35	544223	6595640	0.005	0.27	155	0.2	100	21	525	13.9	4.34	5.23	72
Ei36	544179	6595563	0.005	0.11	126	0.2	70	13.7	406	11.9	1.67	5.95	63
Ei37	544162	6595495	0.005	0.17	262	0.2	90	29.1	593	19.2	5.78	9.98	95
Ei38	544132	6595423	0.005	0.12	138	0.2	60	13.6	237	14.8	3.35	3.28	56
Ei39	544081	6595340	0.005	0.29	277	0.2	130	67.3	1475	24.3	7.78	7.26	175
Ei40	544039	6595274	0.005	0.17	147	0.2	100	37.1	575	15.7	3.66	7.59	87
Ei41	543986	6595221	0.005	0.45	146.5	0.2	90	164.5	1190	25.7	12.55	16.85	425
Ei42	543971	6595115	0.008	0.07	188.5	0.2	90	35.2	327	14.1	2.78	6.04	116
Ei43	543970	6595042	0.005	0.15	153	0.2	60	35	474	16.2	3.6	4.8	167

SAMPLE ID	Easting	Northing	Au (ppm)	Ag (ppm)	As (ppm)	Au (ppm)	Ba (ppm)	Cu (ppm)	Mn (ppm)	Pb (ppm)	Sb (ppm)	Y (ppm)	Zn (ppm)
Ei44	543976	6594969	0.116	0.5	1220	0.2	100	88.5	621	19.8	12.65	6.25	183
Ei45	543959	6594906	0.005	0.18	109	0.2	70	20	310	13.7	1.18	5.54	61
Ei46	544001	6594935	0.005	0.07	180	0.2	70	19	313	12.4	1.3	10.05	59
Ei47	544024	6595010	0.005	0.33	169.5	0.2	120	59	1120	23.8	5.16	9.82	147
Ei48	544040	6595081	0.045	0.88	941	0.2	110	125	556	18.7	20.2	10.1	288
Ei49	544028	6595118	0.005	0.45	490	0.2	150	87.7	873	18.5	11.15	9.42	261
Ei50	544335	6597171	0.082	0.48	427	0.2	60	57.7	555	42.4	14.5	12.55	149
Ei51	543552	6596031	0.005	0.1	146.5	0.2	80	14.7	212	9.8	2.91	3.65	97
Ei52	543564	6595942	0.005	0.45	77.6	0.2	150	42.9	312	11.9	8.21	2.92	149
Ei53	543565	6595860	0.005	0.08	149.5	0.2	90	15.2	205	11.3	2.75	3.44	87
Ei54	543544	6595783	0.005	0.13	45.7	0.2	110	11.4	241	11.7	1.26	2.6	101
F23	544156	6597064	0.005	0.16	76.1	0.2	140	20.6	571	11.9	2.36	4.46	99
F24	544133	6596974	0.005	0.5	161	0.2	160	54.3	830	17.4	8.64	9.66	219
F25	544095	6596923	3.35	0.31	195	0.2	80	58.5	543	15.9	6.42	9.59	107
F26	544055	6596842	0.008	0.1	68.8	0.2	160	25.2	275	16.9	2.97	3.8	98
F27	543996	6596796	0.018	0.18	143.5	0.2	90	44.8	445	15.8	5.14	10.15	97
F28	543955	6596749	0.141	0.64	411	0.2	130	82.7	605	14.9	12.3	13.9	120
F29	543901	6596690	0.005	0.27	86.8	0.2	80	43.5	405	12.4	4.35	10.35	84
F30	543839	6596624	0.005	0.23	96.1	0.2	100	26.6	183	7.9	3.3	3.95	61
F31	543782	6596539	0.005	0.16	19.1	0.2	80	10.4	156	10.5	1.5	2.16	61
F32	544103	6597047	0.005	0.11	47.7	0.2	90	23.7	333	10	2.12	3.49	182
F34	544081	6596993	0.005	0.07	79.4	0.2	100	17.2	298	10.4	2.28	3.84	135
F35	544026	6596924	0.014	0.2	87	0.2	130	19.9	352	11.3	2.87	5.28	79
F36	544006	6596870	0.005	0.14	52.7	0.2	70	56.7	399	15.7	3.46	11.75	109
F37	543919	6596798	0.033	0.33	187	0.2	130	66.3	542	12.3	8.38	13.4	118
F38	543895	6596761	0.013	0.27	133.5	0.2	80	33.7	255	10.6	4.72	5.26	76
F39	543843	6596752	0.454	0.19	138.5	0.2	80	51.2	304	11	5.32	7.86	79
F40	543824	6596718	0.028	0.11	128	0.2	110	45.9	384	11.4	5.3	10.55	92
F41	543782	6596699	0.007	0.4	181	0.2	100	38.1	236	12.8	5.34	6.26	62
F42	543716	6596653	0.007	0.55	92	0.2	120	110	792	11.9	3.26	24	98
F43	543642	6596574	0.005	0.23	70.1	0.2	220	20	1590	13.6	3.14	3.1	166
F44	543604	6596497	0.005	0.11	138.5	0.2	110	35.5	249	10.3	4.5	5.83	61
F45	543590	6596387	0.005	0.16	105	0.2	70	16.9	195	9.7	3.09	3.11	82
F46	543531	6596284	0.005	0.18	103	0.2	90	42.4	697	11.1	1.94	9.55	67
F47	543497	6596150	0.005	0.39	164	0.2	130	28.6	354	11.8	3.53	4.5	61

SAMPLE ID	Easting	Northing	Au (ppm)	Ag (ppm)	As (ppm)	Au (ppm)	Ba (ppm)	Cu (ppm)	Mn (ppm)	Pb (ppm)	Sb (ppm)	Y (ppm)	Zn (ppm)
F48	543445	6596082	0.005	0.11	107	0.2	90	20.8	249	10.7	1.64	5.95	53
F49	543437	6596016	0.005	0.21	24	0.2	130	19	268	10.1	1.35	2.08	117
F50	543373	6595968	0.005	0.07	185	0.2	90	43.4	278	10.5	6.4	2.97	79
F51	543323	6595865	0.005	0.09	48.6	0.2	90	8.6	146	7.7	1.26	3.07	38
F52	543291	6595791	0.005	0.15	29.6	0.2	110	44.3	682	13.6	2.32	5.89	122
F53	543267	6595675	0.025	0.36	507	0.2	70	111	544	34.6	25.2	8.32	166
F54	543233	6595625	0.041	0.41	936	0.2	80	179.5	707	57.6	32.9	11.4	242
F55	543781	6595665	0.005	0.21	105.5	0.2	80	21.4	316	12	2.36	6.26	60
F56	543767	6595695	0.005	0.11	69.2	0.2	100	36.9	298	13.2	1.81	4.6	71
F57	543778	6595818	0.005	0.13	94.1	0.2	140	22.5	359	13.1	1.97	4.02	125
F58	543800	6595950	0.005	0.17	107	0.2	60	19	271	12.4	1.67	3.17	84
F59	543794	6596046	0.005	0.09	94.4	0.2	70	17.3	274	11.4	1.29	6.05	51
F60	543788	6596137	0.005	0.1	103.5	0.2	90	21.3	276	11.2	1.7	7.5	58
F61	543789	6596321	0.005	0.08	51.3	0.2	50	15.7	235	7.6	1.45	2.42	89
F62	543698	6596392	0.005	0.3	138.5	0.2	120	30.6	628	13.4	2.86	4.47	101
F63	543540	6596457	0.005	0.15	59.9	0.2	100	28.4	256	11.5	3.28	2.16	75
F64	543420	6596518	0.019	0.14	113	0.2	90	152	271	11.2	4.36	28.7	62
F65	543277	6596509	0.014	0.3	134	0.2	50	25.7	243	9.6	3.23	4.2	77
F66	543174	6596630	0.005	0.25	62.2	0.2	100	21.1	216	10.3	2.32	3.04	124
F67	543470	6595637	0.005	0.13	60.8	0.2	90	30.6	448	11.1	3.56	2.95	109
F68	543511	6595692	0.005	0.34	104	0.2	160	36.1	1540	13.8	5.11	4.12	174
F69	543532	6595746	0.005	0.29	72.3	0.2	110	16.6	341	11	2.61	2.57	69
F70	543550	6595816	0.005	0.17	19.7	0.2	120	7.4	547	10.4	1.06	1.93	78
F71	543588	6595898	0.005	0.11	29.7	0.2	130	8.4	635	9.1	1.02	2.59	60
F72	543598	6595922	0.005	0.15	58.4	0.2	120	10.3	446	9.9	1.59	2.6	124
F73	543625	6595965	0.005	0.18	46.2	0.2	110	7.8	283	8.6	1.46	2.05	60
F74	543632	6596012	0.01	0.36	172.5	0.2	90	16.2	309	10.3	2.93	2.55	101
F75	543673	6596071	0.005	0.09	63.7	0.2	80	13.5	184	10.1	1.48	3.23	73
F76	543689	6596115	0.005	0.17	105.5	0.2	90	18.9	249	10.2	1.66	3.71	76
F77	543702	6596171	0.005	0.21	107.5	0.2	140	27.2	574	10.5	1.84	7.31	61
F78	543729	6596217	0.005	0.33	171.5	0.2	110	49.6	465	10.8	2.36	5.3	108
F79	543771	6596282	0.005	0.12	41.8	0.2	100	8.7	214	8.9	0.96	2.67	47
F80	543816	6596340	0.005	0.21	63.6	0.2	140	9.8	1140	11.5	1.36	2.44	80
F81	543822	6596410	0.005	0.17	52.3	0.2	130	12.4	1240	10.3	1.82	2.56	111
F82	543839	6596454	0.005	0.34	78.9	0.2	100	25.2	299	11	2.83	2.39	136

SAMPLE ID	Easting	Northing	Au (ppm)	Ag (ppm)	As (ppm)	Au (ppm)	Ba (ppm)	Cu (ppm)	Mn (ppm)	Pb (ppm)	Sb (ppm)	Y (ppm)	Zn (ppm)
F83	543862	6596514	0.005	0.3	78.9	0.2	110	21.8	492	9.8	1.95	3.04	78
Si1	543581	6595646	0.005	0.06	55.2	0.2	60	15.7	113	6.8	2.51	2.36	58
Si2	543610	6595703	0.005	0.08	140.5	0.2	60	26.7	308	11.2	2.85	5.22	91
Si3	543627	6595753	0.014	0.19	58.6	0.2	170	12.2	468	11.1	1.37	3.01	116
Si4	543634	6595800	0.005	0.22	80.7	0.2	140	35.1	868	12.5	2.62	3.34	132
Si5	543663	6595834	0.005	0.17	98.1	0.2	90	18.8	261	11	2.05	2.94	82
Si6	543677	6595886	0.005	0.1	67.5	0.2	90	10.8	155	9	1.24	3.66	69
Si7	543700	6595931	0.005	0.18	47.2	0.2	110	31.6	826	14.5	1.81	3.99	189
Si8	543719	6595977	0.005	0.16	162	0.2	90	24.7	360	13.7	1.79	5.98	77
Si9	543732	6596024	0.005	0.29	90	0.2	120	27.3	535	12.2	1.83	5.86	71
Si10	543755	6596077	0.01	0.45	96.9	0.2	140	113	713	12.5	4.66	26.9	76
Si11	543778	6596142	0.005	0.11	72.5	0.2	50	11.7	149	10.5	1.22	2.5	50
Si12	543790	6596195	0.04	0.37	470	0.2	100	52.5	231	10.1	3.88	11.35	62
Si13	543799	6596248	0.015	0.12	150	0.2	70	24.3	366	11.2	1.92	11.9	47
Si14	543819	6596282	0.006	0.07	107.5	0.2	80	15	199	9.8	1.33	3.8	60
Si15	543846	6596314	0.005	0.14	43.9	0.2	140	12.7	1250	10.1	0.93	2.59	78
Si16	543879	6596348	0.005	0.24	66.5	0.2	90	13.3	282	10.5	1.31	3.53	71
Si17	543902	6596400	0.005	0.29	41	0.2	60	8.5	102	8.3	1.01	2.42	44
Si18	543926	6596431	0.005	0.11	81.1	0.2	70	11.7	155	9.4	1.32	2.69	52
Si19	543944	6596474	0.005	0.1	121.5	0.2	130	11.5	264	7.6	1.56	3.39	58
Si20	543977	6596512	0.01	0.2	113.5	0.2	140	32.5	308	9.5	3.29	7.43	102

APPENDIX E

ANALYSIS CERTIFICATES & PROCEDURES

Happy Sullivan 2007 Project - List of Standard & Blanks

SAMPLE ID	ALS Chemex Certificate #	CDN Reference #	CDN Analysis	Chemex Au (ppm)
47725	VA07003868	CDN-BL-3	0.01	0.01
47351	VA07003868	CDN-BL-3	0.01	0.01
47364	VA07003868	CDN-GS-15	15.31	15.25
47375	VA07003868	CDN-BL2	0.01	<0.01
47424	VA07003868	CDN-BL2	0.01	<0.01
47433	VA07003868	CDN-GS-15	15.31	15.25
47888	VA07003868	CDN-GS-2B	2.03	2.11
48075	VA07003868	CDN-BL2	0.01	<0.01

CDN Resource Laboratories Ltd.

10945-B River Road, Delta, B.C., V4C 2R8, Ph: 604-540-2233, Fax: 604-588-3960

STANDARD REFERENCE MATERIAL: CDN-BL2

Recommended values:

Gold concentration: ***< 0.01 g/t***
Platinum concentration: ***< 0.01 g/t***
Palladium concentration: ***< 0.01 g/t***

PREPARED BY: CDN Resource Laboratories Ltd.
CERTIFIED BY: Duncan Sanderson, B.Sc., Licensed Assayer of British Columbia
INDEPENDENT GEOCHEMIST: Dr. Barry Smee., Ph. D., P. Geo.
DATE OF CERTIFICATION: March 15, 2006

ORIGIN OF REFERENCE MATERIAL:

Standard CDN-BL2 was prepared using a blank granitic material.

METHOD OF PREPARATION:

The granitic material was dried, crushed, pulverized and then passed through a 200 mesh screen. The +200 material was discarded. The -200 (<75 micron) material was mixed for 5 days in a rotary mixer. Splits were taken and sent to 6 commercial laboratories for round robin assaying. Round robin results are displayed below:

APPROXIMATE CHEMICAL COMPOSITION:

	Percent			Percent
SiO2	69.6		Na2O	4.5
Al2O3	14.0		MgO	0.9
Fe2O3	4.7		K2O	1.9
CaO	2.4		TiO2	0.4
MnO	0.1		LOI	0.9

Statistical Procedures:

There was no statistical analysis performed on the data. All analytical results were less than the recommended values.

Participating Laboratories: (not in same order as table of assays)

Acme Analytical Laboratories Ltd.
Assayers Canada Ltd., Vancouver
ALS Chemex Laboratories, North Vancouver
International Plasma Laboratories Ltd., Vancouver
Teck Cominco - Global Discovery Laboratory, Vancouver
TSL Laboratories, Saskatoon

Assay Procedure: assays were fire assay, AA or ICP finish on 30g samples.

STANDARD REFERENCE MATERIAL: CDN-BL2

	Lab. 1	Lab. 2	Lab. 3	Lab. 4	Lab. 5	Lab. 6
Sample	Au ppb	Au ppb	Au ppb	Au ppb	Au ppb	Au ppb
CDN-BL2-1	< 10	< 10	<2	2	< 5	5
CDN-BL2-2	< 10	< 10	<2	1	< 5	6
CDN-BL2-3	< 10	< 10	<2	1	< 5	4
CDN-BL2-4	< 10	< 10	<2	1	< 5	5
CDN-BL2-5	< 10	< 10	<2	1	< 5	5
CDN-BL2-6	< 10	< 10	<2	1	< 5	3
CDN-BL2-7	< 10	< 10	<2	2	< 5	4
CDN-BL2-8	< 10	< 10	<2	1	< 5	4
CDN-BL2-9	< 10	< 10	<2	1	< 5	7
CDN-BL2-10	< 10	< 10	<2	1	< 5	4
	Pt ppb	Pt ppb	Pt ppb	Pt ppb	Pt ppb	Pt ppb
CDN-BL2-1	< 10	< 10	4	< 5	< 10	< 5
CDN-BL2-2	< 10	< 10	3	< 5	< 10	< 5
CDN-BL2-3	< 10	< 10	< 2	< 5	< 10	< 5
CDN-BL2-4	< 10	< 10	< 2	< 5	< 10	< 5
CDN-BL2-5	< 10	10	3	< 5	< 10	< 5
CDN-BL2-6	< 10	< 10	< 2	< 5	< 10	< 5
CDN-BL2-7	< 10	< 10	3	< 5	< 10	< 5
CDN-BL2-8	< 10	< 10	< 2	< 5	< 10	< 5
CDN-BL2-9	< 10	< 10	< 2	< 5	< 10	< 5
CDN-BL2-10	< 10	< 10	2	7	< 10	< 5
	Pd ppb	Pd ppb	Pd ppb	Pd ppb	Pd ppb	Pd ppb
CDN-BL2-1	< 10	< 10	2	1	< 5	< 2
CDN-BL2-2	< 10	< 10	5	< 1	< 5	< 2
CDN-BL2-3	< 10	< 10	<2	1	< 5	< 2
CDN-BL2-4	< 10	10	<2	< 1	< 5	< 2
CDN-BL2-5	< 10	< 10	2	< 1	< 5	< 2
CDN-BL2-6	< 10	< 10	8	< 1	< 5	< 2
CDN-BL2-7	< 10	< 10	3	1	< 5	< 2
CDN-BL2-8	< 10	< 10	5	< 1	< 5	< 2
CDN-BL2-9	< 10	< 10	2	1	< 5	< 2
CDN-BL2-10	< 10	< 10	2	< 1	< 5	< 2

Certified by Duncan Sanderson

Duncan Sanderson, Licensed Assayer of British Columbia

Geochemist BW Smee

Barry Smee, Ph.D., P. Geo.

CDN Resource Laboratories Ltd.

10945-B River Road, Delta, B.C., V4C 2R8, 604-596-2245, Fax: 604-588-3960

GOLD ORE REFERENCE STANDARD: CDN-GS-P3

Recommended value and "Between Lab" Two Standard Deviations

Gold concentration: 0.30 ± 0.04 g/t

PREPARED BY: CDN Resource Laboratories Ltd.
CERTIFIED BY: Duncan Sanderson, B.Sc., Licensed Assayer of British Columbia
INDEPENDENT GEOCHEMIST: Dr. Barry Smee., Ph.D., P. Geo.

ORIGIN OF REFERENCE MATERIAL:

Standard CDN-GS-P3 was prepared using reject ore material supplied by the Hunter Dickinson Group from the Specogna deposit. The Specogna deposit is a low sulphidation epithermal gold deposit of Miocene age and is localized along the Sandspit fault. Gold bearing breccia, vein and stockwork development occurs along the fault and subsidiary dilational structures extending upward into a thick hanging wall sequence of clastic sediments. Mineralization at Specogna is dominated by pyrite and marcasite which typically comprise 1 to 4% of the host rocks. Gold and silver occur as electrum

METHOD OF PREPARATION:

Reject ore material was dried, crushed, pulverized and then passed through a 200 mesh screen. The +200 material was discarded. The -200 material was mixed for 4 days in a rotary mixer. After internal assaying to test for homogeneity, splits were taken and sent to 9 commercial laboratories for round robin assaying. Round robin results are displayed below:

	Lab. 1	Lab. 2	Lab. 3	Lab. 4	Lab. 5	Lab. 6	Lab. 7	Lab. 8	Lab. 9
	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t
GSP3-1	0.35	0.26	0.34	0.32	0.28	0.31	0.33	0.30	0.32
GSP3-2	0.33	0.31	0.33	0.30	0.29	0.31	0.31	0.28	0.29
GSP3-3	0.35	0.31	0.34	0.27	0.29	0.31	0.32	0.30	0.29
GSP3-4	0.37	0.36	0.33	0.33	0.29	0.31	0.30	0.29	0.27
GSP3-5	0.34	0.29	0.30	0.29	0.28	0.30	0.31	0.29	0.29
GSP3-6	0.33	0.29	0.31	0.31	0.28	0.30	0.29	0.28	0.28
GSP3-7	0.33	0.35	0.31	0.29	0.28	0.30	0.31	0.29	0.30
GSP3-8	0.35	0.29	0.31	0.32	0.29	0.30	0.29	0.29	0.31
GSP3-9	0.36	0.29	0.31	0.31	0.30	0.32	0.32	0.28	0.28
GSP3-10	0.35	0.33	0.30	0.32	0.31	0.31	0.30	0.30	0.29
GSP3-11	0.33	0.32	0.31	0.31	0.28	0.31	0.31	0.28	0.29
GSP3-12	0.33	0.31	0.32	0.29	0.30	0.32	0.31	0.28	0.29
GSP3-13	0.36	0.27	0.30	0.29	0.30	0.30	0.30	0.28	0.32
GSP3-14	0.33	0.28	0.32	0.28	0.28	0.29	0.32	0.28	0.29
GSP3-15	0.37	0.39	0.34	0.30	0.28	0.31	0.31	0.29	0.30
Mean	0.35	0.31	0.32	0.30	0.29	0.31	0.31	0.29	0.29
Std. Dev.	0.015	0.035	0.014	0.016	0.010	0.007	0.013	0.008	0.014
%RSD	4.36	11.44	4.48	5.12	3.45	2.33	4.06	2.88	4.80

Assay Procedure: ***all assays were fire assay, AA or ICP finish on 30g samples***

GOLD ORE REFERENCE STANDARD: CDN-GS-P3

APPROXIMATE CHEMICAL COMPOSITION:

	Percent			Percent
SiO2	59.0		Na2O	3.5
Al2O3	16.4		MgO	2.8
Fe2O3	8.8		K2O	1.5
CaO	5.6		TiO2	0.6
MnO	0.2		LOI	0.8

Statistical Procedures:

The mean and standard deviation for all data was calculated. Outliers were defined as samples beyond the mean ± 2 Standard Deviations from all data. These outliers were removed from the data and a new mean and standard deviation was determined. This method is different from that used by Government agencies in that the actual "between-laboratory" standard deviation is used in the calculations. This produces upper and lower limits that reflect actual individual analyses rather than a grouped set of analyses. The limits can therefore be used to monitor accuracy from individual analyses, unlike the Certified Limits published on other standards.

Participating Laboratories:
(not in same order as table of assays)

Acme Analytical Laboratories Ltd.
ALS Chemex (Vancouver)
Assayers Canada Ltd., Vancouver
EcoTech Laboratories Ltd., Kamloops
Geolaboratory, Geological Survey of Finland
International Plasma Laboratories Ltd., Vancouver
Loring Laboratories Ltd., Calgary
SGS-XRAL Laboratory, Toronto
TSL Laboratories Ltd., Saskatoon

Legal Notice:

This certificate and the reference material described in it have been prepared with due care and attention. However CDN Resource Laboratories Ltd. nor Barry Smee accept any liability for any decisions or actions taken following the use of the reference material. Our liability is limited solely to the cost of the reference material.

Certified by Duncan Sanderson

Duncan Sanderson
Licensed Assayer of British Columbia

Geochemist B W Smee

Barry Smee, Ph.D., P. Geo.

CDN Resource Laboratories Ltd.

10945-B River Road, Delta, B.C., Canada, V4C 2R8, 604-540-2233, Fax: 604-540-2237 (www.cdnlabs.com)

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GOLD ORE REFERENCE STANDARD: CDN-GS-2B

Recommended value and the "Between Laboratory" two standard deviations

Gold concentration: 2.03 ± 0.12 g/t

PREPARED BY: CDN Resource Laboratories Ltd.
CERTIFIED BY: Duncan Sanderson, B.Sc., Licensed Assayer of British Columbia
INDEPENDENT GEOCHEMIST: Dr. Barry Smee., Ph.D., P. Geo.
DATE OF CERTIFICATION: August 4, 2006

ORIGIN OF REFERENCE MATERIAL:

Standard CDN-GS-2B was prepared using reject ore material supplied by the Hunter Dickinson Group from the Specogna deposit. The Specogna deposit is a low sulphidation epithermal gold deposit of Miocene age and is localized along the Sandspit fault. Gold bearing breccia, vein and stockwork development occurs along the fault and subsidiary dilational structures extending upward into a thick hanging wall sequence of clastic sediments. Mineralization at Specogna is dominated by pyrite and marcasite which typically comprise 1 to 4% of the host rocks. Gold and silver occur as electrum.

METHOD OF PREPARATION:

Reject ore material was dried, crushed, pulverized and then passed through a 200 mesh screen. The +200 material was discarded. The -200 material was mixed for 6 days in a double-cone blender. Splits were taken and sent to 12 commercial laboratories for round robin assaying. Round robin results are displayed below:

	Lab 1	Lab 2	Lab 3	Lab 4	Lab 5	Lab 6	Lab 7	Lab 8	Lab 9	Lab 10	Lab 11	Lab 12
	Au gpt	Au gpt	Au gpt	Au gpt	Au gpt	Au gpt	Au gpt	Au gpt	Au gpt	Au gpt	Au gpt	Au gpt
GS2B - 1	2.04	2.06	2.04	2.12	1.99	2.02	2.00	1.88	2.07	2.00	1.92	2.07
GS2B - 2	2.01	2.00	1.92	2.03	2.09	2.09	1.94	2.02	1.94	2.05	2.04	2.03
GS2B - 3	2.16	1.97	1.93	2.01	2.09	2.06	1.97	2.20	1.93	2.09	1.96	2.03
GS2B - 4	2.21	2.01	2.03	2.14	1.94	1.99	2.02	2.20	2.00	2.03	1.97	2.04
GS2B - 5	1.97	2.00	2.00	2.02	1.94	1.95	2.00	2.32	2.09	2.05	1.99	2.05
GS2B - 6	2.00	2.04	2.04	2.09	1.95	2.04	1.88	2.25	1.97	2.10	2.09	2.05
GS2B - 7	1.99	2.06	2.02	2.00	1.98	2.17	2.19	2.10	2.08	2.00	2.08	2.13
GS2B - 8	2.03	2.06	1.99	2.15	2.02	1.94	1.97	2.10	2.09	2.07	2.06	2.14
GS2B - 9	1.98	2.02	1.94	2.00	2.00	2.02	2.02	2.17	2.10	2.05	2.01	2.04
GS2B - 10	2.02	2.06	2.08	2.12	2.05	2.03	2.03	2.12	2.04	2.10	2.22	2.12
Mean	2.04	2.03	2.00	2.07	2.01	2.03	2.00	2.14	2.03	2.05	2.03	2.07
Std. Dev.	0.085	0.032	0.056	0.062	0.060	0.071	0.085	0.090	0.069	0.033	0.080	0.046
% RSD	4.15	1.60	2.78	3.02	2.99	3.50	4.24	4.23	3.41	1.62	3.93	2.21

Assay Procedure: all assays were fire assay, ICP finish on 30g samples

APPROXIMATE CHEMICAL COMPOSITION:

	Percent			Percent
SiO2	73.1		Na2O	0.3
Al2O3	8.2		MgO	2.9
Fe2O3	7.4		K2O	2.9
CaO	0.6		TiO2	0.5
MnO	0.1		LOI	3.8
S	2.7			

GOLD ORE REFERENCE STANDARD: CDN-GS-2B

Statistical Procedures:

The mean and standard deviation for all data was calculated. Outliers were defined as samples beyond the mean ± 2 Standard Deviations from all data. These outliers were removed from the data and a new mean and standard deviation was determined. This method is different from that used by Government agencies in that the actual "between-laboratory" standard deviation is used in the calculations. This produces upper and lower limits that reflect actual individual analyses rather than a grouped set of analyses. The limits can therefore be used to monitor accuracy from individual analyses, unlike the Certified Limits published on other standards.

Participating Laboratories:
(not in same order as table of assays)

Acme Analytical Laboratories Ltd., Vancouver, Canada
Activation Laboratories, Ontario, Canada
Actlabs, Coquimbo, Chile
ALS Chemex, North Vancouver, Canada
Assayers Canada Ltd., Vancouver, Canada
Alex Stewart (Assayers) Argentina) Ltd.
Ecotech Laboratory, Kamloops, Canada
Genalysis Lab.Services, Australia
International Plasma Laboratories Ltd., Richmond, Canada
Omac Laboratory, Ireland
Teck Cominco, Global Discovery Laboratory, Vancouver, Canada
TSL Laboratories Ltd., Saskatoon, Canada

Legal Notice:

This certificate and the reference material described in it have been prepared with due care and attention. However CDN Resource Laboratories Ltd. nor Barry Smee accept any liability for any decisions or actions taken following the use of the reference material. Our liability is limited solely to the cost of the reference material.

Certified by

Duncan Sanderson
Licensed Assayer of British Columbia

Geochemist

Barry Smee, Ph.D., P. Geo.

-DN Resource Laboratories Ltd.
10945-B River Road, Delta, B.C., V4C 2R8, 604 596-2245, Fax: 604 588-3960

GOLD ORE REFERENCE STANDARD: CDN-GS-15

Recommended value and 95% Confidence Interval (±2SD)
Gold concentration: 15.31 ± 0.58 g/t

:PARED BY: CDN Resource Laboratories Ltd.
RTIFIED BY: Duncan Sanderson, B.Sc., Licensed Assayer of British Columbia
EPENDENT GEOCHEMIST: Dr. Barry Smee., Ph.D., P. Geo.

THOD OF PREPARATION:

ct ore material was dried, crushed, pulverized and then passed through a 200 mesh screen. +200 material was discarded. The -200 material was mixed for 4 days in a rotary mixer. r internal assaying to test for homogeneity, splits were taken and sent to 7 commercial ratories for round robin assaying. Round robin results are displayed below:

		Lab. 1	Lab. 2	Lab. 3	Lab. 4	Lab. 5	Lab. 6	Lab. 7
		Au (g/t)	Au (g/t)	Au (g/t)	Au (g/t)	Au (g/t)	Au (g/t)	Au (g/t)
5-1		15.33	15.85	15.57	15.15	15.23	15.28	15.20
5-2		15.00	15.00	15.53	14.75	15.12	15.68	15.50
5-3		15.30	15.80	15.70	14.75	15.12	15.72	15.20
5-4		14.93	15.30	15.74	14.65	15.19	15.48	15.70
5-5		15.53	15.50	15.77	15.15	15.26	15.26	15.10
5-6		15.00	15.30	15.74	15.15	15.16	15.24	15.10
5-7		15.10	15.70	15.53	14.85	15.40	15.54	15.50
5-8		15.03	15.40	15.74	14.55	15.12	15.50	15.20
5-9		14.37	15.50	15.63	14.90	15.50	15.34	15.20
5-10		15.53	15.05	15.87	15.40	14.64	15.48	15.20
5-11		14.57	15.40	16.01	14.90	15.09	15.14	15.40
5-12		14.60	15.40	15.43	15.00	15.43	15.48	15.00
n		15.02	15.43	15.69	14.93	15.19	15.43	15.28
Dev.		0.371	0.263	0.161	0.246	0.220	0.179	0.205
SD		2.47	1.71	1.03	1.65	1.45	1.16	1.34

y Procedure: all assays were fire assay, gravimetric finish on 30g samples (with the exception of Lab. 7 which reported with an AA finish).

ROXIMATE CHEMICAL COMPOSITION:

	Percent			Percent
SiO2	58.6		Na2O	3.5
Al2O3	16.6		MgO	2.8
Fe2O3	8.8		K2O	1.6
CaO	5.9		TiO2	0.6
MnO	0.2		LOI	0.7

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
212 Brooksbank Avenue
North Vancouver BC V7J 2C1
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: CHRISTOPHER JAMES GOLD CORP.
410 - 1111 MELVILLE ST.
VANCOUVER BC V6E 3V6

Finalized Date: 4-SEP-2007
This copy reported on 13-NOV-2007
Account: CHJAGO

CERTIFICATE VA07083868

Project: HAPPY SULLIVAN 2007

P.O. No.:

This report is for 101 Rock samples submitted to our lab in Vancouver, BC, Canada on 2-AUG-2007.

The following have access to data associated with this certificate:

MAX BAKER DAVE TRABERT	MARK MALFAIR	MICHAEL RENNING

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-32	Pulverize 1000g to 85% < 75 um
LOG-24	Pulp Login - Rcd w/o Barcode
BAG-01	Bulk Master for Storage
CRU-QC	Crushing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
ME-ICP61	33 element four acid ICP-AES	ICP-AES

To: **CHRISTOPHER JAMES GOLD CORP.**
ATTN: MICHAEL RENNING
410 - 1111 MELVILLE ST.
VANCOUVER BC V6E 3V6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Lawrence Ng, Laboratory Manager - Vancouver

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To: CHRISTOPHER JAMES GOLD CORP.
410 - 1111 MELVILLE ST.
VANCOUVER BC V6E 3V6

Finalized Date: 4-SEP-2007
Account: CHJAGO

Project: HAPPY SULLIVAN 2007

CERTIFICATE OF ANALYSIS VA07083868

Sample Description	Method	WEI-21	Au-AA26	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
	LOR	0.02	0.01	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10
47717		1.70	<0.01	<0.5	8.07	<5	940	1.0	<2	2.92	<0.5	17	83	67	4.59	10
47718		4.62	0.79	2.3	2.84	464	340	0.9	<2	0.11	<0.5	7	53	39	2.27	10
47719		4.56	0.45	3.0	1.77	556	280	0.7	<2	0.05	<0.5	2	33	22	1.32	<10
47720		2.92	0.22	2.0	7.74	739	540	1.2	<2	0.25	<0.5	15	191	72	4.36	20
47721		3.00	0.05	0.6	8.46	310	400	1.4	<2	0.34	<0.5	22	196	104	5.65	20
47722		3.08	0.14	2.6	6.96	599	420	1.1	<2	0.24	<0.5	10	137	74	3.99	20
47723		3.12	1.03	3.0	1.70	1720	220	0.6	<2	0.07	<0.5	3	47	15	1.36	<10
47724		2.68	0.34	1.3	2.29	718	210	0.5	<2	0.08	<0.5	4	48	27	1.63	10
47725		0.08	0.01	<0.5	7.27	<5	540	0.8	<2	2.64	<0.5	9	47	40	4.13	10
47726		3.38	0.14	1.7	5.45	539	300	0.9	<2	0.99	<0.5	13	105	76	3.88	20
47727		3.86	0.20	1.4	1.65	247	180	0.5	<2	0.06	<0.5	3	38	16	1.42	<10
47728		2.94	0.17	0.6	0.71	98	160	<0.5	<2	0.03	<0.5	1	53	4	0.77	<10
47729		4.04	0.62	0.9	0.86	254	180	<0.5	2	0.04	<0.5	1	39	7	1.09	<10
47730		2.66	0.19	0.6	0.78	211	160	0.5	<2	0.03	<0.5	1	35	5	0.87	<10
47731		5.18	0.16	1.5	2.47	317	610	0.6	<2	0.94	<0.5	6	67	14	2.07	10
47351		0.06	0.01	<0.5	7.21	<5	540	0.8	<2	2.63	<0.5	9	44	40	4.12	10
47352		4.70	0.11	1.2	1.59	237	200	0.5	<2	0.06	<0.5	8	37	16	1.57	<10
47353		3.46	0.12	2.3	6.62	1160	440	1.2	<2	0.15	<0.5	8	93	65	3.24	20
47354		4.04	0.12	2.0	5.04	637	380	0.9	<2	0.23	<0.5	9	77	48	2.09	10
47355		6.80	0.16	1.1	2.88	274	230	0.7	<2	0.09	<0.5	12	50	25	2.23	10
47356		8.68	0.22	2.3	2.65	272	240	0.6	<2	0.17	<0.5	13	49	30	2.25	10
47357		4.52	0.05	1.3	2.09	77	260	0.6	<2	0.20	<0.5	7	45	18	1.82	10
47358		3.16	0.13	1.6	7.47	306	470	1.1	<2	0.30	<0.5	15	134	72	3.53	20
47359		3.18	0.09	1.5	8.08	302	560	1.3	<2	0.25	<0.5	14	114	92	4.34	20
47360		3.58	0.11	0.8	8.12	445	520	1.1	<2	0.30	<0.5	16	130	69	4.51	20
47361		4.00	0.18	1.0	7.20	691	450	1.1	<2	0.24	<0.5	11	115	57	4.27	20
47362		3.86	0.34	1.0	5.93	490	360	1.0	<2	0.20	<0.5	9	89	53	3.94	20
47363		3.50	0.11	1.1	6.21	157	390	0.9	<2	0.17	<0.5	11	91	61	4.37	20
47364		0.12	15.25	1.3	8.47	9	570	0.7	<2	4.00	<0.5	28	1020	128	5.80	20
47365		3.22	0.25	1.4	6.12	1280	430	1.0	<2	0.14	<0.5	9	101	51	3.38	20
47366		3.44	0.12	0.9	6.88	288	470	1.0	<2	0.18	<0.5	11	101	69	3.91	20
47367		3.16	0.27	1.3	4.78	290	350	0.8	<2	0.30	<0.5	8	71	38	3.50	10
47368		4.08	0.15	1.0	5.45	463	340	1.0	<2	0.32	<0.5	9	81	41	3.51	20
47369		3.38	0.02	<0.5	8.50	10	1430	1.1	<2	1.10	<0.5	22	174	117	5.55	20
47370		2.92	0.02	<0.5	8.67	<5	1290	1.1	<2	1.60	<0.5	23	165	122	5.84	20
47371		4.24	0.05	1.0	8.40	274	420	0.9	<2	5.30	<0.5	14	84	112	4.86	20
47372		3.04	0.07	0.7	7.84	379	400	0.8	<2	6.11	<0.5	14	84	132	5.40	20
47373		2.92	0.04	0.9	6.99	226	360	0.7	<2	5.62	<0.5	14	74	71	4.23	20
47374		2.98	0.04	<0.5	6.73	265	340	0.7	<2	4.58	<0.5	15	77	95	3.76	20
47375		0.08	<0.01	<0.5	7.48	12	570	0.8	<2	2.74	<0.5	10	50	43	4.31	20

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410 - 1111 MELVILLE ST.
VANCOUVER BC V6E 3V6

Finalized Date: 4-SEP-2007
Account: CHJAGO

Project: HAPPY SULLIVAN 2007

CERTIFICATE OF ANALYSIS VA07083868

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti
	Units	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
47717		2.10	10	1.65	568	<1	2.21	28	730	5	0.76	<5	18	490	<20	0.38
47718		0.86	<10	0.15	195	3	0.03	20	310	3	0.05	53	6	45	<20	0.14
47719		0.51	<10	0.08	76	3	0.02	7	120	5	0.04	71	4	48	<20	0.08
47720		2.44	10	1.63	377	<1	0.03	44	1040	8	0.03	39	17	37	<20	0.41
47721		2.25	10	3.02	687	<1	0.02	82	1230	6	0.02	28	22	33	<20	0.45
47722		2.00	10	1.90	269	11	0.02	45	950	5	0.03	39	16	38	<20	0.37
47723		0.48	<10	0.11	73	3	0.02	8	180	3	0.10	81	3	41	<20	0.08
47724		0.69	<10	0.15	99	1	0.01	14	260	3	0.05	61	5	32	<20	0.11
47725		0.92	10	1.24	799	3	2.66	26	680	6	0.04	<5	14	290	<20	0.35
47726		1.47	10	0.65	1075	2	0.02	57	730	4	0.03	24	12	125	<20	0.27
47727		0.45	<10	0.09	91	4	0.01	11	140	3	0.02	53	3	37	<20	0.07
47728		0.14	<10	0.03	50	1	0.01	4	30	<2	0.01	32	1	35	<20	0.03
47729		0.17	<10	0.03	69	5	0.02	3	60	<2	0.02	32	1	41	<20	0.03
47730		0.16	<10	0.03	51	4	0.01	4	50	<2	0.01	38	1	35	<20	0.03
47731		0.40	<10	0.45	246	3	0.40	16	390	2	0.03	44	6	163	<20	0.19
47351		0.93	10	1.24	791	3	2.63	27	650	<2	0.04	<5	14	286	<20	0.35
47352		0.44	<10	0.30	97	8	0.03	8	170	2	0.16	45	3	30	<20	0.07
47353		2.40	10	0.62	139	3	0.03	14	710	8	0.49	61	15	39	<20	0.34
47354		1.70	10	0.45	174	2	0.03	11	570	6	0.17	33	11	46	<20	0.27
47355		0.82	<10	0.60	168	8	0.02	14	330	4	0.09	40	7	28	<20	0.14
47356		0.83	<10	0.48	157	24	0.02	12	350	5	0.10	46	6	55	<20	0.13
47357		0.59	<10	0.46	146	20	0.01	11	260	5	0.04	41	5	43	<20	0.10
47358		2.59	10	0.90	283	3	0.03	18	1150	8	0.06	34	16	51	<20	0.42
47359		2.85	10	1.10	256	2	0.03	23	970	6	0.10	31	19	48	<20	0.44
47360		2.70	10	1.42	363	<1	0.03	29	1160	5	0.08	25	19	62	<20	0.44
47361		2.34	10	1.26	323	3	0.03	26	980	3	0.18	30	17	50	<20	0.38
47362		1.81	10	1.45	284	5	0.02	20	760	3	0.08	37	13	38	<20	0.31
47363		1.70	10	1.49	308	2	0.04	23	770	5	0.03	35	14	32	<20	0.33
47364		1.15	10	1.58	1145	18	2.37	972	620	38	0.02	<5	16	494	<20	0.31
47365		2.01	10	0.93	181	3	0.03	15	660	7	0.22	48	14	35	<20	0.33
47366		2.35	10	1.14	277	1	0.03	24	890	5	0.13	30	15	38	<20	0.36
47367		1.43	10	1.06	298	4	0.02	19	770	6	0.14	35	11	49	<20	0.23
47368		1.54	10	1.43	414	4	0.02	20	660	3	0.04	37	12	49	<20	0.28
47369		2.25	10	2.77	643	<1	2.47	72	1210	12	0.15	6	20	458	<20	0.45
47370		2.14	10	3.03	729	<1	2.58	79	1330	13	0.07	<5	20	464	<20	0.46
47371		3.48	10	0.62	613	1	0.08	39	750	5	0.52	28	19	141	<20	0.43
47372		3.07	10	0.60	579	1	0.08	36	670	7	0.74	27	19	160	<20	0.41
47373		2.72	10	0.47	632	2	0.06	35	510	6	0.45	21	17	144	<20	0.34
47374		2.88	<10	0.36	619	5	0.06	37	550	14	0.35	21	16	89	<20	0.31
47375		0.97	10	1.31	833	4	2.80	26	700	7	0.05	<5	15	301	<20	0.37

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CERTIFICATE OF ANALYSIS VA07083868

Sample Description	Method Analyte Units LOR	ME-ICP61 Tl ppm 10	ME-ICP61 U ppm 10	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2
47717		<10	<10	156	<10	77
47718		<10	<10	62	<10	37
47719		<10	<10	39	<10	13
47720		<10	<10	172	<10	64
47721		<10	<10	183	<10	104
47722		<10	<10	158	<10	58
47723		<10	<10	35	<10	12
47724		<10	<10	46	<10	19
47725		<10	<10	106	<10	54
47726		10	<10	115	<10	64
47727		<10	<10	39	<10	13
47728		<10	<10	19	<10	<2
47729		<10	<10	21	<10	3
47730		<10	<10	19	<10	2
47731		<10	<10	54	<10	21
47351		10	10	105	<10	54
47352		<10	<10	34	<10	10
47353		<10	<10	149	<10	45
47354		<10	<10	106	<10	33
47355		<10	<10	62	<10	27
47356		<10	<10	70	<10	23
47357		<10	<10	59	<10	22
47358		<10	<10	181	<10	62
47359		10	<10	179	<10	74
47360		<10	<10	178	<10	70
47361		<10	<10	154	<10	58
47362		<10	<10	129	<10	48
47363		<10	<10	137	<10	53
47364		<10	10	132	<10	65
47365		10	<10	133	<10	37
47366		<10	<10	150	<10	55
47367		<10	<10	103	<10	62
47368		<10	<10	116	<10	48
47369		<10	10	186	<10	114
47370		<10	<10	191	<10	122
47371		<10	<10	185	<10	82
47372		10	<10	176	<10	79
47373		<10	<10	148	10	72
47374		<10	<10	146	<10	75
47375		10	10	108	<10	58

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CERTIFICATE OF ANALYSIS VA07083868

Sample Description	Method	WEI-21	Au-AA26	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
	LOR	0.02	0.01	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10
47376		3.00	0.22	5.4	2.65	487	170	<0.5	<2	1.87	1.7	6	40	31	2.47	10
47377		3.90	0.22	5.6	4.44	1140	360	0.5	<2	1.80	1.7	7	52	45	3.10	10
47378		2.12	0.07	<0.5	6.97	410	400	1.0	<2	0.12	<0.5	25	88	68	5.76	20
47379		3.22	<0.01	0.5	7.15	30	680	0.8	<2	3.23	<0.5	13	103	35	4.31	20
47380		2.92	0.05	<0.5	7.41	39	660	0.8	<2	3.10	<0.5	15	120	29	4.47	20
47381		3.44	0.01	<0.5	8.68	77	640	1.2	<2	2.74	<0.5	15	79	106	4.52	20
47382		1.86	0.01	<0.5	8.37	131	460	1.1	<2	2.36	<0.5	17	98	107	4.89	20
47383		2.54	0.15	1.2	6.19	718	380	0.8	<2	0.43	<0.5	14	74	71	4.86	20
47384		3.74	0.04	0.8	8.75	299	510	1.1	<2	0.16	0.6	26	104	98	5.90	20
47423		5.06	0.02	0.7	6.88	109	890	1.1	<2	0.88	<0.5	10	94	52	4.05	10
47424		0.14	<0.01	<0.5	7.24	<5	840	0.9	<2	1.70	<0.5	3	17	36	3.23	10
47425		4.00	0.04	1.2	6.93	254	870	1.2	<2	0.78	<0.5	7	78	50	3.76	20
47426		7.24	0.04	0.9	3.00	332	230	0.6	<2	0.25	<0.5	5	47	21	2.37	10
47427		4.62	0.19	3.7	3.80	478	480	0.7	<2	0.14	<0.5	5	69	34	2.89	10
47428		3.88	0.24	3.3	6.19	704	690	1.0	<2	0.20	<0.5	11	87	72	3.35	10
47429		4.30	0.39	4.1	5.25	1085	560	0.8	<2	0.20	<0.5	7	81	90	2.76	10
47430		3.90	0.33	5.6	7.49	878	680	1.0	<2	0.26	<0.5	7	115	76	4.58	20
47431		4.22	0.27	3.0	4.53	663	450	0.8	<2	0.16	<0.5	5	72	48	3.19	10
47432		5.58	0.07	1.6	7.15	258	680	1.0	<2	0.34	<0.5	10	111	88	3.63	20
47433		0.12	15.25	0.5	8.24	6	560	0.7	<2	3.97	<0.5	28	1040	127	5.72	20
47434		5.24	0.08	1.0	6.40	334	550	1.0	<2	0.23	<0.5	8	88	75	3.11	20
47435		4.74	0.48	3.1	3.94	837	420	0.8	<2	0.15	<0.5	7	66	42	2.96	10
47436		4.16	0.27	2.5	4.53	1315	450	0.8	<2	0.98	<0.5	6	68	40	2.58	10
47437		4.52	0.13	1.8	4.80	469	380	0.8	<2	0.13	<0.5	1	73	32	2.78	10
47438		4.10	0.23	3.2	5.48	760	380	0.9	<2	0.11	<0.5	4	84	47	2.35	10
47439		5.38	0.16	3.7	5.59	1575	400	0.8	<2	0.11	<0.5	5	87	40	2.92	10
47440		3.52	0.99	1.0	2.34	4820	230	0.7	<2	0.19	<0.5	2	15	9	3.00	10
47441		3.08	1.69	5.7	2.44	6060	300	0.8	<2	0.16	<0.5	3	14	20	2.66	10
47442		4.46	0.42	3.6	3.37	2220	380	0.7	24	0.13	<0.5	5	37	32	2.79	10
47443		2.80	0.79	3.4	2.47	3190	230	0.6	<2	0.43	1.4	8	37	38	4.72	10
47444		3.84	0.40	2.2	3.68	2550	290	0.7	<2	1.91	2.8	10	42	42	5.83	10
47445		3.22	0.30	2.4	6.02	1260	360	0.7	<2	3.37	3.5	10	63	76	4.77	10
47446		3.04	0.02	0.6	8.05	229	460	0.8	<2	6.01	2.1	15	84	122	4.57	20
47447		3.94	0.22	0.5	4.68	965	250	0.5	<2	4.36	0.9	8	62	50	3.52	10
47448		3.20	0.09	0.9	8.13	501	380	0.9	<2	3.09	<0.5	21	91	143	5.33	20
47449		4.06	0.03	0.5	8.49	202	410	1.0	<2	3.29	<0.5	23	92	127	5.09	20
47886		0.88	0.30	1.4	5.90	706	880	1.0	<2	0.42	<0.5	6	52	67	3.38	10
47887		2.12	0.28	0.9	1.35	126	200	0.5	<2	0.06	<0.5	2	31	12	1.18	<10
47888		0.12	2.11	4.8	4.52	317	440	0.7	2	0.45	1.2	11	37	570	5.07	10
47889		1.98	0.21	1.7	2.37	203	300	0.8	<2	0.12	<0.5	6	43	30	2.16	10

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	Analyte	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti
	Units	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
47376		0.91	<10	0.33	334	4	0.02	19	210	9	0.24	46	7	101	<20	0.12
47377		1.65	<10	0.25	438	6	0.03	23	340	10	0.32	61	11	67	<20	0.21
47378		2.55	10	0.29	910	5	0.04	46	700	7	0.05	46	21	26	<20	0.39
47379		1.18	10	1.33	748	<1	2.43	22	630	6	0.05	<5	18	522	<20	0.33
47380		1.39	10	1.27	790	<1	2.77	23	800	8	0.05	9	19	609	<20	0.35
47381		3.02	10	0.82	852	<1	0.39	43	900	17	0.58	27	19	143	<20	0.42
47382		3.27	10	0.44	1005	6	0.06	51	940	10	0.17	27	20	83	<20	0.45
47383		2.30	10	0.29	607	4	0.04	30	720	13	0.09	53	16	29	<20	0.33
47384		3.31	10	0.37	1140	5	0.05	54	1020	8	0.04	42	25	30	<20	0.46
47423		1.75	10	1.27	532	<1	1.42	24	750	5	0.13	37	15	172	<20	0.33
47424		1.48	10	0.54	709	4	3.14	10	460	4	0.03	<5	7	226	<20	0.22
47425		2.03	20	1.11	448	<1	1.07	17	890	8	0.17	27	14	166	<20	0.36
47426		0.81	<10	0.77	340	6	0.02	13	370	5	0.09	50	6	42	<20	0.14
47427		1.22	10	0.53	165	11	0.03	12	490	10	0.69	46	8	50	<20	0.20
47428		2.17	10	0.52	306	3	0.04	21	700	9	0.34	42	13	67	<20	0.32
47429		1.78	10	0.49	200	6	0.03	21	680	8	0.46	61	11	53	<20	0.27
47430		2.69	10	0.75	187	11	0.05	22	910	14	0.14	44	18	83	<20	0.41
47431		1.58	10	0.41	158	15	0.03	16	500	8	0.17	43	11	58	<20	0.23
47432		2.18	10	1.29	230	5	0.22	31	920	7	0.09	28	16	84	<20	0.37
47433		1.14	10	1.55	1135	18	2.34	964	600	39	0.02	<5	16	484	<20	0.31
47434		2.00	10	0.98	178	7	0.05	24	740	6	0.06	33	14	57	<20	0.32
47435		1.24	<10	0.53	136	27	0.03	18	470	11	0.87	41	9	53	<20	0.19
47436		1.53	10	0.49	444	16	0.03	21	510	11	0.60	63	9	99	<20	0.22
47437		1.60	10	0.72	109	10	0.02	6	440	9	0.21	45	10	57	<20	0.25
47438		2.01	10	0.42	87	7	0.03	9	520	7	0.46	47	11	37	<20	0.28
47439		1.93	10	0.62	105	5	0.03	10	610	9	0.54	75	12	42	<20	0.29
47440		0.69	10	0.10	402	3	0.01	1	570	7	0.47	129	6	58	<20	0.20
47441		0.74	10	0.11	172	10	0.02	3	790	15	0.54	183	5	80	<20	0.27
47442		1.12	10	0.15	232	4	0.05	10	490	9	0.20	182	8	47	<20	0.21
47443		0.83	<10	0.15	684	7	0.02	19	180	8	0.38	114	9	54	<20	0.11
47444		1.36	<10	0.53	797	3	0.03	21	250	5	0.59	76	12	154	<20	0.15
47445		2.25	10	0.77	567	6	0.05	27	440	10	0.43	69	14	223	<20	0.25
47446		3.26	10	0.74	750	<1	0.07	37	730	9	0.29	27	19	254	<20	0.39
47447		1.74	<10	0.68	574	5	0.04	17	310	5	0.31	63	12	159	<20	0.21
47448		3.24	<10	0.64	593	1	0.06	44	960	8	0.84	28	20	160	<20	0.32
47449		3.30	<10	0.73	604	1	0.06	53	930	7	1.48	25	21	153	<20	0.35
47886		1.82	10	0.28	318	4	0.86	17	310	4	0.03	31	11	132	<20	0.27
47887		0.39	<10	0.06	65	6	0.02	5	60	2	0.02	38	3	40	<20	0.06
47888		2.39	10	1.56	386	8	0.20	18	410	93	2.76	50	8	58	<20	0.27
47889		0.69	<10	0.15	158	11	0.02	16	320	2	0.05	39	5	61	<20	0.11

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To: CHRISTOPHER JAMES GOLD CORP.
410 - 1111 MELVILLE ST.
VANCOUVER BC V6E 3V6

Finalized Date: 4-SEP-2007
Account: CHJAGO

Project: HAPPY SULLIVAN 2007

CERTIFICATE OF ANALYSIS VA07083868

Sample Description	Method / Analyte / Units / LOR	ME-ICP61 Tl ppm 10	ME-ICP61 U ppm 10	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2
47376		<10	<10	62	<10	198
47377		<10	<10	98	<10	260
47378		<10	<10	168	<10	118
47379		<10	10	144	10	79
47380		<10	10	162	<10	84
47381		<10	<10	161	<10	102
47382		10	<10	187	<10	103
47383		<10	<10	147	<10	86
47384		<10	<10	201	<10	126
47423		<10	<10	126	<10	59
47424		10	10	38	<10	44
47425		<10	<10	114	<10	53
47426		<10	<10	66	<10	30
47427		<10	<10	93	<10	35
47428		<10	<10	142	<10	66
47429		<10	<10	122	<10	53
47430		<10	<10	176	<10	70
47431		<10	<10	111	<10	49
47432		<10	<10	167	<10	73
47433		<10	<10	131	10	65
47434		10	<10	149	<10	60
47435		<10	<10	100	<10	34
47436		<10	<10	112	<10	39
47437		<10	<10	110	<10	19
47438		10	<10	127	<10	29
47439		<10	<10	136	<10	32
47440		<10	<10	18	<10	40
47441		<10	<10	48	<10	35
47442		10	<10	64	<10	71
47443		<10	<10	56	<10	187
47444		<10	<10	86	<10	322
47445		<10	<10	132	<10	323
47446		<10	<10	186	10	277
47447		<10	<10	106	<10	117
47448		<10	<10	203	<10	70
47449		<10	<10	210	10	56
47886		<10	<10	103	10	82
47887		<10	<10	49	<10	11
47888		<10	<10	55	10	678
47889		<10	<10	61	<10	42

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Finalized Date: 4-SEP-2007
Account: CHJAGO

Project: HAPPY SULLIVAN 2007

CERTIFICATE OF ANALYSIS VA07083868

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA26 Au ppm 0.01	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01	ME-ICP61 Ga ppm 10
47890		1.82	0.31	2.7	2.52	458	360	0.8	<2	0.11	<0.5	6	41	27	2.29	10
47891		2.88	0.36	2.9	3.24	834	410	0.9	<2	0.12	<0.5	6	53	33	2.33	10
47892		2.06	0.33	1.9	2.51	525	340	0.9	2	0.08	<0.5	7	54	28	1.93	10
47893		1.56	0.27	2.1	3.99	283	430	1.0	<2	0.11	<0.5	10	84	53	2.64	10
47894		3.82	0.61	2.6	2.32	523	290	0.6	<2	0.05	<0.5	3	41	19	1.53	10
47895		2.50	0.55	5.2	2.65	1080	300	0.6	<2	0.06	<0.5	2	38	24	1.83	10
47896		3.08	0.84	7.8	3.67	1940	370	0.9	<2	0.13	<0.5	8	57	35	1.76	10
47897		3.16	0.39	0.6	7.94	1820	720	1.3	<2	0.52	<0.5	18	7	21	6.84	20
47898		4.86	0.16	1.8	6.43	647	680	0.9	<2	0.31	<0.5	18	10	19	5.71	20
47899		5.82	0.15	2.4	6.58	222	510	1.4	<2	0.25	<0.5	20	116	99	4.00	20
47900		4.92	0.30	2.4	3.48	245	360	1.0	<2	0.14	<0.5	10	71	52	2.27	10
48072		2.82	0.08	0.9	7.26	480	360	0.7	<2	6.61	<0.5	13	73	111	4.36	20
48073		3.64	0.93	7.3	3.28	997	240	0.7	<2	0.95	0.6	7	63	54	3.86	10
48074		3.32	0.50	3.6	1.89	729	190	0.8	<2	0.09	0.6	5	47	31	3.17	<10
48075		0.06	<0.01	<0.5	6.83	11	500	0.7	<2	2.45	<0.5	10	46	36	3.85	10
48076		3.56	0.16	2.6	5.46	952	380	0.6	2	4.11	5.7	14	70	156	7.14	10
48077		3.76	0.18	14.2	7.08	325	580	0.8	50	5.12	3.5	16	75	128	4.93	20
48078		3.32	0.05	<0.5	7.19	176	580	0.8	<2	8.26	0.6	16	64	82	5.20	20
48079		3.62	0.07	0.9	7.14	357	550	0.7	2	4.05	8.9	18	85	163	4.98	20
48080		2.54	0.02	0.5	6.91	110	630	0.7	<2	7.10	<0.5	12	66	65	4.52	20
48081		2.62	0.23	2.9	3.82	1410	460	0.6	<2	0.10	<0.5	3	41	25	1.63	10

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410 - 1111 MELVILLE ST.
VANCOUVER BC V6E 3V6

Finalized Date: 4-SEP-2007
Account: CHJAGO

Project: HAPPY SULLIVAN 2007

CERTIFICATE OF ANALYSIS VA07083868

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti
	Units	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
47890		0.77	<10	0.14	120	8	0.02	13	240	4	0.05	44	5	76	<20	0.12
47891		0.97	<10	0.21	128	6	0.03	13	350	4	0.06	57	7	66	<20	0.16
47892		0.75	<10	0.13	125	7	0.02	13	230	4	0.04	62	5	60	<20	0.12
47893		1.18	<10	0.19	226	4	0.03	25	420	4	0.02	48	9	57	<20	0.20
47894		0.70	<10	0.10	73	4	0.02	10	180	6	0.10	52	4	46	<20	0.11
47895		0.88	<10	0.12	87	4	0.02	6	170	5	0.13	68	5	47	<20	0.13
47896		1.20	<10	0.17	142	5	0.03	9	420	4	0.11	75	7	71	<20	0.19
47897		1.67	20	0.41	895	2	0.09	10	1930	4	0.04	36	22	76	<20	1.06
47898		1.43	10	1.18	497	4	0.06	6	1210	8	0.12	30	17	67	<20	0.78
47899		1.88	10	0.35	455	5	0.03	54	820	6	0.03	31	16	54	<20	0.35
47900		1.00	<10	0.18	230	6	0.02	26	430	2	0.02	54	8	59	<20	0.17
48072		2.78	<10	1.26	642	1	0.05	26	670	6	0.46	21	18	405	<20	0.34
48073		1.18	<10	0.32	263	22	0.03	16	260	9	0.82	77	8	101	<20	0.14
48074		0.63	<10	0.08	278	17	0.02	12	160	4	0.24	73	6	37	<20	0.08
48075		0.88	10	1.10	748	4	2.45	23	620	3	0.04	<5	14	266	<20	0.33
48076		2.18	<10	1.05	888	4	0.04	39	680	43	1.38	38	14	296	<20	0.24
48077		2.78	10	1.14	598	5	0.05	43	780	18	1.91	29	17	334	<20	0.29
48078		2.71	<10	1.70	641	2	0.06	30	670	8	1.38	19	16	458	<20	0.31
48079		2.89	10	0.64	658	6	0.05	49	940	24	1.84	23	18	145	<20	0.28
48080		2.61	<10	1.43	586	2	0.05	30	630	4	0.99	17	15	379	<20	0.28
48081		1.39	<10	0.12	89	1	0.04	7	100	9	0.09	164	7	55	<20	0.14

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VANCOUVER BC V6E 3V6

Finalized Date: 4-SEP-2007
Account: CHJAGO

Project: HAPPY SULLIVAN 2007

CERTIFICATE OF ANALYSIS VA07083868

Sample Description	Method / Analyte / Units / LOR	ME-ICP61 Tl ppm 10	ME-ICP61 U ppm 10	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2
47890		<10	<10	63	<10	37
47891		<10	<10	66	<10	32
47892		<10	<10	64	<10	31
47893		<10	<10	91	<10	45
47894		<10	<10	52	<10	18
47895		<10	<10	51	10	20
47896		<10	<10	75	<10	26
47897		<10	<10	265	10	118
47898		<10	<10	203	10	101
47899		<10	<10	150	<10	83
47900		<10	<10	84	<10	44
48072		<10	<10	165	10	45
48073		<10	<10	76	<10	91
48074		<10	<10	48	<10	109
48075		<10	10	100	<10	52
48076		<10	<10	214	10	783
48077		<10	<10	263	10	478
48078		<10	<10	177	<10	149
48079		<10	<10	288	<10	1040
48080		<10	<10	182	10	84
48081		<10	<10	68	10	66

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To: **CHRISTOPHER JAMES GOLD CORP.**
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VANCOUVER BC V6E 3V6

Finalized Date: 4-SEP-2007
This copy reported on 13-NOV-2007
Account: CHJAGO

CERTIFICATE VA07089987

Project: HAPPY SULLIVAN 2007

P.O. No.:

This report is for 154 Soil samples submitted to our lab in Vancouver, BC, Canada on 2-AUG-2007.

The following have access to data associated with this certificate:

MAX BAKER DAVE TRABERT	MARK MALFAIR	MICHAEL RENNING

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-MS41	51 anal. aqua regia ICPMS	

To: **CHRISTOPHER JAMES GOLD CORP.**
ATTN: MICHAEL RENNING
410 - 1111 MELVILLE ST.
VANCOUVER BC V6E 3V6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature: 

Lawrence Ng, Laboratory Manager - Vancouver

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Finalized Date: 4-SEP-2007
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Project: HAPPY SULLIVAN 2007

CERTIFICATE OF ANALYSIS VA07089987

Sample Description	Method	WEI-21	Au-AA23	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
J1		0.32	0.005	0.06	0.59	47.5	<0.2	<10	80	0.18	0.34	0.22	0.67	11.95	6.9	12
J2		0.42	<0.005	0.16	0.91	90.8	<0.2	<10	70	0.33	0.47	0.34	0.35	17.55	6.1	18
J3		0.44	<0.005	0.09	0.99	54.9	<0.2	<10	100	0.32	0.41	0.17	0.29	15.65	6.8	18
J4		0.48	0.016	0.09	1.02	75.0	<0.2	<10	130	0.32	0.42	0.26	0.43	13.60	8.4	21
J5		0.26	<0.005	0.04	1.08	71.8	<0.2	<10	60	0.29	0.44	0.14	0.19	13.80	5.4	20
J6		0.22	<0.005	0.13	1.19	112.0	<0.2	<10	100	0.40	0.50	0.27	0.83	17.05	10.4	21
J7		0.40	0.006	0.12	1.28	126.0	<0.2	<10	80	0.37	0.38	0.20	0.25	14.30	8.1	23
J8		0.50	0.007	0.08	1.33	134.5	<0.2	<10	130	0.39	0.44	0.21	0.25	14.05	6.0	25
J9		0.40	0.007	0.07	0.79	49.1	<0.2	<10	80	0.22	0.35	0.35	0.51	11.90	4.0	16
J10		0.50	0.011	0.09	1.25	82.7	<0.2	<10	80	0.25	0.32	0.48	0.12	14.35	4.5	25
J11		0.60	0.006	0.11	1.22	76.1	<0.2	<10	80	0.40	0.50	0.18	0.43	16.05	7.1	21
J12		0.30	0.005	0.06	1.28	81.2	<0.2	<10	80	0.46	0.59	0.25	0.38	24.50	8.3	21
J13		0.36	0.008	0.11	1.11	118.0	<0.2	<10	100	0.35	0.73	0.31	0.39	16.45	6.7	20
J14		0.50	0.009	0.17	1.36	184.0	<0.2	<10	90	0.44	0.70	0.28	0.30	16.30	10.0	21
J15		0.58	0.006	0.09	1.33	92.3	<0.2	<10	120	0.30	0.45	0.25	0.18	16.20	5.2	26
J16		0.34	0.016	0.11	1.37	179.0	<0.2	<10	100	0.35	0.45	0.23	0.18	14.60	6.3	28
J17		0.42	0.009	0.18	0.97	57.1	<0.2	<10	230	0.52	0.24	0.13	0.92	10.65	15.9	14
J18		0.48	0.012	0.11	0.93	51.8	<0.2	<10	100	0.28	0.40	0.38	0.19	17.75	4.6	17
J19		0.30	0.013	0.16	1.27	75.1	<0.2	<10	120	0.38	0.31	0.15	0.24	18.15	10.9	19
J20		0.46	0.013	0.26	1.38	87.3	<0.2	<10	100	0.31	0.38	0.15	0.19	16.70	5.0	24
Ei1		0.50	0.157	1.25	1.43	1330.0	<0.2	<10	110	0.86	1.03	0.37	1.16	32.30	27.7	32
Ei2		0.40	0.017	0.32	0.93	57.0	<0.2	<10	130	0.31	0.43	0.33	2.14	14.70	8.8	20
Ei3		0.42	0.012	0.11	1.12	56.9	<0.2	<10	70	0.33	0.38	0.23	1.31	17.85	9.9	27
Ei4		0.38	0.011	0.07	1.19	83.7	<0.2	<10	100	0.23	0.47	0.16	0.35	20.30	6.3	25
Ei5		0.48	0.015	0.15	1.52	64.7	<0.2	<10	90	0.35	0.50	0.07	0.12	20.10	4.4	26
Ei6		0.54	<0.005	0.13	1.32	79.8	<0.2	<10	90	0.40	0.46	0.07	0.13	17.90	4.7	19
Ei7		0.50	0.005	0.10	1.38	113.0	<0.2	<10	50	0.39	0.48	0.07	0.08	18.65	4.3	22
Ei8		0.60	<0.005	0.21	1.55	96.9	<0.2	<10	90	0.50	0.46	0.39	0.43	20.10	8.2	25
Ei9		0.74	1.165	1.48	2.02	951.0	1.4	<10	120	0.90	0.39	0.50	0.78	42.80	19.6	26
Ei10		0.30	<0.005	0.16	2.00	161.0	<0.2	<10	80	1.39	0.67	0.41	0.58	19.80	16.9	20
Ei11		0.64	<0.005	0.13	0.66	27.4	<0.2	<10	70	0.17	0.36	0.23	0.12	14.45	2.0	12
Ei12		0.56	<0.005	0.04	1.15	84.7	<0.2	<10	90	0.32	0.61	0.25	0.25	22.30	5.8	18
Ei13		0.52	<0.005	0.07	1.39	86.0	<0.2	<10	70	0.42	0.66	0.09	0.12	22.30	5.0	22
Ei14		0.52	<0.005	0.05	1.68	95.1	<0.2	<10	50	0.47	0.54	0.10	0.11	23.20	3.9	23
Ei15		0.42	<0.005	0.19	0.78	45.3	<0.2	<10	60	0.18	0.50	0.11	0.33	15.25	2.4	12
Ei16		0.48	0.010	0.47	1.00	469.0	<0.2	<10	110	0.49	0.43	0.27	2.22	14.25	18.1	23
Ei17		0.60	0.064	0.18	1.34	83.4	<0.2	<10	80	0.46	0.20	0.37	0.71	15.65	12.6	26
Ei18		0.62	0.010	0.16	1.39	108.5	<0.2	<10	110	0.42	0.25	0.31	1.13	20.70	16.1	27
Ei19		0.60	0.008	0.42	1.33	156.0	<0.2	<10	130	0.36	0.45	0.11	1.80	19.55	8.9	24
Ei20		0.66	<0.005	0.16	2.35	123.5	<0.2	<10	100	0.62	0.49	0.13	0.32	24.80	8.4	30

Comments: Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).

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To: CHRISTOPHER JAMES GOLD CORP.
410 - 1111 MELVILLE ST.
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Finalized Date: 4-SEP-2007
Account: CHJAGO

Project: HAPPY SULLIVAN 2007

CERTIFICATE OF ANALYSIS VA07089987

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
J1		3.18	10.6	1.85	4.95	0.06	0.02	0.02	0.019	0.10	6.7	6.1	0.18	171	1.73	0.01
J2		4.24	13.2	2.27	5.59	0.06	<0.02	0.02	0.027	0.10	9.9	16.2	0.31	255	1.18	0.01
J3		2.55	9.7	2.14	6.15	0.07	0.02	0.01	0.025	0.09	8.9	20.3	0.33	223	1.40	0.01
J4		3.29	17.6	2.71	6.23	0.06	<0.02	0.02	0.028	0.09	8.1	20.6	0.32	245	1.75	0.01
J5		3.12	9.6	2.31	6.42	0.07	0.02	0.01	0.024	0.09	8.0	16.6	0.31	151	1.15	0.01
J6		5.99	13.6	2.55	5.97	0.07	0.03	0.01	0.028	0.10	8.6	32.1	0.40	319	1.05	0.01
J7		2.91	12.9	2.53	6.86	0.07	<0.02	0.02	0.027	0.10	7.9	22.0	0.39	328	1.31	0.01
J8		3.91	13.7	2.83	7.62	0.08	<0.02	0.01	0.029	0.09	8.0	24.7	0.44	187	1.33	0.01
J9		3.18	9.8	1.89	5.91	0.07	<0.02	0.01	0.018	0.09	6.8	11.1	0.25	138	1.25	0.01
J10		2.65	12.6	2.55	7.76	0.07	0.02	0.01	0.026	0.15	8.1	20.6	0.44	151	1.40	0.02
J11		3.99	13.8	2.55	6.92	0.07	<0.02	0.01	0.032	0.12	9.1	19.3	0.35	248	1.25	0.01
J12		7.42	27.0	2.50	6.11	0.09	0.02	0.01	0.034	0.09	12.2	25.2	0.40	328	1.27	0.02
J13		3.32	18.0	2.48	7.28	0.07	<0.02	<0.01	0.036	0.13	8.3	12.5	0.30	196	1.42	0.01
J14		3.41	15.3	2.71	7.13	0.07	<0.02	0.01	0.037	0.09	8.9	19.5	0.36	342	1.07	0.01
J15		2.51	13.0	2.82	8.20	0.07	<0.02	0.01	0.030	0.12	9.4	21.3	0.44	254	1.37	0.01
J16		3.44	17.9	3.39	8.32	0.07	<0.02	0.01	0.032	0.15	7.7	23.1	0.55	274	1.60	0.01
J17		1.64	80.1	4.88	2.66	0.07	<0.02	0.02	0.045	0.12	5.8	9.4	0.16	383	6.99	0.01
J18		2.23	19.7	1.58	6.48	0.07	<0.02	0.01	0.026	0.08	9.4	13.5	0.27	158	1.02	0.01
J19		6.28	28.9	2.50	6.53	0.06	<0.02	0.01	0.029	0.08	9.5	15.6	0.34	283	2.14	0.01
J20		2.53	23.3	2.63	7.48	0.08	0.02	0.01	0.029	0.10	9.0	16.8	0.42	191	1.37	0.01
Ei1		5.22	129.5	8.34	4.55	0.12	0.05	0.04	0.099	0.11	20.3	16.6	0.56	878	4.05	0.01
Ei2		2.66	24.8	2.21	6.12	0.06	<0.02	0.01	0.026	0.10	8.5	12.8	0.24	417	1.58	0.01
Ei3		1.44	45.9	3.46	5.37	0.08	0.02	0.02	0.036	0.09	9.6	9.3	0.45	356	7.19	0.02
Ei4		2.65	27.5	2.55	6.65	0.08	<0.02	0.02	0.028	0.08	10.5	13.7	0.42	355	2.83	0.02
Ei5		2.85	17.8	2.59	9.69	0.08	0.04	0.02	0.031	0.09	11.6	12.2	0.45	192	1.98	0.01
Ei6		2.78	16.4	2.62	7.99	0.08	0.05	0.02	0.030	0.07	9.7	12.3	0.29	172	1.84	0.01
Ei7		2.36	15.0	2.71	6.62	0.08	0.07	0.02	0.031	0.09	10.3	18.4	0.37	203	1.34	0.01
Ei8		2.78	25.6	3.08	7.75	0.09	<0.02	0.02	0.039	0.13	9.1	24.0	0.46	448	2.08	0.01
Ei9		8.10	93.0	4.92	7.26	0.13	0.07	0.02	0.060	0.15	22.3	30.9	0.81	858	2.43	0.02
Ei10		3.63	28.1	4.03	9.03	0.09	<0.02	0.01	0.062	0.05	10.5	12.2	0.28	717	2.47	0.01
Ei11		1.49	9.2	1.21	6.04	0.06	<0.02	0.01	0.017	0.07	8.6	6.2	0.19	89	1.12	0.01
Ei12		2.33	15.3	1.96	5.37	0.08	0.02	0.01	0.032	0.06	11.7	20.8	0.37	239	0.71	0.02
Ei13		3.00	11.4	2.43	7.20	0.08	0.04	0.01	0.037	0.08	11.1	25.2	0.38	211	1.19	0.01
Ei14		1.89	13.0	2.35	5.92	0.07	0.03	0.02	0.044	0.06	12.7	17.9	0.34	203	1.23	0.01
Ei15		1.97	10.7	1.35	5.73	<0.05	<0.02	0.02	0.020	0.05	8.9	8.1	0.17	100	1.51	0.01
Ei16		4.10	37.8	3.94	4.74	0.06	<0.02	0.01	0.049	0.10	7.1	9.4	0.32	887	1.89	0.01
Ei17		2.46	34.5	3.09	5.76	0.06	0.02	0.01	0.030	0.11	8.3	19.7	0.56	432	1.60	0.01
Ei18		2.69	36.1	3.30	5.90	0.07	0.03	0.02	0.036	0.13	10.3	19.3	0.64	693	2.83	0.02
Ei19		2.66	31.8	3.18	7.52	0.06	<0.02	0.02	0.036	0.10	10.4	12.3	0.45	445	2.43	0.01
Ei20		2.91	24.1	3.77	9.03	0.08	0.02	0.04	0.044	0.09	12.1	28.7	0.47	296	8.48	0.02

Comments: Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).

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Finalized Date: 4-SEP-2007
Account: CHJAGO

Project: HAPPY SULLIVAN 2007

CERTIFICATE OF ANALYSIS VA07089987

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
J1		1.10	7.2	220	9.3	28.1	<0.001	0.01	2.32	1.9	0.2	0.7	30.4	0.01	0.03	0.9
J2		1.02	10.8	450	11.0	22.5	<0.001	0.02	1.27	2.5	0.3	0.6	34.0	0.01	0.03	1.3
J3		1.42	9.3	250	7.6	29.7	<0.001	0.02	1.14	3.1	0.3	0.7	27.8	0.01	0.03	2.1
J4		1.17	13.4	410	10.1	26.5	<0.001	0.02	1.93	3.0	0.4	0.6	36.3	0.01	0.04	1.9
J5		1.44	9.9	260	9.1	23.1	<0.001	0.01	1.58	3.2	0.3	0.7	17.1	<0.01	0.03	2.5
J6		1.77	14.0	170	13.3	28.4	<0.001	0.02	1.97	3.7	0.3	0.7	33.3	<0.01	0.02	3.7
J7		1.23	13.2	310	9.2	23.5	<0.001	0.03	1.74	3.6	0.3	0.6	27.0	<0.01	0.03	1.9
J8		1.24	14.5	280	9.7	22.3	<0.001	0.03	2.24	3.6	0.3	0.6	31.0	<0.01	0.03	1.4
J9		1.50	7.0	250	8.4	23.8	<0.001	0.02	1.43	2.3	0.3	0.7	45.5	<0.01	0.03	1.2
J10		1.56	11.2	230	7.4	51.0	<0.001	0.03	1.88	4.1	0.4	0.6	68.5	<0.01	0.03	1.9
J11		1.43	12.3	340	10.5	32.6	<0.001	0.01	1.55	3.4	0.3	0.8	27.8	<0.01	0.03	1.9
J12		1.50	13.9	350	12.0	26.2	<0.001	0.02	1.66	3.9	0.6	0.7	34.3	<0.01	0.03	2.0
J13		1.90	11.1	300	12.7	36.2	<0.001	0.02	1.85	3.5	0.3	1.0	39.0	<0.01	0.03	2.5
J14		1.72	12.4	280	12.6	20.4	<0.001	0.01	2.30	3.8	0.3	0.9	39.3	<0.01	0.03	2.7
J15		1.63	11.5	330	9.4	23.8	<0.001	0.01	1.61	4.1	0.4	0.8	30.8	<0.01	0.03	2.2
J16		1.29	14.7	390	10.7	25.7	<0.001	0.02	3.60	4.2	0.5	0.7	28.8	<0.01	0.04	1.2
J17		0.33	39.6	680	18.7	15.9	<0.001	0.01	8.96	7.2	1.5	0.2	23.8	<0.01	0.06	1.1
J18		0.91	8.6	360	8.5	21.3	<0.001	0.03	1.44	2.1	0.4	0.8	44.7	<0.01	0.02	0.5
J19		0.88	15.6	420	7.7	31.7	<0.001	0.01	4.49	3.6	0.4	0.6	24.7	<0.01	0.03	1.2
J20		1.48	14.2	370	9.0	18.7	<0.001	0.01	2.76	4.8	0.4	0.7	16.3	<0.01	0.03	2.9
Ei1		0.42	52.7	890	116.5	9.7	0.001	0.04	33.50	13.4	2.8	0.2	50.9	0.01	0.98	2.7
Ei2		1.18	11.7	440	12.8	32.5	<0.001	0.02	1.97	2.6	0.4	0.7	40.6	<0.01	0.04	0.9
Ei3		0.99	15.2	450	13.7	18.4	<0.001	0.04	3.44	4.8	0.7	0.3	33.6	<0.01	0.22	2.1
Ei4		1.62	13.3	520	10.1	19.4	<0.001	0.01	1.97	4.2	0.4	0.7	15.8	<0.01	0.07	2.0
Ei5		2.06	10.5	430	11.0	23.1	<0.001	0.01	1.63	5.4	0.5	1.1	10.2	<0.01	0.04	4.3
Ei6		1.88	9.0	370	13.3	19.3	<0.001	0.01	1.63	3.6	0.4	0.9	9.7	<0.01	0.03	4.4
Ei7		1.65	10.5	330	9.4	15.7	<0.001	0.01	1.87	4.2	0.4	0.8	8.0	<0.01	0.02	6.0
Ei8		1.15	14.8	580	13.8	19.7	<0.001	0.02	2.72	3.6	0.6	0.7	39.4	<0.01	0.03	1.0
Ei9		0.52	40.4	940	26.6	14.0	<0.001	0.02	15.00	10.3	1.1	0.5	62.4	<0.01	0.05	5.5
Ei10		1.72	11.7	710	27.5	19.5	<0.001	0.02	3.12	3.2	0.8	0.7	56.6	0.01	0.03	3.7
Ei11		0.80	4.6	190	7.7	21.5	<0.001	0.01	0.73	1.6	0.3	0.9	28.7	<0.01	0.02	0.4
Ei12		1.42	10.7	380	9.9	13.4	<0.001	0.02	1.05	3.7	0.4	0.8	32.8	<0.01	0.02	3.3
Ei13		2.09	10.3	240	12.1	21.7	<0.001	0.01	1.11	4.5	0.4	1.0	11.8	<0.01	0.03	5.9
Ei14		1.70	9.8	500	10.5	12.4	0.001	0.01	1.03	3.9	0.5	0.7	6.8	0.01	0.03	5.1
Ei15		0.83	5.3	250	10.8	16.8	<0.001	0.01	1.38	1.2	0.3	0.9	18.0	<0.01	0.03	0.3
Ei16		0.59	18.6	550	25.0	25.5	<0.001	0.02	12.75	4.8	0.5	0.3	39.0	<0.01	0.15	1.3
Ei17		0.65	19.5	580	11.6	17.0	0.001	0.02	4.56	4.1	0.5	0.3	38.4	<0.01	0.05	0.8
Ei18		0.92	19.9	880	13.7	16.7	0.001	0.02	5.33	5.9	0.6	0.3	23.5	<0.01	0.08	4.0
Ei19		0.94	14.5	630	19.1	19.2	<0.001	0.01	5.46	4.3	0.4	0.5	12.6	<0.01	0.13	0.9
Ei20		1.88	17.5	720	14.4	15.0	<0.001	0.03	2.58	5.1	0.8	0.6	14.9	0.01	0.05	4.1

Comments: Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).

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CERTIFICATE OF ANALYSIS VA07089987

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
J1		0.045	0.09	0.40	41	1.08	2.16	66	<0.5
J2		0.046	0.09	0.68	44	0.37	3.39	65	<0.5
J3		0.053	0.09	0.59	45	0.75	2.93	67	<0.5
J4		0.030	0.08	0.44	57	0.45	2.38	66	<0.5
J5		0.043	0.10	0.47	51	0.33	2.55	77	<0.5
J6		0.062	0.10	0.66	50	0.42	3.37	130	0.9
J7		0.050	0.12	0.52	57	0.34	2.80	92	<0.5
J8		0.053	0.11	0.56	60	0.99	2.78	123	<0.5
J9		0.055	0.09	0.58	50	0.40	2.26	65	<0.5
J10		0.062	0.12	0.60	65	0.35	3.09	46	0.5
J11		0.059	0.12	0.69	53	0.33	3.18	80	<0.5
J12		0.047	0.13	0.91	44	0.39	6.14	65	<0.5
J13		0.058	0.12	0.78	50	0.41	3.54	88	<0.5
J14		0.046	0.13	0.68	47	0.44	3.27	90	<0.5
J15		0.065	0.11	0.66	61	0.37	3.17	85	<0.5
J16		0.058	0.12	0.60	67	0.37	2.93	88	<0.5
J17		<0.005	0.18	0.38	36	0.69	2.95	173	<0.5
J18		0.043	0.09	1.26	36	0.30	3.82	51	<0.5
J19		0.016	0.18	0.56	49	0.36	3.39	69	<0.5
J20		0.063	0.14	0.56	56	0.38	4.13	59	<0.5
Ei1		0.015	0.18	0.97	53	0.29	23.60	237	1.0
Ei2		0.046	0.09	0.64	46	0.39	2.99	105	<0.5
Ei3		0.049	0.09	0.52	55	0.51	4.93	124	<0.5
Ei4		0.067	0.15	0.77	51	0.50	5.71	74	<0.5
Ei5		0.078	0.14	0.84	56	0.48	4.11	50	1.2
Ei6		0.054	0.13	0.92	47	0.47	3.46	47	1.5
Ei7		0.061	0.10	0.85	46	0.75	3.91	43	2.1
Ei8		0.050	0.12	0.76	55	0.32	4.92	102	<0.5
Ei9		0.045	0.21	1.26	50	0.33	15.90	160	2.9
Ei10		0.058	0.14	2.18	58	0.50	5.23	66	<0.5
Ei11		0.041	0.08	0.77	28	0.27	2.79	26	<0.5
Ei12		0.042	0.10	0.87	35	0.40	5.62	50	<0.5
Ei13		0.058	0.13	1.06	46	0.51	4.66	53	1.4
Ei14		0.044	0.10	1.07	37	0.59	5.53	43	0.6
Ei15		0.033	0.10	0.76	33	0.42	2.76	33	<0.5
Ei16		0.017	0.07	0.41	47	0.88	3.58	229	<0.5
Ei17		0.029	0.12	0.47	47	0.30	3.71	88	<0.5
Ei18		0.042	0.12	0.70	48	0.30	6.17	125	0.7
Ei19		0.048	0.17	0.55	56	0.44	4.98	108	<0.5
Ei20		0.061	0.12	1.15	61	0.43	5.83	77	0.5

Comments: Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).

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Finalized Date: 4-SEP-2007
Account: CHJAGO

Project: HAPPY SULLIVAN 2007

CERTIFICATE OF ANALYSIS VA07089987

Sample Description	Method	WEI-21	Au-AA23	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
Ei21		0.44	0.005	0.21	0.97	27.2	<0.2	<10	90	0.32	0.40	0.08	0.19	17.50	3.6	13
Ei22		0.50	<0.005	0.08	1.37	91.7	<0.2	<10	90	0.34	0.43	0.11	0.25	14.90	4.9	25
Ei23		0.46	<0.005	0.15	1.41	79.7	<0.2	<10	70	0.40	0.50	0.11	0.19	23.10	5.1	19
Ei24		0.52	<0.005	0.27	1.49	102.0	<0.2	<10	100	0.38	0.92	0.07	0.31	19.15	4.8	22
Ei25		0.64	0.005	0.14	1.41	93.8	<0.2	<10	90	0.52	0.39	0.45	0.33	37.30	12.3	20
Ei26		0.58	<0.005	0.03	1.15	92.0	<0.2	<10	60	0.28	0.45	0.13	0.13	19.75	4.3	21
Ei27		0.46	<0.005	0.12	1.04	74.5	<0.2	<10	60	0.19	0.52	0.05	0.40	15.45	4.0	19
Ei28		0.58	<0.005	0.08	1.80	77.4	<0.2	<10	140	0.59	0.63	0.17	0.27	40.00	8.6	24
Ei29		0.46	<0.005	0.06	1.08	71.3	<0.2	<10	90	0.28	0.52	0.28	0.21	20.40	4.2	20
Ei30		0.46	<0.005	0.11	1.07	71.0	<0.2	<10	80	0.35	0.58	0.11	0.65	21.80	7.6	19
Ei31		0.42	<0.005	0.09	1.27	75.4	<0.2	<10	110	0.57	0.60	0.23	1.07	22.90	13.4	20
Ei32		0.52	<0.005	0.14	0.99	53.3	<0.2	<10	70	0.34	0.55	0.26	0.57	16.85	5.1	19
Ei33		0.52	<0.005	0.12	1.26	123.5	<0.2	<10	60	0.48	0.64	0.13	0.33	30.00	6.4	17
Ei34		0.56	<0.005	0.09	0.86	109.5	<0.2	<10	50	0.28	0.59	0.16	0.20	14.45	3.3	16
Ei35		0.72	<0.005	0.27	1.32	155.0	<0.2	<10	100	0.42	0.44	0.16	0.25	26.30	9.7	20
Ei36		0.52	<0.005	0.11	0.95	126.0	<0.2	<10	70	0.38	0.64	0.21	0.39	26.20	6.8	15
Ei37		0.68	<0.005	0.17	1.42	262.0	<0.2	<10	90	0.69	0.62	0.30	0.33	43.10	11.2	17
Ei38		0.44	<0.005	0.12	0.94	138.0	<0.2	<10	60	0.28	0.55	0.11	0.34	16.85	4.3	14
Ei39		0.64	<0.005	0.29	1.82	277.0	<0.2	<10	130	1.00	0.57	0.44	1.55	23.00	38.8	27
Ei40		0.50	<0.005	0.17	1.62	147.0	<0.2	<10	100	0.57	0.57	0.18	0.58	28.80	18.2	21
Ei41		0.44	<0.005	0.45	2.92	146.5	<0.2	<10	90	1.08	0.48	0.77	1.59	25.10	63.1	34
Ei42		0.42	0.008	0.07	2.08	188.5	<0.2	<10	90	0.57	1.01	0.17	0.36	23.30	11.5	28
Ei43		0.48	<0.005	0.15	1.37	153.0	<0.2	<10	60	0.51	0.80	0.32	1.11	22.30	11.3	19
Ei44		0.48	0.116	0.50	2.17	1220.0	<0.2	<10	100	0.77	1.04	0.29	0.72	23.60	20.9	27
Ei45		0.52	<0.005	0.18	1.38	109.0	<0.2	<10	70	0.54	0.96	0.15	0.36	23.90	7.6	17
Ei46		0.42	<0.005	0.07	1.55	180.0	<0.2	<10	70	0.57	1.20	0.16	0.20	40.30	5.8	17
Ei47		0.46	<0.005	0.33	1.95	169.5	<0.2	<10	120	0.67	0.55	0.73	0.53	38.80	19.9	25
Ei48		0.52	0.045	0.88	2.95	941.0	<0.2	<10	110	0.91	0.33	0.86	1.42	23.10	35.2	32
Ei49		0.50	<0.005	0.45	2.52	490.0	<0.2	<10	150	0.81	0.42	0.40	1.49	22.40	35.1	31
Ei50		0.70	0.082	0.48	1.40	427.0	<0.2	<10	60	0.57	0.60	0.45	0.72	35.70	13.4	27
Ei51		0.50	<0.005	0.10	1.39	146.5	<0.2	<10	80	0.43	0.41	0.34	0.44	16.45	7.9	24
Ei52		0.60	<0.005	0.45	1.83	77.6	<0.2	<10	150	0.58	0.27	0.26	0.56	17.45	17.4	33
Ei53		0.48	<0.005	0.08	1.28	149.5	<0.2	<10	90	0.40	0.50	0.40	0.38	15.00	6.8	20
Ei54		0.36	<0.005	0.13	0.99	45.7	<0.2	<10	110	0.30	0.56	0.36	0.76	13.10	6.6	17
F23		0.46	<0.005	0.16	1.47	76.1	<0.2	<10	140	0.42	0.44	0.49	0.65	17.85	12.6	25
F24		0.46	<0.005	0.50	1.73	161.0	<0.2	10	160	0.76	0.41	1.16	2.67	17.65	15.7	32
F25		0.46	3.35	0.31	1.91	195.0	<0.2	<10	80	0.60	0.36	0.50	0.44	26.90	18.5	40
F26		0.46	0.008	0.10	1.23	68.8	<0.2	<10	160	0.29	0.41	0.23	0.70	14.30	7.3	28
F27		0.52	0.018	0.18	1.77	143.5	<0.2	<10	90	0.50	0.31	0.39	0.43	30.60	12.9	27
F28		0.54	0.141	0.64	2.15	411.0	<0.2	<10	130	0.68	0.30	0.61	0.40	31.30	16.9	30

Comments: Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).

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Finalized Date: 4-SEP-2007
Account: CHJAGO

Project: HAPPY SULLIVAN 2007

CERTIFICATE OF ANALYSIS VA07089987

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
Ei21		3.68	12.0	1.66	7.41	0.06	<0.02	0.01	0.019	0.07	10.3	4.7	0.18	117	1.50	0.01
Ei22		3.09	12.8	3.41	10.15	0.06	0.02	0.02	0.030	0.10	8.9	18.4	0.43	246	2.02	0.01
Ei23		3.17	18.5	2.57	7.76	0.08	0.06	0.01	0.035	0.13	12.1	17.3	0.36	213	1.36	0.01
Ei24		3.05	17.7	2.97	10.35	0.07	0.02	0.01	0.034	0.09	10.9	17.4	0.34	201	2.84	0.01
Ei25		4.02	42.8	3.00	6.32	0.13	0.10	0.01	0.036	0.15	18.9	22.3	0.53	514	1.20	0.03
Ei26		2.58	13.4	2.76	7.83	0.07	<0.02	0.01	0.029	0.07	10.9	17.8	0.40	214	1.83	0.01
Ei27		1.78	7.6	2.63	9.44	0.07	<0.02	0.01	0.025	0.07	9.0	9.5	0.25	266	1.49	0.01
Ei28		5.82	21.0	2.52	8.33	0.09	0.02	0.02	0.038	0.09	23.2	30.3	0.48	329	1.29	0.02
Ei29		3.52	9.1	2.20	7.28	0.05	<0.02	0.01	0.030	0.07	11.5	21.2	0.35	218	0.99	0.01
Ei30		3.07	15.2	2.28	7.06	0.06	<0.02	0.01	0.029	0.10	11.8	12.9	0.33	469	1.35	0.02
Ei31		10.60	21.7	2.49	7.37	0.07	<0.02	0.01	0.037	0.09	11.8	33.1	0.36	703	1.17	0.01
Ei32		4.89	9.9	2.19	6.61	0.07	<0.02	0.01	0.027	0.12	9.6	13.3	0.32	216	1.11	0.01
Ei33		3.50	18.5	2.14	5.87	0.08	<0.02	0.01	0.034	0.08	15.2	15.5	0.32	328	1.26	0.01
Ei34		2.60	9.7	2.05	6.59	0.07	<0.02	0.01	0.026	0.11	8.7	10.4	0.28	159	1.23	0.01
Ei35		3.57	21.0	3.04	7.13	0.09	<0.02	0.02	0.035	0.12	13.3	17.6	0.43	525	1.57	0.02
Ei36		2.78	13.7	2.18	5.55	0.07	<0.02	0.01	0.032	0.09	13.7	14.1	0.33	406	1.20	0.02
Ei37		3.12	29.1	3.34	7.61	0.09	0.02	0.01	0.039	0.14	18.3	19.6	0.45	593	1.64	0.02
Ei38		2.73	13.6	2.31	6.79	0.06	<0.02	0.02	0.027	0.08	9.5	10.5	0.23	237	1.66	0.01
Ei39		12.05	67.3	4.46	7.20	0.07	<0.02	0.03	0.060	0.14	11.5	35.5	0.55	1475	2.09	0.01
Ei40		5.48	37.1	2.87	7.50	0.07	<0.02	0.03	0.043	0.08	14.2	22.7	0.41	575	2.39	0.02
Ei41		19.25	164.5	7.18	8.90	0.10	0.02	0.03	0.079	0.23	13.4	66.7	1.16	1190	5.19	0.02
Ei42		4.99	35.2	3.33	9.77	0.07	0.02	0.01	0.051	0.16	11.5	27.7	0.61	327	1.74	0.02
Ei43		5.59	35.0	2.89	7.80	0.08	<0.02	0.01	0.047	0.12	10.7	21.7	0.43	474	1.63	0.01
Ei44		9.38	88.5	4.42	9.12	0.08	<0.02	0.01	0.069	0.20	11.7	29.3	0.65	621	2.81	0.02
Ei45		2.74	20.0	2.25	6.88	0.08	<0.02	0.02	0.040	0.11	12.8	14.7	0.30	310	1.20	0.01
Ei46		3.11	19.0	2.37	6.95	0.09	0.02	0.01	0.046	0.10	20.5	18.8	0.37	313	1.00	0.02
Ei47		5.76	59.0	3.38	7.86	0.09	<0.02	0.03	0.051	0.15	17.7	24.9	0.58	1120	2.45	0.02
Ei48		9.67	125.0	6.46	8.41	0.09	0.04	0.05	0.079	0.22	11.5	27.0	0.69	556	20.00	0.03
Ei49		8.28	87.7	4.36	9.31	0.08	0.02	0.03	0.059	0.15	11.5	39.6	0.61	873	4.93	0.02
Ei50		2.79	57.7	3.71	6.27	0.09	0.04	0.03	0.058	0.11	17.4	19.9	0.59	555	1.44	0.02
Ei51		5.76	14.7	2.58	7.39	0.06	<0.02	0.01	0.030	0.10	8.8	35.0	0.46	212	1.11	0.02
Ei52		7.87	42.9	4.28	8.15	0.06	0.02	0.03	0.042	0.11	9.3	35.7	0.56	312	1.70	0.01
Ei53		4.86	15.2	2.43	6.96	0.06	<0.02	0.02	0.032	0.07	7.8	44.0	0.37	205	1.08	0.01
Ei54		3.56	11.4	2.00	7.66	0.06	<0.02	0.01	0.020	0.10	8.0	19.5	0.31	241	1.37	0.01
F23		5.91	20.6	2.91	7.83	0.07	<0.02	0.01	0.034	0.13	10.2	32.7	0.51	571	1.89	0.01
F24		4.52	54.3	3.21	7.23	0.07	0.02	0.03	0.046	0.07	10.6	44.2	0.57	830	1.40	0.02
F25		4.51	58.5	3.94	7.81	0.10	0.03	0.02	0.048	0.23	11.8	23.5	0.84	543	2.77	0.03
F26		1.41	25.2	3.64	6.57	0.06	0.03	0.01	0.032	0.11	7.8	8.1	0.47	275	6.39	0.02
F27		4.71	44.8	3.42	6.75	0.10	0.02	0.01	0.036	0.21	14.9	17.5	0.59	445	1.09	0.03
F28		5.73	82.7	4.19	8.04	0.11	0.10	0.02	0.045	0.29	15.6	28.3	0.83	605	1.42	0.05

Comments: Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).

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Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
Ei21		1.48	5.9	330	13.5	21.1	<0.001	0.02	1.20	2.6	0.3	0.9	11.1	<0.01	0.02	2.1
Ei22		1.80	9.2	490	11.0	20.7	<0.001	0.02	2.33	4.5	0.5	0.7	13.3	<0.01	0.04	3.1
Ei23		1.92	11.2	430	10.3	25.2	<0.001	0.02	2.06	4.6	0.5	0.9	10.4	<0.01	0.02	5.9
Ei24		2.31	10.5	480	14.6	19.6	<0.001	0.02	1.93	4.0	0.4	1.0	10.6	<0.01	0.03	4.1
Ei25		0.73	19.7	850	12.2	13.9	0.001	0.02	4.52	6.3	0.7	0.6	34.4	<0.01	0.03	6.4
Ei26		1.66	9.3	370	9.4	19.0	<0.001	0.02	2.05	3.6	0.5	0.7	13.0	<0.01	0.03	2.1
Ei27		2.68	6.3	310	12.0	16.4	<0.001	0.02	1.26	3.1	0.4	1.1	7.7	<0.01	0.03	3.6
Ei28		1.31	14.5	390	11.9	21.6	<0.001	0.02	1.78	4.1	0.6	0.9	25.8	<0.01	0.02	1.3
Ei29		0.86	7.4	370	8.2	17.4	<0.001	0.03	1.03	2.1	0.4	0.8	31.1	<0.01	0.02	0.4
Ei30		0.64	8.5	510	11.7	26.2	<0.001	0.02	1.36	1.5	0.4	0.8	14.4	<0.01	0.02	0.3
Ei31		1.24	10.9	410	17.2	25.3	<0.001	0.03	1.40	3.1	0.5	0.8	34.5	<0.01	0.02	1.2
Ei32		1.16	8.5	370	10.8	28.3	<0.001	0.03	1.45	2.5	0.4	0.8	33.3	<0.01	0.02	0.7
Ei33		1.06	10.2	450	11.3	19.6	<0.001	0.02	1.96	2.5	0.6	0.8	13.8	<0.01	0.03	1.5
Ei34		1.08	7.0	350	9.2	27.0	<0.001	0.02	1.61	2.1	0.4	0.8	20.4	<0.01	0.03	0.7
Ei35		1.35	12.3	500	13.9	27.3	<0.001	0.03	4.34	4.2	0.6	0.5	24.9	<0.01	0.04	2.9
Ei36		0.76	8.9	500	11.9	19.6	<0.001	0.02	1.67	2.1	0.4	0.7	19.4	<0.01	0.02	0.6
Ei37		1.56	13.6	750	19.2	18.5	<0.001	0.03	5.78	5.0	0.6	0.6	34.9	<0.01	0.05	4.8
Ei38		1.56	7.1	410	14.8	23.1	<0.001	0.02	3.35	2.7	0.4	0.9	16.6	<0.01	0.03	2.8
Ei39		0.63	29.7	1610	24.3	28.3	<0.001	0.08	7.78	2.4	1.1	0.5	50.1	<0.01	0.05	0.5
Ei40		1.13	16.6	700	15.7	19.6	<0.001	0.04	3.66	3.4	0.8	0.7	35.5	<0.01	0.03	1.2
Ei41		0.84	127.0	1010	25.7	42.8	<0.001	0.07	12.55	5.8	2.7	0.4	78.0	<0.01	0.07	1.2
Ei42		2.48	21.3	210	14.1	35.4	<0.001	0.02	2.78	6.1	0.6	1.2	23.1	<0.01	0.03	5.3
Ei43		1.16	15.8	560	16.2	27.0	<0.001	0.04	3.60	2.8	0.6	0.8	40.4	<0.01	0.03	1.1
Ei44		1.40	35.2	820	19.8	29.8	<0.001	0.11	12.65	4.0	1.2	0.8	89.1	<0.01	0.11	1.4
Ei45		1.81	11.2	400	13.7	20.8	<0.001	0.02	1.18	3.0	0.5	1.1	18.9	<0.01	0.02	1.4
Ei46		1.51	9.9	530	12.4	16.2	<0.001	0.02	1.30	3.3	0.6	1.2	15.6	<0.01	0.03	2.2
Ei47		0.81	22.9	940	23.8	28.5	<0.001	0.08	5.16	2.9	1.0	0.5	72.0	<0.01	0.04	0.6
Ei48		1.01	73.1	1070	18.7	26.5	0.001	0.18	20.20	6.2	3.4	0.4	92.9	<0.01	0.07	2.6
Ei49		1.09	42.3	1030	18.5	39.3	<0.001	0.11	11.15	4.0	1.4	0.5	71.7	<0.01	0.05	0.9
Ei50		0.91	22.1	760	42.4	12.4	0.001	0.03	14.50	7.5	1.1	0.4	33.9	<0.01	0.19	3.3
Ei51		1.47	15.2	270	9.8	23.8	<0.001	0.03	2.91	3.9	0.5	0.7	43.7	<0.01	0.02	2.0
Ei52		0.65	28.9	710	11.9	29.9	<0.001	0.02	8.21	6.0	0.7	0.4	35.4	<0.01	0.05	1.6
Ei53		1.50	13.3	300	11.3	19.5	<0.001	0.02	2.75	3.4	0.6	0.8	54.4	<0.01	0.02	1.6
Ei54		1.72	8.4	320	11.7	30.1	<0.001	0.02	1.26	2.7	0.3	0.9	50.1	<0.01	0.02	1.7
F23		1.45	14.2	320	11.9	44.2	<0.001	0.02	2.36	4.1	0.8	0.7	40.4	<0.01	0.03	1.4
F24		0.87	21.4	740	17.4	20.8	<0.001	0.05	8.64	5.9	2.4	0.5	118.5	<0.01	0.05	1.1
F25		1.44	27.8	550	15.9	32.7	<0.001	0.03	6.42	9.0	1.2	0.5	48.9	<0.01	0.16	3.5
F26		1.22	13.5	490	16.9	17.2	<0.001	0.02	2.97	4.5	0.5	0.4	23.3	<0.01	0.16	2.4
F27		1.18	17.3	810	15.8	18.8	<0.001	0.03	5.14	5.8	0.8	0.6	31.8	<0.01	0.05	2.9
F28		1.00	33.8	820	14.9	18.0	<0.001	0.03	12.30	9.3	1.2	0.6	58.1	<0.01	0.03	5.4

Comments: Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).

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VANCOUVER BC V6E 3V6

Finalized Date: 4-SEP-2007
Account: CHJAGO

Project: HAPPY SULLIVAN 2007

CERTIFICATE OF ANALYSIS VA07089987

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
Ei21		0.053	0.15	0.59	36	0.45	3.04	41	<0.5
Ei22		0.080	0.14	0.61	73	0.42	3.32	80	0.6
Ei23		0.069	0.14	0.94	42	0.56	6.33	59	2.2
Ei24		0.059	0.16	0.80	56	0.58	3.18	59	0.5
Ei25		0.067	0.16	1.05	44	0.29	12.60	85	3.5
Ei26		0.057	0.13	1.27	53	0.45	4.83	52	<0.5
Ei27		0.084	0.11	0.95	54	0.52	2.71	74	<0.5
Ei28		0.055	0.16	1.27	48	0.43	11.30	94	<0.5
Ei29		0.039	0.10	0.76	42	0.42	3.52	58	<0.5
Ei30		0.037	0.10	0.86	41	0.39	4.11	85	<0.5
Ei31		0.050	0.12	1.01	44	0.51	4.74	159	<0.5
Ei32		0.051	0.10	0.66	40	0.40	3.06	79	<0.5
Ei33		0.042	0.11	1.16	33	0.49	6.90	50	<0.5
Ei34		0.049	0.12	0.77	37	0.73	3.02	39	<0.5
Ei35		0.063	0.13	0.90	48	0.43	5.23	72	<0.5
Ei36		0.042	0.10	0.96	32	0.52	5.95	63	<0.5
Ei37		0.065	0.13	1.09	44	0.40	9.98	95	0.6
Ei38		0.050	0.12	0.75	39	0.46	3.28	56	<0.5
Ei39		0.024	0.13	1.10	55	2.12	7.26	175	<0.5
Ei40		0.043	0.18	1.41	46	0.39	7.59	87	<0.5
Ei41		0.045	0.37	1.16	84	0.32	16.85	425	<0.5
Ei42		0.080	0.22	1.10	59	0.49	6.04	116	0.6
Ei43		0.048	0.14	1.08	43	0.41	4.80	167	<0.5
Ei44		0.044	0.26	1.50	57	0.43	6.25	183	<0.5
Ei45		0.056	0.11	1.23	36	0.58	5.54	61	<0.5
Ei46		0.058	0.17	1.54	37	0.51	10.05	59	<0.5
Ei47		0.043	0.17	1.30	51	0.36	9.82	147	<0.5
Ei48		0.043	0.33	1.27	75	0.43	10.10	288	1.0
Ei49		0.040	0.24	1.09	67	0.36	9.42	261	<0.5
Ei50		0.043	0.11	0.71	47	0.34	12.55	149	1.1
Ei51		0.047	0.12	0.65	50	0.31	3.65	97	<0.5
Ei52		0.009	0.17	0.43	66	0.48	2.92	149	<0.5
Ei53		0.044	0.10	0.78	44	0.28	3.44	87	<0.5
Ei54		0.060	0.10	0.72	49	0.42	2.60	101	<0.5
F23		0.059	0.13	0.72	54	0.37	4.46	99	<0.5
F24		0.022	0.23	0.91	47	0.23	9.66	219	0.5
F25		0.084	0.18	0.80	66	0.38	9.59	107	0.8
F26		0.055	0.12	0.45	62	0.59	3.80	98	1.1
F27		0.064	0.19	0.80	52	0.29	10.15	97	<0.5
F28		0.064	0.25	0.79	60	0.28	13.90	120	3.7

Comments: Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).

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Finalized Date: 4-SEP-2007
Account: CHJAGO

Project: HAPPY SULLIVAN 2007

CERTIFICATE OF ANALYSIS VA07089987

Sample Description	Method	WEI-21	Au-AA23	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
F29		0.54	<0.005	0.27	1.44	86.8	<0.2	<10	80	0.59	0.21	0.43	0.33	30.10	12.8	22
F30		0.58	<0.005	0.23	1.34	96.1	<0.2	<10	100	0.27	0.39	0.12	0.37	16.70	5.6	25
F31		0.40	<0.005	0.16	0.62	19.1	<0.2	<10	80	0.21	0.32	0.25	0.40	12.90	7.9	11
F32		0.62	<0.005	0.11	1.50	47.7	<0.2	<10	90	0.35	0.32	0.35	0.19	14.15	11.4	27
F34		0.32	<0.005	0.07	1.66	79.4	<0.2	<10	100	0.46	0.43	0.28	0.47	16.75	10.3	28
F35		0.34	0.014	0.20	1.64	87.0	<0.2	<10	130	0.40	0.49	0.37	0.15	20.90	9.9	25
F36		0.58	0.005	0.14	1.52	52.7	<0.2	<10	70	0.57	0.35	0.33	0.54	31.20	12.6	30
F37		0.48	0.033	0.33	1.84	187.0	<0.2	<10	130	0.63	0.28	0.91	1.02	31.80	16.9	28
F38		0.38	0.013	0.27	1.88	133.5	<0.2	<10	80	0.59	0.30	0.23	0.15	19.10	12.6	27
F39		0.48	0.454	0.19	2.08	138.5	<0.2	<10	80	0.59	0.29	0.14	0.16	27.00	11.8	27
F40		0.54	0.028	0.11	1.92	128.0	<0.2	<10	110	0.69	0.30	0.29	0.26	28.90	11.6	26
F41		0.44	0.007	0.40	2.56	181.0	<0.2	<10	100	0.65	0.38	0.11	0.14	22.20	8.9	31
F42		0.30	0.007	0.55	2.31	92.0	<0.2	<10	120	1.14	0.32	1.21	0.67	44.20	15.6	27
F43		0.36	<0.005	0.23	1.27	70.1	<0.2	<10	220	0.51	0.33	0.33	1.35	17.80	34.6	20
F44		0.40	<0.005	0.11	1.74	138.5	<0.2	<10	110	0.55	0.24	0.56	0.14	18.60	10.5	33
F45		0.50	<0.005	0.16	1.21	105.0	<0.2	<10	70	0.35	0.31	0.33	0.35	14.95	10.1	25
F46		0.28	<0.005	0.18	1.23	103.0	<0.2	<10	90	0.45	0.52	0.76	0.50	26.70	11.0	19
F47		0.48	<0.005	0.39	1.29	164.0	<0.2	<10	130	0.46	0.47	0.32	0.27	18.30	9.7	21
F48		0.38	<0.005	0.11	1.65	107.0	<0.2	<10	90	0.51	0.43	0.19	0.11	22.40	6.6	23
F49		0.38	<0.005	0.21	0.97	24.0	<0.2	<10	130	0.28	0.31	0.25	0.93	13.15	16.4	29
F50		0.34	<0.005	0.07	1.35	185.0	<0.2	<10	90	0.41	0.30	0.41	0.31	14.95	12.9	26
F51		0.30	0.005	0.09	0.91	48.6	<0.2	<10	90	0.29	0.32	0.24	0.24	14.25	5.6	16
F52		0.58	<0.005	0.15	1.68	29.6	<0.2	<10	110	0.66	0.31	0.62	0.89	18.00	23.1	42
F53		0.40	0.025	0.36	1.53	507.0	<0.2	<10	70	0.46	0.22	0.34	0.94	20.40	16.8	30
F54		0.54	0.041	0.41	1.95	936.0	<0.2	<10	80	0.61	0.41	0.39	1.67	27.90	23.6	31
F55		0.64	<0.005	0.21	1.53	105.5	<0.2	<10	80	0.48	0.55	0.26	0.37	26.70	8.7	22
F56		0.58	<0.005	0.11	1.58	69.2	<0.2	<10	100	0.53	0.49	0.26	0.26	20.40	10.0	24
F57		0.48	<0.005	0.13	1.59	94.1	<0.2	<10	140	0.47	0.65	0.30	0.54	19.15	10.2	23
F58		0.46	<0.005	0.17	1.20	107.0	<0.2	<10	60	0.44	0.55	0.29	0.35	16.10	5.2	20
F59		0.62	<0.005	0.09	1.48	94.4	<0.2	<10	70	0.47	0.57	0.28	0.14	24.60	6.6	22
F60		0.54	<0.005	0.10	1.72	103.5	<0.2	<10	90	0.53	0.58	0.38	0.11	25.30	6.7	24
F61		0.56	<0.005	0.08	1.08	51.3	<0.2	<10	50	0.37	0.31	0.19	0.27	11.65	6.1	20
F62		0.44	<0.005	0.30	1.24	138.5	<0.2	<10	120	0.48	0.34	0.29	0.37	18.85	21.5	22
F63		0.36	<0.005	0.15	1.39	59.9	<0.2	<10	100	0.39	0.26	0.21	0.26	13.00	12.6	35
F64		0.70	0.019	0.14	1.79	113.0	<0.2	<10	90	0.97	0.19	0.59	0.13	17.65	12.9	51
F65		0.76	0.014	0.30	1.59	134.0	<0.2	<10	50	0.54	0.27	0.27	0.13	14.70	11.0	34
F66		0.52	<0.005	0.25	1.38	62.2	<0.2	<10	100	0.35	0.23	0.23	0.29	14.90	9.3	24
F67		0.24	<0.005	0.13	1.27	60.8	<0.2	<10	90	0.50	0.28	0.36	0.90	13.55	17.3	33
F68		0.30	<0.005	0.34	1.14	104.0	<0.2	<10	160	0.44	0.36	0.38	1.47	18.05	23.8	19
F69		0.28	<0.005	0.29	1.02	72.3	<0.2	<10	110	0.29	0.39	0.42	0.71	13.25	10.1	17

Comments: Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).

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CERTIFICATE OF ANALYSIS VA07089987

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
F29		2.71	43.5	3.11	5.97	0.10	0.03	0.02	0.030	0.11	15.3	21.7	0.57	405	1.13	0.02
F30		2.43	26.6	2.60	7.89	0.07	<0.02	0.02	0.026	0.10	9.0	13.5	0.43	183	1.35	0.01
F31		3.14	10.4	1.39	5.10	0.05	<0.02	0.01	0.014	0.10	6.7	5.9	0.14	156	0.77	0.01
F32		4.32	23.7	2.53	7.53	0.06	<0.02	0.01	0.029	0.14	7.4	37.6	0.55	333	0.91	0.01
F34		4.71	17.2	3.07	9.38	0.07	0.02	0.01	0.031	0.12	8.6	27.8	0.54	298	1.22	0.01
F35		3.09	19.9	2.95	7.55	0.07	0.04	0.01	0.038	0.14	10.6	31.6	0.55	352	1.14	0.02
F36		1.73	56.7	4.09	7.70	0.11	0.13	0.01	0.040	0.12	15.4	15.3	0.65	399	8.38	0.02
F37		4.97	66.3	3.43	7.47	0.09	0.05	0.03	0.042	0.24	16.0	24.0	0.66	542	1.63	0.05
F38		4.43	33.7	3.16	8.21	0.07	0.06	0.01	0.034	0.24	9.7	24.9	0.57	255	1.59	0.01
F39		4.82	51.2	3.33	8.15	0.08	0.04	0.01	0.037	0.13	13.5	25.7	0.60	304	1.48	0.01
F40		4.73	45.9	3.20	8.07	0.09	0.02	0.02	0.038	0.20	14.4	26.6	0.58	384	1.25	0.02
F41		5.71	38.1	3.59	10.15	0.07	0.08	0.02	0.044	0.15	11.6	26.4	0.55	236	1.71	0.01
F42		4.92	110.0	2.89	7.77	0.11	0.02	0.03	0.040	0.10	31.0	20.5	0.51	792	2.23	0.02
F43		18.35	20.0	2.88	7.76	0.06	<0.02	0.01	0.032	0.13	7.8	15.8	0.32	1590	1.17	0.02
F44		5.26	35.5	3.23	7.96	0.06	<0.02	0.01	0.033	0.08	9.5	31.4	0.58	249	1.30	0.02
F45		4.63	16.9	2.67	7.21	0.05	<0.02	0.01	0.025	0.13	8.2	20.5	0.42	195	1.27	0.01
F46		12.70	42.4	2.17	6.05	0.06	<0.02	0.03	0.033	0.11	13.2	21.8	0.40	697	0.87	0.02
F47		5.88	28.6	2.67	6.70	0.06	<0.02	0.01	0.033	0.11	9.1	22.5	0.42	354	0.91	0.02
F48		2.52	20.8	2.60	7.19	0.07	0.02	0.01	0.033	0.14	10.7	20.9	0.44	249	1.02	0.01
F49		18.85	19.0	2.70	8.24	0.06	<0.02	0.01	0.023	0.09	7.1	14.8	0.41	268	1.07	0.01
F50		6.80	43.4	3.38	6.66	0.05	0.02	0.01	0.037	0.14	7.8	29.2	0.53	278	1.92	0.01
F51		2.97	8.6	1.89	6.01	0.05	0.03	0.01	0.018	0.08	8.1	14.0	0.28	146	0.92	0.01
F52		21.50	44.3	4.05	9.62	0.06	<0.02	0.02	0.043	0.10	8.5	30.9	0.62	682	1.40	0.01
F53		4.64	111.0	4.18	6.56	0.11	0.03	0.01	0.047	0.13	10.2	27.7	0.89	544	5.93	0.02
F54		5.52	179.5	5.03	7.51	0.09	0.03	0.02	0.078	0.23	14.0	31.2	0.91	707	10.60	0.02
F55		4.48	21.4	2.68	7.03	0.07	0.02	0.01	0.035	0.11	13.5	19.1	0.48	316	0.93	0.02
F56		5.48	36.9	3.08	7.07	0.07	<0.02	0.01	0.038	0.16	9.8	22.0	0.56	298	0.99	0.01
F57		7.52	22.5	2.72	8.04	0.06	<0.02	0.01	0.037	0.13	9.7	26.5	0.46	359	1.22	0.01
F58		7.20	19.0	2.86	8.48	<0.05	0.02	0.01	0.037	0.10	8.2	15.8	0.32	271	1.37	0.01
F59		3.21	17.3	2.50	6.76	0.05	0.03	0.01	0.036	0.12	11.4	22.3	0.44	274	1.06	0.02
F60		3.82	21.3	2.68	7.26	0.06	0.03	0.01	0.039	0.12	12.6	27.3	0.50	276	1.14	0.02
F61		6.37	15.7	2.36	6.20	<0.05	<0.02	<0.01	0.025	0.08	5.9	18.1	0.33	235	0.94	0.01
F62		4.97	30.6	2.81	7.02	0.05	0.02	0.01	0.032	0.17	9.3	18.3	0.36	628	1.40	0.01
F63		5.12	28.4	3.47	7.80	<0.05	0.02	0.01	0.030	0.09	6.5	26.5	0.52	256	1.09	0.01
F64		19.05	152.0	3.57	6.81	0.08	0.03	0.05	0.040	0.09	17.3	34.0	0.86	271	0.61	0.03
F65		6.82	25.7	3.54	8.27	0.05	0.07	0.02	0.036	0.10	7.3	28.1	0.55	243	1.44	0.01
F66		2.54	21.1	2.96	7.52	0.05	0.03	0.01	0.027	0.13	7.9	20.3	0.47	216	2.70	0.01
F67		10.50	30.6	3.07	7.19	0.05	0.02	0.01	0.030	0.12	6.6	16.8	0.59	448	1.18	0.02
F68		4.53	36.1	3.02	6.03	0.05	<0.02	0.01	0.034	0.14	8.0	18.0	0.38	1540	1.73	0.02
F69		3.59	16.6	2.45	5.88	<0.05	<0.02	0.01	0.025	0.11	6.6	18.4	0.34	341	1.50	0.01

Comments: Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).

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To: CHRISTOPHER JAMES GOLD CORP.
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Finalized Date: 4-SEP-2007
Account: CHJAGO

Project: HAPPY SULLIVAN 2007

CERTIFICATE OF ANALYSIS VA07089987

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
F29		0.98	20.3	880	12.4	10.6	<0.001	0.03	4.35	5.8	0.8	0.4	38.2	<0.01	0.02	4.6
F30		0.65	14.6	510	7.9	19.9	<0.001	0.03	3.30	2.3	0.5	0.6	18.6	<0.01	0.03	0.2
F31		1.26	5.8	250	10.5	24.2	<0.001	0.02	1.50	2.2	0.3	0.7	32.4	<0.01	0.01	1.8
F32		1.17	17.5	390	10.0	28.0	<0.001	0.02	2.12	4.5	0.5	0.6	45.4	<0.01	0.02	1.2
F34		2.28	14.7	240	10.4	34.3	<0.001	0.02	2.28	5.3	0.5	0.9	31.1	<0.01	0.03	3.8
F35		1.93	15.9	300	11.3	30.9	<0.001	0.02	2.87	5.9	0.7	0.9	36.8	<0.01	0.03	4.2
F36		0.79	19.7	780	15.7	12.1	<0.001	0.04	3.46	6.9	1.0	0.4	31.4	<0.01	0.22	4.6
F37		1.39	32.4	710	12.3	19.1	<0.001	0.02	8.38	8.2	1.0	0.6	70.2	<0.01	0.04	4.6
F38		1.38	24.0	390	10.6	29.6	<0.001	0.01	4.72	5.6	0.6	0.7	21.8	<0.01	0.03	3.9
F39		1.20	25.9	490	11.0	19.6	<0.001	0.02	5.32	6.5	0.8	0.6	11.7	<0.01	0.03	4.7
F40		1.17	21.0	840	11.4	19.5	<0.001	0.02	5.30	6.0	0.8	0.6	24.5	<0.01	0.03	2.4
F41		1.76	21.1	330	12.8	22.8	<0.001	0.02	5.34	6.9	0.8	1.0	19.0	<0.01	0.03	5.5
F42		1.04	28.4	1200	11.9	16.8	0.001	0.08	3.26	4.9	2.7	0.5	116.5	0.01	0.03	1.1
F43		0.92	15.5	440	13.6	37.6	<0.001	0.02	3.14	2.6	0.5	0.7	43.6	<0.01	0.03	0.5
F44		1.04	23.6	470	10.3	15.5	<0.001	0.04	4.50	5.3	0.9	0.5	74.1	<0.01	0.03	1.7
F45		1.32	15.2	250	9.7	29.4	<0.001	0.03	3.09	4.0	0.5	0.6	36.4	<0.01	0.03	2.4
F46		1.26	14.3	680	11.1	25.4	<0.001	0.04	1.94	3.7	0.8	0.7	86.9	<0.01	0.02	1.2
F47		1.44	18.4	310	11.8	24.2	<0.001	0.03	3.53	4.4	0.5	0.7	45.4	<0.01	0.03	2.3
F48		1.46	15.4	650	10.7	15.9	<0.001	0.02	1.64	4.4	0.5	0.7	20.5	<0.01	0.03	3.8
F49		1.10	16.2	340	10.1	25.2	<0.001	0.02	1.35	3.2	0.4	0.7	31.7	<0.01	0.04	1.7
F50		0.85	22.4	390	10.5	32.6	<0.001	0.02	6.40	4.9	0.7	0.5	48.9	<0.01	0.04	2.3
F51		1.49	8.5	180	7.7	24.9	<0.001	0.02	1.26	2.8	0.3	0.9	33.8	<0.01	0.02	2.9
F52		1.19	28.0	760	13.6	26.0	<0.001	0.05	2.32	5.6	0.9	0.6	50.4	<0.01	0.05	1.3
F53		0.50	32.0	920	34.6	11.2	<0.001	0.04	25.20	6.1	1.2	0.3	37.6	<0.01	0.06	2.5
F54		0.77	40.7	1010	57.6	16.8	<0.001	0.08	32.90	6.8	1.9	0.4	66.0	<0.01	0.10	2.9
F55		1.70	16.1	350	12.0	19.0	<0.001	0.02	2.36	4.9	0.5	1.0	27.1	<0.01	0.03	4.4
F56		1.06	24.8	650	13.2	21.2	<0.001	0.02	1.81	4.3	0.7	0.7	28.1	<0.01	0.04	1.8
F57		1.58	15.6	320	13.1	25.2	<0.001	0.02	1.97	4.3	0.5	1.0	39.7	<0.01	0.03	2.7
F58		1.66	10.0	380	12.4	20.0	<0.001	0.01	1.67	2.9	0.5	0.9	35.2	0.01	0.04	1.2
F59		1.87	13.5	270	11.4	20.4	<0.001	0.01	1.29	4.4	0.4	0.8	34.5	0.01	0.03	4.0
F60		1.79	15.8	270	11.2	19.2	<0.001	0.02	1.70	4.9	0.6	0.8	55.0	0.01	0.03	3.4
F61		0.88	10.9	340	7.6	18.1	<0.001	0.01	1.45	2.0	0.3	0.6	23.4	<0.01	0.02	0.3
F62		1.43	17.0	390	13.4	28.5	<0.001	0.01	2.86	4.1	0.5	0.6	37.9	<0.01	0.03	2.0
F63		1.01	24.3	410	11.5	19.5	<0.001	0.01	3.28	4.2	0.5	0.5	30.0	<0.01	0.04	1.6
F64		0.57	57.3	630	11.2	10.5	0.001	0.03	4.36	20.5	1.5	0.3	71.5	0.01	0.04	1.4
F65		1.63	21.9	170	9.6	20.2	<0.001	0.01	3.23	5.2	0.6	0.5	34.1	<0.01	0.03	2.9
F66		1.32	13.1	350	10.3	22.3	<0.001	0.01	2.32	4.2	0.4	0.5	25.7	<0.01	0.07	1.9
F67		0.99	27.3	420	11.1	20.6	<0.001	0.02	3.56	4.1	0.5	0.4	37.8	<0.01	0.04	1.4
F68		0.90	22.6	810	13.8	31.4	<0.001	0.03	5.11	2.7	0.5	0.5	48.9	<0.01	0.04	0.6
F69		1.34	11.7	310	11.0	31.9	<0.001	0.02	2.61	2.8	0.4	0.6	55.5	<0.01	0.03	1.0

Comments: Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).

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Finalized Date: 4-SEP-2007
Account: CHJAGO

Project: HAPPY SULLIVAN 2007

CERTIFICATE OF ANALYSIS VA07089987

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
F29		0.047	0.12	0.88	44	0.25	10.35	84	1.0
F30		0.040	0.13	0.62	54	0.39	3.95	61	<0.5
F31		0.037	0.11	0.73	32	0.34	2.16	61	<0.5
F32		0.053	0.12	0.61	53	0.68	3.49	182	<0.5
F34		0.072	0.15	0.66	61	0.37	3.84	135	0.8
F35		0.059	0.12	0.72	48	0.31	5.28	79	1.4
F36		0.065	0.10	0.93	61	0.38	11.75	109	4.8
F37		0.062	0.20	1.05	52	0.32	13.40	118	1.6
F38		0.058	0.16	0.64	56	0.31	5.26	76	2.0
F39		0.051	0.18	1.05	54	0.31	7.86	79	1.0
F40		0.057	0.17	0.90	54	0.31	10.55	92	<0.5
F41		0.066	0.20	0.78	65	0.42	6.26	62	2.4
F42		0.038	0.17	3.77	51	0.29	24.00	98	<0.5
F43		0.044	0.16	0.50	56	0.41	3.10	166	<0.5
F44		0.033	0.12	0.78	65	0.28	5.83	61	<0.5
F45		0.049	0.11	0.49	59	0.34	3.11	82	0.5
F46		0.042	0.13	1.05	37	0.26	9.55	67	<0.5
F47		0.042	0.13	0.72	46	0.40	4.50	61	<0.5
F48		0.054	0.14	0.82	46	0.33	5.95	53	<0.5
F49		0.036	0.07	0.41	74	0.69	2.08	117	<0.5
F50		0.015	0.13	0.43	53	0.30	2.97	79	0.6
F51		0.047	0.10	0.50	45	0.37	3.07	38	0.9
F52		0.031	0.10	0.73	85	1.14	5.89	122	<0.5
F53		0.033	0.13	0.62	54	0.33	8.32	166	1.0
F54		0.038	0.18	0.97	59	0.48	11.40	242	0.9
F55		0.057	0.15	0.76	46	0.34	6.26	60	<0.5
F56		0.043	0.14	0.71	48	0.91	4.60	71	<0.5
F57		0.047	0.15	0.81	49	0.40	4.02	125	<0.5
F58		0.054	0.11	0.75	51	0.40	3.17	84	<0.5
F59		0.050	0.13	0.92	43	0.40	6.05	51	0.6
F60		0.048	0.15	1.02	48	0.36	7.50	58	0.6
F61		0.033	0.11	0.54	44	0.36	2.42	89	<0.5
F62		0.044	0.10	0.89	55	0.34	4.47	101	<0.5
F63		0.020	0.08	0.39	66	0.36	2.16	75	<0.5
F64		0.029	0.13	0.59	68	0.40	28.70	62	0.5
F65		0.058	0.11	0.55	65	0.43	4.20	77	2.0
F66		0.038	0.11	0.42	55	0.40	3.04	124	0.9
F67		0.035	0.09	0.49	63	0.39	2.95	109	<0.5
F68		0.031	0.10	0.65	42	0.31	4.12	174	<0.5
F69		0.041	0.09	0.50	44	0.34	2.57	69	<0.5

Comments: Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).

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Finalized Date: 4-SEP-2007
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Project: HAPPY SULLIVAN 2007

CERTIFICATE OF ANALYSIS VA07089987

Sample Description	Method	WEI-21	Au-AA23	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
F70		0.32	<0.005	0.17	0.64	19.7	<0.2	<10	120	0.18	0.37	0.47	0.84	12.00	7.9	11
F71		0.34	<0.005	0.11	0.91	29.7	<0.2	<10	130	0.42	0.31	0.26	0.48	13.85	8.9	14
F72		0.30	<0.005	0.15	0.96	58.4	<0.2	<10	120	0.27	0.36	0.34	0.69	14.50	8.5	19
F73		0.40	<0.005	0.18	0.69	46.2	<0.2	<10	110	0.22	0.36	0.31	0.61	11.80	5.8	13
F74		0.34	0.010	0.36	1.36	172.5	<0.2	<10	90	0.45	0.27	0.27	0.35	13.15	9.2	24
F75		0.32	<0.005	0.09	0.88	63.7	<0.2	<10	80	0.29	0.39	0.48	0.71	14.95	7.4	17
F76		0.34	0.005	0.17	1.51	105.5	<0.2	<10	90	0.47	0.52	0.36	0.24	17.75	8.8	23
F77		0.46	<0.005	0.21	1.34	107.5	<0.2	<10	140	0.50	0.48	0.51	0.35	26.60	9.1	20
F78		0.34	<0.005	0.33	1.21	171.5	<0.2	<10	110	0.49	0.48	0.58	0.54	21.60	10.5	20
F79		0.32	<0.005	0.12	0.81	41.8	<0.2	<10	100	0.25	0.47	0.25	0.25	13.70	5.6	15
F80		0.30	<0.005	0.21	0.91	63.6	<0.2	<10	140	0.28	0.39	0.33	0.61	15.25	19.8	17
F81		0.22	<0.005	0.17	0.94	52.3	<0.2	<10	130	0.29	0.34	0.50	0.52	14.85	15.1	16
F82		0.34	<0.005	0.34	1.08	78.9	<0.2	<10	100	0.33	0.36	0.44	0.61	12.65	11.4	18
F83		0.40	<0.005	0.30	1.36	78.9	<0.2	<10	110	0.44	0.36	0.42	0.38	16.90	11.3	22
Si1		0.58	<0.005	0.06	0.66	55.2	<0.2	<10	60	0.22	0.31	0.31	0.56	12.05	4.1	14
Si2		0.40	<0.005	0.08	1.07	140.5	<0.2	<10	60	0.41	0.45	0.32	0.60	20.90	8.8	20
Si3		0.56	0.014	0.19	1.21	58.6	<0.2	<10	170	0.34	0.40	0.37	0.44	20.60	9.9	22
Si4		0.46	0.005	0.22	1.38	80.7	<0.2	<10	140	0.46	0.36	0.39	0.48	15.65	17.2	31
Si5		0.52	<0.005	0.17	1.23	98.1	<0.2	<10	90	0.41	0.52	0.47	0.36	17.05	6.9	21
Si6		0.52	<0.005	0.10	1.18	67.5	<0.2	<10	90	0.43	0.39	0.22	0.19	15.70	6.7	21
Si7		0.52	<0.005	0.18	1.31	47.2	<0.2	<10	110	0.57	0.39	0.72	1.12	16.00	22.6	33
Si8		0.44	<0.005	0.16	1.47	162.0	<0.2	<10	90	0.71	0.65	0.34	0.29	25.00	9.8	24
Si9		0.44	<0.005	0.29	1.58	90.0	<0.2	<10	120	0.58	0.56	0.57	0.44	25.60	12.5	23
Si10		0.52	0.010	0.45	1.77	96.9	<0.2	10	140	0.78	0.39	1.70	0.79	31.10	13.8	26
Si11		0.42	<0.005	0.11	1.05	72.5	<0.2	<10	50	0.34	0.47	0.23	0.32	13.70	5.0	19
Si12		0.60	0.040	0.37	1.51	470.0	<0.2	<10	100	0.59	0.59	1.00	0.27	31.20	6.2	22
Si13		0.50	0.015	0.12	1.32	150.0	<0.2	<10	70	0.58	0.58	0.66	0.14	41.70	7.1	20
Si14		0.44	0.006	0.07	1.34	107.5	<0.2	<10	80	0.39	0.75	0.23	0.16	17.65	5.4	23
Si15		0.50	<0.005	0.14	0.81	43.9	<0.2	<10	140	0.28	0.52	0.20	0.54	14.85	11.1	15
Si16		0.62	<0.005	0.24	1.02	66.5	<0.2	<10	90	0.37	0.50	0.26	0.78	17.50	8.1	19
Si17		0.52	<0.005	0.29	0.63	41.0	<0.2	<10	60	0.22	0.35	0.16	0.32	13.95	3.1	13
Si18		0.46	<0.005	0.11	1.04	81.1	<0.2	<10	70	0.31	0.42	0.19	0.21	14.40	3.7	20
Si19		0.50	<0.005	0.10	1.28	121.5	<0.2	<10	130	0.34	0.45	0.29	0.12	17.75	5.6	24
Si20		0.44	0.010	0.20	1.82	113.5	<0.2	<10	140	0.61	0.28	0.37	0.64	25.70	10.1	27

Comments: Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).

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To: CHRISTOPHER JAMES GOLD CORP.
410 - 1111 MELVILLE ST.
VANCOUVER BC V6E 3V6

Finalized Date: 4-SEP-2007
Account: CHJAGO

Project: HAPPY SULLIVAN 2007

CERTIFICATE OF ANALYSIS VA07089987

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
F70		4.58	7.4	1.65	5.46	<0.05	<0.02	0.01	0.016	0.08	6.2	6.6	0.18	547	0.96	0.01
F71		3.37	8.4	1.82	5.27	<0.05	<0.02	0.02	0.019	0.09	6.9	10.1	0.21	635	0.91	0.02
F72		3.63	10.3	2.24	6.67	0.05	0.02	0.01	0.024	0.14	7.5	24.7	0.35	446	0.85	0.01
F73		3.50	7.8	1.76	5.10	<0.05	<0.02	0.01	0.016	0.14	6.6	10.0	0.21	283	1.11	0.01
F74		3.23	16.2	2.55	7.13	0.05	<0.02	0.01	0.024	0.09	6.7	17.9	0.41	309	0.94	0.02
F75		2.78	13.5	2.02	6.40	<0.05	<0.02	0.01	0.021	0.10	7.9	14.4	0.28	184	0.85	0.01
F76		3.85	18.9	2.56	7.30	0.05	0.02	0.01	0.034	0.10	9.0	26.3	0.45	249	1.19	0.02
F77		4.79	27.2	2.31	6.02	0.06	<0.02	0.01	0.034	0.15	12.3	23.2	0.39	574	0.96	0.02
F78		7.61	49.6	2.29	5.81	0.06	<0.02	0.01	0.032	0.12	10.4	22.4	0.40	465	1.33	0.02
F79		3.29	8.7	1.70	5.08	0.05	<0.02	0.01	0.022	0.10	7.1	11.0	0.26	214	0.97	0.02
F80		3.57	9.8	2.18	6.49	<0.05	<0.02	0.01	0.022	0.11	7.0	10.4	0.25	1140	1.20	0.02
F81		3.74	12.4	2.14	5.64	<0.05	<0.02	0.01	0.023	0.16	7.1	15.9	0.30	1240	1.58	0.02
F82		3.61	25.2	2.58	6.03	<0.05	<0.02	0.01	0.028	0.18	6.3	27.5	0.34	299	1.37	0.01
F83		3.12	21.8	2.61	6.77	0.05	<0.02	0.01	0.029	0.08	9.0	27.4	0.42	492	1.13	0.02
Si1		3.36	15.7	1.98	5.56	<0.05	<0.02	0.01	0.020	0.11	6.4	8.2	0.19	113	1.60	0.01
Si2		4.49	26.7	2.66	6.07	0.06	<0.02	0.01	0.030	0.10	9.9	18.7	0.37	308	1.35	0.01
Si3		4.82	12.2	2.59	7.65	0.05	<0.02	0.01	0.025	0.12	11.2	18.3	0.37	468	1.24	0.02
Si4		7.46	35.1	3.35	7.76	0.05	<0.02	0.01	0.033	0.11	7.7	21.4	0.45	868	1.35	0.02
Si5		5.86	18.8	2.63	6.78	0.05	<0.02	0.01	0.032	0.12	8.8	24.3	0.40	261	1.20	0.01
Si6		3.24	10.8	2.24	6.67	0.05	<0.02	0.01	0.024	0.11	8.9	18.7	0.34	155	1.03	0.01
Si7		23.70	31.6	3.45	7.75	0.05	<0.02	0.02	0.040	0.12	7.6	21.9	0.50	826	1.29	0.02
Si8		9.12	24.7	2.92	7.46	0.06	<0.02	0.01	0.040	0.14	11.6	33.6	0.40	360	1.18	0.02
Si9		5.20	27.3	2.66	7.18	0.06	0.02	0.01	0.035	0.13	12.2	26.8	0.47	535	1.13	0.02
Si10		17.40	113.0	2.85	4.99	0.07	0.03	0.04	0.038	0.09	17.4	39.8	0.55	713	0.76	0.04
Si11		2.88	11.7	2.21	7.14	<0.05	<0.02	0.01	0.025	0.12	7.1	13.3	0.28	149	1.16	0.01
Si12		9.37	52.5	2.39	5.66	0.06	0.03	0.02	0.038	0.10	14.3	43.8	0.50	231	0.79	0.03
Si13		3.25	24.3	2.35	5.49	0.07	0.03	0.01	0.036	0.10	19.6	30.7	0.41	366	0.84	0.03
Si14		2.91	15.0	2.55	7.39	0.05	0.05	0.01	0.031	0.12	9.3	24.5	0.41	199	1.04	0.02
Si15		1.97	12.7	1.86	6.10	0.05	<0.02	0.01	0.021	0.11	7.3	10.3	0.22	1250	0.98	0.02
Si16		4.10	13.3	2.24	6.90	0.05	<0.02	0.01	0.024	0.10	9.1	15.3	0.30	282	1.78	0.01
Si17		2.90	8.5	1.35	5.70	0.05	<0.02	0.01	0.017	0.10	7.3	6.9	0.17	102	0.89	0.01
Si18		2.34	11.7	2.50	8.71	0.06	<0.02	0.02	0.027	0.11	7.5	14.3	0.30	155	1.76	0.01
Si19		2.50	11.5	2.34	7.90	0.05	0.02	0.01	0.028	0.14	9.2	37.3	0.39	264	1.47	0.01
Si20		3.06	32.5	2.86	7.47	0.07	0.02	0.01	0.034	0.17	12.5	24.5	0.53	308	1.14	0.02

Comments: Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).

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CERTIFICATE OF ANALYSIS VA07089987

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
F70		1.39	5.8	290	10.4	20.3	<0.001	0.01	1.06	1.6	0.2	0.7	54.8	<0.01	0.02	0.7
F71		1.35	8.7	360	9.1	23.2	<0.001	0.01	1.02	2.1	0.2	0.6	39.0	<0.01	0.02	1.7
F72		1.78	10.8	360	9.9	28.8	<0.001	0.01	1.59	3.2	0.3	0.7	35.6	<0.01	0.02	2.2
F73		1.46	9.5	250	8.6	36.9	<0.001	0.01	1.46	2.3	0.3	0.6	43.8	<0.01	0.02	2.2
F74		1.20	20.3	310	10.3	18.9	<0.001	0.02	2.93	3.5	0.3	0.5	43.5	<0.01	0.03	1.2
F75		1.69	8.3	310	10.1	18.9	<0.001	0.02	1.48	2.4	0.4	0.7	73.9	<0.01	0.02	0.9
F76		1.71	14.9	270	10.2	20.9	<0.001	0.02	1.66	4.3	0.4	0.8	55.0	<0.01	0.02	2.3
F77		1.33	16.5	510	10.5	24.1	<0.001	0.02	1.84	3.6	0.5	0.7	68.2	<0.01	0.02	1.5
F78		1.39	20.3	500	10.8	25.7	<0.001	0.03	2.36	2.9	0.5	0.7	74.5	<0.01	0.02	0.9
F79		1.49	7.1	300	8.9	36.9	<0.001	0.01	0.96	2.5	0.2	0.7	32.0	<0.01	0.02	1.8
F80		1.41	7.2	330	11.5	27.1	<0.001	0.02	1.36	2.6	0.3	0.7	46.1	<0.01	0.02	1.3
F81		1.30	9.0	390	10.3	36.6	<0.001	0.02	1.82	2.5	0.4	0.6	54.4	<0.01	0.02	1.1
F82		1.15	16.1	520	11.0	26.9	<0.001	0.02	2.83	2.7	0.4	0.6	58.2	<0.01	0.02	0.9
F83		1.06	14.8	440	9.8	19.7	<0.001	0.02	1.95	2.6	0.4	0.6	57.2	<0.01	0.02	0.5
Si1		1.29	7.5	280	6.8	35.7	<0.001	0.02	2.51	2.2	0.4	0.6	51.0	<0.01	0.02	0.7
Si2		1.09	17.0	610	11.2	24.3	<0.001	0.03	2.85	2.9	0.5	0.5	42.4	<0.01	0.03	0.9
Si3		1.62	11.7	390	11.1	29.8	<0.001	0.02	1.37	3.3	0.3	0.7	42.3	<0.01	0.03	1.8
Si4		1.14	24.2	500	12.5	28.9	<0.001	0.02	2.62	3.9	0.5	0.6	38.2	<0.01	0.04	1.2
Si5		1.32	14.6	580	11.0	33.0	<0.001	0.02	2.05	3.1	0.4	0.7	59.0	<0.01	0.03	1.1
Si6		1.54	11.4	270	9.0	27.7	<0.001	0.02	1.24	3.2	0.3	0.7	33.2	<0.01	0.02	2.1
Si7		1.17	20.8	730	14.5	24.1	<0.001	0.04	1.81	3.1	0.6	0.6	69.8	<0.01	0.03	0.4
Si8		1.48	16.4	390	13.7	24.2	<0.001	0.03	1.79	3.5	0.5	0.8	49.2	<0.01	0.03	1.2
Si9		1.77	18.5	390	12.2	25.0	<0.001	0.02	1.83	4.3	0.5	0.8	76.8	<0.01	0.02	2.0
Si10		0.85	41.5	1530	12.5	14.5	<0.001	0.10	4.66	9.8	2.2	0.5	197.5	0.01	0.02	0.9
Si11		1.60	8.2	260	10.5	30.6	<0.001	0.02	1.22	2.8	0.3	0.9	35.6	<0.01	0.02	1.2
Si12		1.27	25.2	650	10.1	18.0	0.002	0.08	3.88	5.1	1.8	0.7	99.6	<0.01	0.02	2.3
Si13		1.43	13.3	480	11.2	20.1	<0.001	0.05	1.92	4.1	0.9	0.7	68.4	<0.01	0.02	3.2
Si14		1.97	10.8	240	9.8	23.0	<0.001	0.03	1.33	4.6	0.3	1.0	39.5	<0.01	0.02	4.2
Si15		1.27	7.9	440	10.1	29.0	<0.001	0.02	0.93	2.2	0.2	0.8	28.8	<0.01	0.02	0.8
Si16		1.43	8.9	270	10.5	27.2	<0.001	0.02	1.31	3.1	0.3	0.8	36.2	0.01	0.02	1.5
Si17		1.41	4.6	200	8.3	33.1	<0.001	0.02	1.01	2.1	0.2	0.8	23.9	<0.01	0.01	1.1
Si18		1.48	7.8	430	9.4	22.7	<0.001	0.03	1.32	2.9	0.4	0.8	27.8	<0.01	0.03	1.1
Si19		1.70	9.4	300	7.6	22.7	<0.001	0.03	1.56	4.6	0.4	0.8	33.0	<0.01	0.02	2.7
Si20		1.42	17.6	760	9.5	18.7	<0.001	0.02	3.29	5.8	0.5	0.6	38.7	<0.01	0.02	2.7

Comments: Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).

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CERTIFICATE OF ANALYSIS VA07089987

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
F70		0.048	0.07	0.44	37	0.52	1.93	78	<0.5
F71		0.040	0.11	0.52	37	0.33	2.59	60	<0.5
F72		0.060	0.10	0.50	50	0.38	2.60	124	0.5
F73		0.040	0.10	0.48	38	0.33	2.05	60	<0.5
F74		0.035	0.11	0.46	56	0.37	2.55	101	<0.5
F75		0.056	0.07	0.78	47	0.72	3.23	73	<0.5
F76		0.046	0.14	0.68	47	0.35	3.71	76	<0.5
F77		0.043	0.12	0.92	37	0.28	7.31	61	<0.5
F78		0.045	0.11	0.85	37	0.32	5.30	108	<0.5
F79		0.044	0.10	0.44	32	0.38	2.67	47	<0.5
F80		0.048	0.11	0.58	49	0.39	2.44	80	<0.5
F81		0.046	0.12	0.53	42	0.30	2.56	111	<0.5
F82		0.030	0.11	0.62	41	0.34	2.39	136	<0.5
F83		0.037	0.10	0.71	46	0.32	3.04	78	<0.5
Si1		0.043	0.08	0.45	43	0.47	2.36	58	<0.5
Si2		0.037	0.09	0.83	41	0.31	5.22	91	<0.5
Si3		0.054	0.11	0.67	58	0.38	3.01	116	<0.5
Si4		0.029	0.12	0.57	64	1.48	3.34	132	<0.5
Si5		0.039	0.12	0.59	44	0.34	2.94	82	<0.5
Si6		0.048	0.11	0.58	48	0.41	3.66	69	<0.5
Si7		0.036	0.09	0.68	67	0.53	3.99	189	<0.5
Si8		0.045	0.11	0.99	47	0.36	5.98	77	<0.5
Si9		0.049	0.13	0.82	45	0.58	5.86	71	<0.5
Si10		0.026	0.16	0.79	35	0.18	26.90	76	<0.5
Si11		0.045	0.12	0.60	49	0.60	2.50	50	<0.5
Si12		0.041	0.19	1.07	33	0.62	11.35	62	0.6
Si13		0.041	0.14	1.15	37	0.37	11.90	47	0.6
Si14		0.057	0.15	0.63	49	0.49	3.80	60	1.5
Si15		0.047	0.11	0.64	36	0.35	2.59	78	<0.5
Si16		0.052	0.12	0.70	47	0.57	3.53	71	<0.5
Si17		0.048	0.10	0.72	32	0.41	2.42	44	<0.5
Si18		0.056	0.11	0.68	55	0.45	2.69	52	<0.5
Si19		0.051	0.13	0.73	47	0.41	3.39	58	<0.5
Si20		0.056	0.12	0.92	54	0.35	7.43	102	<0.5

Comments: Gold determinations by ME-MS41 are semi-quantitative due to the small sample weight used (0.5g).

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Fire Assay Procedure – Au-AA23 & Au-AA24
Fire Assay Fusion, AAS Finish

Sample Decomposition: Fire Assay Fusion (FA-FUS01 & FA-FUS02)
Analytical Method: Atomic Absorption Spectroscopy (AAS)

A prepared sample is fused with a mixture of lead oxide, sodium carbonate, borax, silica and other reagents as required, inquarted with 6 mg of gold-free silver and then cupelled to yield a precious metal bead.

The bead is digested in 0.5 mL dilute nitric acid in the microwave oven, 0.5 mL concentrated hydrochloric acid is then added and the bead is further digested in the microwave at a lower power setting. The digested solution is cooled, diluted to a total volume of 4 mL with de-mineralized water, and analyzed by atomic absorption spectroscopy against matrix-matched standards.

Method Code	Element	Symbol	Units	Sample Weight (g)	Lower Limit	Upper Limit	Default Overlimit Method
Au-AA23	Gold	Au	ppm	30	0.005	10.0	Au-GRA21
Au-AA24	Gold	Au	ppm	50	0.005	10.0	Au-GRA22

ALS Chemex

Geochemical Procedure – ME-MS41
Ultra-Trace Level Methods Using ICP-MS and ICP-AES

Sample Decomposition: Aqua Regia Digestion (GEO-AR01)
Analytical Method: Inductively Coupled Plasma-Atomic Emission Spectroscopy (ICP-AES)
Inductively Coupled Plasma - Mass Spectrometry (ICP-MS)

A prepared sample (0.50 g) is digested with aqua regia in a graphite heating block. After cooling, the resulting solution is diluted to with deionized water, mixed and analyzed by inductively coupled plasma-atomic emission spectrometry. Following this analysis, the results are reviewed for high concentrations of bismuth, mercury, molybdenum, silver and tungsten and diluted accordingly. Samples are then analysed by ICP-MS for the remaining suite of elements. The analytical results are corrected for inter-element spectral interferences.

Element	Symbol	Units	Lower Limit	Upper Limit
Silver	Ag	ppm	0.01	100
Aluminum	Al	%	0.01	25
Arsenic	As	ppm	0.1	10 000
Gold	Au	ppm	0.2	25
Boron	B	ppm	10	10 000
Barium	Ba	ppm	10	10 000
Beryllium	Be	ppm	0.05	1 000
Bismuth	Bi	ppm	0.01	10 000
Calcium	Ca	%	0.01	25
Cadmium	Cd	ppm	0.01	1 000
Cerium	Ce	ppm	0.02	500
Cobalt	Co	ppm	0.1	10 000

Element	Symbol	Units	Lower Limit	Upper Limit
Chromium	Cr	ppm	1	10 000
Cesium	Cs	ppm	0.05	500
Copper	Cu	ppm	0.2	10 000
Iron	Fe	%	0.01	50
Gallium	Ga	ppm	0.05	10 000
Germanium	Ge	ppm	0.05	500
Hafnium	Hf	ppm	0.02	500
Mercury	Hg	ppm	0.01	10 000
Indium	In	ppm	0.005	500
Potassium	K	%	0.01	10
Lanthanum	La	ppm	0.2	10 000
Lithium	Li	ppm	0.1	10 000
Magnesium	Mg	%	0.01	25
Manganese	Mn	ppm	5	50 000
Molybdenum	Mo	ppm	0.05	10 000
Sodium	Na	%	0.01	10
Niobium	Nb	ppm	0.05	500
Nickel	Ni	ppm	0.2	10 000
Phosphorus	P	ppm	10	10 000
Lead	Pb	ppm	0.2	10 000
Rubidium	Rb	ppm	0.1	10 000
Rhenium	Re	ppm	0.001	50
Sulphur	S	%	0.01	10
Antimony	Sb	ppm	0.05	10 000
Scandium	Sc	ppm	0.1	10 000
Selenium	Se	ppm	0.2	1 000

Element	Symbol	Units	Lower Limit	Upper Limit
Tin	Sn	ppm	0.2	500
Strontium	Sr	ppm	0.2	10 000
Tantalum	Ta	ppm	0.01	500
Tellurium	Te	ppm	0.01	500
Thorium	Th	ppm	0.2	10000
Titanium	Ti	%	0.005	10
Thallium	Tl	ppm	0.02	10 000
Uranium	U	ppm	0.05	10 000
Vanadium	V	ppm	1	10 000
Tungsten	W	ppm	0.05	10 000
Yttrium	Y	ppm	0.05	500
Zinc	Zn	ppm	2	10 000
Zirconium	Zr	ppm	0.5	500

NOTE: In the majority of geological matrices, data reported from an aqua regia leach should be considered as representing only the leachable portion of the particular analyte.

ALS Chemex

Fire Assay Procedure – Au-AA25 and Au-AA26

Fire Assay Fusion, AAS Finish

Sample Decomposition: Fire Assay Fusion (FA-FUS03 & FA-FUS04)

Analytical Method: Atomic Absorption Spectroscopy (AAS)

A prepared sample is fused with a mixture of lead oxide, sodium carbonate, borax, silica and other reagents as required, inquarted with 6 mg of gold-free silver and then cupelled to yield a precious metal bead.

The bead is digested in 0.5 mL dilute nitric acid in the microwave oven. 0.5 mL concentrated hydrochloric acid is then added and the bead is further digested in the microwave at a lower power setting. The digested solution is cooled, diluted to a total volume of 10 mL with de-mineralized water, and analyzed by atomic absorption spectroscopy against matrix-matched standards.

Method Code	Element	Symbol	Units	Sample Weight (g)	Lower Limit	Upper Limit	Default Overlimit Method
Au-AA25	Gold	Au	ppm	30	0.01	100	Au-GRA21
Au-AA26	Gold	Au	ppm	50	0.01	100	Au-GRA22

ALS Chemex

Geochemical Procedure – ME-ICP61
Trace Level Methods Using Conventional ICP-AES Analysis

Sample Decomposition: HNO_3-$HClO_4$-HF-HCl digestion, HCl Leach (GEO-4ACID)

Analytical Method: Inductively Coupled Plasma - Atomic Emission Spectroscopy (ICP - AES)

A prepared sample (0.25 g) is digested with perchloric, nitric, hydrofluoric and hydrochloric acids. The residue is topped up with dilute hydrochloric acid and the resulting solution is analyzed by inductively coupled plasma-atomic emission spectrometry. Results are corrected for spectral interelement interferences.

NOTE: Four acid digestions are able to dissolve most minerals; however, although the term "*near-total*" is used, depending on the sample matrix, not all elements are quantitatively extracted.

Element	Symbol	Units	Lower Limit	Upper Limit	Default Overlimit Method
Silver	Ag	ppm	0.5	100	Ag-OG62
Aluminum	Al	%	0.01	50	
Arsenic	As	ppm	5	10000	
Barium	Ba	ppm	10	10000	
Beryllium	Be	ppm	0.5	1000	
Bismuth	Bi	ppm	2	10000	
Calcium	Ca	%	0.01	50	
Cadmium	Cd	ppm	0.5	500	
Cobalt	Co	ppm	1	10000	Co-OG62
Chromium	Cr	ppm	1	10000	
Copper	Cu	ppm	1	10000	Cu-OG62

Element	Symbol	Units	Lower Limit	Upper Limit	Default Overlimit Method
Iron	Fe	%	0.01	50	
Gallium	Ga	ppm	10	10000	
Potassium	K	%	0.01	10	
Lanthanum	La	ppm	10	10000	
Magnesium	Mg	%	0.01	50	
Manganese	Mn	ppm	5	100000	
Molybdenum	Mo	ppm	1	10000	Mo-OG62
Sodium	Na	%	0.01	10	
Nickel	Ni	ppm	1	10000	Ni-OG62
Phosphorus	P	ppm	10	10000	
Lead	Pb	ppm	2	10000	Pb-OG62
Sulphur	S	%	0.01	10	
Antimony	Sb	ppm	5	10000	
Scandium	Sc	ppm	1	10000	
Strontium	Sr	ppm	1	10000	
Thorium	Th	ppm	20	10000	
Titanium	Ti	%	0.01	10	
Thallium	Tl	ppm	10	10000	
Uranium	U	ppm	10	10000	
Vanadium	V	ppm	1	10000	
Tungsten	W	ppm	10	10000	
Zinc	Zn	ppm	2	10000	Zn-OG62

Elements listed below are available upon request

Element	Symbol	Units	Lower Limit	Upper Limit	Default Overlimit Method
Lithium	Li	ppm	10	10000	
Niobium	Nb	ppm	5	2000	
Rubidium	Rb	ppm	10	10000	
Selenium	Se	ppm	10	1000	
Tin	Sn	ppm	10	10000	
Tantalum	Ta	ppm	10	10000	
Tellurium	Te	ppm	10	10000	
Yttrium	Y	ppm	10	10000	
Zirconium	Zr	ppm	5	500	

APPENDIX F

SOIL HORIZONS & OTHER LAYERS

SOIL HORIZONS AND OTHER LAYERS

The definitions of classes in the Canadian system are based mainly on the kinds, degrees of development, and the sequence of soil horizons and other layers in pedons. Therefore, the clear definition and designation of soil horizons and other layers are basic to soil classification. A soil horizon is a layer of mineral or organic soil or soil material approximately parallel to the land surface that has characteristics altered by processes of soil formation.

It differs from adjacent horizons in properties such as colour, structure, texture, and consistence, and in chemical, biological, and mineralogical composition. The other layers are either nonsoil layers such as rock and water or layers of unconsolidated material considered to be unaffected by soil-forming processes. For the sake of brevity these other layers are referred to simply as layers, but it is recognized that soil horizons are also layers In previous editions of this publication and in the Glossary of Terms in Soil Science organic materials are designated as layers and not horizons.

The major mineral horizons are A, B, and C.

The major organic horizons are L, F, and H, which are mainly forest litter at various stages of decomposition, and O, which is derived mainly from bogs, marsh, or swamp vegetation. Subdivisions of horizons are labeled by adding lower case suffixes to some of the major horizon symbols as with Ah or Re. Well-developed horizons are readily identified in the field. However, in cases of weak expression or of borderline properties, as between Ah and H, laboratory determinations are necessary before horizons can be designated positively. Many of the laboratory methods required are outlined in a manual prepared by a subcommittee of CSSC (McKeague 1976). Some other methods pertaining to organic horizons are outlined near the end of this chapter.

The layers defined are R, rock; W, water; and IIC or other nonconforming, unconsolidated mineral layers, IIIC, etc. below the control section that are unaffected by soil-forming processes. Theoretically a IIC affected by soil-forming processes is a horizon; for example a IICca is a horizon. In practice, it is usually difficult to determine the lower boundary of soil material affected by soil-forming processes.

Thus the following are considered as horizons: C(IC), any unconforming layer within the control section, and any unconforming layer below the control section that has been affected by pedogenic processes (e.g. IIBc, IIIBtj). Unconforming layers below the control section that do not appear to have been affected by pedogenic processes are considered as layers. The tiers of Organic soils are also considered as layers.

Mineral horizons and layers

Mineral horizons contain 17% or less organic C (about 30% organic matter) by weight.

A This is a mineral horizon formed at or near the surface in the zone of leaching or eluviation of materials in solution or suspension, or of maximum in situ accumulation of organic matter or both. The accumulation of organic matter is usually expressed morphologically by a darkening of the surface soil (Ah), and conversely the removal of organic matter is usually expressed by a lightening of the soil colour usually in the upper part of the solum (Ae)· The removal of clay from the upper part of the solum (Ae) is expressed by a coarser soil texture relative to the underlying subsoil layers. The removal of iron is indicated usually by a paler or less red soil colour in the upper part of the solum (Ae) relative to the lower part of the subsoil.

B This is a mineral horizon characterized by enrichment in organic matter, sesquioxides, or clay, or by the development of soil structure; or by a change of colour denoting hydrolysis, reduction, or oxidation. The accumulation in B horizons of organic matter (Bh) is evidenced usually by dark colours relative to the C horizon. Clay accumulation is indicated by finer soil textures and by clay cutans coating peds and lining pores (Bt). Soil structure developed in B horizons includes prismatic or columnar units with coatings or stainings and significant amounts of exchangeable sodium (Bn) and other changes of structure (Bm) from that of the parent material. Colour changes include relatively uniform browning due to oxidation of iron (Bm), and mottling and gleying of structurally altered material associated with periodic reduction (Bg)·

C This is a mineral horizon comparatively unaffected by the pedogenic processes operative in A and B, (C), except the process of gleying (Cg), and the accumulation of calcium and magnesium carbonates (Cca) and more soluble salts (Cs, Csa). Marl, diatomaceous earth, and rock no harder than 3 on Mohs' scale are considered to be C horizons.

R This is a consolidated bedrock layer that is too hard to break with the hands (>3 on Mohs' scale) or to dig with a spade when moist and does not meet the requirements ·of a C horizon. The boundary between the R layer and any overlying unconsolidated material is called a lithic contact.

W This is a layer of water in Gleysolic, Organic, or Cryosolic soils. Hydric layers in Organic soils are a kind of W layer.

Lowercase suffixes

b-A buried soil horizon.

c -- A cemented (irreversible) pedogenic horizon. Ortstein, placic, and duric horizons of Podzolic soils, and a layer cemented by CaC03 are examples.

ca - A horizon of secondary carbonate enrichment in which the concentration of lime exceeds that in the unenriched parent material. It is more than 10 cm thick, and its CaCO, equivalent exceeds that of the parent material by at least 5% if the CaCO, equivalent is less than 1 (13% vs 8%), or by at least 1/3 if the CaCO3 equivalent of the horizon is 15% or more (28% vs 21%). If no IC is present, this horizon is more than 10 cm thick and contains more than 5% by volume of secondary carbonates in concretions or in soft, powdery forms, cc -- Cemented (irreversible) pedogenic concretions.

e -- A horizon characterized by the eluviation of clay, Fe, Al, or organic matter alone or in combination. When dry, it is usually higher in (colour value by one or more units than an underlying B horizon. It is used with A (Ae).

f-A horizon enriched with amorphous material, principally Al and Fe combined with organic matter. It must have a hue of 7.5YR or redder, or its hue must be 10YR near the upper boundary and become yellower with depth. When moist the chroma is higher than 3 or the value is 3 or less. It contains at least 0.6% pyrophosphate-extractable Al + Fe in textures finer than sand and 0.4% in sands (coarse sand, sand, fine sand, and very fine sand). The ratio of pyrophosphate-extractable Al + Fe to clay (< 0.002 mm) is more than 0.05 and organic C exceeds 0.5 ·o . Pyrophosphate- extractable Fe is at least 0.3%, or the ratio of organic C to pyrophosphate-extractable -Fe is less than 20, or both are true. It is used with B alone (Bf), with B and h (Bhf), with B and g (Bfg), and with other suffixes. These criteria do not apply to Bgf horizons. The following f horizons are differentiated on the basis of the organic C content:

Bf - 0.5-5% organic C

Bhf --- more than 5% organic C

No minimum thickness is specified for a BF or a Bhf horizon. Thin Bf and Bhf horizons do not qualify as podzolic B horizons as defined later in this chapter. Some Ah and Ap horizons contain sufficient pyrophosphate-extractable Al + Fe to satisfy this criterion of f but are designated Ah or Ap.

g --- A horizon characterized by gray colours, or prominent mottling, or both, indicative of permanent or periodic intense reduction. Chromas of the matrix are

generally 1 or less. T-t is used with A and e (Aeg); B alone (Bg); B and f (Bfg, Bgf); B, h, and f (Bhfg); B and t (Btg) C alone (Cg); C and k (Ckg); and several others. In some reddish parent materials matrix colours o reddish hues and high chromas may persist despite long periods of reduction. In these soils, horizons are designated as g if there is gray mottling or marked bleaching on ped faces or along cracks.

Aeg -- This horizon must meet the definitions of A, e, and g.

Bg This horizon is analogous to a Em horizon but has colours indicative of poor drainage and periodic reduction. It includes horizons occurring between A and C horizons in which the main features are: (i) Colours of low chroma, that is: chromas of -1 or less, without mottles on ped surfaces or in the matrix if peds are lacking; or chromas of 2 or less in hues of 10YR or redder, on ped surfaces or in the matrix if peds are lacking, accompanied by more prominent mottles than those in the C horizon; or hues bluer than lOY, with or without mottles on ped surfaces or in the matrix if peds are lacking. (ii) Colours indicated in (i) and a change in structure from that of the C horizon. (iii) Colours indicated in (i) and illuviation of clay too slight to meet the requirements of Bt, or an accumulation of iron oxide too slight to meet the limits of Bgf. (iv) Colours indicated in (i) and the removal of carbonates. Bg horizons occur in some Orthic Humic Gleysols and some Orthic Gleysols.

Bfg, Bhfg, Btg, and others -- When used in any of these combinations the limits set for f, hf, t, and others must be met.

Bgf -- The dithionite-extractable Fe of this horizon exceeds that of the IC by 1% or more. Pyre phosphate-extractable Al + Fe is less than the minimum limit specified for f horizons. This horizon occurs in Fera Gleysols and Fera Humic Gleysols and possibly below the Bfg of gleyed Podzols. It is distinguished from the Bfg of gleyed Podzols on the basis of the extractability of the Fe and Al. The Fe in the Bgf horizon is thought to have accumulated as a result of the oxidation of ferrous iron. The iron oxide formed is not associated intimately with organic matter or with Al and is sometimes crystalline. The Bgf horizons are usually prominently mottled, more than half of the soil material occurs as mottles of high chroma.

Cg, Ckg, Ccag, Csg, Csag -- When g is used with C alone, or with C and one of the lowercase suffixes k, ca, s, or sa the horizon must meet the definition for C and for the particular suffix as well as for g.

h -- A horizon enriched with organic matter. It is used with A alone (Ah), or with A and e (Ahe), or with B alone (Bh), or with -B and f (Bhf).

Ah -- A horizon enriched with organic matter, it has a colour value at least one unit lower than the underlying horizon or 0.5·0 more organic C than the IC or both. It contains less than 17% organic C by weight.

Ahe -- An Ah horizon that has undergone eluviation as evidenced, under natural conditions, by streaks and splotches of different shades of gray and often by platy structure. It may be overlain by a dark-coloured Ah and underlain by a light-coloured Re.

Bh - This horizon contains more than 1% organic C, less than 0.3% pyrophosphate-extractable Fe, and has a ratio of organic C to pyrophosphate-extractable Fe of 20 or more. Generally the colour value and chroma are less than 3 when moist.

Bhf -- Defined under f.

j This is used as a modifier of suffixes e, f, g, n, and t to denote an expression of, but failure to meet, the specified limits of the suffix it modifies. It must be placed to the right and adjacent to the suffix it modifies. For example, Bfgj means a Bf horizon with a weak expression of gleying, Bfjgj means a B horizon with weak expression of both f and g features.

Aej -- It denotes an eluvial horizon that is thin, discontinuous, or slightly discernible.

Btj -- It is a horizon with some illuviation of clay but not enough to meet the limits of Bt.

Btgj, Bmgj These are horizons that are mottled but do not meet the criteria of Bg.

Bfj It is a horizon with some accumulation of pyrophosphate-extractable Al + Fe but not enough to meet the limits of Bf. In addition, the colour of this horizon may not meet the colour criteria set for Bf.

Btnj or Bnj - These are horizons in which the development of solonetzic B properties is evident but insufficient to meet the limits for En or Bnt.

k - Denotes the presence of carbonate as indicated by visible effervescence when dilute HC1 is added. It is used mostly with B and m (Bmk) or C (Ck) and occasionally with Ah or Ap (Ahk, Apk), or organic horizons (Ofk, Omk).

m - A horizon slightly altered by hydrolysis, oxidation, or solution, or all three to give a change in colour or structure, or both. It has:

1. Evidence of alteration in one of the following forms:

a. Higher chromas and redder hues than the underlying horizons.

b. Removal of carbonates either partially (Bmk) or completely (Bm).

c. A change in structure from that of the original material.

1. Illuviation, if evident, too slight to meet the requirements of a Bt or a podzolic B 3
2. Some weatherable minerals.
3. No cementation or induration and lacks a brittle consistence when moist This suffix can be used as Bm, Bmgj, Bmk, and Ems.

n -- A horizon in which the ratio of exchangeable Ca to exchangeable Na is 10 or less. It must also have the following distinctive morphological characteristics: prismatic or columnar structure, dark coatings on ped surfaces, and hard to very hard consistence when dry. It is used with B as En or Bnt.

p-A horizon disturbed by man's activities such as cultivation, logging, and habitation. It is used with A and O.

s - A horizon with salts, including gypsum, which may be detected as crystals or veins, as surface crusts of salt crystals, by depressed crop growth, or by the presence of salt-tolerant plants. It is commonly used with C and k (Csk), but can be used with any horizon or combination of horizon and lowercase suffix.

sa - A horizon with secondary enrichment of salts more soluble than Ca and Mg carbonates; the concentration of salts exceeds that in the unenriched parent material. The horizon is at least 10 cm thick. The conductivity of the saturation extract must be at least 4 mS/cm and exceed that of the C horizon by at least one-third. (The unit mho has been replaced by siemens [S].) t -- An illuvial horizon enriched with silicate clay. It is used with B alone (Bt), with B and g (Btg), with B and n (Bnt), etc.

Bt - A Bt horizon is one that contains illuvial layer-lattice clays. It forms below an eluvial horizon but may occur at the surface of a soil that has been partially truncated. It usually has a higher ratio of fine clay to total clay than the IC. It has the following properties :

1. If any part of an eluvial horizon remains and there is no lithologic discontinuity between it and the Bt horizon, the Bt horizon contains more total clay than the eluvial horizon as follows:

a. If any part of the eluvial horizon has less than 15% total clay in the fine earth fraction (<2 mm), the Bt horizon must contain at least 3% more clay, e.g. Re 10% clay; Bt minimum 13% clay.

b. If the eluvial horizon has more than 15% and less than 40% total clay in the fine earth fraction, the ratio of the clay in the Bt horizon to that in the eluvial horizon must be 1.2 or more, e.g. Re 25% clay; Bt at least 30% clay.

c. If the eluvial horizon has more than 40% total clay in the fine earth fraction, the Bt horizon must contain at least 8% more clay, e.g. Re 50·0 clay; Bt at least 58% clay.

1. A Bt horizon must be at least 5 cm thick. In some sandy soils where clay accumulation occurs in the lamellae, the total thickness of the lamellae should be more than 10 cm in the upper 150 cm of the profile.
2. In massive soils the Bt horizon should have oriented clay in some pores and also as bridges between the sand grains.
3. If peds are present, a Bt horizon has clay skins on some of the vertical and horizontal ped surfaces and in the fine pores or has illuvial oriented clays in 1% or more of the cross section as viewed in thin section.
4. If a soil shows a lithologic discontinuity between the eluvial horizon and the Bt horizon, or if only a plow layer overlies the Bt horizon, the Bt horizon need show only clay skins in some part, either in some fine pores or on some vertical and horizontal ped surfaces. Thin sections should show that the horizon has about 1% or more of oriented clay bodies Btj and Btg are defined under j and g.

u -- A horizon that is markedly disrupted by physical or faunal processes other than cryoturbation. Evidence of marked disruption such as the inclusion of material from other horizons or the absence of the horizon must be evident in at least half of the cross section of the pedon. Such turbation can result from a blowdown of trees, mass movement of soil on slopes, and burrowing animals. The u can be used with any horizon or subhorizon with the exception of A or B alone; e.g. Aeu, Bfu, BCu.

x - A horizon of fragipan character. A fragipan is a loamy subsurface horizon of high bulk density and very low organic matter content. When dry, it has a hard consistence and seems to be cemented. When moist, it has moderate to weak brittleness. It frequently has bleached fracture planes and is overlain by a friable B horizon. Air-dry clods of fragic horizons slake in water.

y -- A horizon affected by cryoturbation as manifested by disrupted and broken horizons, incorporation of materials from other horizons, and mechanical sorting in at least half of the cross section of the pedon. It is used with A, B, and C alone or in combination with other subscripts, e.g. Ahy, Ahgy, Bmy, Cy, Cgy, Cygj.

z -- A frozen layer. It may be used with any horizon or layer, e.g. Ohz, Bmz, Cz, Wz.

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