

# **ANNUAL REPORT**

**on**

## **EL 23454 Suplejack**

### **To October 11 2004**

Report prepared for

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## **1 Summary**

Suplejack Pty Ltd acquired EL 23454 from the previous holders of the tenement in October 2004. Little work had been carried out on the tenement, which has been held for two years by the previous holders, and all reported expenditure relates to work carried out by the current holder.

The tenement is located in the Tanami Desert, approximately 650 km northwest of Alice Springs. Access is by the Tanami Road and the Tanami-Lajumanu road to Suplejack Downs station. Access to the tenement is affected by the monsoonal climate with road access restricted during and after the wet season.

The tenement is wholly contained within Suplejack Downs station.

Previous explorers on the tenement area have been MJ Kidd and various partnerships and JV's between Kidd and P Messenger, Dominion Gold, Acacia Resources and AngloGold. In excess of \$5 million had been spent by previous explorers, which resulted in identification of a small resource at Tregony, delineation of a major zone of gold occurrences and identification of a series of untested targets with potential for structurally controlled gold deposits similar to the Groundrush deposit.

Geology is correlatable with host sequences for the gold deposits at Tanami. Major structures thought to control the majority of gold deposits in the Tanami region are present and control gold occurrences within and adjacent to the tenement.

Current work carried out by Suplejack has been a review of previous data, identification of shortcomings in the evaluation of the resource at Tregony, identification of a series of conceptual targets and initial testing of those targets.

Results of the work carried out has been recognition of significant additional potential at Tregony within the current hard rock resource area, significant potential in adjoining areas, and the identification of substantial areas of gold mineralised hydrothermal systems in Suplejack Sandstone that have not been previously tested. In addition the potential for colluvial and alluvial resources has been further evaluated, some work carried out to define targets and limited testing carried out.

A major program of drilling of hard rock targets within both the older previously worked prospects and in the newly generated prospects will be carried out in the 2005 field season. Geochemical data acquired from recent soil surveys is in the early stages of interpretation at present.

Aerial photography is only available over a portion of the tenement with a number of new project areas lying outside the areas of coverage. New photography will be flown in early 2005.

A substantial amount of reinterpretation of existing geochemical and drilling data is required to generate additional drilling targets on the older prospects. This is anticipated to be carried out in the period prior to next field season.

Expenditure by Suplejack Pty Ltd on the tenement in its second year of tenure has been \$304,670.

## **2 Introduction**

EL 23454 and EL 23492 were applied for by MJ Kidd and PR Messenger and granted on 11/11/02. The tenement transfers were completed on 7/10/04 and are now held 100% by Suplejack Pty Ltd.

This report discusses exploration carried out on EL 23454 during the period of tenure by Suplejack Pty Ltd and during a short period prior to the tenement transfer being completed.

## **3 Location, Access and Climate**

The Suplejack project region is located in the northern Tanami region approximately 650 km NW of Alice Springs, approximately 80 km north of the Tanami mine and 40 km north of the Groundrush mine.

Access is via the Tanami Road from Alice Springs to the Tanami Mine then via the Lajumanu-Tanami Road to Suplejack Downs station. The tenement is wholly within the boundaries of Suplejack Downs station and access to the tenement is via station tracks and by new access put in place by the previous explorers.

Climate is monsoonal with an average of less than 400 mm annual rainfall, predominantly between December and March. Rainfall is usually experienced in October and always in November in the build up to the wet season. In heavy or late wet seasons road access to the tenements may be restricted for heavy vehicles until late May.

The region has generally low relief with a regional fall to the inland drainage areas of Lake Buck and associated salt pans. Local relief in the tenement is approximately 50 metres and consists of broad drainage areas with local channels with desert woodlands and scrublands between low ridges with scrublands and spinifex dominated areas.

## **4 Geology of the Suplejack Project Region**

The tenements lie in the northeastern part of the Tanami SE 52-15 1:250,000 map sheet area in the northern Tanami region. The area has been recently been remapped, however the stratigraphy is still being revised as additional data becomes available.

The area is underlain by sequences belonging to the Tanami Group, which was deposited on extended Archaean basement. The Tanami Group is thought to be broadly correlatable to the Pine Creek Geosyncline sequences and to the Eastern Halls Creek Belt.

Current understanding of the stratigraphy is that the oldest lithologies present in the tenements area include part of the MacFarlane Peak Group which is now included in the Dead Bullock Formation which is the basal unit in the Tanami Group, dated at about 1840 Ma. The MacFarlane Peak Group consists of mafic volcanics, turbiditic

sandstone, siltstone and minor calcsilicate. Killi Killi Formation, which also belongs to the Tanami Group, is also mapped in the area in the eastern part of the tenements area. The Killi Killi Fm. dated at about 1835 Ma, consists of fine grained turbiditic sediments, mostly siltstones, some of which are carbonaceous and also rare cherts and calcareous units. Dolerite sills were intruded into the Killi Killi Fm during deposition.

The Tanami Group was deformed and variably regionally metamorphosed up to greenschist and amphibolite facies at about 1830 Ma by the Tanami Orogenic Event (TOE) and is unconformably overlain by the Ware Group.

The Ware Group consists of basal Mount Winneke Formation, which is not present in the Suplejack area, the Nannygoat Volcanics and the Wilson and Century Formations. The Century Formation consists of conglomeratic sandstone, siltstone and fine-grained sandstone and is overlain by the Wilson Formation, which consists of greywacke, quartz wacke and siltstone. This Group was laid down between about 1825 and 1815 Ma in a post TOE environment associated with D4 extensional rifting.

The Nannygoat Volcanics in the tenements area have been identified as feldspathic quartz sandstones, some of which are lithic and pebbly to cobbly, olivine basalts and fine grained felsic igneous rocks including dacites, some of which may be ignimbrites.

Peneplanation of the Tanami and Ware groups took place after emplacement of late and post orogenic granite suites and postdates 1800 Ma. Deposition of the platform siliclastic Birrindudu Group took place after this time and by correlation with similar sequences in the NT, probably was deposited in the 1790-1760 Ma time span, but may be significantly younger with a depositional age range from 1735-1640 Ma.

The Birrindudu Group Sediments in the tenements area are represented by the Suplejack Sandstone, which consists of fine grained quartzose sandstone units with thick interbedded siltstone units.

Overlying this platform cover is Cambrian age Antrim Plateau Basalt. Alluvium, partly related to palaeochannels, is present overlying other lithologies. Aeolian sand is widespread and may be up to several metres thick.

#### **4.1 Structure and Mineralisation**

The Black Peak Fault, trending NNE from the Tanami Goldfield, is a major D5 structure that merges northward with the NS trending Suplejack Shear Zone. These D5 structures and others are associated with significant mineralisation throughout the Tanami region. They postdate the intrusion of the granite suites and predate the deposition of the Birrindudu Group.

D6 structures cut all prior structures and are of unknown age. Reactivation of structures belonging to D5 and D6 and possibly older structures has occurred since formation and affects younger lithologies and Cainozoic regolith distribution.

Mineralisation at Tregony, Thomas and other prospects within the Nannygoat Volcanics within the tenements area is associated with the NS trending Suplejack Shear Zone or with closely spatially associated parallel structures and splay faults.

Mineralisation at Crusade, immediately north of the tenements area, is related to D5 reverse thrusting on a NS trending faulted basalt-dacite contact within the Nannygoat Volcanics.

It should be noted that the age of mineralisation interpreted for Callie overlaps with the age of the base of the Birrindudu Group, ie the Suplejack Sandstone.

## **5 Previous Work on the Tenement Areas**

The current tenement areas were originally applied for by MJ Kidd in 1987 and have been worked by Kidd in JV with Messenger, Dominion Gold, Acacia Resources and AngloGold. Work carried out has been regional RAB sampling, follow up RAB, RC and diamond drilling resulting in definition of a small resource at Tregony. The resource lies within a relatively magnetically quiet zone in the eastern part of EL 23454 within a 19 k long zone of gold, arsenic and base metal anomalies. Geology underlying the anomalous zone consists of Nannygoat Volcanics and fine grained sediments assigned by the NTGS to the Killi Killi Fm which are cut by the Suplejack Shear Zone and associated parallel shears and splay faults.

Some surface geochemical sampling orientation programs were carried out and demonstrated the effectiveness of this method of sampling with generally good correlation with previous bedrock sampling.

A 2900 line km magnetic and radiometric survey was flown over the tenement by Acacia and used to assist with drill hole targeting and for diamond exploration carried out in conjunction with Stockdale Prospecting.

A regional scale geomorphology and regolith study was carried out on the tenement that defined areas of different regolith types and alluvium as well as modern drainages.

Aerial photography was carried out over the southeastern part of the tenement area, underlain by Tanami and Ware Group sequences.

AngloGold carried out a review of the previous work on the tenements prior to withdrawing from the JV with Kidd and Messenger and identified a number of areas with untested structural targets similar to Groundrush and a series of other geochemically undertested areas. Areas overlain by Suplejack Sandstone were not tested to any significant extent previously, due to perceived lack of potential for gold mineralisation.

## **6 Exploration under EL 23454**

Kidd and Messenger negotiated an Exploration Deed with the CLC while they held the tenement and carried out a small amount of testing of colluvial material over the Tregony deposit.

Suplejack Pty Ltd commenced exploration on EL 23454 late in year 2 of tenure of the tenements. Work carried out has consisted of a review of previous exploration, assessment of the resource estimation and metallurgical studies, orientation geochemical traversing, drainage geochemical sampling and soil sampling over a series of targets defined from previous work, geochemical anomalies not previously followed up and conceptual targets defined from the review of previous work. A small bulk sample of colluvium at Tregony was also taken to determine gold size distribution and a spot grade in the colluvium. An assessment of the potential location and size of palaeochannels was also undertaken by interpretation of existing high resolution magnetic data coupled with an additional ground magnetic traverse across the palaeochannel zone.

Current work has consisted of a total of

- 84 orientation soil samples were taken on 2.1 km of flagged and cleared grid lines
- 486 soil samples on various prospects on flagged and cleared grid lines
- 23 drainage samples testing areas predominantly underlain by Suplejack Sandstone
- 8 rock chip samples on various prospects
- 2.6 km of ground magnetic traversing on an old grid line, which was flagged and cleared
- Approximately 1100kg of bulk sample excavated from adjacent to previous sample sites in colluvium, crushed and analysed for gold size distribution and spot grade determination.
- Recovery of a series of locations identified on the airphotos to allow a detailed contour plan to be prepared of the Tregony resource area
- Recovery of approximately 25 drill hole collars to allow accurate survey of those holes that were used in the resource estimation study
- Obtaining clearance by the CLC over various areas of the tenement.

## **6.1 Orientation Soil Sampling**

Orientation soil sampling lines (84 samples) were carried out across the southern part of the Tregony deposit and to the south of Tregony where previous partial extraction geochemical techniques had proved effective. BLEG type samples were taken to reduce the nugget effects likely to be produced from fine to very coarse (0.1-20mm) particulate gold that is clearly evident in panned samples off the Tregony outcrop area. The sampling methods chosen both reproduced coincident anomalous responses in the traverses carried out. The BLEG type sample reproduced all anomalies evident in the smaller analytical samples but were less spikey, due no doubt to the larger and more representative sample size. The failure to obtain useful arsenic results from the BLEG sample was clearly evident and would require the use of additional analytical techniques to get reliable arsenic values.

The sample data for the orientation soil study are included in appendix 1.

## **6.2 Drainage Sampling**

Drainage sampling was carried out in a number of areas to rapidly assess whether various conceptual targets contained gold mineralisation and assist in focussing effort on areas of exposed mineralisation. BLEG type samples were taken and analysed for gold and several other pathfinder elements. Results for all samples are included in this report in appendix 2. Interpretation of results is at an early stage and drill targets have not been interpreted at the time of submission of this report.

### **6.2.1 Horseshoe Hill**

A total of six drainage samples were taken at this locality to follow up on erosion gullies with abundant quartz present, including some laminated and open space fill types. An initial anomalous result from one sample was followed up with a further 5 samples. Some quartz reef areas hosted by Supplejack Sandstone with a NS orientation were found on the drainage divide between this area and the area known as Crusade South. Drainage sample results obtained to date are included in appendix 2.

### **6.2.2 Timothy**

A complex 5 km long quartz vein system with a general NS trend hosted by Supplejack Sandstone was sampled with six drainage samples from very minor drainages over approximately 2.1 km. A low order anomaly was recovered in one sample. Drainage sample results obtained to date are included in appendix 2.

Follow up was undertaken with soil samples.

### **6.2.3 PHD**

A very extensive quartz vein system was mapped by the BMR on a major splay fault off the Supplejack Shear Zone. This quartz vein system was sampled over approximately 2.75 km with three samples initially, all of which returned anomalous responses. An additional sample was subsequently taken to determine whether additional sources other than the outcropping quartz vein system were contributing to the significant anomaly found in one of the drainages. Drainage sample results obtained to date are included in appendix 2.

Follow up was undertaken with soil samples.

### **6.2.4 Regional**

Seven samples were taken in the northeastern part of the tenement as part of the first pass assessment of this area that had not been previously sampled. Sample sites were broad drainage axes similar to those sampled at Timothy and one at PHD, which produced low to moderate order anomalies. Results have not yet been received.

## **6.3 Soil and Rock Chip Sampling**

Soil and rock chip sampling was carried out on nine areas identified as new conceptual targets, identified as prospect areas of interest from previous work by Normandy NFM, during assessment of the area for a JV, and by Kidd and Messenger or identified as areas not previously adequately followed up as far as could be

determined from previous reported work by Dominion, Acacia or AngloGold. All samples were taken at 25 metre intervals on sample lines, which were hand cleared and did not require rehabilitation.

A total of 486 soil samples and 8 rock chip samples were taken. Soil and rock chip sample logs are included in appendix 3. Results for all samples are included in this report in appendix 3.

#### **6.3.1 Far South East**

This area is located within and on the margins of a magnetic granite intrusive adjacent to the southeastern boundary of the tenement. Faulting with apparently magnetite destructive alteration was interpreted to be present from interpretation of magnetic data over the tenement. This faulting was coincident with an arsenic anomaly recovered during regional scale RAB coverage of the tenement by Dominion when first in JV with Kidd and Messenger. Results are included in appendix 3.

A single 1000 metre line was sampled across the area of interest with 41 samples. Surface float included Supplejack Sandstone and one clast of fine grained intermediate-felsic feldspar porphyry intrusive.

#### **6.3.2 Donald**

This area was described by Messenger as being an extensive brecciated zone parallel to the Supplejack Shear Zone. A previous rock chip sample, taken by Messenger in 1993, returned high values of arsenic, zinc, copper, lead and molybdenum but no gold.

Traversing did not find and evidence of an extensive breccia zone however there was a brecciated silcrete present, which appeared to be quite normal in all respects. Three rock chip samples were taken of the ferruginous cap, of the silcrete horizon and of stressed vein quartz to determine whether particular regolith horizons were concentrating the metals reported in Messenger's rock sample. Results for the rock chip samples were obtained prior to reporting and clearly show that there is a major concentration of metals into the ferruginous cap to the weathering profile. A 20 ppb gold result for the sample was also obtained, which is a strongly anomalous result.

A series of soil lines were also sampled to assess whether gold is present but previous RAB sampling was too wide spaced or the Messenger rock chip sample was not analysed in an appropriate manner to reliably detect the coarse gold present in the gold mineralised systems associated with the Supplejack Shear Zone in this area.

A total of 1700 metres of grid line in 5 sample lines were cleared and 73 soil samples were taken.

Rock chip sample results are included in appendix 3

#### **6.3.3 Fuel Line**

Two soil samples were taken beside an area of quartz float during an unscheduled stop with vehicle problems. Soil sample results are included in appendix 3.

#### **6.3.4 Battery Hill**

A single sample line 200 metres long was sampled with 9 soil samples across an outcrop area in Supplejack Sandstone with a series of NS veining zones as well as veins in a variety of other directions including NW and NE. Soil sample results are included in appendix 3.

#### **6.3.5 Crusade South**

This area had been previously sampled by Kidd and Messenger who reported a 294 ppb response from quartz veined basalt. The area was visited and found to be iron stained brecciated fine grained quartzose sandstone and siltstone of the Supplejack Sandstone surrounded by float of normal Supplejack Sandstone. An initial soil line was sampled with 8 samples and then a larger grid put in place to give greater coverage. A total of 2.2 km of grid line were put in place and sampled with an additional 90 samples.

Most of the grid area had shallow subcropping Supplejack Sandstone, with a series of brecciated and quartz veined areas present within it. These zones appeared to be NS trending. One substantial outcrop, the initial discovery outcrop, consisted of multiple generations of brecciation and quartz veining in a narrow zone of about 1-1.5 metres wide. Strong maroon to brown iron staining is near pervasive with only small remnants of unaltered cream-pink fine grained sandstone still present.

Near flat lying areas of vesicular and quartz veined and quartz nodule bearing basalt are interpreted as most likely being flow bottom vesiculated basalt of Cambrian age. Several similar remnants were found, while most of the basalt is fine grained and not vesicular. Quartz nodules, including smokey and amethystine varieties, are common with all the vesicular basalt.

#### **6.3.6 Horseshoe Hill**

Four representative rock chip samples were taken over several outcrop areas of quartz veining and brecciation in Supplejack Sandstone. The vein zones trend NS although individual veins have a variety of orientations. Multiple generations of quartz veining and some pervasive silicification of brecciated sandstone are present. Substantial faulting can be inferred as strike of the Supplejack Sandstone varies rapidly and strike becomes N-S adjacent to some of the quartz reefs. These inferred faults appear to be continuations of mapped D5 faults further south in the Nannygoat Volcanics.

Rock chip samples were taken over a total strike length of approximately 300 metres in these quartz reef systems which occur on the crest of a low drainage divide.

An initial drainage sample gave an anomalous result and was followed up with a further 5 drainage samples. Anomalous results may be due to the quartz reefs described above.

#### **6.3.7 Normandy Hill**

This area was sampled by Normandy NFM while undertaking an assessment of the tenement area, after AngloGold withdrew from their JV with Kidd and Messenger. Normandy obtained a 236 ppb response from a soil or lag sample taken on the colluvial flats adjacent to a small hill with a number of exposed quartz reefs present, hosted by Supplejack Sandstone. Normanby regarded the anomaly as very interesting

and applied for the area when the tenement lapsed a few weeks later. They withdrew their application when their confidentiality agreement with Kidd and Messenger was brought to their attention.

Current sampling has consisted of one rock chip sample and 54 soil samples taken on 1350 metres of grid line on 6 flagged and cleared grid lines.

#### **6.3.8 Timothy**

This area was identified as a conceptual target similar to the Crusade South prospect found by Kidd and Messenger. The vein system was photo interpreted and the central portion with the greatest amount of quartz veining was stream sediment sampled with 6 samples. A very low order anomaly, only twice background, was followed up with four sample lines over 300 metres of strike for a total of 500 metres of grid line flagged, cleared and 25 soil samples taken. Drainage sample results are included in appendix 2.

#### **6.3.9 PHD**

This area contains a very extensive quartz vein system mapped by the BMR over approximately 9 km. The vein system lies along a major splay fault off the Supplejack Shear Zone. Approximately half of the mapped vein system occurs within the current tenement area. Host rocks to the vein are all quartz sandstones belonging to the Supplejack Sandstone which stands up as a low ridge where held up by the relatively resistant quartz veins.

Kidd and Messenger took a rock chip sample from an outcrop of the vein system in about 1989 and obtained a result of 3gAu/t. This result was not followed up.

The quartz veins are up to 14 metres wide and all consist of subparallel veins that are variably brecciated or milled and infilled with dark brown to black matrix. Up to six or eight veins are found over a zone of up to 150 metres wide with areas of very little outcrop in between. At the southern end of the areas sampled the veins disappear under a partially preserved laterite profile in which the quartz veins have broken down and do not have positive relief. Relative uplift or downcutting to the north leaves some veins forming minor cliff faces of about 10 metres height with no remnants of the laterite profile preserved.

Drainage sampling was carried out with three samples initially taken. All samples were anomalous with one strongly anomalous result. Drainage sample results are included in appendix 2.

A grid over 1100 metres of strike was sampled with a further single reconnaissance line to the north and three lines further south near the southern most anomalous drainage sample. A total of 3.1 km of grid was flagged, cleared and sampled and 125 soil samples taken.

### **6.4 Magnetic Data Interpretation**

Interpretation of the regional and detailed magnetic surveys by Messenger suggested that there was a series of palaeochannels draining away from the resource areas at Tregony-Boco and also including part of the mineralised Edwina Shear, a parallel

zone to the Suplejack Shear Zone. Anastomosing magnetic trends typical of maghemite bearing channels are present and it was proposed that these channels could contain a substantial resource. Messenger reported that a small bulk sample of the alluvial material contained a calculated grade of 27gAu/t.

Encom Technologies was commissioned to carry out a detailed interpretation of the existing data and interpret the channels if possible. Encom required Suplejack Pty Ltd to carry out a ground traverse (2.5km) and to locate a number of discrete anomalies to check if the survey was properly located, whether the grid datum was as described and to determine whether the magnetic data gridding was carried out in the most appropriate way.

Results of the interpretation were the identification of a series of magnetic axes for ground testing. Some of these are shallow source while others are deeper and may be due to magnetic bodies within the basement rocks.

The deeper anomalies in the bedrock would be transgressive to stratigraphy this would suggest magnetisation related to faults as either primary mineralisation or secondary mineralisation related to weathering. As such these could be of interest as structurally controlled gold targets.

The shallow source anomalies could be due to maghemite concentrations in buried channels, and the depth to source of about 10 metres for some of these shallow anomalies is compatible with the palaeochannel model.

A series of deeper targets have been generated that require integration with existing geochemical data for ranking purposes. The shallow targets have been downgraded in importance as they are interpreted as being narrow width and therefore having relatively limited volume potential. Some of these targets will be tested when the colluvial resource is assessed.

The report on the interpretation is included as appendix 4

### **6.5 Tregony Colluvium Bulk Sample**

Messenger described a small bulk sample of 720 kg of alluvium at the head of the palaeochannels discussed above as having a grade of 27gAu/t. This result was extremely high for alluvium and led to speculation on the size of potential resources in the interpreted palaeochannels.

Examination of the site reported on by Messenger showed that the material sampled was in fact colluvium. The colluvium was overlying bedrock with local relief of at least 1 metre. None of the material was alluvial and a very local source for the high grade sample of colluvium can be expected.

A small bulk sample of approximately 1113kg was taken, sized, crushed and the various fractions analysed. Data collected was designed to give possible test plant design criteria, a spot grade for the colluvium, gold sizing data and recovery data on the plant used for crushing and sizing of the products. Spot grade obtained from the

bulk sample was 0.28gAu/t, which was within expectations for the sample. Summary results of the test work carried out are included in appendix 5.

Conclusions drawn from the test work are that the colluvium has locally very variable grade and a substantial volume would need to be tested to have a reasonable indication of average grade.

The mill used for crushing did an excellent job of single pass crushing of –100mm material down to fine sand size, with problems due mainly to the small size of the bulk sample splits. The mill was not particularly effective at recovery of the gold as a concentrate, which may be due to a number of factors to do with both gold sizing and mill operating settings and overall characteristics. Results are included in appendix 5.

The gold in the colluvium has a bimodal size distribution with 83% of the gold reporting in the > 150 micron fraction, 5.3% of the gold reporting in the 150 to 75 micron fraction and 11.7% of the gold reporting in the < 75 micron. As composites and occluded gold are inferred to be present in all coarser fractions there would be a greater proportion of gold with actual grain size in the finer fractions. Liberation measured by percentage of cyanide extractable gold in each size peaks in the 150 to 100 micron fraction, giving a further indication that the bimodal gold grain size distribution is real.

The coarse overall size of gold in the colluvium indicates the type of sampling issues that need to be addressed in surface or near surface sampling. Assuming there has been no major change in gold grain size in the colluvium compared to the weathered zone the sampling issues will be present at depth as well as at surface. This issue is addressed further in the section below.

## **6.6 Assessment of Tregony Resource Estimation**

Acacia obtained a number of high grade drill intersections during testing of the Tregony resource area. Re assay of the various intervals with high grade intersections took place and lower re-assay values were used as the correct value for the interval. What the analytical program in fact demonstrated was that there is a significant component of coarse gold present and that failure to repeat analytical values is a function of gold grain size, not incorrect analyses. It has to be considered that neither the highest and certainly not the lowest figures necessarily approximate to the actual situation present.

This procedure of using the lowest analyses obtained reduced the population of higher values and as a result the high values left were seen as outliers in the resource estimation study and further cut to a maximum of 20gAu/t. There appears to be little geological rationale for this scale of cutting in orogenic style gold deposits, and especially in the Tanami where coarse gold is a common occurrence and often a substantial proportion of the gold in an orebody. This potentially has led to underestimation of grade of the resource.

Metallurgical test work carried out by Metcon for Acacia used splits of 10 metres length of holes that were in the resource area of Tregony. Three splits in three different holes were used for the assessment. Metcon found that there was abundant

free gold in one sample they assessed, that the gold was up to 2 mm in size and was not fully dissolving in 48 hours in cyanide solutions due to the coarse size. Coarse gold in all samples gave problems in establishing the head grades of the samples.

Sample size nomograms for determination of minimum sample sizes required to give reliable results all suggest that for gold particle size of 2 mm present in the sample the minimum preferred sample size would be 1.5 kg, and may be substantially more depending on the gold size distribution characteristics. Gold recovered by panning and metal detecting at Tregony ranges in size up to 20 mm suggesting that larger samples may well be required for reliable analyses. At the New Bendigo Mine, an orogenic style gold deposit in Victoria, minimum sample size for reliable analyses is 7.5 tonnes. There is an extreme coarse gold problem at this deposit with only 10-15% of the gold being fine and 60% >1mm, with a top size around 10mm.

Assessment of the colluvial bulk sample from Tregony indicates that there is a bimodal gold size distribution with the vast majority of the gold reporting in the coarser size fractions. Less than 20% of the gold reported into the –150 micron size fraction, indicating that the coarse gold proportion requires a substantial size sample to obtain reliable results. Top size of gold in the colluvium is about 20mm.

Comparison of the grade of exploration intersections reported and the metallurgical samples tested indicate a substantial upgrade of the intersections tested is required. If this can be applied globally to the Tregony resource then both the tonnage and grade of the resource are expected to improve. The table below gives the comparison between the various intersections and analytical methods.

## Summary Of Results – Drill Hole Coarse Gold Evaluation

Hole No	Sample Wt gm	Intersect Grade gAu/t	% Total Au	Sample Wt gm	Grade gAu/t	% Total Au	Sample Wt gm	Grade gAu/t	1kg grade as multiple of 50 gm grade
	<b>Exploration</b>			<b>Metallurgy Screen Assay</b>			<b>Leach Analysis</b>		
TGRC 008	50	30.32	64.24	234	32.01	67.8	1000	47.2	<b>1.56</b>
TGRC 026	50	2.38	13.05	243.7	4.92	27	997	18.24	<b>7.66</b>
TGRC 029	50	6.25	104.7	260	6.93	116	1000	5.97	<b>0.96</b>
<b>Average Upgrade</b>									<b>3.39</b>

P Messenger worked on the Tanami Mine in its early operating period and noted that 0.1-0.3 gAu/t mineralized waste, which was removed and stockpiled separately, gave 0.3 gAu/t analyses when systematically grab sampled but yielded 1 gAu/t when treated through the Tanami Mine gold recovery plant. Changes in sample size from grams to tonnes gave an upgrade factor of approximately 3 times.

The scale of the upgrade to the Tregony resource is currently unknown but indicated to be in the order of 3 times. A drilling program to check some of the previous holes will be undertaken to further assess the potential to upgrade the Tregony resource.

Problems with drill hole survey accuracy were indicated by AngloGold, and recovery of drill holes is in progress. A resurvey of the collars will be undertaken to allow upgrade of the reliability of the resource.

## **7 Environmental and Aboriginal Issues**

Since grant of the current tenement there has been very little surface disturbance taking place. No new access tracks have been put in place and natural regeneration on previous tracks has been extensive. Hand clearing of some tracks and a number of old grid lines has been required.

Excavations for the bulk sample were battered down and backfilled at the end of sample excavation. No traces of the previous bulk sample hole, which was rehabilitated in a similar manner, were evident even though the actual site was located.

Rubbish has been disposed of by burning and burying, using a large hole left by previous explorers that was their tip.

Much of the tenement area had been given clearance for various activities by the CLC in the past and additional clearances were obtained for more intensive activity related to particular prospects.

Advice on activities within the tenement both requiring clearance and in areas where those activities had already been cleared was given to the CLC.

## **8 Conclusions and Recommendations**

It is concluded that despite substantial previous exploration on the current tenement area there remain a significant number of untested or undertested targets. These targets range from advanced prospects such as Tregony, where a resource has been defined, to grass roots prospects where recent drainage sample results, recent rock chip and 1990 rock chip sample results require follow up. This follow up has consisted of soil grids in a number of areas, results of which have been received and values included in the appendices. Interpretation of the results is in progress and will be reported in the next annual report.

Results of evaluation of the Tregony hard rock resource metallurgical test work, the Tregony colluvium bulk sample and previous analytical strategies suggest that the resource has been significantly underestimated. Drilling programs to test the resources further are planned for 2005. Drilling will also be undertaken on the Thomas prospect intersections to attempt to define a resource.

Potential for significant gold deposits is clearly evident in the Supplejack Sandstone, where moderate to high order drainage anomalies, high order lag anomalies and potentially ore grade rock chip results at various of four different prospects all indicate presence of significant mineralisation. None of these prospects has been subjected to detailed investigation previously. Current soil sampling is expected to provide targets for further evaluation by drilling which would be carried out in 2005.

Resource potential does exist in the colluvium overlying and adjacent to the Tregony hard rock resource and this will be tested in conjunction with the alluvial potential in buried channels downstream from the hard rock mineralisation at Tregony, Thomas, Tregony North and Boco.

Previous aerial photography did not cover a significant portion of the tenement that is now considered to have significant potential. Flying of new photography will be undertaken to allow preparation of contour plans over prospect areas to assist in resource estimation.

Re evaluation of previous geochemical data is to be undertaken to assess where infill programs are required to cover structural targets and to allow alternate interpretations of geochemical trends from existing data.

## 9 Expenditure

Expenditure by Suplejack Pty Ltd on EL 23454 has been a total of \$304,670

Breakdown of expenditure is given below.

<b>Item</b>	<b>Amount</b>
	<b>\$</b>
Travel and accomodation	37,063
Miscellaneous supplies	15,221
Management/staff (%)	38,986
Contract Geologists	71,501
Tenement services	5,223
Consultant Prospectors	38,942
Anaylses and milling costs	16,073
<b>Subtotal</b>	<b>223,008</b>
Overheads (say 15%)	33,451
Aeroplane hire charges	23,318
Helicopter hire charges	24,893
<b>Grand Total</b>	<b>\$304,670</b>

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## **Appendix 1**

### **Orientation Soil Sample Data**

**EL 23454**

Grid Name	Sample No	Coords AMG		Description	Sample Type	Au	Au	Au-Rp1	Au-Rp2	Au-Rp3	Ag	Ag	As	As
		East	North			ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppm	ppm
						0.01	0.1	1	0.1	0.1	0.1	0.01	0.02	0.5
						CN1/MS	B5/EET A	RO/ETA	B/EET A	B/EET A	CN1/MS	B5/MS	CN1/MS	B5/MS
Tregony	20001	613500	7860500	surface soil sample, silcrete after fg rocks, gentle W slope	< 6 mm loam	0.15	0.7				2.2	0.03	X	10.3
Tregony	20002	613525	7860500	surface soil sample, silcrete after fg rocks, gentle N slope, 10% quartz	< 6 mm loam	0.17	0.7				2.4	0.03	X	3.3
Tregony	20003	613550	7860500	Fe stained silcrete to 15 cm, after fg sediments. Gentle W slope, trace qtz	< 6 mm loam	0.2	1.1				2.5	0.03	X	5.9
Tregony	20004	613575	7860500	Colluvial silcrete to 10 cm, nil qtz, flat area in drainage line.	< 6 mm loam	0.22	0.5				2.7	0.02	0.02	11.4
Tregony	20005	613600	7860500	Colluvial silcrete to 5cm, tr qtz, small pisolites flat area in drainage line.	< 6 mm loam	0.31	0.6				3	0.02	X	13.3
Tregony	20006	613625	7860500	Rare colluvial silcrete to 5 cm, fg sand and pisolites, slope W	< 6 mm loam	0.61	0.7				2.6	0.03	X	15.6
Tregony	20007	613650	7860500	Small pisolites and trace qtz to 1 cm, gentle W slope	< 6 mm loam	0.42	0.3				3.3	0.02	0.03	16.5
Tregony	20008	613675	7860500	Colluvial silcrete to 3 cm, nil qtz, gentle W slope	< 6 mm loam	0.45	0.8				2.7	0.02	0.03	18.9
Tregony	20009	613700	7860500	Colluvial silcrete to 5 cm, nil qtz, gentle W slope	< 6 mm loam	0.64	1.6				2.5	0.03	0.03	15.6
Tregony	20010	613725	7860500	Colluvial silcrete to 5cm, 1% qtz, small pisolites, slope moderate W. Some silcrete after feld sst, thin bedded.	< 6 mm loam	0.57	1				3	0.03	X	32.4
Tregony	20011	613750	7860500	Colluvial silcrete to 10 cm, 10%qtz	< 6 mm loam	0.91	1.2		1.7		8.8	0.02	0.03	24.9

Grid Name	Sample No	Coords AMG		Description	Sample Type	Au	Au	Au-Rp1	Au-Rp2	Au-Rp3	Ag	Ag	As	As
		East	North			ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppm	ppm
Tregony	20012	613775	7860500	Colluvial silcrete to 10 cm, 10%qtz, gentle E slope, Some silcrete after feld(?) ss and slst, thin bedded.	< 6 mm loam	2.63	192.9	4	13.7	3.6	5.8	0.03	X	23.4
Tregony	20013	613800	7860500	Colluvial qtz 75%, pisolites 7%, silcrete after fine and med thin bedded sst. Slope N.	< 6 mm loam	1.81	9.1	13	4.7		2	0.03	X	9.1
Tregony	20014	613825	7860500	Colluvial qtz 20%, pisolites 7%, silcrete after fine and med thin bedded sst.Slope W.	< 6 mm loam	16.1 3	23.4	10	77.9	13.6	16.7	0.05	X	10.8
Tregony	20015	613850	7860500	Colluvial qtz 20%, trace grey qtz with Fe spots after sulphides, silcrete after fine grained sediments.Slope E, near drainage line.	< 6 mm loam	0.77	1.8				2	0.02	X	5.7
Tregony	20016	613875	7860500	Fine sand and silt only, drainage line	< 6 mm loam	0.35	0.6				3.4	0.01	X	3
Tregony	20017	613900	7860500	Fine sand and silt, trace pisolites, drainage line	< 6 mm loam	0.96	1.8				5.3	0.03	X	2.9
Tregony	20018	613925	7860500	Fine sand and silt, trace pisolites, edge of drainage line	< 6 mm loam	0.1	0.5				1.2	0.01	X	1.5
Tregony	20019	613950	7860500	Colluvial silcrete to 5 cm, 15%qtz, pisolites, gentle NW slope, Some silcrete after med and fg seds	< 6 mm loam	0.54	8.1	5			2.2	0.02	X	4.5
Tregony	20020	613975	7860500	Colluvial silcrete to 0.5 cm, NE slope,	< 6 mm loam	0.07	0.9				3.7	X	X	2.3
Tregony	20021	614000	7860500	Traces silcrete , 25%qtz, pisolites, W slope near drainage line, Some silcrete/ferricrete breccia	< 6 mm loam	0.15	0.5				1.9	X	X	3.3
Tregony	20022	613500	7859600	Colluvial silcrete to 10 cm, trace qtz, pisolites, flat, Some silcrete after qtz bearing sandstone size rock.	< 6 mm loam	0.21	0.5				5.1	0.01	0.02	9.4
Tregony	20023	613525	7859600	Colluvial silcrete and abundant small pisolites, tr qtz. Gentle W slope.	< 6 mm loam	0.37	0.6				5	0.04	X	11.6
Tregony	20024	613550	7859600	Colluvial silcrete to 5 cm, abundant small pisolites, flat.	< 6 mm loam	0.26	0.5				3.7	0.02	X	7.6

Grid Name	Sample No	Coords AMG		Description	Sample Type	Au	Au	Au-Rp1	Au-Rp2	Au-Rp3	Ag	Ag	As	As
		East	North			ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppm	ppm
Tregony	20025	613575	7859600	Traces silcrete to 0.5 cm, silt. Flat	< 6 mm loam	0.36	0.5				3.8	0.08	X	9.5
Tregony	20026	613600	7859600	Silt and trace pisolites.	< 6 mm loam	0.38	0.5				4.6	0.04	X	8.9
Tregony	20027	613625	7859600	Silt and trace pisolites. Slight W slope.	< 6 mm loam	0.13	0.4				2.2	0.02	X	8.8
Tregony	20028	613650	7859600	Silt with pisolite lag, silcrete lag to 5 cm. W slope.	< 6 mm loam	0.53	1.1				2	0.02	0.03	14.8
Tregony	20029	613675	7859600	Silt with pisolite lag, silcrete lag to 5 cm. Gentle W slope.	< 6 mm loam	1.04	0.3				2.1	0.02	0.02	15.9
Tregony	20030	613700	7859600	Abundant small pisolites, moderate W slope.	< 6 mm loam	1.15	1.9				2.8	0.01	0.02	9.5
Tregony	20031	613725	7859600	Silcrete lag to 2 cm, minor pisolites, tr qtz, flat.	< 6 mm loam	0.56	0.4				3	X	0.03	6.8
Tregony	20032	613750	7859600	Silcrete lag to 5 cm, pisolites to 1 cm, some silcrete after sst size rock. Moderate W slope.	< 6 mm loam	0.55	0.6				2.1	0.01	0.03	10.1
Tregony	20033	613775	7859600	Silcrete lag to 5 cm, pisolites to 1.5 cm. Moderate W slope.	< 6 mm loam	0.65	1.4				2.1	0.02	0.02	11.1
Tregony	20034	613800	7859600	Silcrete lag to 15 cm, pisolites to 1.5 cm. Gentle W slope.	< 6 mm loam	1.26	2.1				2	0.02	0.02	8.8
Tregony	20035	613825	7859600	Silcrete lag to 5 cm, pisolites to 1 cm. Gentle W slope. Some silcrete after qtz bearing thin bedded sst and slst.	< 6 mm loam	2.8	1.8				3.3	0.01	X	5.6
Tregony	20036	613850	7859600	Silcrete lag to 10 cm, pisolites to 1 cm. Trace qtz. Moderate W slope.	< 6 mm loam	7.77	9.6	13			2.6	0.01	X	4.7
Tregony	20037	613875	7859600	Silt with pisolites to 0.5cm, silcrete lag to 5 cm, 1% qtz. Flat.	< 6 mm loam	2.86	2.7				2.8	0.02	X	9.4

Grid Name	Sample No	Coords AMG		Description	Sample Type	Au	Au	Au-Rp1	Au-Rp2	Au-Rp3	Ag	Ag	As	As
		East	North			ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppm	ppm
Tregony	20038	613900	7859600	Minor silcrete lag to 2 cm, pisolites to 0.3 cm. Gentle W slope.	< 6 mm loam	0.23	X				2.7	0.01	0.03	15.5
Tregony	20039	613925	7859600	Silcrete lag to 5 cm, Heavy cover of pisolites to 2 cm. Trace qtz. Gentle SW slope.	< 6 mm loam	0.1	0.3				1.7	0.01	X	12.4
Tregony	20040	613950	7859600	Minor silcrete lag to 3 cm, pisolites to 2 cm. Moderate SW slope.	< 6 mm loam	0.05	X				1.8	0.01	X	8.9
Tregony	20041	613975	7859600	All lag Fe stained or Fe, max size 10 cm. Moderate SW slope.	< 6 mm loam	0.08	X				1.6	0.01	X	4.1
Tregony	20042	614000	7859600	Heavy cover of Fe lag and moderate silcrete lag to 3 cm. Moderate slope S.	< 6 mm loam	0.04	X				1.2	X	X	8
Tregony	20043	613500	7859750	Silt with minor pisolites, minor W slope	< 6 mm loam	0.02	X				3	0.04	0.03	20.7
Tregony	20044	613525	7859750	Minor silcrete lag to 2 cm, pisolites to 2 cm. 1 silcrete to 15 cm. Gentle NW slope.	< 6 mm loam	0.07	0.2				2.9	0.03	0.03	17.9
Tregony	20045	613550	7859750	Silcrete lag to 3 cm, abundant small pisolites. Gentle W slope.	< 6 mm loam	0.15	0.6				3	0.02	0.04	24.6
Tregony	20046	613575	7859750	Silcrete lag to 5 cm, pisolites to 1 cm. Gentle W slope.	< 6 mm loam	0.12	0.2				3.5	0.02	X	14.7
Tregony	20047	613600	7859750	Silcrete lag to 5 cm, pisolites to 1 cm, Qtz 1%. Gentle NW slope.	< 6 mm loam	0.2	X				2.4	0.02	0.04	21.4
Tregony	20048	613625	7859750	Lag 50%, silcrete lag to 10 cm 20%, pisolites 30%, Gentle NW slope.	< 6 mm loam	0.09	0.1				2.3	0.03	0.04	15.9
Tregony	20049	613650	7859750	Lag 90%, silcrete lag to 10 cm 30%, pisolites to 2 cm 60%, NW slope.	< 6 mm loam	0.22	X				3.1	0.02	0.03	25.3
Tregony	20050	613675	7859750	Lag 85%, silcrete lag to 10 cm 10%, pisolites to 2 cm 75%, tr Qtz, NW slope.	< 6 mm loam	0.13	X				3.3	0.02	0.03	22.9
Tregony	20051	613700	7859750	Lag 90%, silcrete lag to 5 cm , pisolites to 5 cm , W slope.	< 6 mm loam	0.2	0.3				2.6	0.1	0.04	24.2

Grid Name	Sample No	Coords AMG		Description	Sample Type	Au	Au	Au-Rp1	Au-Rp2	Au-Rp3	Ag	Ag	As	As
		East	North			ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppm	ppm
Tregony	20052	613725	7859750	Lag 60%, silcrete lag to 5 cm 15%, pisolites to 3 cm 45%, W slope.	< 6 mm loam	0.31	0.4				1.9	0.04	0.03	15.4
Tregony	20053	613750	7859750	Silt with 15% pisolites in drainage line.	< 6 mm loam	0.24	X				2.2	0.05	0.03	25.6
Tregony	20054	613775	7859750	Lag 50%, silcrete lag to 3 cm 5%, pisolites to 5 cm 45%, W slope.	< 6 mm loam	0.24	X				2.4	0.03	0.03	24.7
Tregony	20055	613800	7859750	Silt with pisolites to 0.5 cm 20%	< 6 mm loam	0.24	X				1.8	0.03	0.03	11.9
Tregony	20056	613825	7859750	Silt with pisolites to 0.5 cm 20% gentle W slope.	< 6 mm loam	0.76	0.9				2.9	0.03	0.04	20.6
Tregony	20057	613850	7859750	Lag 45%, silcrete lag 5%, pisolites to 5 cm 40%, drainage line SW slope.	< 6 mm loam	0.66	0.6				3	0.02	0.03	8.8
Tregony	20058	613875	7859750	Lag 30%, silcrete lag to 3 cm 5%, pisolites to 2 cm 25%, SW slope.	< 6 mm loam	0.21	0.3				2	0.03	0.02	11
Tregony	20059	613900	7859750	Laterite o/c and lag to 15 cm, minor silcrete to 5 cm, slope W.	< 6 mm loam	0.14	0.3				1.9	0.02	0.02	6.7
Tregony	20060	613925	7859750	Lag 95%, silcrete lag to 10 cm 80%, pisolites to 2 cm 15%, W slope.	< 6 mm loam	0.16	0.3				1.7	0.02	0.02	8.1
Tregony	20061	613950	7859750	Lag 80%, silcrete lag to 10 cm 60%, pisolites to 2 cm 20%, W slope.	< 6 mm loam	0.07	0.1				2.5	0.01	0.02	14
Tregony	20062	613975	7859750	Lag 50%, silcrete lag to 3 cm trace, pisolites to 0.3 cm 50%, W slope.	< 6 mm loam	0.09	X				3.1	0.03	0.03	23.6
Tregony	20063	614000	7859750	Lag 80%, silcrete lag 5%, pisolites 75%, SW slope.	< 6 mm loam	0.17	0.5				2.5	0.02	0.03	16.6
Tregony	20064	613500	7860000	Silt with 2% pisolites to 0.3 cm, flat.	< 6 mm loam	0.91	0.6				5.2	0.1	0.03	16

Grid Name	Sample No	Coords AMG		Description	Sample Type	Au	Au	Au-Rp1	Au-Rp2	Au-Rp3	Ag	Ag	As	As
		East	North			ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppm	ppm
Tregony	20065	613525	7860000	Silt with 2% pisolites to 0.3 cm, flat.	< 6 mm loam	0.88	0.9				3.1	0.05	X	17.4
Tregony	20066	613550	7860000	Silt with trace pisolites to 0.3 cm, flat.	< 6 mm loam	0.45	1.2				3.1	0.02	0.02	13.7
Tregony	20067	613575	7860000	Silt with 10% pisolites to 0.3 cm, slight SW slope.	< 6 mm loam	0.53	0.8				2.8	0.02	0.02	15.2
Tregony	20068	613600	7860000	Silt with 10% pisolites to 0.3 cm, tr Qtz, slight SW slope.	< 6 mm loam	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tregony	20069	613625	7860000	Silt with 10% pisolites to 0.5 cm, 1% silcrete to 1 cm, flat.	< 6 mm loam	0.44	0.6				2.5	0.03	X	15.4
Tregony	20070	613650	7860000	Silt with trace pisolites to 0.2 cm, flat.	< 6 mm loam	0.5	0.5				2.9	0.02	X	6
Tregony	20071	613675	7860000	Silt with organics, slight W slope.	< 6 mm loam	2.58	2.1				1.5	0.07	0.03	41.6
Tregony	20072	613700	7860000	Lag 40%, silcrete lag to 2 cm 15%, pisolites to 1 cm 25%, W slope.	< 6 mm loam	1.32	1				2.5	0.04	0.03	19
Tregony	20073	613725	7860000	Lag 50%, silcrete lag to 4 cm 2%, pisolites to 1 cm 48%, gentle W slope.	< 6 mm loam	1.18	1.5				6	0.02	0.03	12.1
Tregony	20074	613750	7860000	Lag 100%, silcrete lag to 5 cm 5%, pisolites to 1.5 cm 95%, W slope.	< 6 mm loam	3.44	1				2.1	0.04	0.02	20.6
Tregony	20075	613775	7860000	Lag 100%, silcrete lag to 5 cm 5%, pisolites to 2 cm 95%, W slope.	< 6 mm loam	3.11	2.7				1.7	0.02	0.03	20.5
Tregony	20076	613800	7860000	Lag 90%, silcrete lag to 5 cm 60%, pisolites to 2 cm 30%, mod W slope.	< 6 mm loam	2.94	3.2				2.5	0.08	X	11.1
Tregony	20077	613825	7860000	Lag 15%, silcrete lag to 1 cm tr, pisolites to 0.3 cm 15%, edge drainage area.	< 6 mm loam	1.19	1.9				1.8	0.03	0.03	13.6

Grid Name	Sample No	Coords AMG		Description	Sample Type	Au	Au	Au-Rp1	Au-Rp2	Au-Rp3	Ag	Ag	As	As
		East	North			ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppm	ppm
Tregony	20078	613850	7860000	Lag 95%, silcrete lag to 5 cm 30%, pisolites to 1 cm 30%, qtz to 5 cm 35%, mod W slope.	< 6 mm loam	2.3	3				2.1	0.02	X	7.9
Tregony	20079	613875	7860000	Lag 100%, silcrete lag to 5 cm 80%, pisolites to 2 cm 19%, qtz to 5 cm 1%, slope W.	< 6 mm loam	3.98	4.2	9			2.1	0.03	X	22.8
Tregony	20080	613900	7860000	Silcrete o/c and lag to 20 cm 90%, slope NW.	< 6 mm loam	0.69	1.5				1.3	0.04	0.02	19.2
Tregony	20081	613925	7860000	Remnant of older surface, 100% lag, Fe lag 100% to 5 cm, flat.	< 6 mm loam	0.24	0.6				1.9	0.02	0.02	13.7
Tregony	20082	613950	7860000	Remnant of older surface, 100% lag, Fe lag 100% to 5 cm, flat.	< 6 mm loam	0.22	0.2				1.6	0.06	X	8.3
Tregony	20083	613975	7860000	Lag 10%, qtz + silcrete lag to 0.2 cm 8%, pisolites to 0.2 cm 2%, flat drainage to NE.	< 6 mm loam	0.19	0.4				2	0.03	0.02	10.2
Tregony	20084	614000	7860000	Silt, slope E, tr pisolites to 0.5 cm and tr silcrete to 0.3 cm.	< 6 mm loam	0.55	0.5				3.9	0.02	0.03	7.7

NA sample not analysed

X sample value below detection limit

Grid Name	Sample No	Coords AMG		Description	Sample Type	Bi	Cu	Cu	Mo	Mo	Zn	Zn	p75u
		East	North			ppm	ppm	ppm	ppm	ppb	ppm	ppm	%
						0.01	0.01	1	0.1	0.5	0.05	1	0.01
						B5/MS	CN1/MS	B5/AAS	B5/MS	CN1/MS	CN1/MS	B5/AAS	QA grind
Tregony	20001	613500	7860500	surface soil sample, silcrete after fg rocks, gentle W slope	< 6 mm loam	0.12	0.13	12	0.4	21	0.37	22	
Tregony	20002	613525	7860500	surface soil sample, silcrete after fg rocks, gentle N slope, 10% quartz	< 6 mm loam	0.14	0.22	12	0.4	28.1	0.55	13	
Tregony	20003	613550	7860500	Fe stained silcrete to 15 cm, after fg sediments. Gentle W slope, trace qtz	< 6 mm loam	0.13	0.23	11	0.5	26.3	0.35	13	
Tregony	20004	613575	7860500	Colluvial silcrete to 10 cm, nil qtz, flat area in drainage line.	< 6 mm loam	0.13	0.22	18	0.5	29.4	0.26	30	
Tregony	20005	613600	7860500	Colluvial silcrete to 5cm, tr qtz, small pisolites flat area in drainage line.	< 6 mm loam	0.15	0.48	15	0.6	35.5	0.39	42	
Tregony	20006	613625	7860500	Rare colluvial silcrete to 5 cm, fg sand and pisolites, slope W	< 6 mm loam	0.12	0.19	14	0.5	30.8	0.27	43	
Tregony	20007	613650	7860500	Small pisolites and trace qtz to 1 cm, gentle W slope	< 6 mm loam	0.11	0.73	14	0.5	40.2	0.74	44	
Tregony	20008	613675	7860500	Colluvial silcrete to 3 cm, nil qtz, gentle W slope	< 6 mm loam	0.13	0.62	16	0.7	37.8	0.7	48	
Tregony	20009	613700	7860500	Colluvial silcrete to 5 cm, nil qtz, gentle W slope	< 6 mm loam	0.12	0.32	17	0.5	26.4	0.26	33	
Tregony	20010	613725	7860500	Colluvial silcrete to 5cm, 1% qtz, small pisolites, slope moderate W. Some silcrete after feld sst, thin bedded.	< 6 mm loam	0.15	0.16	25	0.6	29.6	0.31	71	
Tregony	20011	613750	7860500	Colluvial silcrete to 10 cm, 10%qtz	< 6 mm loam	0.14	0.27	17	0.5	37.1	0.45	59	
Tregony	20012	613775	7860500	Colluvial silcrete to 10 cm, 10%qtz, gentle E slope, Some silcrete after feld(?) ss and slst, thin bedded.	< 6 mm loam	0.14	0.21	21	0.5	39.9	0.56	76	

Grid Name	Sample No	Coords AMG	Description	Sample Type		Bi	Cu	Cu	Mo	Mo	Zn	Zn	p75um
		East	North			ppm	ppm	ppm	ppm	ppb	ppm	ppm	%
Tregony	20013	613800	7860500	Colluvial qtz 75%, pisolites 7%, silcrete after fine and med thin bedded sst. Slope N.	< 6 mm loam	0.2	0.28	14	0.6	22.5	0.58	28	
Tregony	20014	613825	7860500	Colluvial qtz 20%, pisolites 7%, silcrete after fine and med thin bedded sst. Slope W.	< 6 mm loam	0.13	0.46	20	0.9	19.9	43.5	70	
Tregony	20015	613850	7860500	Colluvial qtz 20%, trace grey qtz with Fe spots after sulphides, silcrete after fine grained sediments. Slope E, near drainage line.	< 6 mm loam	0.1	0.08	12	0.5	18.3	0.3	15	
Tregony	20016	613875	7860500	Fine sand and silt only, drainage line	< 6 mm loam	0.11	0.49	15	0.7	27.3	2	15	
Tregony	20017	613900	7860500	Fine sand and silt, trace pisolites, drainage line	< 6 mm loam	0.12	0.46	15	0.6	34.1	1.12	13	
Tregony	20018	613925	7860500	Fine sand and silt, trace pisolites, edge of drainage line	< 6 mm loam	0.08	0.17	10	0.6	17.8	0.3	5	
Tregony	20019	613950	7860500	Colluvial silcrete to 5 cm, 15%qtz, pisolites, gentle NW slope, Some silcrete after med and fg seds	< 6 mm loam	0.15	0.26	12	0.6	28.1	0.56	8	
Tregony	20020	613975	7860500	Colluvial silcrete to 0.5 cm, NE slope,	< 6 mm loam	0.09	0.12	12	0.6	16.4	0.18	5	
Tregony	20021	614000	7860500	Traces silcrete , 25%qtz, pisolites, W slope near drainage line, Some silcrete/ferricrete breccia	< 6 mm loam	0.1	0.16	11	0.5	21.7	0.2	5	
Tregony	20022	613500	7859600	Colluvial silcrete to 10 cm, trace qtz, pisolites, flat, Some silcrete after qtz bearing sandstone size rock.	< 6 mm loam	0.19	0.5	13	0.6	42.4	0.51	16	
Tregony	20023	613525	7859600	Colluvial silcrete and abundant small pisolites, tr qtz. Gentle W slope.	< 6 mm loam	0.19	0.27	16	0.6	39.5	0.38	21	
Tregony	20024	613550	7859600	Colluvial silcrete to 5 cm, abundant small pisolites, flat.	< 6 mm loam	0.13	0.4	12	0.6	36.7	0.49	13	
Tregony	20025	613575	7859600	Traces silcrete to 0.5 cm, silt. Flat	< 6 mm loam	0.17	0.49	14	0.7	46.1	0.67	15	83.9

Grid Name	Sample No	Coords AMG		Description	Sample Type	Bi	Cu	Cu	Mo	Mo	Zn	Zn	p75u
		East	North			ppm	ppm	ppm	ppm	ppb	ppm	ppm	%
Tregony	20026	613600	7859600	Silt and trace pisolites.	< 6 mm loam	0.16	0.56	16	0.7	49.9	0.72	16	
Tregony	20027	613625	7859600	Silt and trace pisolites. Slight W slope.	< 6 mm loam	0.13	0.48	14	0.6	32.1	0.62	15	
Tregony	20028	613650	7859600	Silt with pisolite lag, silcrete lag to 5 cm. W slope.	< 6 mm loam	0.17	0.28	15	0.7	43	0.35	17	
Tregony	20029	613675	7859600	Silt with pisolite lag, silcrete lag to 5 cm. Gentle W slope.	< 6 mm loam	0.17	0.26	13	0.7	36.3	0.69	24	
Tregony	20030	613700	7859600	Abundant small pisolites, moderate W slope.	< 6 mm loam	0.15	0.52	16	0.6	46.2	0.39	16	
Tregony	20031	613725	7859600	Silcrete lag to 2 cm, minor pisolites, tr qtz, flat.	< 6 mm loam	0.1	0.56	12	0.5	39.5	0.5	12	
Tregony	20032	613750	7859600	Silcrete lag to 5 cm, pisolites to 1 cm, some silcrete after sst size rock. Moderate W slope.	< 6 mm loam	0.12	0.2	16	0.5	33.8	0.27	16	
Tregony	20033	613775	7859600	Silcrete lag to 5 cm, pisolites to 1.5 cm. Moderate W slope.	< 6 mm loam	0.13	0.17	16	0.5	32.7	0.32	16	
Tregony	20034	613800	7859600	Silcrete lag to 15 cm, pisolites to 1.5 cm. Gentle W slope.	< 6 mm loam	0.14	0.14	11	0.6	25.6	0.26	13	
Tregony	20035	613825	7859600	Silcrete lag to 5 cm, pisolites to 1 cm. Gentle W slope. Some silcrete after qtz bearing thin bedded sst and slst.	< 6 mm loam	0.13	0.3	11	0.5	32.8	0.3	10	
Tregony	20036	613850	7859600	Silcrete lag to 10 cm, pisolites to 1 cm. Trace qtz. Moderate W slope.	< 6 mm loam	0.17	0.17	12	0.6	28.2	0.28	10	
Tregony	20037	613875	7859600	Silt with pisolites to 0.5cm, silcrete lag to 5 cm, 1% qtz. Flat.	< 6 mm loam	0.16	0.22	13	0.7	39.2	0.27	13	
Tregony	20038	613900	7859600	Minor silcrete lag to 2 cm, pisolites to 0.3 cm. Gentle W slope.	< 6 mm loam	0.16	0.51	13	0.7	32.7	0.34	20	

Grid Name	Sample No	Coords AMG		Description	Sample Type	Bi	Cu	Cu	Mo	Mo	Zn	Zn	p75u
		East	North			ppm	ppm	ppm	ppm	ppb	ppm	ppm	m
Tregony	20039	613925	7859600	Silcrete lag to 5 cm, Heavy cover of pisolites to 2 cm. Trace qtz. Gentle SW slope.	< 6 mm loam	0.16	0.19	16	0.7	28.4	0.26	17	
Tregony	20040	613950	7859600	Minor silcrete lag to 3 cm, pisolites to 2 cm. Moderate SW slope.	< 6 mm loam	0.12	0.29	14	0.6	24.9	0.21	13	
Tregony	20041	613975	7859600	All lag Fe stained or Fe, max size 10 cm. Moderate SW slope.	< 6 mm loam	0.05	0.18	8	0.3	23.1	0.21	6	
Tregony	20042	614000	7859600	Heavy cover of Fe lag and moderate silcrete lag to 3 cm. Moderate slope S.	< 6 mm loam	0.09	0.15	10	0.5	19.7	0.23	10	
Tregony	20043	613500	7859750	Silt with minor pisolites, minor W slope	< 6 mm loam	0.13	0.91	19	0.7	32	0.68	23	
Tregony	20044	613525	7859750	Minor silcrete lag to 2 cm, pisolites to 2 cm. 1 silcrete to 15 cm. Gentle NW slope.	< 6 mm loam	0.16	0.65	17	0.9	28.4	0.58	21	
Tregony	20045	613550	7859750	Silcrete lag to 3 cm, abundant small pisolites. Gentle W slope.	< 6 mm loam	0.19	0.51	14	0.8	27.6	0.59	27	
Tregony	20046	613575	7859750	Silcrete lag to 5 cm, pisolites to 1 cm. Gentle W slope.	< 6 mm loam	0.14	0.37	16	0.7	32.1	0.43	21	
Tregony	20047	613600	7859750	Silcrete lag to 5 cm, pisolites to 1 cm, Qtz 1%. Gentle NW slope.	< 6 mm loam	0.15	0.26	14	0.6	29.7	0.27	29	
Tregony	20048	613625	7859750	Lag 50%, silcrete lag to 10 cm 20%, pisolites 30%, Gentle NW slope.	< 6 mm loam	0.13	0.51	15	0.7	28.1	0.41	20	
Tregony	20049	613650	7859750	Lag 90%, silcrete lag to 10 cm 30%, pisolites to 2 cm 60%, NW slope.	< 6 mm loam	0.17	0.31	18	0.6	31.6	0.4	32	
Tregony	20050	613675	7859750	Lag 85%, silcrete lag to 10 cm 10%, pisolites to 2 cm 75%, tr Qtz, NW slope.	< 6 mm loam	0.14	0.38	19	0.6	31.2	0.35	31	82.3
Tregony	20051	613700	7859750	Lag 90%, silcrete lag to 5 cm , pisolites to 5 cm , W slope.	< 6 mm loam	0.2	0.32	18	0.7	30.5	0.32	31	
Tregony	20052	613725	7859750	Lag 60%, silcrete lag to 5 cm 15%, pisolites to 3 cm 45%, W slope.	< 6 mm loam	0.14	0.21	15	0.6	29.8	0.26	19	

Grid Name	Sample No	Coords AMG		Description	Sample Type	Bi	Cu	Cu	Mo	Mo	Zn		p75u
		East	North			ppm	ppm	ppm	ppm	ppb	ppm	ppm	%
Tregony	20053	613750	7859750	Silt with 15% pisolites in drainage line.	< 6 mm loam	0.19	0.92	19	0.8	40	1.07	31	
Tregony	20054	613775	7859750	Lag 50%, silcrete lag to 3 cm 5%, pisolites to 5 cm 45%, W slope.	< 6 mm loam	0.17	0.24	17	0.7	35.9	0.37	30	
Tregony	20055	613800	7859750	Silt with pisolites to 0.5 cm 20%	< 6 mm loam	0.1	0.37	12	0.5	27.9	0.37	16	
Tregony	20056	613825	7859750	Silt with pisolites to 0.5 cm 20% gentle W slope.	< 6 mm loam	0.16	0.35	16	0.8	26.7	0.17	20	
Tregony	20057	613850	7859750	Lag 45%, silcrete lag 5%, pisolites to 5 cm 40%, drainage line SW slope.	< 6 mm loam	0.1	0.28	11	0.5	33.4	0.25	11	
Tregony	20058	613875	7859750	Lag 30%, silcrete lag to 3 cm 5%, pisolites to 2 cm 25%, SW slope.	< 6 mm loam	0.14	0.29	11	0.6	31.7	0.2	14	
Tregony	20059	613900	7859750	Laterite o/c and lag to 15 cm, minor silcrete to 5 cm, slope W.	< 6 mm loam	0.12	0.22	11	0.5	27.3	0.32	13	
Tregony	20060	613925	7859750	Lag 95%, silcrete lag to 10 cm 80%, pisolites to 2 cm 15%, W slope.	< 6 mm loam	0.11	0.17	10	0.5	27.9	0.22	12	
Tregony	20061	613950	7859750	Lag 80%, silcrete lag to 10 cm 60%, pisolites to 2 cm 20%, W slope.	< 6 mm loam	0.14	0.29	11	0.6	34.8	0.28	21	
Tregony	20062	613975	7859750	Lag 50%, silcrete lag to 3 cm trace, pisolites to 0.3 cm 50%, W slope.	< 6 mm loam	0.18	0.19	8	0.7	29.5	0.24	30	
Tregony	20063	614000	7859750	Lag 80%, silcrete lag 5%, pisolites 75%, SW slope.	< 6 mm loam	0.16	0.42	11	0.6	32.2	0.3	25	
Tregony	20064	613500	7860000	Silt with 2% pisolites to 0.3 cm, flat.	< 6 mm loam	0.17	0.3	12	0.7	42.9	0.83	32	
Tregony	20065	613525	7860000	Silt with 2% pisolites to 0.3 cm, flat.	< 6 mm loam	0.18	0.23	14	0.6	35.8	0.52	32	

Grid Name	Sample No	Coords AMG		Description	Sample Type	Bi	Cu	Cu	Mo	Mo	Zn		p75u
		East	North			ppm	ppm	ppm	ppm	ppb	ppm	ppm	%
Tregony	20066	613550	7860000	Silt with trace pisolites to 0.3 cm, flat.	< 6 mm loam	0.15	0.53	12	0.8	33.3	0.61	25	
Tregony	20067	613575	7860000	Silt with 10% pisolites to 0.3 cm, slight SW slope.	< 6 mm loam	0.16	0.34	12	0.7	34.8	0.63	28	
Tregony	20068	613600	7860000	Silt with 10% pisolites to 0.3 cm, tr Qtz, slight SW slope.	< 6 mm loam	0.15	0.51	14	0.7	29.4	1.06	27	
Tregony	20069	613625	7860000	Silt with 10% pisolites to 0.5 cm, 1% silcrete to 1 cm, flat.	< 6 mm loam	0.1	0.76	12	0.6	30.3	1.03	15	
Tregony	20070	613650	7860000	Silt with trace pisolites to 0.2 cm, flat.	< 6 mm loam	0.17	0.14	19	0.7	31.7	16.7	109	
Tregony	20071	613675	7860000	Silt with organics, slight W slope.	< 6 mm loam	0.16	0.3	14	0.6	35.9	1.2	31	
Tregony	20072	613700	7860000	Lag 40%, silcrete lag to 2 cm 15%, pisolites to 1 cm 25%, W slope.	< 6 mm loam	0.14	1.2	16	0.7	44.3	2.54	26	
Tregony	20073	613725	7860000	Lag 50%, silcrete lag to 4 cm 2%, pisolites to 1 cm 48%, gentle W slope.	< 6 mm loam	0.15	0.23	15	0.5	39.1	0.85	40	
Tregony	20074	613750	7860000	Lag 100%, silcrete lag to 5 cm 5%, pisolites to 1.5 cm 95%, W slope.	< 6 mm loam	0.13	0.19	14	0.6	31.1	1.21	46	
Tregony	20075	613775	7860000	Lag 100%, silcrete lag to 5 cm 5%, pisolites to 2 cm 95%, W slope.	< 6 mm loam	0.13	0.18	12	0.5	28.2	0.78	24	85
Tregony	20076	613800	7860000	Lag 90%, silcrete lag to 5 cm 60%, pisolites to 2 cm 30%, mod W slope.	< 6 mm loam	0.16	0.26	12	0.7	25.3	0.45	23	
Tregony	20077	613825	7860000	Lag 15%, silcrete lag to 1 cm tr, pisolites to 0.3 cm 15%, edge drainage area.	< 6 mm loam	0.13	0.13	8	0.5	28.6	0.24	16	
Tregony	20078	613850	7860000	Lag 95%, silcrete lag to 5 cm 30%, pisolites to 1 cm 30%, qtz to 5 cm 35%, mod W slope.	< 6 mm loam	0.16	0.12	15	0.6	24.9	0.27	43	

Grid Name	Sample No	Coords AMG		Description	Sample Type	Bi	Cu	Cu	Mo	Mo	Zn		p75u
		East	North			ppm	ppm	ppm	ppm	ppb	ppm	ppm	%
Tregony	20079	613875	7860000	Lag 100%, silcrete lag to 5 cm 80%, pisolites to 2 cm 19%, qtz to 5 cm 1%, slope W.	< 6 mm loam	0.15	0.15	13	0.6	21.3	0.35	33	
Tregony	20080	613900	7860000	Silcrete o/c and lag to 20 cm 90%, slope NW.	< 6 mm loam	0.14	0.17	14	0.6	23.4	0.19	24	
Tregony	20081	613925	7860000	Remnant of older surface, 100% lag, Fe lag 100% to 5 cm, flat.	< 6 mm loam	0.16	0.16	13	0.6	25.6	0.27	29	
Tregony	20082	613950	7860000	Remnant of older surface, 100% lag, Fe lag 100% to 5 cm, flat.	< 6 mm loam	0.21	0.25	11	0.7	24.7	0.48	17	
Tregony	20083	613975	7860000	Lag 10%, qtz + silcrete lag to 0.2 cm 8%, pisolites to 0.2 cm 2%, flat drainage to NE.	< 6 mm loam	0.19	0.35	9	0.5	44.6	0.28	16	
Tregony	20084	614000	7860000	Silt, slope E, tr pisolites to 0.5 cm and tr silcrete to 0.3 cm.	< 6 mm loam								

## **Appendix 2**

### **Drainage Sample Data**

**EL 23454**



## **Appendix 3**

### **Soil and Rock Chip Sample Data**

**EL 23454**

Grid Name	Sample No	Coords AMG		Description	Sample Type	Analyses					
		East	North			Au	Ag	As	Cu	Mo	Zn
					soil	ppb	ppb	ppm	ppm	ppb	ppm
						0.01	0.1	0.02	0.01	0.5	0.05
Battery Hill	20085	611080	7876885	Suplejack Sandstone lag with 5% quartz veining, flat on top of hill	< 6 mm loam	0.05	2	X	0.31	18	0.27
Battery Hill	20086	611106	7876880	Suplejack Sandstone lag with 1% quartz veining, gentle S slope.	< 6 mm loam	0.08	2	X	0.34	22.7	0.31
Battery Hill	20087	611113	7876875	Suplejack Sandstone lag with 10% quartz veining, gentle S slope.	< 6 mm loam	0.1	1.8	X	0.22	17.1	0.25
Battery Hill	20088	611157	7876868	Suplejack Sandstone lag with 20% quartz veining, mod SW slope. 5m from qtz veins	< 6 mm loam	0.08	3.1	X	0.77	19.5	0.37
Battery Hill	20089	611190	7876863	Suplejack Sandstone lag with 10% quartz veining, gentle SW slope. 5m from qtz veins	< 6 mm loam	0.03	1.7	X	0.25	14.6	0.19
Battery Hill	20090	611209	7876858	Suplejack Sandstone lag with 15% quartz veining, flat top.	< 6 mm loam	0.08	1.9	X	0.21	15.4	0.18
Battery Hill	20091	611232	7876854	Suplejack Sandstone lag with 7% quartz veining, gentle NE slope.	< 6 mm loam	0.05	2.1	X	0.36	18.5	0.25
Battery Hill	20092	611256	7876850	Suplejack Sandstone lag with 2% quartz veining, NE slope.	< 6 mm loam	0.12	1.9	X	0.19	14.3	0.24
Battery Hill	20093	611282	7876843	Suplejack Sandstone lag with 5% quartz veining, NE slope.	< 6 mm loam	0.06	2.1	X	0.31	18.7	0.3
Crusade S	20094	611188	7877662	Lag 50%, Suplejack Sst. 47%, qtz vein and breccia 2%, Fe lag 1%	< 6 mm loam	0.19	3.4	X	1.99	22.9	0.51
Crusade S	20095	611217	7877664	Lag 20%, Suplejack Sst. 15%, qtz vein and breccia 5%	< 6 mm loam	0.14	2.9	X	0.97	28.7	0.43
Crusade S	20096	611245	7877665	Lag 40%, Suplejack Sst. 20%, qtz vein and breccia 20%	< 6 mm loam	0.26	4.4	X	1.56	32.6	0.68
Crusade S	20097	611264	7877662	Lag 50%, Suplejack Sst. 10%, qtz vein and breccia 40%	< 6 mm loam	0.28	2.8	X	0.41	22.4	0.49

Grid Name	Sample No	Coords AMG		Description	Sample Type	Analyses					
		East	North			Au	Ag	As	Cu	Mo	Zn
Crusade S	20098	611290	7877661	Lag 20%, Suplejack Sst. 5%, qtz vein and breccia 15%	< 6 mm loam	0.4	5.3	X	1.87	32.1	0.68
Crusade S	20099	611314	7877665	Lag 20%, Suplejack Sst. 14%, qtz vein and breccia 6%	< 6 mm loam	0.28	5.1	X	1.56	40.1	0.65
Crusade S	20100	611337	7877658	Lag 15%, Suplejack Sst. 100%, qtz vein and breccia trace%	< 6 mm loam	0.14	4.7	X	1.93	36.5	0.93
Crusade S	20101	611364	7877659	Lag 5%, Suplejack Sst. 1%, Fe pisolites 4%	< 6 mm loam	0.12	4.6	X	1.54	23.8	0.68
Far South East	20102	615739	7857928	Lag 20%, pisolites to 0.4 cm 100%, 1 to 2 cm, flat.	< 6 mm loam	0.08	1.7	X	0.16	15.8	0.19
Far South East	20103	615765	7857924	Lag 20%, pisolites to 0.3 cm 100%, 1 silcrete 2 cm, flat.	< 6 mm loam	0.07	1.4	X	0.12	13	0.17
Far South East	20104	615791	7857924	Lag 15%, pisolites to 0.3 cm 100%, 1 silcrete 2 cm, flat.	< 6 mm loam	0.16	2.3	X	0.16	18.5	0.13
Far South East	20105	615817	7857921	Lag 20%, pisolites 100%, tr silcrete 1 cm, flat.	< 6 mm loam	0.13	2.3	X	0.43	22.5	0.26
Far South East	20106	615844	7857922	Lag 15%, pisolites 100%, tr silcrete 2 cm, fragment of Micaceous sst, Suplejack Sst? flat.	< 6 mm loam	0.1	2.7	X	0.18	21.9	0.19
Far South East	20107	615866	7857922	Lag 5%, pisolites to 0.2 cm 100%, 2 silcrete to 3 cm, 10x10 cm Suplejack Sst, fg micaceous, flat.	< 6 mm loam	0.12	3.1	X	0.3	22.9	0.18
Far South East	20108	615890	7857921	Lag 5%, pisolites 100%, 1x silcrete 1 cm, 1x3cm qtz, flat.	< 6 mm loam	0.12	3	X	0.21	23.4	0.15
Far South East	20109	615919	7857922	Lag 3%, pisolites 100%, 1x0.5cm qtz, 1xqtz vein in slst, 1x fg sst, Suplejack Sst?, flat.	< 6 mm loam	0.14	3	X	0.2	25.6	0.13
Far South East	20110	615944	7857919	Lag 10%, pisolites 100%.	< 6 mm loam	0.08	1.4	X	0.08	12.7	0.15
Far South East	20111	615970	7857919	Lag 15%, pisolites 100%, tr silcrete 0.3 cm, flat.	< 6 mm loam	0.14	2.7	X	0.22	23	0.19
Far South East	20112	615998	7857920	Lag 7%, pisolites 100% to 1 cm, 1x1cm qtz with ex pyrite pits, tr silcrete 0.3 cm, flat.	< 6 mm loam	0.12	2.3	X	0.18	24.3	0.14
Far South East	20113	616022	7857918	Lag 10%, pisolites 100% to 0.3 cm, 1x1cm med sst, Suplejack Sst?, flat.	< 6 mm loam	0.09	2.3	X	0.2	17.5	0.14
Far South East	20114	616045	7857920	Lag 10%, pisolites 100% to 1 cm, 1x5cm and 1x1cm qtz, flat.	< 6 mm loam	0.11	2.2	X	0.11	18.4	0.12

Grid Name	Sample No	Coords AMG		Description	Sample Type	Analyses					
		East	North			Au	Ag	As	Cu	Mo	Zn
Far South East	20115	616069	7857916	Lag 5%, pisolites 100% to 0.2 cm, 1x3cm qtz, 1x2cm silcrete, flat.	< 6 mm loam	0.09	1.5	X	0.1	13.2	0.16
Far South East	20116	616098	7857919	Lag 5%, pisolites 100% to 0.2 cm, 1x0.3cm silcrete, flat.	< 6 mm loam	0.08	1.7	X	0.14	17.6	0.12
Far South East	20117	616122	7857917	Lag 5%, pisolites 100% to 0.3 cm, 1x3cm silcrete, flat.	< 6 mm loam	0.11	1.4	X	0.2	16.7	0.13
Far South East	20118	616148	7857916	Lag 7%, pisolites 100% to 0.3 cm, flat.	< 6 mm loam	0.07	2.3	X	0.19	24.1	0.17
Far South East	20119	616173	7857915	Lag10%, pisolites 100%, 1x1 cm mineralised look qtz, 1x3 cm fine grained intermediate-felsic feldspar porphyry intrusive, flat.	< 6 mm loam	0.14	2.1	X	0.18	20.8	0.16
Far South East	20120	616197	7857916	Lag 10%, pisolites 100% to 0.3 cm, flat.	< 6 mm loam	0.05	1.6	X	0.15	16.5	0.17
Far South East	20121	616223	7857914	Lag 10%, pisolites 100%, 4x qtz to 3cm, laterite to 2 cm, flat.	< 6 mm loam	0.07	1.8	X	0.15	16.7	0.12
Far South East	20122	616247	7857913	Lag 10%, pisolites 100% to 0.3 cm, 1x qtz to 1cm, flat.	< 6 mm loam	0.09	2	0.02	0.23	27.4	0.19
Far South East	20123	616273	7857911	Lag 10%, pisolites 100% to 0.3 cm, 2x qtz to 1cm, 1x0.3 silcrete, flat.	< 6 mm loam	0.07	1.4	X	0.11	17.5	0.14
Far South East	20124	616299	7857912	Lag 15%, pisolites 100% to 0.75 cm, 4x qtz to 4cm, 1x3cm silcrete, flat.	< 6 mm loam	0.07	1.4	X	0.14	17	0.13
Far South East	20125	616322	7857912	Lag 20%, pisolites 100% to 0.4 cm, 2x qtz to 0.3cm, flat.	< 6 mm loam	0.07	1.6	X	0.08	17.8	0.24
Far South East	20126	616343	7857912	Lag 10%, pisolites 100% to 0.4 cm, 1x qtz to 1cm, subangular with mod rounding, flat.	< 6 mm loam	0.13	1.8	X	0.12	16.7	0.14
Far South East	20127	616373	7857912	Lag 30%, pisolites 100% to 0.3 cm, 1x qtz to 1cm, 1x qtz to 0.3cm, flat.	< 6 mm loam	0.04	1.6	X	0.27	16.6	0.31
Far South East	20128	616398	7857910	Lag 15%, pisolites 100% to 0.3 cm, flat.	< 6 mm loam	0.08	1.5	X	0.14	15.3	0.13
Far South East	20129	616422	7857909	Lag 7%, pisolites 100% to 0.3 cm, flat.	< 6 mm loam	0.07	1.3	X	0.13	15.6	0.18
Far South East	20130	616449	7857908	Lag 25%, pisolites 100% to 0.3 cm, flat.	< 6 mm loam	0.05	1.3	X	0.11	18.7	0.14
Far South East	20131	616474	7857908	Lag 20%, pisolites 100% to 0.5 cm, 1x qtz to 1cm, flat.	< 6 mm loam	0.05	1.6	X	0.15	23.9	0.15

Grid Name	Sample No	Coords AMG		Description	Sample Type	Analyses					
		East	North			Au	Ag	As	Cu	Mo	Zn
Far South East	20132	616498	7857908	Lag 20%, pisolites 100% to 0.5 cm, 1x qtz to 0.5cm, flat.	< 6 mm loam	0.05	1	X	0.08	15.3	0.17
Far South East	20133	616521	7857907	Lag 15%, pisolites 100% to 0.4 cm, 1x silcrete to 0.75cm, flat.	< 6 mm loam	0.05	1.5	X	0.2	18.8	0.18
Far South East	20134	616548	7857907	Lag 7%, pisolites 100% to 0.4 cm, flat.	< 6 mm loam	0.03	1.1	X	0.15	16.5	0.13
Far South East	20135	616574	7857907	Lag 25%, pisolites 100% to 0.3 cm, flat.	< 6 mm loam	0.05	1	X	0.11	12.2	0.17
Far South East	20136	616600	7857905	Lag 75%, pisolites 100% to 0.5 cm, flat.	< 6 mm loam	0.02	1	X	0.1	12.7	0.17
Far South East	20137	616626	7857906	Lag 15%, pisolites 100% to 0.2 cm, flat.	< 6 mm loam	0.16	0.9	X	0.1	12.1	0.22
Far South East	20138	616650	7857904	Lag 15%, pisolites 100% to 0.3 cm, flat.	< 6 mm loam	0.04	0.8	X	0.23	12.4	0.19
Far South East	20139	616676	7857902	Lag 20%, pisolites 100% to 0.5 cm, flat.	< 6 mm loam	0.03	1	X	0.22	15.9	0.2
Far South East	20140	616700	7857903	Lag 25%, pisolites 100% to 0.5 cm, 1x qtz to 1cm,flat.	< 6 mm loam	0.06	0.9	X	0.09	13.2	0.16
Far South East	20141	616725	7857902	Lag 15%, pisolites 100% to 0.3 cm, trace to 1cm,flat.	< 6 mm loam	0.05	1	X	0.27	16.6	0.25
Far South East	20142	616751	7857899	Lag 30%, pisolites 100% to 0.5 cm, 1% to 1cm,flat.	< 6 mm loam	0.06	1.1	X	0.1	13.9	0.19
Fuel Line	20143	615601	7860362	Lag 25%, pisolites 70% to 2 cm, 30% quartz to 15cm,flat.	< 6 mm loam	0.12	1.8	X	0.15	19	0.26
Fuel Line	20144	615622	7860384	Lag 20%, pisolites 90% to 1 cm, 10% quartz to 5cm,flat.	< 6 mm loam	0.16	2.2	X	0.22	23.1	0.19
Donald	20200	613150	7855250	Slope gentle SW, Fe 95%, silcrete 4%, qtz 1%, lag to 20mm	< 2 mm loam	0.08	4.8		0.41	21.7	0.23
Donald	20201	613175	7855250	Slope gentle SW, sand 50%, Fe 4%, silcrete 45%, qtz 1%, lag to 25mm	< 2 mm loam	0.45	3.2		0.34	22.3	0.2
Donald	20202	613200	7855250	Slope gentle W, sand 25%, Fe 4%, silcrete 70%, qtz 1%,	< 2 mm loam	0.3	2		0.3	21.8	0.22
Donald	20203	613225	7855250	Slope moderate W, sand 0%, Fe 70%, silcrete 29%, qtz 1%,	< 2 mm loam	0.16	2.2		0.41	22.6	0.16
Donald	20204	613250	7855250	Slope gentle W, sand 0%, Fe 70%, silcrete 10%, qtz 20%,	< 2 mm loam	0.11	2.4		0.21	22.7	0.17

Grid Name	Sample No	Coords AMG		Description	Sample Type	Analyses					
		East	North			Au	Ag	As	Cu	Mo	Zn
Donald	20205	613275	7855250	Slope gentle SW, sand 0%, Fe 70%, silcrete 15%, qtz 25%,	< 2 mm loam	0.09	2		0.22	21.9	0.19
Donald	20206	613300	7855250	Slope gentle SW, sand 0%, Fe 30%, silcrete 50%, qtz 20%, lag to 100 mm	< 2 mm loam	0.11	2		0.7	22.8	0.36
Donald	20207	613325	7855250	Slope gentle SW, sand 0%, Fe 70%, silcrete 15%, qtz 25%, lag to 50 mm	< 2 mm loam	0.13	2.6		0.52	24.8	0.24
Donald	20208	613350	7855250	Slope moderate W, sand 0%, Fe 8%, silcrete 90%, qtz 2%, lag to 200 mm	< 2 mm loam	0.11	3.2		0.33	22	0.26
Donald	20209	613375	7855250	Slope moderate NW, near top, sand 0%, Fe 5%, silcrete 95%, qtz 0%, lag to 200 mm	< 2 mm loam	0.11	3		0.46	19.4	0.21
Donald	20210	613400	7855250	Slope top, sand 0%, Fe 97% and outcrop, silcrete 2%, qtz 1%, lag to 20 mm	< 2 mm loam	0.52	2.3		0.2	16.3	0.15
Donald	20211	613425	7855250	Slope gentle ESE, sand 50%, Fe 50% silcrete 0%, qtz 0%, lag to 20 mm	< 2 mm loam	0.05	2.7		0.19	17.8	0.23
Donald	20212	613450	7855250	Slope gentle ESE, sand 80%, Fe 20% silcrete 0%, qtz 0%, lag to 20 mm	< 2 mm loam	0.06	2.1		0.18	12.8	0.18
Donald	20213	613475	7855250	Slope gentle S drainage line, sand 99%, Fe 1% silcrete 0%, qtz 0%, lag to 20 mm	< 2 mm loam	0.03	2.1		0.35	15.2	0.38
Donald	20214	613500	7855250	Slope gentle SW, sand 50%, Fe 50% silcrete 0%, qtz 0%, lag to 30 mm	< 2 mm loam	0.12	2.6		0.24	21.1	0.13
Donald	20215	613525	7855250	Slope gentle E, sand 70%, Fe 30% silcrete 0%, qtz trace%, lag to 30 mm	< 2 mm loam	0.07	2.2		0.28	21.4	0.14
Donald	20216	613550	7855250	Slope gentle S, sand 80%, Fe 15% silcrete 5%, qtz 0%, lag to 50 mm	< 2 mm loam	0.04	1.5		0.26	13.8	0.12
Donald	20217	613150	7855350	Slope gentle W, sand 50%, Fe 50% silcrete 0%, qtz trace%, lag to 20 mm	< 2 mm loam	0.03	3.1		0.5	17	0.37
Donald	20218	613175	7855350	Slope gentle W, sand 50%, Fe 50% silcrete trace%, qtz trace%, lag to 40 mm	< 2 mm loam	0.29	4.4		0.46	17.5	0.17
Donald	20219	613200	7855350	Slope gentle W, sand 19%, Fe 80% silcrete 0%, qtz 1%,	< 2 mm loam	0.38	3.6		0.7	20.7	0.74

Grid Name	Sample No	Coords AMG		Description	Sample Type	Analyses					
		East	North			Au	Ag	As	Cu	Mo	Zn
Donald	20220	613225	7855350	Slope gentle W, sand 10%, Fe 45% silcrete 30%, qtz 15%, lag to 50 mm	< 2 mm loam	0.11	2.7		0.26	23	0.17
Donald	20221	613250	7855350	Slope gentle W, sand 40%, Fe 30% silcrete 10%, qtz 20%, lag to 50 mm	< 2 mm loam	0.11	2.7		0.41	21.1	0.32
Donald	20222	613275	7855350	Slope gentle W, sand 95%, Fe 5% silcrete 0%, qtz 0%,	< 2 mm loam	0.04	2.6		0.57	16.2	0.32
Donald	20223	613300	7855350	Slope moderate W, sand 0%, Fe 10% silcrete 85%, qtz 5%,	< 2 mm loam	0.14	2.4		0.56	20.2	0.21
Donald	20224	613325	7855350	Slope flat, sand 90%, Fe 0% silcrete 10%, qtz 0%, lag to 50 mm	< 2 mm loam	0.26	1.6		0.19	12.4	0.16
Donald	20225	613350	7855350	Slope flat, sand 0%, Fe 1% silcrete 99% and o/c, qtz 0%,	< 2 mm loam	0.06	2.6		0.29	14.9	0.17
Donald	20226	613375	7855350	Slope flat at top of slope, sand 0%, Fe 0% silcrete o/c, qtz 0%,	< 2 mm loam	0.09	3.8		0.39	16.4	0.21
Donald	20227	613400	7855350	Slope flat, sand 0%, Fe 99% silcrete 1%, qtz 0%, lag to 30 mm	< 2 mm loam	0.14	2.2		0.17	17	0.19
Donald	20228	613425	7855350	Slope flat, sand 20%, Fe 80% silcrete 0%, qtz 0%, lag to 30 mm	< 2 mm loam	0.12	1.9		0.16	19.4	0.16
Donald	20229	613450	7855350	Slope flat, sand 20%, Fe 80% silcrete 0%, qtz 0%, lag to 20 mm	< 2 mm loam	0.24	3.1		0.69	21.6	0.25
Donald	20230	613475	7855350	Slope flat, sand 100%, Fe 0% silcrete 0%, qtz 0%, lag to 0 mm	< 2 mm loam	0.41	1.9		0.6	15.9	5.28
Donald	20231	613500	7855350	Slope flat, sand 95%, Fe 5% silcrete 0%, qtz 0%, lag to 20 mm	< 2 mm loam	0.1	1.7		0.45	19.3	0.14
Donald	20232	613525	7855350	Slope flat, sand 99%, Fe 1% silcrete 0%, qtz 0%, lag to 5 mm	< 2 mm loam	0.05	1.3		0.39	15.7	0.13
Donald	20233	613550	7855350	Slope flat, sand 95%, Fe 5% silcrete 0%, qtz 0%, lag to 25 mm	< 2 mm loam	0.07	1.8		0.29	23.7	0.11
Donald	20234	613150	7855450	Slope flat, sand 99%, Fe 1% silcrete 0%, qtz 0%, lag to 3 mm	< 2 mm loam	0.12	3.6		0.27	17.7	0.49

Grid Name	Sample No	Coords AMG		Description	Sample Type	Analyses						
		East	North		Soil	Au	Ag	As	Cu	Mo	Zn	
Donald	20235	613175	7855450	Slope flat, sand 99%, Fe 1% silcrete 0%, qtz 0%, lag to 5 mm	< 2 mm loam	0.07	2.4		0.27	16.4	0.29	
Donald	20236	613200	7855450	Slope flat, sand 99%, Fe 1% silcrete 0%, qtz 0%, lag to 3 mm	< 2 mm loam	0.06	1.4		0.57	17.5	0.4	
Donald	20237	613225	7855450	Slope flat, sand 65%, Fe 30% silcrete 0%, qtz 5%, lag to 10 mm	< 2 mm loam	0.07	1.7		0.22	15.4	0.2	
Donald	20238	613250	7855450	Slope flat, sand 25%, Fe 0% silcrete 0%, qtz 75%, lag to 100 mm	< 2 mm loam	0.07	1.8		0.21	17.8	0.24	
Donald	20239	613275	7855450	Slope gentle W, sand 50%, Fe 25% silcrete 0%, qtz 25%, lag to 75 mm	< 2 mm loam	0.1	2.6		0.46	19.2	0.31	
Donald	20240	613300	7855450	Slope gentle W, sand 15%, Fe 5% silcrete 30%, qtz 50%, lag to 75 mm	< 2 mm loam	0.08	2.5		0.44	22.1	0.36	
Donald	20241	613325	7855450	Slope gentle W, sand 15%, Fe 1% silcrete 60% outcropping, qtz 24%, lag to 50 mm	< 2 mm loam	0.09	2.7		0.55	22.5	0.58	
Donald	20242	613350	7855450	Slope gentle W, sand 5%, Fe 20% silcrete 35%, qtz 40%, lag to 200 mm	< 2 mm loam	0.08	3.1		0.32	19.7	0.48	
Donald	20243	613375	7855450	Slope moderate S, sand 4%, Fe 1%, silcrete 75%, qtz 20%, lag to 40 mm	< 2 mm loam	0.05	2.7		0.55	24.5	0.57	
Donald	20244	613400	7855450	sand 4%, Fe 1%, silcrete 75%, qtz 0%, lag to 40 mm	< 2 mm loam	0.06	1.9		0.4	17.6	0.24	
Donald	20245	613425	7855450	Slope moderate W, sand 15%, Fe 20%, silcrete 65%, qtz 0%, lag to 100 mm	< 2 mm loam	0.16	2.5		0.29	19.4	0.52	
Donald	20246	613450	7855450	Slope gentle S, sand 5%, Fe 90%, silcrete 5%, qtz 0%, lag to 50 mm	< 2 mm loam	0.09	2.6		0.29	19.7	0.21	
Donald	20247	613475	7855450	Slope gentle E, sand 2%, Fe 60%, silcrete 38%, qtz 0%, lag to 60 mm	< 2 mm loam	0.08	1.7		0.31	18.3	0.31	
Donald	20248	613500	7855450	Slope gentle N, sand 94%, Fe 5%, silcrete 1%, qtz 0%, lag to 10 mm	< 2 mm loam	0.05	1.4		0.34	13.8	0.17	
Donald	20249	613525	7855450	Slope flat, sand 98%, Fe 2%, silcrete 0%, qtz 0%, lag to 5 mm	< 2 mm loam	0.06	1.4		0.29	14.5	0.25	

Grid Name	Sample No	Coords AMG		Description	Sample Type	Analyses					
		East	North		Soil	Au	Ag	As	Cu	Mo	Zn
Donald	20250	613550	7855450	Slope flat, sand 25%, Fe 5%, silcrete 70%, qtz 0%, lag to 50 mm	< 2 mm loam	0.11	1.6		0.16	17.6	0.14
Donald	20251	613570	7855550	Slope flat, sand 50%, Fe 10%, silcrete 40%, qtz trace%, lag to 40 mm	< 2 mm loam	0.08	2		0.22	16.5	0.15
Donald	20252	613545	7855550	Slope v gentle NE, sand 0%, Fe 80%, silcrete 20%, qtz 0%,	< 2 mm loam	0.04	1.9		0.24	16.1	0.42
Donald	20253	613520	7855550	Slope flat, sand 20%, Fe 60%, silcrete 20%, qtz 0%, lag to 150 mm	< 2 mm loam	0.09	1.5		0.37	15.6	0.18
Donald	20254	613495	7855550	Slope gentle W, sand 15%, Fe 10%, silcrete 75%, qtz 0%, lag to 100 mm	< 2 mm loam	0.11	2.5		0.36	18.2	0.19
Donald	20255	613470	7855550	Slope gentle W, sand 0%, Fe 75%, silcrete 25%, qtz 0%, lag to 100 mm	< 2 mm loam	0.11	2.2		0.37	18	0.23
Donald	20256	613445	7855550	Slope gentle NW drainage line, sand 85%, Fe 3%, silcrete 12%, qtz 0%, lag to 50 mm	< 2 mm loam	0.07	2.1		0.24	15.8	0.14
Donald	20257	613420	7855550	Slope gentle NW, sand 10%, Fe 10%, silcrete 80%, qtz 0%, lag to 50 mm	< 2 mm loam	0.08	2.5		0.26	22.1	0.23
Donald	20258	613395	7855550	Slope gentle-mod W, sand 0%, Fe 70%, silcrete 30%, qtz 0%, lag to 40 mm	< 2 mm loam	0.11	2.2		0.32	24.7	0.22
Donald	20259	613370	7855550	Slope mod W, sand 0%, Fe 70%, silcrete 30%, qtz 0%, lag to 30 mm	< 2 mm loam	0.08	2.4		0.37	25.9	0.22
Donald	20260	613345	7855550	Slope gentle W, sand 5%, Fe 25%, silcrete 30%, qtz 40%,	< 2 mm loam	0.08	1.9		0.23	19.1	0.17
Donald	20261	613320	7855550	Slope flat, sand 60%, Fe 35%, silcrete 5%, qtz 0%, lag to 20 mm	< 2 mm loam	0.15	1.6		0.31	16.6	0.22
Donald	20262	613295	7855550	Slope gentle W drainage line, sand 98%, Fe 0%, silcrete 2%, qtz 0%, lag to 10 mm	< 2 mm loam	0.03	1.4		0.5	14.2	0.5
Donald	20263	613270	7855550	Slope near flat W drainage line, sand 100%, Fe 0%, silcrete 0%, qtz 0%,	< 2 mm loam	0.05	2.1		0.9	17.1	0.92
Donald	20264	613370	7855650	Slope gentle W, sand 60%, Fe 30%, silcrete 5%, qtz 5%,	< 2 mm loam	0.1	2		0.3	21.5	0.23

Grid Name	Sample No	Coords AMG		Description	Sample Type	Analyses					
		East	North			Au	Ag	As	Cu	Mo	Zn
Donald	20265	613395	7855650	Slope gentle W, sand 70%, Fe 20%, silcrete 7%, qtz 3%,	< 2 mm loam	0.13	1.7		0.24	17.4	1.15
Donald	20266	613420	7855650	Slope gentle W, sand 10%, Fe 70%, silcrete 13%, qtz 7%, lag to 75 mm	< 2 mm loam	0.03	2		0.35	18.8	0.25
Donald	20267	613445	7855650	Slope mod-steep SW, sand 0%, Fe 50%, silcrete 30%, qtz 20%,	< 2 mm loam	0.15	2		0.5	16.6	0.74
Donald	20268	613470	7855650	Slope mod-steep W, sand 0%, Fe 15%, silcrete 75%, qtz 10%, lag to 150 mm	< 2 mm loam	0.08	2.5		0.24	20.8	0.29
Donald	20269	613495	7855650	Slope moderate NW, sand 0%, Fe 10%, silcrete 30%, qtz 60%,	< 2 mm loam	0.09	3.7		0.39	23	0.53
Donald	20270	613520	7855650	Slope gentle W top of rise, sand 15%, Fe 5%, silcrete 80%,	< 2 mm loam	0.05	1.6		0.21	14.3	0.17
Donald	20271	613545	7855650	Slope v gentle W, sand 95%, Fe 2%, silcrete 3%, qtz 0%, lag to 150 mm	< 2 mm loam	0.03	1.3		0.33	12.1	0.7
Donald	20272	613570	7855650	Slope moderate NW, sand 5%, Fe 5%, silcrete 90%, qtz 0%, lag to 100 mm	< 2 mm loam	0.08	1.9		0.21	21.8	0.2
Crusade S	20273	610921	7877653	Slope gentle E, sand 70%, Fe 2%, Supp Sst 27%, qtz 1%	< 2 mm loam	0.84	5		1.21	22.7	0.44
Crusade S	20274	610946	7877653	Slope gentle SE, sand 60%, Fe 1%, Supp Sst 38%, qtz 1%	< 2 mm loam	0.21	4.6		0.76	25.3	0.39
Crusade S	20275	610972	7877652	Slope gentle SE, sand 70%, Fe 1%, Supp Sst 28%, qtz 1%	< 2 mm loam	0.24	3.5		1.1	27.3	0.48
Crusade S	20276	610997	7877652	Slope flat, sand 98%, Fe 0%, Supp Sst 2%, qtz 0%	< 2 mm loam	0.16	5.8		2.4	18.3	0.46
Crusade S	20277	611022	7877651	Slope v gentle SE, sand 98%, Fe 0%, Supp Sst 2%, qtz tr%	< 2 mm loam	0.32	5.1		2.18	24.1	0.89
Crusade S	20278	611047	7877651	Slope v gentle SE, sand 100%, Fe tr%, Supp Sst tr%, qtz 0%	< 2 mm loam	0.13	5.1		1.89	25.6	1.03
Crusade S	20279	611073	7877650	Slope v gentle SE, sand 99%, Fe tr%, Supp Sst 1%, qtz 0%	< 2 mm loam	0.21	5.9		2.26	26.8	1.46

Grid Name	Sample No	Coords AMG		Description	Sample Type	Analyses					
		East	North			Au	Ag	As	Cu	Mo	Zn
Crusade S	20280	611098	7877650	Slope flat, sand 100%, Fe 0%, Supp Sst 0%, qtz 0%	< 2 mm loam	0.31	4.9		1.45	25.2	1.13
Crusade S	20281	611123	7877649	Slope v gentle S, sand 95%, Fe 0%, Supp Sst 4%, qtz 1%	< 2 mm loam	0.17	4.2		1.31	30.5	0.57
Crusade S	20282	611148	7877649	Slope v gentle S, sand 80%, Fe tr%, Supp Sst 18%, qtz 2%	< 2 mm loam	0.36	3.3		2.79	19.3	0.75
Crusade S	20283	611174	7877648	Slope v gentle SW, sand 70%, Fe 1%, Supp Sst 28%, qtz 1%	< 2 mm loam	0.12	2.7		1.68	23.6	0.47
Crusade S	20284	611199	7877648	Slope flat, sand 95%, Fe 0%, Supp Sst 5%, qtz tr%	< 2 mm loam	0.18	3		1.71	28.7	0.67
Crusade S	20285	611224	7877647	Slope gentle E, sand 40%, Fe 2%, Supp Sst 51%, qtz 7%	< 2 mm loam	0.2	2.1		0.32	20.8	0.35
Crusade S	20286	611249	7877647	Slope gentle SE, sand 95%, Fe tr%, Supp Sst 3%, qtz 2%	< 2 mm loam	0.15	2.8		0.92	25.3	0.36
Crusade S	20287	611275	7877646	Slope v gentle SE, sand 50%, Fe 2%, Supp Sst 1%, qtz 48%	< 2 mm loam	0.33	5.2		1.08	32.1	0.44
Crusade S	20288	611300	7877646	Slope gentle SW, sand 60%, Fe 3%, Supp Sst 17%, qtz 20%	< 2 mm loam	0.21	5.7		2.44	43	1.26
Crusade S	20289	611325	7877645	Slope gentle S, sand 85%, Fe 3%, Supp Sst 6%, qtz 6%	< 2 mm loam	0.28	4.1		0.85	32.3	0.48
Crusade S	20290	611350	7877645	Slope gentle S, sand 98%, Fe tr%, Supp Sst 2%, qtz 0%	< 2 mm loam	0.15	4.8		1.94	35.7	1.25
Crusade S	20291	611376	7877644	Slope flat, sand 99%, Fe 1%, Supp Sst tr%, qtz 0%	< 2 mm loam	0.1	3.9		1.15	30	0.58
Crusade S	20292	611401	7877644	Slope v gentle S, sand 100%, Fe 0%, Supp Sst 0%, qtz 0%	< 2 mm loam	0.08	4.5		2.58	42.6	2.15
Crusade S	20293	611426	7877643	Slope v gentle S, sand 99%, Fe 1%, Supp Sst 0%, qtz tr%	< 2 mm loam	0.04	2.7		1.48	32.8	1.44
Crusade S	20294	611275	7877531	Slope v gentle S, sand 20%, Fe 3%, Supp Sst 42%, qtz 35%	< 2 mm loam	0.04	2.6		1.43	32	1.45
Crusade S	20295	611250	7877530	Slope v gentle SE, sand 15%, Fe 5%, Supp Sst 40%, qtz 40%	< 2 mm loam	0.56	2.3		0.4	35.1	0.42

Grid Name	Sample No	Coords AMG		Description	Sample Type	Analyses					
		East	North			Au	Ag	As	Cu	Mo	Zn
Crusade S	20296	611225	7877530	Slope v gentle S, sand 100%, Fe 0%, Supp Sst 0%, qtz 0%	< 2 mm loam	0.18	2.6		0.79	39	0.77
Crusade S	20297	611200	7877529	Slope v gentle SE, sand 80%, Fe 3%, Supp Sst 15%, qtz 2%	< 2 mm loam	0.1	2.9		0.92	29	0.94
Crusade S	20298	611175	7877528	Slope v gentle SE, sand 97%, Fe tr%, Supp Sst 3%, qtz 0%	< 2 mm loam	0.14	4.8		2.62	44.3	0.97
Crusade S	20299	611150	7877527	Slope v gentle SE, sand 40%, Fe 3%, Supp Sst 55%, qtz 2%	< 2 mm loam	0.33	6.4		1.2	13.9	0.3
Crusade S	20300	611125	7877527	Slope gentle SE, sand 70%, Fe 2%, Supp Sst 27%, qtz 1%	< 2 mm loam	0.32	8.3		1.47	21.2	0.55
Crusade S	20301	611100	7877526	Slope v gentle SE, sand 95%, Fe tr%, Supp Sst 5%, qtz 0%	< 2 mm loam	0.2	5.6		1.67	22	0.82
Crusade S	20302	611075	7877525	Slope v gentle SE, sand 97%, Fe tr%, Supp Sst 2%, qtz 1%	< 2 mm loam	0.22	6.9		2.13	27.5	0.83
Crusade S	20303	611050	7877525	Slope gentle SE, sand 90%, Fe 1%, Supp Sst 7%, qtz 2%	< 2 mm loam	0.19	5.8		1.13	25.4	0.42
Crusade S	20304	611025	7877524	Slope gentle E, sand 85%, Fe tr%, Supp Sst 10%, qtz 5%	< 2 mm loam	0.18	4.6		2.02	27.3	0.55
Crusade S	20305	611000	7877523	Slope gentle SE, sand 40%, Fe 5%, Supp Sst 45%, qtz 10%	< 2 mm loam	0.22	3.6		2.04	37	0.74
Crusade S	20306	610975	7877522	Slope gentle SE, sand 85%, Fe 2%, Supp Sst 10%, qtz 3%	< 2 mm loam	0.2	2.8		1.4	26.2	0.73
Crusade S	20307	610950	7877522	Slope gentle SE, sand 90%, Fe tr%, Supp Sst 8%, qtz 2%	< 2 mm loam	0.17	4.2		1.56	33.9	0.67
Crusade S	20308	610925	7877521	Slope gentle SE, sand 90%, Fe tr%, Supp Sst 8%, qtz 2%	< 2 mm loam	0.16	5.5		2.84	64.9	1.46
Crusade S	20309	611300	7877532	Slope gentle SE, sand 95%, Fe 0%, Supp Sst 4%, qtz 1%	< 2 mm loam	0.09	1.8		0.8	30.3	1.05
Crusade S	20310	611325	7877532	Slope gentle SE, sand 97%, Fe 1%, Supp Sst 2%, qtz tr%	< 2 mm loam	0.18	4		1.69	35.1	0.55
Crusade S	20311	611350	7877533	Slope gentle S, sand 30%, Fe tr%, Supp Sst 15%, qtz 0%, basalt, Fe 55%	< 2 mm loam	0.74	6.4		2.53	26.6	0.5

Grid Name	Sample No	Coords AMG		Description	Sample Type	Analyses					
		East	North			Au	Ag	As	Cu	Mo	Zn
Crusade S	20312	611375	7877534	Slope gentle SE, sand 30%, Fe 3%, Supp Sst 10%, qtz 0%, basalt 52%	< 2 mm loam	0.62	5.3		2.15	36	0.55
Crusade S	20313	611400	7877535	Slope gentle S, sand 90%, Fe 1%, Supp Sst 6%, qtz 2%, basalt 1%	< 2 mm loam	0.17	4.8		2.47	61.9	1.07
Crusade S	20314	611425	7877535	Slope gentle SE, sand 90%, Fe 1%, Supp Sst 7%, qtz 2%	< 2 mm loam	0.17	4.7		1.54	37.7	0.94
Crusade S	20315	611450	7877536	Slope gentle SE, sand 70%, Fe 3%, Supp Sst 25%, qtz 2%	< 2 mm loam	0.21	6.1		2.04	39.6	0.66
Crusade S	20316	611275	7877750	Slope gentle SE, sand 95%, Fe 2%, Supp Sst 3%, qtz 0%	< 2 mm loam	0.18	5.8		1.64	24.8	0.95
Crusade S	20317	611250	7877750	Slope gentle SE, sand 98%, Fe 1%, Supp Sst 1%, qtz 0%	< 2 mm loam	0.19	6.2		1.41	26.3	0.74
Crusade S	20318	611225	7877750	Slope gentle SE, sand 100%, Fe 0%, Supp Sst 0%, qtz 0%	< 2 mm loam	0.2	5.6		1.79	28.9	0.9
Crusade S	20319	611200	7877750	Slope gentle SE, sand 99%, Fe 1%, Supp Sst 0%, qtz 0%	< 2 mm loam	0.15	5.1		1.81	23.4	0.75
Crusade S	20320	611175	7877750	Slope gentle SE, sand 99%, Fe 1%, Supp Sst 0%, tr 0%	< 2 mm loam	0.13	5		2.07	18.3	0.99
Crusade S	20321	611150	7877750	Slope gentle SE, sand 100%, Fe 0%, Supp Sst 0%, qtz 0%	< 2 mm loam	0.14	5.1		2.11	23.5	1.27
Crusade S	20322	611125	7877750	Slope gentle SE, sand 99%, Fe 1%, Supp Sst tr%, qtz 0%	< 2 mm loam	0.15	5.4		2.17	21.8	1.11
Crusade S	20324	611100	7877750	Slope gentle SE, sand 97%, Fe 1%, Supp Sst 2%, qtz 0%	< 2 mm loam	0.09	4.7		2.34	22.7	1.65
Crusade S	20325	611075	7877750	Slope gentle SE, sand 97%, Fe 1%, Supp Sst/slst 2%, qtz 0%	< 2 mm loam	0.11	4.2		1.98	19.2	1.11
Crusade S	20326	611050	7877750	Slope gentle SE, sand 95%, Fe 2%, Supp Sst 3%, qtz 0%	< 2 mm loam	0.09	4		1.87	17.2	0.95
Crusade S	20327	611025	7877750	Slope gentle SE, sand 93%, Fe 2%, Supp Sst 5%, qtz 0%	< 2 mm loam	0.1	3.9		2.01	37.6	1.06
Crusade S	20328	611300	7877750	Slope gentle to flat SE, sand 100%, Fe tr%, Supp Sst 0%, qtz 0%	< 2 mm loam	0.1	4.2		2.47	24.5	1.74

Grid Name	Sample No	Coords AMG		Description	Sample Type	Analyses					
		East	North			Au	Ag	As	Cu	Mo	Zn
Crusade S	20329	611325	7877750	Slope gentle SE, sand 99%, Fe 1%, Supp Sst tr%, qtz 0%	< 2 mm loam	0.09	3.6		2.01	25.5	1.12
Crusade S	20330	611350	7877750	Slope gentle SE, sand 100%, Fe tr%, Supp Sst tr%, qtz 0%	< 2 mm loam	0.11	3.5		2.35	32.2	1.55
Crusade S	20331	611375	7877750	Slope flat, sand 100%, Fe tr%, Supp Sst 0%, qtz 0%	< 2 mm loam	0.08	3.1		2.48	28.1	1.37
Crusade S	20332	611400	7877750	Slope flat, sand 98%, Fe 2%, Supp Sst 0%, qtz 0%	< 2 mm loam	0.06	2.5		1.55	28	0.99
Crusade S	20333	611425	7877750	Slope flat, sand 98%, Fe 2%, Supp Sst 0%, qtz tr%	< 2 mm loam	0.1	2.4		1.81	29.6	1.43
Crusade S	20334	611275	7877850	Slope gentle SE, sand 99%, Fe 1%, Supp Sst 0%, qtz 0%	< 2 mm loam	0.08	2.9		1.92	19.7	1.14
Crusade S	20335	611252	7877859	Slope gentle SE, sand 100%, Fe 0%, Supp Sst 0%, qtz 0%	< 2 mm loam	0.05	3.2		2.59	42.4	2.64
Crusade S	20336	611229	7877869	Slope gentle SE, sand 99%, Fe 0%, Supp Sst tr%, qtz 1%	< 2 mm loam	0.12	3.3		2.01	19.4	1.14
Crusade S	20337	611205	7877878	Slope gentle SE, sand 100%, Fe 0%, Supp Sst 0%, qtz 0%	< 2 mm loam	0.15	4		2.64	31	1.56
Crusade S	20338	611182	7877888	Slope gentle SE, sand 100%, Fe 0%, Supp Sst 0%, qtz 0%	< 2 mm loam	0.05	2.9		2.92	33.4	2.52
Crusade S	20339	611159	7877897	Slope gentle SE, sand 100%, Fe 0%, Supp Sst tr%, qtz 0%	< 2 mm loam	0.06	3		2.55	33.3	2.05
Crusade S	20340	611136	7877906	Slope gentle SE, sand 100%, Fe 0%, Supp Sst 0%, qtz 0%, basalt tr%	< 2 mm loam	0.03	1.7		1.02	21.8	0.64
Crusade S	20341	611112	7877916	Slope gentle S, sand 97%, Fe 2%, Supp Sst 0%, qtz 1%	< 2 mm loam	0.05	2.8		1.75	29.7	0.95
Crusade S	20342	611089	7877925	Slope gentle SE, sand 100%, Fe 0%, Supp Sst 0%, qtz 0%	< 2 mm loam	0.03	0.8		0.49	16.3	0.51
Crusade S	20343	611300	7877850	Slope flat, sand 98%, Fe 2%, Supp Sst 0%, qtz 0%	< 2 mm loam	0.08	3.4		2.24	24.1	1.29
Crusade S	20344	611325	7877850	Slope flat, sand 95%, Fe 5%, Supp Sst 0%, qtz tr%	< 2 mm loam	0.08	3.2		2.29	26.3	1.6
Crusade S	20345	611350	7877850	Slope flat, sand 97%, Fe 3%, Supp Sst 0%, qtz 0%	< 2 mm loam	0.09	3.3		1.69	28	1.1

Grid Name	Sample No	Coords AMG		Description	Sample Type	Analyses					
		East	North			Au	Ag	As	Cu	Mo	Zn
Crusade S	20346	611375	7877850	Slope flat, sand 90%, Fe/Fe slst 10%, Supp Sst 0%, qtz 0%	< 2 mm loam	0.07	3		2.12	31.5	1.32
Crusade S	20347	611400	7877850	Slope flat, sand 98%, Fe 2%, Supp Sst 0%, qtz 0%	< 2 mm loam	0.06	2.7		2.2	30.8	1.37
Crusade S	20348	611425	7877850	Slope flat, sand 98%, Fe 2%, Supp Sst 0%, qtz 0%	< 2 mm loam	0.06	3		1.93	28	1.1
Crusade S	20349	611450	7877850	Slope gentle S, sand 97%, Fe 3%, Supp Sst 0%, qtz tr%	< 2 mm loam	0.06	2.8		1.87	30.7	1.27
Crusade S	20350	611275	7877950	Slope gentle SE, sand 99%, Fe 0%, Supp Sst 1%, qtz 0%	< 2 mm loam	0.06	2.6		2.14	28.5	0.92
Crusade S	20351	611249	7877950	Slope gentle S, sand 100%, Fe 0%, Supp Sst 0%, qtz 0%	< 2 mm loam	0.04	1.1		0.73	16.9	0.51
Crusade S	20352	611228	7877950	Slope gentle S, sand 100%, Fe tr%, Supp Sst 0%, qtz 0%	< 2 mm loam	0.02	0.8		0.61	18.5	0.67
Crusade S	20353	611202	7877950	Slope gentle S, sand 100%, Fe tr%, Supp Sst 0%, qtz 0%	< 2 mm loam	0.02	0.9		0.59	16.6	0.67
Crusade S	20354	611180	7877950	Slope mod S, sand 100%, Fe 0%, Supp Sst 0%, qtz 0%	< 2 mm loam	0.02	0.8		0.51	12.2	0.67
Crusade S	20355	611300	7877950	Slope v gentle SE, sand 90%, Fe 3%, Supp Sst 5%, qtz 2%	< 2 mm loam	0.05	1.9		1.35	20.3	0.63
Crusade S	20356	611325	7877950	Slope v gentle SE, sand 96%, Fe 2%, Supp Sst 2%, qtz tr%	< 2 mm loam	0.06	2		1.05	19	0.38
Crusade S	20357	611350	7877950	Slope flat, sand 98%, Fe tr%, Supp Sst 2%, qtz tr%	< 2 mm loam	0.07	1.7		1.43	20.5	0.93
Crusade S	20358	611375	7877950	Slope gentle SE, sand 97%, Fe 1%, Supp Sst 2%, qtz tr%	< 2 mm loam	0.04	2		1.33	19	0.51
Crusade S	20359	611400	7877950	Slope gentle S, sand 98%, Fe 1%, Supp Sst 1%, qtz tr%	< 2 mm loam	0.04	2.1		1.65	21.3	1
Crusade S	20360	611425	7877950	Slope v gentle SE, sand 96%, Fe 1%, Supp Sst 3%, qtz tr%	< 2 mm loam	0.06	2.2		0.92	20.8	0.49
Crusade S	20361	611450	7877950	Slope v gentle SE, sand 96%, Fe 2%, Supp Sst 2%, qtz tr%	< 2 mm loam	0.06	2.3		1.74	28.9	1.02

Grid Name	Sample No	Coords AMG		Description	Sample Type	Analyses					
		East	North		Soil	Au	Ag	As	Cu	Mo	Zn
Crusade S	20362	611475	7877950	Slope v gentle S, sand 95%, Fe 3%, Supp Sst 2%, qtz 0%	< 2 mm loam	0.07	2.4		2.37	25	1.63
Normandy Hill	20373	610153	7879264	Slope mod N, sand 80%, Fe 0%, Supp Sst 2%, qtz 18%	< 2 mm loam	0.06	1		0.25	13.8	0.92
Normandy Hill	20374	610179	7879263	Slope gentle NE, sand 75%, Fe 0%, Supp Sst 3%, qtz 22%	< 2 mm loam	0.04	1		0.48	18.7	0.91
Normandy Hill	20375	610205	7879262	Slope gentle N, sand 95%, Fe tr%, Supp Sst 2%, qtz 3%	< 2 mm loam	0.1	2.9		0.96	39	0.82
Normandy Hill	20376	610231	7879261	Slope flat, sand 100%, Fe 0%, Supp Sst 0%, qtz 0%	< 2 mm loam	0.11	3.4		1.21	39.6	1.32
Normandy Hill	20377	610257	7879260	Slope flat, sand 20%, Fe 0%, Supp Sst 79%, qtz 1%	< 2 mm loam	0.15	4.3		0.62	42.8	1.13
Normandy Hill	20378	610128	7879264	Slope mod NNW, sand 15%, Fe 0%, Supp Sst 25%, qtz 60%	< 2 mm loam	0.12	0.9		0.14	27.7	0.33
Normandy Hill	20379	610103	7879265	Slope gentle N, sand 10%, Fe tr%, Supp Sst 50%, qtz 40%	< 2 mm loam	0.09	0.3		0.09	29	0.18
Normandy Hill	20380	610078	7879266	Slope flat, sand 100%, Fe 0%, Supp Sst 0%, qtz 0%	< 2 mm loam	0.04	0.7		0.26	20.3	1.06
Normandy Hill	20381	610053	7879267	Slope flat, sand 100%, Fe 0%, Supp Sst 0%, qtz 0%	< 2 mm loam	0.05	1.1		0.33	20.9	0.46
Normandy Hill	20382	610153	7879163	Slope mod N, sand 0%, Fe 0%, Supp Sst 40%, qtz 60%	< 2 mm loam	0.17	3.7		0.75	33.1	0.59
Normandy Hill	20383	610127	7879163	Slope gentle NW, sand 0%, Fe tr%, Supp Sst 5%, qtz 95%	< 2 mm loam	0.2	2.1		0.4	18.8	0.36
Normandy Hill	20384	610101	7879164	Slope mod W, sand 5%, Fe 0%, Supp Sst 10%, qtz 85%	< 2 mm loam	0.16	2.5		0.8	39.2	0.7
Normandy Hill	20386	610075	7879165	Slope mod NW, sand 3%, Fe 0%, Supp Sst 17%, qtz 80%	< 2 mm loam	0.33	4		0.61	13.1	0.42
Normandy Hill	20387	610049	7879166	Slope mod NW, sand 0%, Fe 0%, Supp Sst 90%, qtz 10%	< 2 mm loam	0.24	3.6		1.43	34.8	1.11
Normandy Hill	20388	610177	7879162	Slope mod N, sand 10%, Fe tr%, Supp Sst 60%, qtz 30%	< 2 mm loam	0.1	1.9		0.43	28.2	0.32
Normandy Hill	20389	610202	7879162	Slope mod NE, sand 20%, Fe 0%, Supp Sst 70%, qtz 10%	< 2 mm loam	0.06	2.6		0.57	30.2	0.41

Grid Name	Sample No	Coords AMG		Description	Sample Type	Analyses					
		East	North		Soil	Au	Ag	As	Cu	Mo	Zn
Normandy Hill	20390	610227	7879162	Slope gentle NE, sand 3%, Fe 0%, Supp Sst 95%, qtz 2%	< 2 mm loam	0.03	1.4		0.35	18.6	0.4
Normandy Hill	20391	610252	7879162	Slope v gentle NE, sand 100%, Fe 0%, Supp Sst 0%, qtz 0%	< 2 mm loam	0.04	1.9		0.51	22.1	0.76
Normandy Hill	20392	610148	7879059	Slope mod S, sand 15%, Fe 0%, Supp Sst 5%, qtz 80%	< 2 mm loam	0.13	2.7		0.66	18.4	0.32
Normandy Hill	20393	610123	7879064	Slope mod SW, sand 15%, Fe 0%, Supp Sst 0%, qtz 85%	< 2 mm loam	0.11	2.4		0.76	29.5	0.8
Normandy Hill	20394	610098	7879069	Slope gentle W, sand 50%, Fe tr%, Supp Sst 5%, qtz 45%	< 2 mm loam	0.06	2.3		0.47	19.3	0.48
Normandy Hill	20395	610072	7879074	Slope gentle W, sand 30%, Fe tr%, Supp Sst 35%, qtz 35%	< 2 mm loam	0.09	1.9		0.68	31.7	0.62
Normandy Hill	20396	610047	7879079	Slope v gentle W, sand 95%, Fe 0%, Supp Sst 4%, qtz 1%	< 2 mm loam	0.02	1.3		0.3	17.5	0.55
Normandy Hill	20397	610174	7879059	Slope gentle SE, sand 40%, Fe 0%, Supp Sst 20%, qtz 40%	< 2 mm loam	0.11	2.2		0.66	30.1	0.51
Normandy Hill	20398	610199	7879059	Slope gentle SE, sand 60%, Fe tr%, Supp Sst 5%, qtz 35%	< 2 mm loam	0.06	2.2		0.48	34.8	0.38
Normandy Hill	20399	610225	7879060	Slope v v gentle E, sand 95%, Fe 0%, Supp Sst 1%, qtz 4%	< 2 mm loam	0.04	2.6		0.78	41	0.81
Normandy Hill	20400	610250	7879060	Slope flat, sand 20%, Fe tr%, Supp Sst 65%, qtz 15%	< 2 mm loam	0.05	1.2		0.29	23.2	0.4
Normandy Hill	20401	610146	7878960	Slope flat, sand 60%, Fe 0%, Supp Sst 35%, qtz 5%	< 2 mm loam	0.07	1.6		0.26	19	0.58
Normandy Hill	20402	610121	7878961	Slope flat, sand 100%, Fe 0%, Supp Sst 0%, qtz 0%	< 2 mm loam	0.05	3.6		1.69	48.9	4.1
Normandy Hill	20403	610095	7878962	Slope v gentle W, sand 75%, Fe tr%, Supp Sst 25%, qtz tr%	< 2 mm loam	0.08	1.9		0.67	30.4	1.25
Normandy Hill	20404	610070	7878963	Slope v v gentle W, sand 25%, Fe tr%, Supp Sst 70%, qtz 5%	< 2 mm loam	0.09	1.7		0.61	22	0.78
Normandy Hill	20405	610044	7878964	Slope v v gentle W, sand 90%, Fe 0%, Supp Sst 10%, qtz 0%	< 2 mm loam	0.05	3.1		0.93	37.3	1.51
Normandy Hill	20406	610172	7878960	Slope v v gentle W, sand 5%, Fe 1%, Supp Sst 74%, qtz 20%	< 2 mm loam	0.06	0.9		0.12	14.1	0.24

Grid Name	Sample No	Coords AMG		Description	Sample Type	Analyses					
		East	North			Au	Ag	As	Cu	Mo	Zn
Normandy Hill	20407	610197	7878960	Slope v v gentle NE, sand 30%, Fe 1%, Supp Sst 5%, qtz 64%	< 2 mm loam	0.04	1.1		0.13	12.3	0.61
Normandy Hill	20408	610222	7878960	Slope v v gentle NE, sand 15%, Fe 5%, Supp Sst 65%, qtz 15%	< 2 mm loam	0.04	1		0.12	16.7	0.52
Normandy Hill	20409	610248	7878960	Slope gentle NE, sand 15%, Fe 2%, Supp Sst 78%, qtz 5%	< 2 mm loam	0.05	2.1		0.31	9.7	0.64
Normandy Hill	20561	610140	7878760	Slope gentle NW, sand 75%, Fe 0%, Supp Sst 24%, qtz 1%	< 2 mm loam	0.07	2		0.54	30.1	0.77
Normandy Hill	20562	610115	7878760	Slope gentle W, sand 50%, Fe 0%, Supp Sst 49%, qtz 1%	< 2 mm loam	0.09	2.9		0.85	39.9	1.13
Normandy Hill	20563	610090	7878760	Slope gentle W, sand 80%, Fe 0%, Supp Sst 20%, qtz 0%	< 2 mm loam	0.09	3.1		1.48	57.8	1.53
Normandy Hill	20564	610165	7878760	Slope gentle W, sand 5%, Fe 0%, Supp Sst 80%, qtz 15%	< 2 mm loam	0.03	1.6		0.69	41.3	0.69
Normandy Hill	20565	610190	7878759	Slope gentle W, sand 25%, Fe 0%, Supp Sst 65%, qtz 10%	< 2 mm loam	0.09	2.3		0.57	45.3	0.66
Normandy Hill	20566	610215	7878758	Slope gentle NW, sand 80%, Fe 0%, Supp Sst 16%, qtz 4%	< 2 mm loam	0.07	2.6		0.62	47.5	0.72
Normandy Hill	20567	610240	7878756	Slope gentle NW, sand 60%, Fe 0%, Supp Sst 25%, qtz 15%	< 2 mm loam	0.12	3.3		1.17	58.2	2.63
Normandy Hill	20568	610265	7878755	Slope gentle N, sand 30%, Fe 0%, Supp Sst 69%, qtz 1%	< 2 mm loam	0.11	2.9		0.81	51	1.35
Normandy Hill	20569	610290	7878754	Slope gentle E, sand 20%, Fe 0%, Supp Sst 80%, qtz 0%	< 2 mm loam	0.09	2.7		0.51	43.7	0.52
Normandy Hill	20570	610135	7878660	Slope gentle W, sand 50%, Fe 0%, Supp Sst 45%, qtz 5%	< 2 mm loam	0.03	2.5		0.86	42	0.97
Normandy Hill	20571	610110	7878661	Slope gentle W, sand 40%, Fe 0%, Supp Sst 45%, qtz 15%	< 2 mm loam	0.08	1.3		0.34	26.5	0.62
Normandy Hill	20572	610089	7878662	Slope v gentle NW, sand 75%, Fe 0%, Supp Sst 20%, qtz 5%	< 2 mm loam	0.06	1.7		0.5	27.8	0.41
Normandy Hill	20573	610161	7878659	Slope mod W, sand 15%, Fe 0%, Supp Sst 30%, qtz 40%	< 2 mm loam	0.06	2.2		0.57	27.9	0.5

Grid Name	Sample No	Coords AMG		Description	Sample Type	Analyses					
		East	North			Au	Ag	As	Cu	Mo	Zn
Normandy Hill	20574	610186	7878658	Slope gentle W, sand 50%, Fe 0%, Supp Sst 30%, qtz 20%	< 2 mm loam	0.04	2.2		0.64	34.2	1.03
Normandy Hill	20575	610212	7878657	Slope gentle SW, sand 25%, Fe 0%, Supp Sst 55%, qtz 20%	< 2 mm loam	0.1	2.4		0.64	34.4	0.62
Normandy Hill	20576	610237	7878656	Slope gentle SW, sand 10%, Fe 0%, Supp Sst 70%, qtz 20%	< 2 mm loam	0.06	2.4		0.26	21.6	0.49
Normandy Hill	20577	610263	7878656	Slope gentle E, sand 15%, Fe 0%, Supp Sst 85%, qtz tr%	< 2 mm loam	0.13	2.6		0.48	28.5	0.52
PHD	20410	601280	7865000	Slope steep W, sand 15%, Fe 5%, Supp Sst 65%, qtz 15%	< 2 mm loam	0.08	2.8		0.75	23.3	0.36
PHD	20411	601305	7865000	Slope gentle N, sand 20%, Fe 0%, Supp Sst 0%, qtz 80%	< 2 mm loam	0.33	3.2		0.68	21.2	0.63
PHD	20412	601330	7865000	Slope mod E, sand 40%, Fe 1%, Supp Sst 4%, qtz 55%	< 2 mm loam	0.09	2.2		0.75	22.4	0.3
PHD	20413	601355	7865000	Slope v v gentle E, sand 99%, Fe 0%, Supp Sst 1%, qtz 0%	< 2 mm loam	0.06	2.3		0.67	15.5	0.48
PHD	20414	601380	7865000	Slope v v gentle E, sand 100%, Fe 0%, Supp Sst 0%, qtz tr%	< 2 mm loam	0.03	1.9		0.31	12.4	0.43
PHD	20415	601255	7865000	Slope gentle NW, sand 20%, Fe 0%, Supp Sst 30%, qtz 50%	< 2 mm loam	0.21	3.7		1.09	30	0.35
PHD	20416	601310	7864900	Slope gentle N, sand 15%, Fe 0%, Supp Sst 3%, qtz 82%	< 2 mm loam	0.08	2.4		0.49	18.5	0.3
PHD	20417	601335	7864900	Slope v gentle N, sand 10%, Fe 0%, Supp Sst 0%, qtz 90%	< 2 mm loam	0.19	2.7		0.39	18.8	0.17
PHD	20418	601360	7864900	Slope v gentle N, sand 50%, Fe 5%, Supp Sst 15%, qtz 30%	< 2 mm loam	0.71	4.3		0.85	19.7	0.29
PHD	20419	601385	7864900	Slope v gentle E, sand 70%, Fe 1%, Supp Sst 9%, qtz 20%	< 2 mm loam	0.31	6.2		0.52	18.3	0.25
PHD	20420	601410	7864900	Slope gentle NE, sand 50%, Fe 0%, Supp Sst 30%, qtz 20%	< 2 mm loam	0.15	12		1.19	24.7	0.69

Grid Name	Sample No	Coords AMG		Description	Sample Type	Analyses					
		East	North			Au	Ag	As	Cu	Mo	Zn
PHD	20421	601285	7864900	Slope mod-steep W, sand 0%, Fe 0%, Supp Sst 0%, qtz 100%	< 2 mm loam	0.08	3.3		0.68	20.1	0.29
PHD	20422	601260	7864900	Slope mod W, sand 15%, Fe 0%, Supp Sst 5%, qtz 80%	< 2 mm loam	0.1	2.4		0.78	23.5	0.4
PHD	20423	601235	7864900	Slope gentle W, sand 98%, Fe 0%, Supp Sst 0%, qtz 2%	< 2 mm loam	0.13	3.6		1.25	20.6	0.94
PHD	20424	601348	7864800	Slope gentle SE, sand 20%, Fe 0%, Supp Sst 5%, qtz 75%	< 2 mm loam	0.11	2.6		0.81	26.8	0.25
PHD	20425	601373	7864800	Slope steep E, sand 30%, Fe 0%, Supp Sst 1%, qtz 69%	< 2 mm loam	0.07	3.3		0.86	23.8	0.98
PHD	20426	601398	7864800	Slope mod-gentle NE, sand 30%, Fe 0%, Supp Sst 40%, qtz 30%	< 2 mm loam	0.18	3.2		0.86	19.4	0.23
PHD	20427	601423	7864800	Slope v v gentle NE, sand 95%, Fe 0%, Supp Sst 0%, qtz 5%	< 2 mm loam	0.08	1.8		0.56	23.7	0.5
PHD	20428	601448	7864800	Slope gentle NE part drainage(?), sand 99%, Fe 0%, Supp Sst 0%, qtz 1%	< 2 mm loam	0.19	3		0.94	25.8	0.66
PHD	20429	601323	7864800	Slope gentle SW, sand 40%, Fe 0%, Supp Sst 3%, qtz 57%	< 2 mm loam	0.05	3.1		0.67	22.2	0.57
PHD	20430	601298	7864800	Slope mod-steep WSW, sand 5%, Fe 0%, Supp Sst 1%, qtz 94%	< 2 mm loam	0.15	2.8		0.49	19	0.23
PHD	20431	601273	7864800	Slope v gentle W, sand 90%, Fe 0%, Supp Sst 5%, qtz 5%	< 2 mm loam	0.37	2.7		0.77	31.8	0.76
PHD	20432	601380	7864700	Slope v gentle W, sand 20%, Fe 0%, Supp Sst tr%, qtz 80%	< 2 mm loam	0.02	1.8		0.51	24	0.26
PHD	20433	601405	7864700	Slope mod E, sand 15%, Fe 0%, Supp Sst tr%, qtz 85%	< 2 mm loam	0.11	2.5		0.63	19.6	0.27
PHD	20434	601430	7864700	Slope v v gentle E, sand 60%, Fe 0%, Supp Sst 25%, qtz 15%	< 2 mm loam	0.11	1.9		0.76	20.1	0.62
PHD	20435	601455	7864700	Slope v gentle E, sand 20%, Fe 0%, Supp Sst 40%, qtz 40%	< 2 mm loam	0.24	4.2		0.95	36.5	0.79

Grid Name	Sample No	Coords AMG		Description	Sample Type	Analyses					
		East	North			Au	Ag	As	Cu	Mo	Zn
PHD	20436	601480	7864700	Slope gentle E, sand 15%, Fe 0%, Supp Sst 15%, qtz 70%	< 2 mm loam	0.23	3.3		0.5	33.3	0.44
PHD	20437	601355	7864700	Slope mod NW, sand 5%, Fe 0%, Supp Sst tr%, qtz 95%	< 2 mm loam	0.1	3.3		0.44	24.5	0.25
PHD	20438	601330	7864700	Slope gentle W, sand 5%, Fe 0%, Supp Sst 40%, qtz 55%	< 2 mm loam	0.13	3		0.9	30.3	0.39
PHD	20439	601406	7864600	Slope steep W (gully), sand 5%, Fe 0%, Supp Sst tr%, qtz 95%	< 2 mm loam	0.19	2.6		1	22	0.7
PHD	20440	601431	7864600	Slope flat, sand 50%, Fe 0%, Supp Sst 20%, qtz 30%	< 2 mm loam	1.09	3.7		1.97	31.1	0.42
PHD	20441	601456	7864600	Slope flat, sand 50%, Fe 0%, Supp Sst 10%, qtz 40%	< 2 mm loam	1.37	6.2		1.24	25.9	0.5
PHD	20442	601481	7864600	Slope flat, sand 95%, Fe 0%, Supp Sst 2%, qtz 3%	< 2 mm loam	0.14	1.4		0.41	15	0.57
PHD	20443	601381	7864600	Slope gentle W, sand 5%, Fe 0%, Supp Sst 5%, qtz 90%	< 2 mm loam	0.21	2.6		1.9	21.6	1.68
PHD	20444	601356	7864600	Slope flat, sand 90%, Fe 0%, Supp Sst 2%, qtz 8%	< 2 mm loam	0.12	2.2		1.69	16.2	1.88
PHD	20445	601452	7864494	Slope gentle WSW, sand 5%, Fe 0%, Supp Sst 5%, qtz 95%	< 2 mm loam	0.2	3.4		0.7	22.1	0.38
PHD	20446	601477	7864494	Slope gentle-mod E, sand 5%, Fe 0%, Supp Sst tr%, qtz 95%	< 2 mm loam	0.23	4.4		0.58	26.4	0.32
PHD	20447	601502	7864494	Slope flat, sand 30%, Fe 0%, Supp Sst 30%, qtz 40%	< 2 mm loam	0.28	3.3		0.7	24.8	0.62
PHD	20448	601527	7864494	Slope flat, sand 85%, Fe 0%, Supp Sst 5%, qtz 10%	< 2 mm loam	0.7	5.7		1.31	40	2.42
PHD	20449	601552	7864494	Slope flat, sand 55%, Fe 0%, Supp Sst 15%, qtz 30%	< 2 mm loam	1.08	4.3		0.91	29.1	0.91
PHD	20450	601427	7864494	Slope gentle WSW, sand 5%, Fe 0%, Supp Sst 15%, qtz 80%	< 2 mm loam	0.14	3		0.88	25.3	0.85
PHD	20451	601402	7864494	Slope mod WSW, sand 10%, Fe 0%, Supp Sst 5%, qtz 85%	< 2 mm loam	0.11	3		1.72	23.3	0.63

Grid Name	Sample No	Coords AMG		Description	Sample Type	Analyses					
		East	North			Au	Ag	As	Cu	Mo	Zn
PHD	20452	601377	7864494	Slope gentle W, sand 20%, Fe 0%, Supp Sst 40%, qtz 40%	< 2 mm loam	0.19	3.4		3.18	31.4	0.72
PHD	20453	601515	7864400	Slope gentle-mod E, sand 15%, Fe 0%, Supp Sst %, qtz 85%	< 2 mm loam	10.7	4.9		1.28	28	0.31
PHD	20454	601540	7864400	Slope flat, sand 80%, Fe 0%, Supp Sst 12%, qtz 8%	< 2 mm loam	1.19	4.3		1.28	41.9	1.28
PHD	20455	601565	7864400	Slope flat, sand 50%, Fe 0%, Supp Sst 35%, qtz 15%	< 2 mm loam	0.42	4.7		0.53	33.1	0.58
PHD	20456	601590	7864400	Slope v v gentle W, sand 50%, Fe 0%, Supp Sst 45%, qtz 5%	< 2 mm loam	0.47	4.6		0.43	36.1	0.66
PHD	20457	601615	7864400	Slope v v gentle E, sand 90%, Fe 0%, Supp Sst 9%, qtz 1%	< 2 mm loam	0.74	5.7		1.21	49.3	1.11
PHD	20458	601490	7864400	Slope gentle W, sand 15%, Fe 0%, Supp Sst 70%, qtz 15%	< 2 mm loam	3.14	4.2		0.99	27.8	0.48
PHD	20459	601465	7864400	Slope gentle E, sand 15%, Fe 0%, Supp Sst 3%, qtz 47%	< 2 mm loam	0.49	3.1		1.27	25.8	1.71
PHD	20460	601440	7864400	Slope v v gentle N, sand 90%, Fe 1%, Supp Sst tr%, qtz 9%	< 2 mm loam	0.85	3		2.04	23.9	1.61
PHD	20461	601513	7864300	Slope flat top, sand 5%, Fe 0%, Supp Sst 0%, qtz 95%	< 2 mm loam	0.9	2.6		0.45	23.6	0.39
PHD	20462	601538	7864300	Slope v gentle E, sand 20%, Fe 0%, Supp Sst 55%, qtz 25%	< 2 mm loam	5.29	2.4		0.55	19.8	0.34
PHD	20463	601563	7864300	Slope gentle NE, sand 50%, Fe 0%, Supp Sst 35%, qtz 15%	< 2 mm loam	5.42	4.5		0.6	24.4	0.42
PHD	20464	601588	7864300	Slope v gentle N, sand 70%, Fe 0%, Supp Sst 27%, qtz 3%	< 2 mm loam	1.43	3.8		0.68	31.1	0.35
PHD	20465	601488	7864300	Slope v gentle W, sand 70%, Fe 0%, Supp Sst 1%, qtz 29%	< 2 mm loam	0.38	2.3		0.91	20.6	0.61
PHD	20466	601463	7864300	Slope v v gentle N, sand 85%, Fe 7%, Supp Sst 3%, qtz 5%	< 2 mm loam	0.48	3.6		2	33.4	2.89
PHD	20467	601580	7864200	Slope v gentle NW, sand 70%, Fe tr%, Supp Sst 20%, qtz 10%	< 2 mm loam	3.48	6.1		1.04	33.9	0.41

Grid Name	Sample No	Coords AMG		Description	Sample Type	Analyses					
		East	North			Au	Ag	As	Cu	Mo	Zn
PHD	20468	601605	7864200	Slope mod E, sand 10%, Fe tr%, Supp Sst 10%, qtz 80%	< 2 mm loam	0.71	3.2		0.32	21	0.23
PHD	20469	601630	7864200	Slope mod E, sand 10%, Fe 0%, Supp Sst 60%, qtz30%	< 2 mm loam	1.03	3.7		0.32	20.4	0.45
PHD	20470	601655	7864200	Slope flat to E, sand 97%, Fe 1%, Supp Sst tr%, qtz 2%	< 2 mm loam	0.53	1.6		0.41	12.6	0.52
PHD	20471	601680	7864200	Slope flat to S, sand 90%, Fe tr%, Supp Sst 7%, qtz 3%	< 2 mm loam	0.49	3.8		1.5	26.7	1.94
PHD	20472	601555	7864200	Slope flat, sand 99%, Fe 0%, Supp Sst 0%, qtz 1%	< 2 mm loam	1.53	3.7		1.1	23	1.05
PHD	20473	601530	7864200	Slope gentle W, sand 80%, Fe 0%, Supp Sst 0%, qtz 20%	< 2 mm loam	0.95	4.2		1.63	29.1	2.11
PHD	20474	601600	7864100	Slope gentle SW, sand 20%, Fe 0%, Supp Sst 50%, qtz 30%	< 2 mm loam	0.58	3.8		0.56	26.3	0.41
PHD	20475	601625	7864100	Slope mod E, sand 20%, Fe 0%, Supp Sst 20%, qtz 60%	< 2 mm loam	0.65	3.2		0.42	23.5	0.29
PHD	20476	601650	7864100	Slope v v gentle E, sand 95%, Fe 0%, Supp Sst4%, qtz 1%	< 2 mm loam	0.51	1.9		0.37	12.9	0.36
PHD	20477	601675	7864100	Slope mod E, sand 10%, Fe 0%, Supp Sst 20%, qtz 70%	< 2 mm loam	0.91	2.5		0.73	17.5	0.4
PHD	20478	601700	7864100	Slope flat, sand 100%, Fe 0%, Supp Sst 0%, qtz 0%	< 2 mm loam	0.79	4.2		2.09	38.2	3.33
PHD	20479	601575	7864100	Slope flat, sand 95%, Fe 0%, Supp Sst 4%, qtz 1%	< 2 mm loam	0.79	2.8		1.58	26.6	0.47
PHD	20480	601550	7864100	Slope gentle W, sand 80%, Fe 1%, Supp Sst 16%, qtz 3%	< 2 mm loam	0.52	3.3		4.54	35	1.5
PHD	20481	601525	7864100	Slope flat, sand 95%, Fe 0%, Supp Sst 5%, qtz 0%	< 2 mm loam	0.15	2.7		3.57	27.1	3.44
PHD	20482	600900	7865218	Slope v v gentle SE, sand 99%, Fe tr%, Supp Sst 1%, qtz tr%	< 2 mm loam	0.21	4		4.76	40.6	2.05
PHD	20483	600925	7865218	Slope mod S, sand 98%, Fe 0%, Supp Sst 2%, qtz tr%	< 2 mm loam	0.38	3.6		5.49	31.1	1.82

Grid Name	Sample No	Coords AMG		Description	Sample Type	Analyses					
		East	North		soil	Au	Ag	As	Cu	Mo	Zn
PHD	20484	600950	7865217	Slope mod SE, sand 20%, Fe 0%, Supp Sst 65%, qtz 15%	< 2 mm loam	0.28	2.1		0.89	23.5	0.35
PHD	20485	600976	7865217	Slope mod E, sand 10%, Fe 0%, Supp Sst 50%, qtz 40%	< 2 mm loam	0.18	2.5		0.58	22.9	0.27
PHD	20486	601001	7865216	Slope mod SE, sand 30%, Fe tr%, Supp Sst 45%, qtz 25%	< 2 mm loam	0.18	2.2		0.63	15.6	0.32
PHD	20487	601027	7865216	Slope gentle SE, sand 80%, Fe tr%, Supp Sst 16%, qtz 4%	< 2 mm loam	0.16	3.7		1.16	21.6	0.92
PHD	20488	601053	7865216	Slope gentle SE, sand 95%, Fe 0%, Supp Sst 4%, qtz 1%	< 2 mm loam	0.31	4.1		0.43	18	0.24
PHD	20489	601028	7866152	Slope steep E, sand 20%, Fe 0%, Supp Sst 0%, qtz 80%	< 2 mm loam	0.76	2.9		1.59	27.2	0.48
PHD	20490	601003	7866152	Slope v steep E, sand 15%, Fe 0%, Supp Sst 0%, qtz plus o/c 85%	< 2 mm loam	0.53	3.4		4.51	35.5	1.49
PHD	20491	600978	7866153	Slope mod SW sand 10%, Fe 0%, Supp Sst 0%, qtz 90%	< 2 mm loam	0.19	3.5		0.26	20.1	0.2
PHD	20492	600953	7866153	Slope steep SW sand 10%, Fe 0%, Supp Sst 0%, qtz 90%	< 2 mm loam	0.48	2.7		0.63	17.1	0.27
PHD	20493	600928	7866154	Slope gentle E, sand 15%, Fe 0%, Supp Sst 0%, qtz 85%	< 2 mm loam	0.6	3		0.64	20.6	0.33
PHD	20494	600903	7866154	Slope mod N, sand 15%, Fe 0%, Supp Sst 0%, qtz 85%	< 2 mm loam	0.7	3.7		0.93	25.3	0.34
PHD	20495	600878	7866155	Slope steep W, sand 15%, Fe 0%, Supp Sst 0%, qtz 85%	< 2 mm loam	1.84	4.1		0.22	15.8	0.18
PHD	20496	602170	7863250	Slope v v gentle S, sand 65%, Fe 2%, Supp Sst 30%, qtz 3%	< 2 mm loam	6.66	2.5		0.61	31.4	0.7
PHD	20497	602145	7863251	Slope v v gentle S, sand 20%, Fe 0%, Supp Sst 79%, qtz 1%	< 2 mm loam	3.32	2.3		0.64	38.5	0.58
PHD	20498	602120	7863251	Slope v v gentle SE, sand 60%, Fe 0%, Supp Sst 39%, qtz 1%	< 2 mm loam	0.52	1.8		0.55	31.7	0.27
PHD	20499	602095	7863252	Slope v v gentle SE, sand 100%, Fe 0%, Supp Sst 0%, qtz 0%	< 2 mm loam	0.49	4.3		2.04	33.5	2.91

Grid Name	Sample No	Coords AMG		Description	Sample Type	Analyses					
		East	North		soil	Au	Ag	As	Cu	Mo	Zn
PHD	20500	602070	7863252	Slope v v gentle E, sand 95%, Fe 0%, Supp Slst 4%, qtz 1%	< 2 mm loam	0.5	3.1		1.64	34.9	1.66
PHD	20501	602045	7863253	Slope v v gentle NE, sand 95%, Fe 0%, Supp Slst 1%, qtz 4%	< 2 mm loam	0.42	3.4		3.33	46.5	6.7
PHD	20502	602019	7863253	Slope v v gentle NE, sand 98%, Fe 0%, Supp Slst tr%, qtz 2%	< 2 mm loam	0.35	2.7		1.69	30.9	2.3
PHD	20503	601994	7863254	Slope flat, sand 100%, Fe 0%, Supp Sst tr%, qtz 0%	< 2 mm loam	0.2	1.9		0.96	19	1.95
PHD	20504	601969	7863254	Slope flat, sand 100%, Fe 0%, Supp Sst 0%, qtz 0%	< 2 mm loam	0.24	2.5		1.65	23.9	2.11
PHD	20505	601944	7863255	Slope flat, sand 100%, Fe 0%, Supp Sst 0%, qtz 0%	< 2 mm loam	0.21	1.4		0.96	15.7	0.8
PHD	20506	601919	7863256	Slope flat, sand 100%, Fe 0%, Supp Sst 0%, qtz 0%	< 2 mm loam	0.17	2		1.54	20	1.08
PHD	20507	601894	7863256	Slope flat (drainage), sand 100%, Fe 0%, Supp Sst 0%, qtz 0%	< 2 mm loam	0.11	2.5		2.49	24	1.84
PHD	20508	601869	7863257	Slope v gentle E drainage, sand 100%, Fe 0%, Supp Sst 0%, qtz 0%	< 2 mm loam	0.09	2.7		3.21	26.3	1.76
PHD	20509	601844	7863257	Slope gentle E, sand 50%, Fe 20%, Supp Sst 5%, qtz 25%	< 2 mm loam	0.17	2.7		1.92	25.4	0.4
PHD	20510	601818	7863258	Slope mod E, sand 40%, Fe 5%, Supp Sst 20%, qtz 35%	< 2 mm loam	0.26	2.7		4.09	24.6	1.08
PHD	20511	601793	7863258	Slope gentle NW, sand 30%, Fe 7%, Supp Sst 48%, qtz 15%	< 2 mm loam	0.24	3.7		4.84	27.1	1.3
PHD	20512	601768	7863259	Slope gentle E, sand 40%, Fe 5%, Supp Sst 30%, qtz 25%	< 2 mm loam	0.2	3		3.5	108	1.19
PHD	20513	601743	7863259	Slope gentle SE, sand 30%, Fe 20%, Supp Sst 0%, qtz 50%	< 2 mm loam	0.12	2.3		2.6	26.9	1.17
PHD	20514	601718	7863260	Slope flat ridge top, sand 40%, Fe 45%, Supp Sst 0%, qtz 15%	< 2 mm loam	0.22	2.6		1.54	22.4	1.55
PHD	20515	601715	7863366	Slope v gentle SE, sand 85%, Fe 5%, Supp Sst 5%, qtz 5%	< 2 mm loam	0.17	2.7		2.09	38.6	1
PHD	20516	601740	7863365	Slope gentle SE, sand 90%, Fe 2%, Supp Sst 5%, qtz 3%	< 2 mm loam	0.1	2.1		2.55	31.6	3.84
PHD	20517	601765	7863365	Slope gentle S, sand 85%, Fe 0%, Supp Sst 12%, qtz 3%	< 2 mm loam	0.15	2.8		4.11	23	2.43

Grid Name	Sample No	Coords AMG		Description	Sample Type	Analyses					
		East	North		soil	Au	Ag	As	Cu	Mo	Zn
PHD	20518	601790	7863364	Slope steep S, sand 20%, Fe 0%, Supp Sst 10%, qtz 70%	< 2 mm loam	0.16	3.3		1.57	35.5	1.13
PHD	20519	601815	7863364	Slope steep S, sand 15%, Fe 0%, Supp Sst 50%, qtz 35%	< 2 mm loam	0.22	1.9		0.63	16.2	0.55
PHD	20520	601840	7863363	Slope gentle N drainage, sand 90%, Fe 0%, Supp Sst 5%, qtz 5%	< 2 mm loam	2.07	2.8		0.81	23.2	0.28
PHD	20521	601865	7863363	Slope mod E, sand 5%, Fe 0%, Supp Sst 75%, qtz 20%	< 2 mm loam	2.09	2.6		0.71	21.4	0.77
PHD	20522	601890	7863362	Slope steep E, sand 0%, Fe tr%, Supp Sst 90%, qtz 10%	< 2 mm loam	1.05	2.3		0.49	18.2	0.41
PHD	20523	601915	7863362	Slope gentle NE, sand 5%, Fe tr%, Supp Sst 80%, qtz 15%	< 2 mm loam	0.71	2.3		0.43	19.9	0.33
PHD	20524	601941	7863361	Slope gentle NE, sand 10%, Fe 0%, Supp Sst 87%, qtz 3%	< 2 mm loam	0.46	2.8		0.71	21.3	0.38
PHD	20525	601755	7863168	Slope v gentle W, sand 70%, Fe 2%, Supp Sst 23%, qtz 5%	< 2 mm loam	0.07	3		1.55	29.9	1.28
PHD	20526	601780	7863167	Slope v v gentle E, sand 50%, Fe 3%, Supp Sst 22%, qtz 25%	< 2 mm loam	0.06	2		1.2	25.3	0.71
PHD	20527	601806	7863166	Slope gentle E, sand 60%, Fe 2%, Supp Sst 13%, qtz 25%	< 2 mm loam	0.45	2.1		2.18	22.2	1.04
PHD	20528	601831	7863166	Slope gentle E, sand 99%, Fe 0%, Supp Sst tr%, qtz 1%	< 2 mm loam	0.2	1.4		1.95	18.4	1.66
PHD	20529	601856	7863165	Slope gentle E, sand 50%, Fe 3%, Supp Sst 24%, qtz 23%	< 2 mm loam	1.31	2.7		1.61	22.5	0.26
PHD	20530	601882	7863164	Slope gentle NE drainage, sand 100%, Fe 0%, Supp Sst 0%, qtz 0%	< 2 mm loam	0.44	2.3		2.63	28.1	1.16
PHD	20531	601907	7863163	Slope gentle NE, sand 40%, Fe tr%, Supp Sst 45%, qtz 15%	< 2 mm loam	0.22	2.9		1.39	35.8	0.77
PHD	20532	601932	7863163	Slope gentle NE, sand 50%, Fe 2%, Supp Sst 25%, qtz 20%	< 2 mm loam	0.15	2.8		0.77	32.6	0.3
PHD	20533	601958	7863162	Slope mod NE, sand 40%, Fe 2%, Supp Sst 18%, qtz 20%	< 2 mm loam	0.09	1.8		0.68	18.9	0.34

Grid Name	Sample No	Coords AMG		Description	Sample Type	Analyses					
		East	North		soil	Au	Ag	As	Cu	Mo	Zn
PHD	20534	601983	7863161	Slope gentle NE, sand 60%, Fe 1%, Supp Sst 36%, qtz 3%	< 2 mm loam	0.07	2.7		0.95	31.5	0.65
Timothy	20536	608234	7870100	Slope gentle NW, sand 20%, Fe 0%, Supp Sst 55%, qtz 25%	< 2 mm loam	0.07	2.3		0.39	19.1	0.2
Timothy	20537	608259	7870099	Slope mod NE, sand 20%, Fe 0%, Supp Sst 79%, qtz 1%	< 2 mm loam	0.09	2.2		0.4	18.4	0.24
Timothy	20538	608283	7870097	Slope steep NE, sand 10%, Fe 0%, Supp Sst 85%, qtz 5%	< 2 mm loam	0.02	2.7		0.42	14.8	0.18
Timothy	20539	608308	7870096	Slope steep E, sand 20%, Fe 0%, Supp Sst 60%, qtz 20%	< 2 mm loam	0.01	2		0.27	15.8	0.17
Timothy	20540	608332	7870094	Slope mod NE, sand 20%, Fe 0%, Supp Sst 78%, qtz 2%	< 2 mm loam	X	1.9		0.34	15.5	0.15
Timothy	20541	608357	7870093	Slope mod SE, sand 15%, Fe 0%, Supp Sst 84%, qtz 1%	< 2 mm loam	X	0.8		0.1	11.8	0.19
Timothy	20542	608381	7870091	Slope mod-steep SE, sand 15%, Fe 0%, Supp Sst 80%, qtz 5%	< 2 mm loam	0.02	1.9		0.2	17.1	0.23
Timothy	20543	608205	7870203	Slope gentle W, sand 40%, Fe 0%, Supp Sst 45%, qtz 15%	< 2 mm loam	0.02	2.5		0.34	17	0.26
Timothy	20544	608230	7870201	Slope gentle N, sand 40%, Fe 0%, Supp Sst 50%, qtz 10%	< 2 mm loam	X	1.9		0.23	15.3	0.25
Timothy	20545	608255	7870199	Slope steep E, sand 20%, Fe tr%, Supp Sst 25%, qtz 55%	< 2 mm loam	X	1.7		0.07	14	0.13
Timothy	20546	608280	7870197	Slope steep E, sand 15%, Fe tr%, Supp Sst 35%, qtz 50%	< 2 mm loam	0.04	2.1		0.18	18.3	0.2
Timothy	20547	608304	7870195	Slope mod-steep E, sand 40%, Fe 1%, Supp Sst 35%, qtz 25%	< 2 mm loam	X	1.9		0.21	12.3	0.14
Timothy	20548	608191	7870302	Slope gentle SW, sand 30%, Fe 0%, Supp Sst 50%, qtz 20%	< 2 mm loam	0.03	2.4		0.18	15.7	0.16
Timothy	20549	608214	7870302	Slope mod E, sand 25%, Fe 0%, Supp Sst 35%, qtz 40%	< 2 mm loam	0.02	2.8		0.26	20.3	0.16

Grid Name	Sample No	Coords AMG		Description	Sample Type	Analyses					
		East	North			Au	Ag	As	Cu	Mo	Zn
Timothy	20550	608237	7870302	Slope mod-steep E, sand 25%, Fe 0%, Supp Sst 50%, qtz 25%	< 2 mm loam	0.03	2.2		0.17	14.1	0.15
Timothy	20551	608260	7870303	Slope mod-steep SE, sand 30%, Fe 0%, Supp Sst 55%, qtz 15%	< 2 mm loam	X	2.1		0.41	14.4	0.27
Timothy	20552	608283	7870303	Slope mod SE, sand 60%, Fe tr%, Supp Sst 35%, qtz 5%	< 2 mm loam	0.01	1.6		0.25	14.3	0.13
Timothy	20553	608306	7870303	Slope mod E, sand 50%, Fe 0%, Supp Sst 49%, qtz 1%	< 2 mm loam	0.01	2.8		0.62	17.2	0.25
Timothy	20554	608162	7870400	Slope mod NW, sand 30%, Fe 0%, Supp Sst 60%, qtz 10%	< 2 mm loam	0.02	2.1		0.39	20.2	0.26
Timothy	20555	608187	7870399	Slope mod N, sand 30%, Fe 0%, Supp Sst 60%, qtz 10%	< 2 mm loam	0.04	1.9		0.26	18.2	0.1
Timothy	20556	608212	7870399	Slope mod N, sand 10%, Fe 0%, Supp Sst 75%, qtz 15%	< 2 mm loam	X	1.9		0.26	16.9	0.2
Timothy	20557	608237	7870398	Slope mod NE, sand 60%, Fe 0%, Supp Sst 15%, qtz 25%	< 2 mm loam	X	2		0.3	15.4	0.15
Timothy	20558	608262	7870397	Slope mod NE, sand 20%, Fe 0%, Supp Sst 60%, qtz 20%	< 2 mm loam	0.01	2.3		0.29	19.5	0.15
Timothy	20559	608287	7870397	Slope mod NE, sand 30%, Fe 0%, Supp Sst 695%, qtz 1%	< 2 mm loam	X	2.2		0.35	17.6	0.25
Timothy	20560	608311	7870396	Slope mod NE, sand 15%, Fe 0%, Supp Sst 82%, qtz 3%	< 2 mm loam	0.03	2		0.3	29.9	0.28

Prospect Name	Sample No	Coords AMG		Description	Sample Type	Analyses						
		East	North			Au	Ag	As	Cu	Mo	Pb	Zn
						ppm	ppm	ppm	ppm	ppm	ppm	ppm
						0.01	0.1	10	1	2	1	1
Tregony	20167	613792	7860611	basement under colluvium, mottled, fine grained, originally slst .	weathered rock grab	0.061						
Donald	20180	approx 613450	from 7855250 to 7855450	representative stressed quartz with tension gashes with muscovite and ironstaining in Nannygoat Volcanics	rock float	0.01		X	53	3	2	4
Donald	20190	approx 613451	from 7855250 to 7855451	representative silcrete on Nannygoat Volcanics	rock float	X		X	23	X	2	5
Donald	20191	approx 613452	from 7855250 to 7855452	representative ferruginous top to laterite overlying silcrete on Nannygoat Volcanics	rock float	0.02		124	65	2	108	202
Horseshoe Hill	20363	610501	7877502	Representative chip samples of veins in Suplejack Sst o/c 50x40 metres. Veins 100-600mm. Quartz and qtz breccia and slst/sst breccia veins with silica flooding, bedding str 165 mag, dip 40 W, veins at 15 and 265 mag.	channel	0.01		X	4	X	5	5
Horseshoe Hill	20364	610530	7877646	Representative chip samples of veins in Suplejack Sst o/c 100x30 metres. Veins 100-600mm. Quartz and qtz breccia, veins at 30 and 310-350mag.	channel	0.01		X	2	3	2	5
Horseshoe Hill	20365	610734	7877708	Representative chip samples of veins in Suplejack Sst . Veins to 200mm. Quartz and qtz breccia, some milled with chalcedony infill, veins at 20, 40 and 120mag.	channel	X		X	12	2	3	6

## **Appendix 4**

### **Magnetic Data Interpretation Report**

**EL 23454**

## **Appendix 5**

### **Summary of Results**

#### **Tregony Colluvium Bulk Sample**

### Tregony Colluvial Gold Ore Crushing Test

Sample No	Weight Bulk Sample in mm size ranges kg							Total Weight	Weight Mill Products kg				
	>92	>46<92	>24<46	>12<24	>7.5<12	>2.5<7.5	<2.5		Rifle Conc	Coarse Cyclone	Fine Cyclone	Filter fines	
TG04B1	0	1.3	16.2	41.4	27.1	54.9	221	362.10	18.6	135.75	186.9	20.85	
% weight	0	0.36	4.47	11.43	7.48	15.16	61.1		5.137	37.490	51.616	5.758	
TG04B2	0	0.95	36.95	117.5	64.5	51.45	92.7	363.95	17.40	199.00	122.80	24.8	
% weight	0	0.26	10.15	32.27	17.72	14.14	25.5		4.781	54.678	33.741	6.800	
TG04B3	0	4.5	56.95	86.55	62.3	72.6	104	387.25	13.4	212.95	142.85	18.1	
% weight	0	1.16	14.71	22.35	16.09	18.75	26.9		3.460	54.990	36.888	4.661	
Total Combined Bulk Sample Weight								1113.3					
Location	TG04B1		AGD 66 613792 7860611										
Location	TG04B2		AGD 66 613786 7860598										
Location	TG04B3		AGD 66 613786 7860647										

## Concentrate Distribution by Sample Fraction

Sample No	Weight kg	Magnetic content concentrate gm	Comments	Total fraction weight kg	Estimated total magnetic content of sample product gm	Estimated % of total concentrate present	Mill Setting	Comments
S1 Riffle	18.6		1x1mm colour, tr v fine colours, + metal inc 9 brass screw head	18.6	9	26.6	1	73.4 % of magnetic material which was equivalent to expected gold sizes did not report to riffle concentrate
S1 Coarse Cyclone	20.5	2.4	2 medium colours +metal	135.75	15.9	47.0		
S1 Fine Cyclone	23	1.1	approx 30 med to v fine colours+ metal	186.9	8.9	26.4		
S2 Riffle	17.4	5.3	1x1mm colour, tr v fine colours+metal	17.4	5.3	22.5	2	77.5 % of magnetic material which was equivalent to expected gold sizes did not report to riffle concentrate
S2 Coarse Cyclone	18.25	1	1 med colour, 1-2 v fine colours + metal	199	10.9	46.4		
S2 Fine Cyclone	18.5	1.1	2 med colours, 5 v fine colours +metal	122.8	7.3	31.1		
S3 Riffle	13.4	3.7	1x2mm ball, 1x1mm grain, 4 med colours, 4-5 fine colours + metal	13.4	3.7	14.0	2	86.0 % of magnetic material which was equivalent to expected gold sizes did not report to riffle concentrate
S3 Coarse Cyclone	21.5	1.9	1med-coarse colour, 5 v fine colours + metal	212.95	18.8	71.0		
S3 Fine Cyclone	21.5	0.6	5-10 fine-v fine colours + metal	142.85	4.0	15.0		

**Note:** coarse colour = 0.5-0.75mm, medium colour = 0.2-0.5 mm, fine colour = 0.1-0.2 mm, v fine colour = 0.1mm = limit of visual acuity  
metal was steel from sample site and mostly from attrition of mill liners

## CYCLONE PRODUCT DATA

	Cyclone Product Sizing and Gold by size fraction												GRADE	Mill Settings		
Sample No	Coarse Cyclone Product		Cyanide Au by size fraction gAu/t	Total Gold on Cyanide Residue gAu/t	Total gold in size fraction gAu/t	Fine Cyclone Product		Cyanide Au by size fraction gAu/t	Total Gold on Cyanide Residue gAu/t	Total gold in size fraction gAu/t	Riffle Product Conc mgAu/t	Riffle Product tail mgAu/t	Filter Fines mgAu/t	Weighted average gold grade mgAu/t	Setting 1	Setting 2
	size	weight				size	weight									
TG04B1	>425	1900	55.01	173	228.01	>425	285	57.95	131	188.95	1023	73	302.02	267.6	Fan 36amp, Top air full Back air full side air full rotor 9, feeder 8	
	425-150	1840	300.58	72	372.58	425-150	2608	38.31	211	249.31						
	150-100	1050	167.44	26	193.44	150-100	900	49.83	24	73.83						
	100-75	400	115.97	25	140.97	100-75	1340	26.44	27	53.44						
	<75	1150	240.11	nd	240.11	<75	3450	236.92	nd	236.92						
TG04B2	>425	4820	28.88	81	109.88	>425	530	27.01	58	85.01	1063	40	145.61	160.5	Fan 36amp, Top air half Back air full side air full rotor 9, feeder 8	
	425-150	3075	97.78	48	145.78	425-150	1675	61.31	35	96.31						
	150-105	515	47.09	11	58.09	150-105	355	100.32	16	116.32						
	105-75	240	116.53	11	127.53	105-75	360	43.98	10	53.98						
	<75	775	130.84	nd	130.84	<75	1690	114.22	nd	114.22						
TG04B3	>425	5500	65.27	46	111.27	>425	690	31.78	43	74.78	7423	95	100.18	416.4	Fan 36amp, Top air half Back air full side air full rotor 9, feeder 8	
	425-150	2950	259.89	63	322.89	425-150	1955	102.39	24	126.39						
	150-105	1280	334.48	15	349.48	150-105	925	89.22	13	102.22						
	105-75	270	443.19	11	454.19	105-75	455	43.48	10	53.48						
	<75	765	152.28	nd	152.28	<75	2700	114.82	nd	114.82						
Weghted Av Combined Bulk Sample grade mgm/t														284.3		