
MEMORANDUM

TO: ANDY TURNER, THOMAS BRANSON, SERGIO GAMONAL
FROM: JEAN PAUTLER, P.GEO.
SUBJECT: MINERALIZATION AT TOSH
DATE: 23/02/14
CC: SCOTT BERDAHL

This memo documents and discusses mineralization encountered on the Tosh property during the 2023 exploration program carried out between August 19 and 26, 2022. The property comprises the Tosh (Berdahl Minfile 115G 106) and Koose targets (Lake Minfile 115G 107) which will be discussed separately; the Tosh target refers to the northwestern claim area northwest of Tosingermann Lakes, and the Koose to the southeastern claim area west of Tincup Lake. A total of 71 rock samples were collected as shown in Table 1. All dip measurements use right hand rule. UTM co-ordinates are in Nad 83, zone 7. Sample descriptions are enclosed as Tables 1 and 2.

Table 1: Rock sample numbers for targets

Target	Dates	Sampler	Sample Numbers	No.
Tosh	August 19-23	Jean Pautler	ST075715-ST075734	20
		Matthias Bindig	ST077801-ST077819	19
		Andy Turner	ST078001-004	4
Koose	August 24-26	Jean Pautler	ST075801-ST077815	15
		Matthias Bindig	ST078051-ST078062	12
TOTAL:				70

1.0 TARGETS

1.1 Tosh (Table 1, Maps 1-4)

The Tosh target (Minfile 115G 106) constitutes an orogenic gold target with mineralization associated with structurally controlled veins, breccias and graphitic shears. Three distinct mineralized areas are evident which are tabulated below.

Table 2: Sample numbers for Tosh

Location	Sample Numbers
Yarrow zone	ST075715-723, 728, 733-734, ST077801-808, 816, 819, ST078001-004
Peska trend	ST075724-727, ST077814-815, 817-818
Discovery area	ST077829-ST077832, ST077808-813

The main focus of the 2022 exploration program was the Yarrow zone with limited examination of the Peska trend and the Discovery area. The 2022 samples are

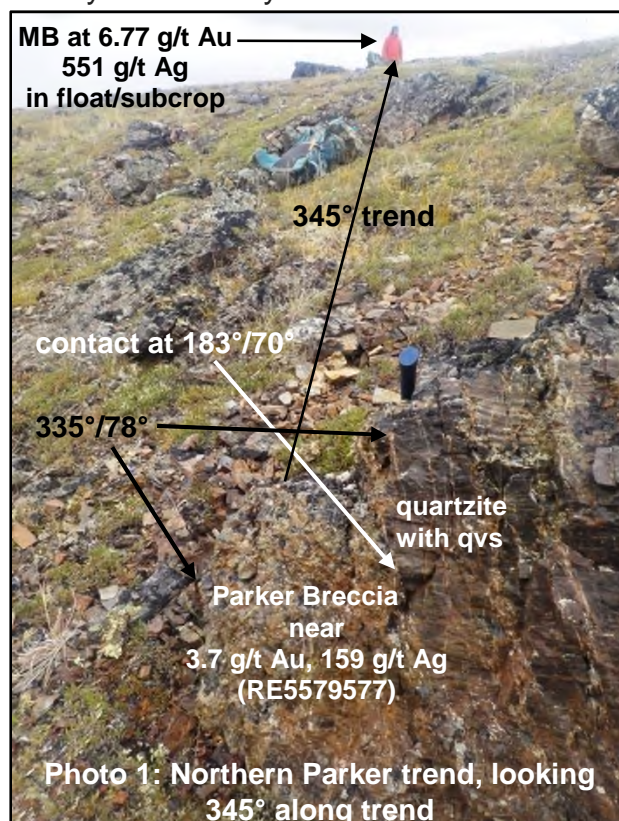
categorized below based on their composition; all contain sulphide in varying amounts. Higher gold and silver grades generally correlate with higher sulphide content, not quartz content. Sulphide minerals include arsenopyrite, pyrite, lesser chalcopyrite, galena and sphalerite, possible tetrahedrite and/or other silver bearing sulphosalts.

Table 3: Sample compositions for Tosh

Composition	Sample Numbers
brecciated quartzite-phyllite	ST075724, 728, ST077805-806, ST078004
above breccia with quartz clasts	ST075718
brecciated quartz veins	ST077807-808, 810, 812- 813, 818, 819, ST078002
quartz veins	ST075715-717, 722, 729-730, ST077801-802, 809, ST078001
quartz veinlets with host	ST075719-720, 723, ST077804, ST078003
sulphide rich beds	ST075721, ST077803, 816
graphitic shear ± quartz veins	ST075725-727, ST077811, 814-815, 817
hornfels? with po, py, ± cp, aspy	ST075731-34

The Yarrow zone (*Map 1*) comprises at least five north-northwest to northwesterly trending, and generally steeply dipping, breccia zones across 200m, discontinuously traced over distances of about 700m along strike. Gold-silver soil geochemistry is suggestive of an at least 1 km extent and possibly 1.5 km, to its possible intersection with the Peska trend at its southern extent. Most of the mineralization is exposed as talus blocks, rubblecrop and float, with lesser subcrop and rare outcrop along an alpine upland (informally referred to as Birdland Ridge). Based on an examination of historical samples from the Yarrow zone, it was found that many of the 2012 samples prefixed with “RE” (particularly along Birdland Ridge), were fairly consistently located 20m to the west, and occasionally also up to 10m north of the documented UTM readings. In addition samples returning 5.66 g/t Au with 246 g/t Ag as well as 2.91 and 1.5 g/t Au in the southern Yarrow zone appear to be sourced about 20m to the west in the vicinity of 2022 quartz vein sample ST075716.

The Parker breccia zone is the best exposed within the Yarrow zone with good exposure for 300m (*Photo 1*). The overall trend here is 345°/steep E (locally 165°/steep W), which corresponds to the strike of the somewhat sheeted quartz veins in the adjoining host rock, consisting of quartzite with lesser phyllite. A breccia/quartzite contact at RE5579671 was observed at 325°/82°, but may be slightly slumped. However, the 325° trend can be generally followed by discontinuous exposures of float, subcrop and talus for 700m. Foliation ranges from 260 to 308°/15-45°, primarily 290°/30°.



The breccias primarily consist of brecciated host rock (quartzite to phyllite), locally with quartz clasts and proximal 0.5 to at least 20 cm wide quartz ±carbonate veins. The latter are variably ribboned, well fractured to brecciated, sometimes banded and sheeted. Breccias and veins contain variable amounts of arsenopyrite, pyrite, rare chalcopyrite, possible tetrahedrite and/or other silver bearing sulphosalts (*Photo 2*). Arsenopyrite is commonly oxidized to scorodite and pyrite to limonite. Trends dominantly follow the controlling structures at 345°/steep E (locally 165°/steep W) with some at 020-030°/80°E.



In the southeastern end of the Yarrow zone 315 to 330° trends are more evident, but are based on talus, subcrop and float trains primarily within phyllite to schist. The more incompetent nature of the host rock here may have resulted in the splitting of the Yarrow zone into multiple narrower zones. Locally, sulphides have also pervaded selective beds within the Yarrow zone (*Photo 3*), resulting in a dark brownish-black colouration, heavy weight and sandy texture when oxidized. However, no significant gold results were obtained in 2022 from the beds.



The Peska trend comprises an open ended 2.1 km long by 400m wide, approximately 120° trending gold and silver in soil anomalous zone with peak values of 1.6 g/t Au and 62.1 g/t Ag and accompanying arsenic, antimony, lead and zinc. A number of sub-parallel, about 120° trending, VLF-EM conductors lie within the trend. Two zones were defined within the trend in 2014: the Vaughan zone (*Map 1*) at its upper (northwestern) margin, comprising a 325° trending graphitic shear with mm scale quartz veining, and; the Thelonius zone, near its base. Exploration within the zone has been hampered by thick vegetation with only a few samples returning significant gold-silver values in rock.

Historical sampling from the southeastern extent of the upper Peska anomalous trend (1 km at 130° along trend from the Vaughan zone) returned 3.14 g/t Au, which may correspond to 2022 sample ST075724 of rusty, hornfelsed brecciated quartzite-phyllite (*Maps 2 and 3*). This sample lies 230m along the trend of 300-305°/77° trending graphitic shears/fault, encountered in a creek to the northwest (ST075725). Crosscutting graphitic and rusty shears and fractures, 005-010°/steep and 020°/80°, transect the above structures (ST075726-7), with sulphides pervading a quartzite bed within the latter sample, proximal to a 020°/65° reverse fault. No significant gold results were obtained in 2022.

A sample of banded quartz-scorodite float about 50m upstream of the Vaughan zone in 2014 returned 3.65 g/t Au with 1146 g/t Ag. This style of mineralization is typical of the Yarrow zone, which suggests that this zone may extend over an additional 500m width resulting in a 700m by 1-1.5 km zone. Structures about 100m upstream trend 170°, similar to the Parker trend, but dip 45°W. Graphitic shears and quartz veins were sampled from this area in 2022 (ST077814-15, 18). A graphitic sulphide bearing bed was sampled about 650m along trend to the north (ST077816) with quartz vein float, 260m east of ST077816 (ST077817), further suggestive of the larger size. The Peska and Yarrow zones may intersect in the 1146 g/t Ag area (*Map 1*), continuing through to the ST075725-7 sample area (*Map 2*). No significant gold results were obtained in 2022.

The Discovery area constitutes a broad region of poor exposure and generally thick permafrost cut by several shear zones, with high gold values from various rocks and soils (peak values of 6.83 g/t Au in rock and 1.93 g/t Au in soil). The main exposure, the Discovery zone, lies at the southeast end and comprises outcrop exposures of a 150°/70° trending limonitic graphitic shear zone with scorodite and arsenopyrite, which historically returned 6.83 g/t Au from a grab sample and 3.1 g/t Au over 2m. Sample ST077811 appears to have been collected from this location in 2022. A 10m quartz outcrop lies 90m to the south, at 581057mE, 6855241mN, with limonitic fractures at 040-050°/75° and 160°/45°, locally brecciated with minor scorodite and arsenopyrite (ST077809-10). The latter fracture set is similar to that above the Vaughan zone (upper Peska trend) in the western Yarrow zone. No significant gold results were obtained in 2022. The quartz outcrop may represent a barren silicified cap. Mariposite is exposed within Discovery Creek, which drains the Discovery zone.



Photo 4: quartz outcrop (sample ST077809 -10m chip), view looking westerly

The Peska trend would intersect Discovery Ridge (the northerly trending ridge along which the Discovery zone is situated), at the location of a 500m exposure of a distinct lithological unit, a feldspar augen bearing biotite-quartz-feldspar schist; the protolith is

interpreted by the author as being sedimentary (paraschist). The intrusion protoliths are generally foliated to gneissic and coarser grained with less biotite.

The intersection also marks the beginning of a 1.1 km zone of quartz veining ending about 700m north of the Discovery zone. The orientation of the two vein exposures in place differed from previous trends. A 15 cm thick limonitic quartz vein with pyrite, arsenopyrite and brecciation especially along the hanging wall side, trends 265°/75° and was traced for 7m (ST075729-30). This vein contained the highest gold value from the 2022 program, but re-sampling of historical sample sites containing significant mineralization was not undertaken.



Graphitic quartzite with pyrrhotite, pyrite and possible arsenopyrite along bedding about 300m further south was cut by mm scale quartz-limonite fracture fillings trending 255°/60° (ST075731). This may be the site of a previous 1.44 g/t Au sample. Other samples of limonitic quartz and quartz breccia float with possible patchy arsenopyrite were collected from a saddle area, 750m north of the Discovery zone, and 140m further to the north (ST077812-13).

Hornfelsed to weakly skarn altered micaceous quartzite to phyllite with pyrrhotite, pyrite, ±chalcopyrite, are evident: at the southern Parker trend (ST075733-34), through the saddle area and above along the Peska trend (ST075724) and; below the western edge of Discovery Ridge (ST075732). No significant gold results were obtained in 2022, but previous sampling shows local values of >1 to 3.1 g/t Au.

1.2 Koose (Table 2, Map 5)

The Koose target (Minfile 115G 107) constitutes an open ended 1.9 km gold - arsenic soil anomalous zone, including 5.76 and 2.44 g/t Au, straddling the 120° trending Cretaceous Marble Top normal fault and associated ankeritic alteration. Five km of normal offset is estimated along this fault, which is cut by later strike-slip faults, a favourable orogenic gold setting. The Koose lies 12 km along trend of the Peska trend at the Tosh target. Mariposite, related to shear zones in the Discovery area of the Tosh target, is exposed along 32 Creek below the Koose target, associated with a shear and 5% pyrite and associated with a pyritic fault at sample ST075803.

The source of the high value gold soils is enigmatic at present and will depend on 2022 results. A wide variety of samples were collected in the current program in order to identify the style of the source mineralization. Extensive rock sampling was not

previously conducted with the highest value obtained being 1.29 g/t Au, with 0.9 g/t Ag and 5120 ppm As, over 30 cm from a quartz vein with brecciated clasts of schist and calcite and 5% fine sulphide (1990 sample OG11-063). Follow up in 2022 did not locate this sample, which appears to plot below marble cliffs. However, a strongly rusty 30 cm wide quartz vein with about 5% pyrite, limonitic fracture fillings and graphitic margins was discovered in 2022 as subcrop (ST075808), 325m at 155° (possibly along trend) from the 1990 sample (*Photo 6*).



Photo 6: Pyritic quartz vein on Koose, sample ST075808

The 2022 samples are categorized below based on their composition.

Table 3: Sample compositions for Koose

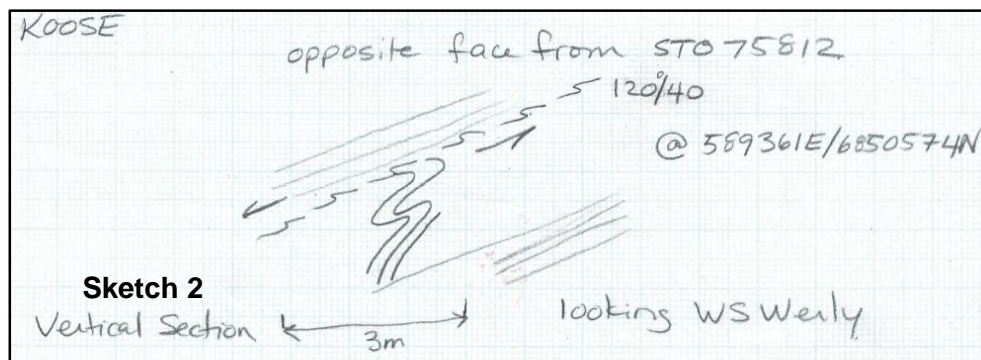
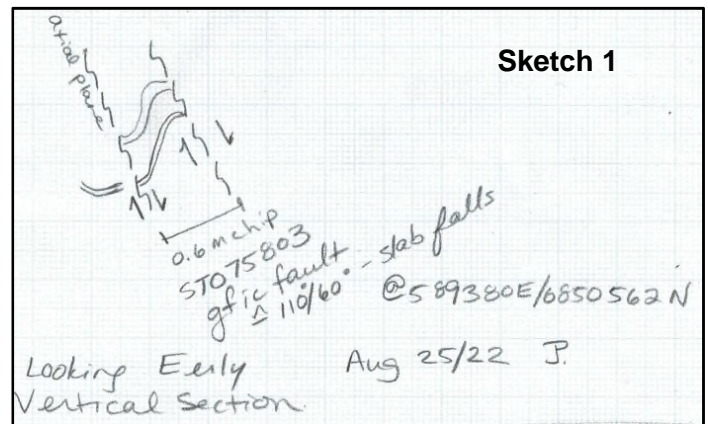
Composition	Sample Numbers
pyritic, altered schist ±limonite	ST075801, 03-04, 809, 813, ST078051, 55-56, 60
altered schist with quartz	ST075807, ST078052, ST078061-62
quartz ±carbonate veins ±breccia	ST075802, 805-06, 808, 814-15, ST078053-54
quartz in volcanoclastic schist	ST078057 (along foliation), 8058-59 (crosscutting)
fault with quartz	ST075803, 812
skarn? with pyrite, pyrrhotite	ST075810-811

An examination of the 5.76 g/t Au soil locality did not provide a definitive source for the anomaly. Samples collected from outcrop upslope consisted of pyritic quartz veins to quartz breccia (ST078053-54) and quartz-ankerite altered limonitic to pyritic schist (ST078055-56, 60).

An examination of the 2.44 g/t Au soil locality identified a quartz rich layer in the ankerite altered schist with strong hematitic alteration (ST078062) directly above it. Ankerite altered schist with pyrite and minor possible chalcopyrite ±quartz was noted above a 0.47 g/t soil anomaly and appeared to be related to a fold hinge (ST078051-52).

Quartz material was also sampled within the intermediate to mafic volcanoclastic schists in the hanging wall of the Marble Top fault, including foliation parallel (ST078057), crosscutting veining (ST078058), and brecciated (ST078059), with minor pyrite, chalcopyrite ±pyrrhotite.

Exploration along the anomalous gold in soil trend to the west was successful in delineating a number of faults which appear to control quartz, ±carbonate, vein and sulphide (mainly pyrite) bearing zones. An approximate 110°/60° graphitic normal fault was sampled by ST075803 over 60 cm (Sketch 1). This may be the Marble Top fault or a sub-parallel structure. Along strike 25m to the northwest the fault zone was sampled (ST075812) over a 30 cm width trending 120°/40° (Sketch 2).



About 10m below this, another fault trends 090°/60° which appears to show reverse movement and is cut by a 175°/70° joint set (Inset 2 on Map 5). Foliation here trends 087°/30°. A 350°/85° – 170°/80° 30 cm wide open fracture zone, which may be a fault, was encountered and soil sampled by ST075736. A parallel fault (350°/85°) with minor (30 cm) of sinistral displacement lies 45m to the east. This latter fault was traced 100m to the south where it trended 170°/80°. Still another lies 45m to the east where it may sinistrally offset the main possible Marble Top fault about 15m. Similar trending joints (165°/83°) and a 172°/62° fault are evident in the northwest Map 5 area, cutting a lower, about 110° trending, fault (Camp fault). These northerly faults are later and appear to be related to mineralization in the Parker trend of the Tosh target and are mineralized on the Cliff property.

A 0.2-0.3m wide dark green quartz-calcite-chlorite, locally schistose bed with pyrite, and local pyrrhotite near crosscutting faults is hosted by limy schists and marble in the northwest Map 5 area. It may be a skarn horizon (or possibly a metavolcanic or volcaniclastic bed or sill) (*Photo 7*) and has been deformed by folding and later faulting (ST075810-11). Pyritic, limy ankeritic schists (ST075809) and a 15 cm quartz-carbonate vein (ST075815) were also sampled in the area, with mineralization apparently controlled by the Camp fault. The historical sample containing 1.29 g/t Au in rock is probably related to this structure.



Photo 7: skarn or metavolcaniclastic bed, sample ST075810

2.0 INTERPRETATIONS and RECOMMENDATIONS

The Tosh property exhibits strong similarities to the Coffee Gold deposit, 120 km to the north. Both lie within Yukon-Tanana terrane with strong structural control, and there is a similarity in the size, morphology and tenor of the gold in soil anomalies, despite the soil coverage being much more limited at Tosh. Both exhibit multiple, long, linear, >30 ppb Au soil anomalies; the tenor is much higher on the Koose target, probably due to the steep, less vegetated terrain through the anomalous zone. The author has shown the data from the Coffee deposit for comparison only (*Figure 1*) and it is not necessarily indicative of the mineralization on the Tosh property which is the subject of this report, and does not suggest that similar results will be obtained on the Tosh property.

The Tosh property is transected by a major, anastomosing dextral strike-slip regime. The west-northwest trending Coffee Creek fault has been interpreted as a sinistral strike slip Jurassic aged fault, reactivated in the Cretaceous with dextral strike slip movement

and offset by the northwest trending Big Creek fault system. Other northeast trending sinistral fault systems are evident in the area. Steeply dipping, northerly trending structures dominate at the Supremo zone within the Coffee deposit with the Latte, Connector, Double Double, Sumatra and Kona zones trending more easterly to east-northeast (*Figure 1*).

It is important to note that drilling of grab samples containing from only 0.19 g/t Au to 3.92 g/t Au on the Kona zone at Coffee was successful in intersecting highly mineralized veins.

The main difference is the predominance of strongly competent host rocks at Coffee allowing for the development of persistent, continuous structures. The quartzite host rock in the northern Yarrow zone is competent and structures are persistent, making this area an attractive target and the Discovery zone and Discovery Ridge area have potential with evidence of quartzite host rocks, newly discovered veins and limited work. There is also evidence of a barren, possible silicified cap at the Discovery zone, which may equate to the barren pyritic quartz veins and silicification above the T2-T3 areas on the Supremo zone at Coffee. The Kooser target has less competent host rocks, but structures appear to be persistent and there may be potential for replacement style mineralization in addition to veins (Bendigo style).

2.1 Tosh

It is possible trenching may be useful on the northern Yarrow zone, Parker trend, but may produce more rubble than intact bedrock exposure. A fence of westerly directed drill holes across the zone will probably be more effective and should be located proximal to the 6.77 g/t Au anomaly in the Parker trend. Specifications can be provided at a later time. In addition, more prospecting/mapping/soil work is necessary in the Discovery Ridge to Discovery zone area and further south, based on the discovery of new quartz veins through this area and possible presence of a silica cap. The latter work can be conducted from a waterless fly camp in a saddle at approximately 581290mE, 6856000mN.

2.2 Kooser

Recommendations on Kooser still depend somewhat on results which are still pending. However, I believe Candig trenching would be useful across the 5.76 g/t Au soil area and possibly the western extent of the Camp fault. Additional prospecting/mapping work is also necessary to explore for the source of the significantly anomalous gold soils.

FIGURE 1: Comparison of Soil Anomalies from the Coffee Deposit with the Tosh and Koose targets

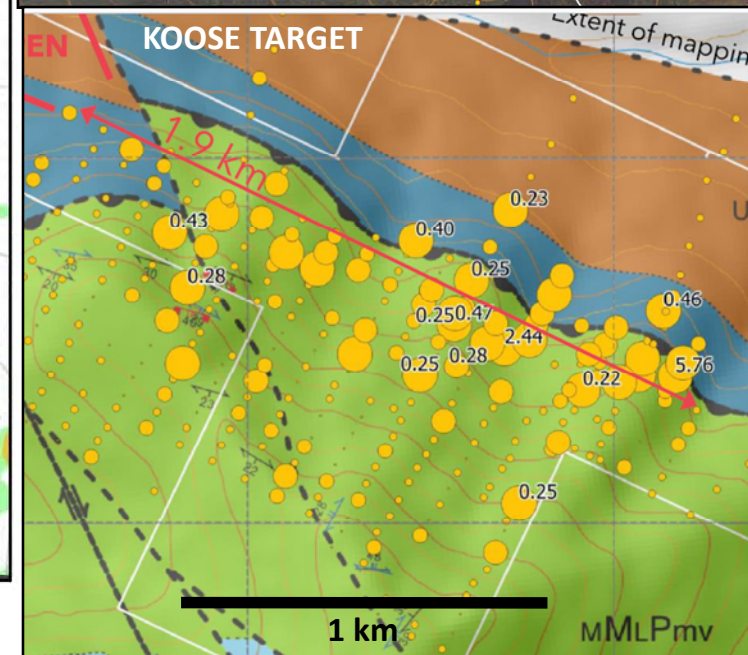
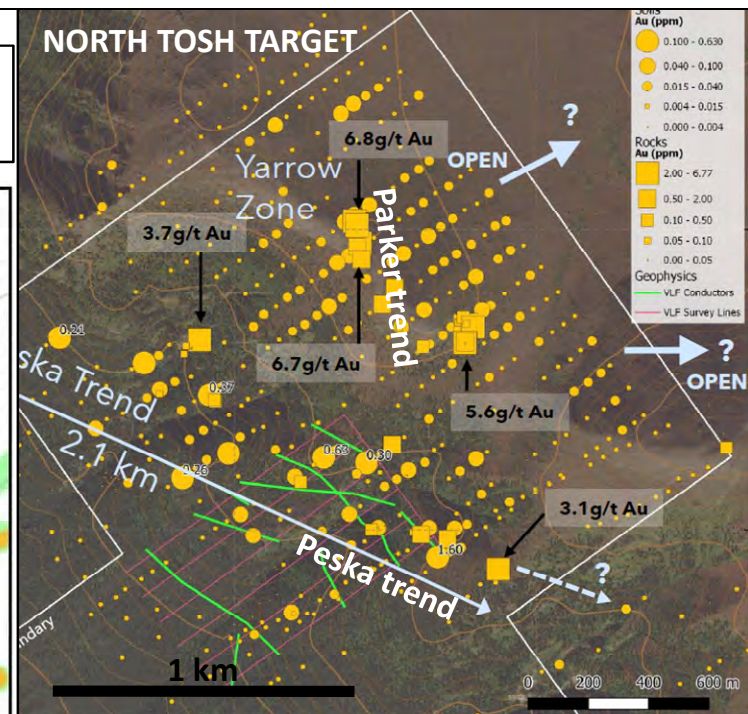
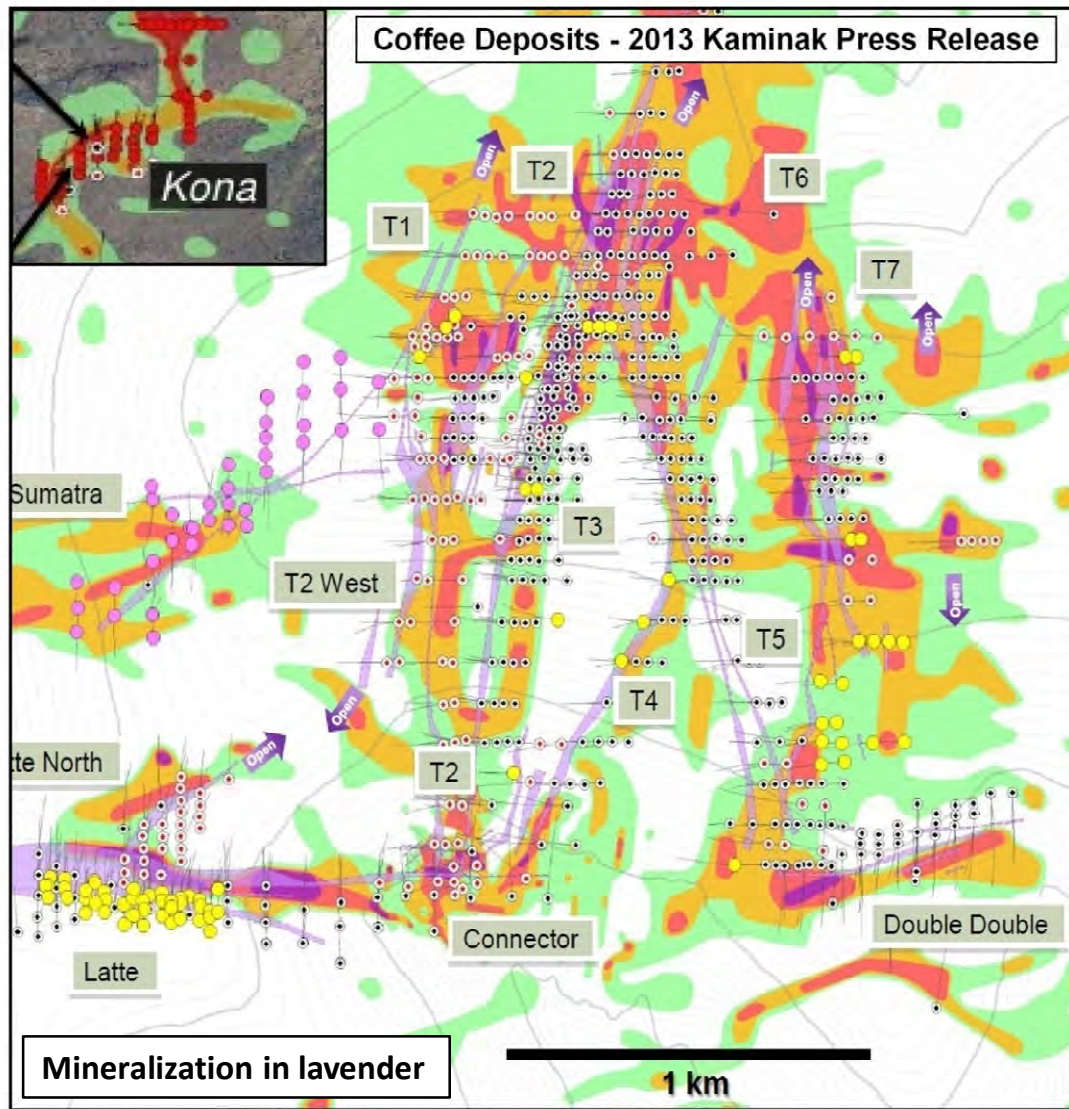


Table 1: Tosh Sample descriptions JP

SAMPLE	DATE	EASTING	NORTHING	Elev_m	TYPE	GEOLOGY	Structure	Az	Dip	ALTERATION	MINERALS	DESCRIPTION	Au g/t
ST075715	19-Aug-22	579416	6858928	1480	grab	quartz vein				weak sericite	limonite arsenopyrite	limonitic weathering quartz vein with minor limonite boxwork after pyrite along limonitic fracture fillings, ribboned graphitic bands and parallel minor arsenopyrite veinlets 1-2 mm wide, parallel to vein margins, weak sericite in vugs, fracture fillings and margins; as 20 by 30 cm float; Parker zone	0.099
ST075716	20-Aug-22	579738	6858618	1372	grab	quartz vein					limonite arsenopyrite	rusty weathering white quartz vein float with limonitic fracture fillings with limonite boxwork after pyrite, platy Mn looking arsenopyrite stringers and grey patchy zones to 1 cm (arsenopyrite?), possibly 2-3% arsenopyrite	0.041
ST075717	20-Aug-22	579705	6858647	1402	grab	quartz vein					pyrite, arsenopyrite	2 talus blocks of quartz from west side of outcrop, 20 by 30 and 20 by 40 cm size, with fresh cubic pyrite and oxidized cubic pyrite, pits boxwork after pyrite, and limonite fracture fillings, commonly sheeted, grey patches with 1-2% arsenopyrite?	0.019
ST075718	20-Aug-22	579683	6858633	1403	grab	breccia with quartz					arsenopyrite	quartzite and phyllite breccia talus train, locally rubbly, minor quartz clasts, variable clay-sericite alteration, minor arsenopyrite as stringers and clots, as float in talus train	0.098
ST075719	20-Aug-22	579696	6858628	1395	grab	phyllite					limonite	sheeted quartz veinlets crosscutting near perpendicular to bedding in phyllite with vuggy open space texture, with limonite infilling, as float in same talus train	0.087
ST075720	20-Aug-22	579684	6858639	1407	grab	quartz veins					arsenopyrite	rusty, drusy quartz veinlets to 1 cm, +/- hematite staining, strong limonite and quartz veins to 5 cm with arsenopyrite ribbons, stringers, minor oxidized cubic pyrite, as float in same talus train	0.136
ST075721	20-Aug-22	579682	6858642	1410	grab	graphitic quartzite					arsenopyrite	heavy black-brown weathering bedded graphitic quartzite with fine sulphide (aspy?), as float in same talus train	<0.005
ST075722	20-Aug-22	579420	6858938	1486	grab	quartz vein					20% arsenopyrite	heavy white quartz as talus float with platy arsenopyrite as irregular ribbons, graphitic looking	<0.005
ST075723	20-Aug-22	579506	6858679	1444	grab	quartz vein					3% pyrite	rusty weathering micaceous quartzite float with quartz along foliation with 3% pyrite in both quartz and wallrock	0.005
ST075724	21-Aug-22	579807	6857882	1278	grab	quartzite/ phyllite						rusty weathering, weakly hornfelsed, brecciated quartzite/phyllite	0.02
ST075725	21-Aug-22	579631	6857973	1166		phyllite, quartzite	shear	305	77			0.7m chip across rusty, graphitic shear trending 305/77; cutting folded phyllite/quartzite; fault at 300/77 with slickenlines plunging 25 to 300	0.011
ST075726	21-Aug-22	579603	6857987	1155		phyllite	fractures	10	90			rusty shear with 010/90 sheeted fractures through quartz in 65 cm shear zone at junction of Parker with Peska	0.007
ST075727	21-Aug-22	579593	6857991	1149		graphitic quartzite?	bedding	240	40		3-5% pyrite	graphitic sheared bed and graphitic shear at 020/65 with quartz along foliation and perpendicular veinlets to stockwork, +/- rusty, 3-5% pyrite in wallrock with minor pyrite in quartz	0.024
ST075728	22-Aug-22	580631	6858254	1567	grab	limonite breccia	joints	360	90			20 by 15 cm rusty, limonitic breccia float with limonite and goethite fracture fillings and infilling vugs and pockets, strong boxwork after sulphide, minor graphite, Mn, some brecciated quartz	0.569
ST075729	22-Aug-22	581178	6857097	1549		quartz vein	quartz vein	265	75		arsenopyrite?	12 cm quartz vein with hanging wall side with strong limonite and goethite fracture fillings for 1 cm (locally to 2 cm with interstitial quartz); quartz vein is white, rusty weathering with limonite lined fractures and local grey patches (arsenopyrite?)	1.765
ST075730	22-Aug-22	581156	6857094	1546	grab	quartz vein	quartz vein	265	75		arsenopyrite, pyrite	2 grabs from across 15 cm quartz vein (same vein as above) with sulphide (3% arsenopyrite and some oxidized cubic pyrite), limonite fracture fillings and stockwork, local brecciation, trace for 7m along strike	0.01
ST075731	22-Aug-22	581202	6856802	1504	grab	graphitic quartzite	fracture	255	60		pyrite, arsenopyrite?	graphitic quartzite with pyrrhotite along bedding and fine pyrite, arsenopyrite?, 255/60 few mm limonite - quartz fracture filling	0.008
ST075732	22-Aug-22	581407	6856400	1560	grab	micaceous quartzite					3% pyrrhotite, arsenopyrite?	float blocks of limonitic micaceous quartzite with fine 3% pyrrhotite along bedding and minor limonitic quartz veinlets approximately perpendicular to bedding, possible arsenopyrite	0.005
ST075733	23-Aug-22	579532	6858333	1290	grab	phyllite					pyrite, minor pyrrhotite, azurite,	weak to moderate rusty weathering phyllite with fine pyrite along foliation, minor azurite, possible chalcocopyrite, minor pyrrhotite	<0.005
ST075734	23-Aug-22	579523	6858287	1259	grab	phyllite					pyrite, pyrrhotite, minor chalcocopyrite?	strong rusty weathering phyllite with fine pyrite and pyrrhotite, possible chalcocopyrite as gully float from overgrown talus slide area, probably from rusty cliff above	<0.005

Table 2: Koose Sample descriptions JP

SAMPLE	DATE	EASTING	NORTHING	Elev_m	TYPE	GEOLOGY	Structure	Az	Dip	ALTERATION	MINERALS	DESCRIPTION
ST075801	24-Aug-22	589460	6850615	1309	grab	quartz-sericite-weak chlorite (brownish) schist				ankerite, silicified	7% pyrite	float found by Conor; pale greenish-grey possibly carbonate altered quartz-sericite-weakly chloritic schist; aggregates and disseminations of cubic pyrite up to 2 cm, irregular white quartz veinlets and silicified patches +/- pyrite, folded strongly deformed float
ST075802	24-Aug-22	589424	6850539	1371	grab	quartz-carb vein	foliation	115	20		minor pyrite	rusty weathering 10-15 cm quartz-carbonate vein with minor pyrite at contact of quartz-sericite-chlorite schist with more chloritic greenstone above
ST075803	25-Aug-22	589380	6850562	1372	0.6m chip	brownish schist	fault	110	60		minor pyrite	graphitic normal fault zone with minor quartz veins, limonite, pyrite, mariposite, in quartz-sericite-weak chlorite schist; slab falls, fault measurement approximate
ST075804	25-Aug-22	589371	6850566	1366	grab	brownish schist				ankerite	2% pyrite	pyritic possibly carbonate altered quartz-sericite-weakly chloritic schist; weakly limy along foliation
ST075805	25-Aug-22	589377	6850572	1365	grab	quartz-carb vein					minor pyrite	weak rusty weathering quartz-carbonate veins with pyrite, especially along margins
ST075806	25-Aug-22	589385	6850594	1341	grab	quartz veins						limonitic quartz veins with minor pyrite, dark graphitic ribbons and minor limonitic fracture fillings
ST075807	25-Aug-22	589387	6850598	1338	grab	brownish schist				limonite, ankerite	2% pyrite	finely pyritic schist with 1 cm quartz-carbonate veins with pyrite
ST075808	25-Aug-22	589351	6850576	1352	grab	quartz vein					5% pyrite	30 cm strongly rusty weathering white quartz vein with limonite fracture fillings, locally strongly rusty, strong clots of pyrite cubes to 1.5 cm, and pyrite aggregates, graphitic margins, as subcrop, not along foliation
ST075809	25-Aug-22	589084	6850877	1392	1.5m chip	brownish schist				ankerite	2-3% pyrite	rusty weathering pod of sericite-chlorite schist with pyrite knots and cubes, aggregates of cubes and disseminated along foliation, locally quartz-carbonate altered in non limy quartz-sericite-chlorite schist
ST075810	25-Aug-22	589083	6850921	1376	0.3m chip	skarn band??	bedding?	67	35		pyrite, pyrrhotite	heavy, magnetic quartz-calcite-chlorite skarn?? bed with pyrite and pyrrhotite; may be a diorite sill but skarn looking; near faults where it is faulted and folded
ST075811	25-Aug-22	589077	6850872	1393	0.3m chip	skarn band??					minor pyrrhotite	green quartz-calcite-chlorite schist - skarn?? bed, with pyrrhotite especially near crosscutting faults
ST075812	26-Aug-22	589361	6850574	1350	0.3m chip	brownish schist	fault	120	40	limonite, ankerite	limonite	2 - 30 cm chips across upper part of fault zone of rusty carbonate altered limonitic schist, some about 1 cm rusty quartz along foliation and 3 cm wide white quartz lense with black zones, minor ankerite
ST075813	26-Aug-22	589042	6850720	1464	grab	brownish schist				limonite	2% pyrite	rusty schist at greenstone contact with 2% pyrite; boxwork after pyrite, remnant pyrite knots, and pyrite along foliation, minor rusty quartz, not calcareous
ST075814	26-Aug-22	588970	6850783	1479	grab	quartz-carb vein						quartz, minor ankerite as local subcrop with limonitic fracture fillings, some chloritic margins, mostly brecciated
ST075815	26-Aug-22	589034	6850879	1406	grab	quartz-carb vein						rusty 15 cm quartz-weak carbonate vein with rusty blebby pyrite cubes and aggregates in schist outcrop with limy beds, pyrite also in adjacent wallrock
ST075735	26-Aug-22	589206	6850605	1375	soil		fracture zone	170	80W-85E			C horizon soil from open fracture zone trending 170/80 to 350/85, weakly rusty, 5 cm deep, steep slope, no vegetation, pebbly chips of schist
ST075736	26-Aug-22	588970	6850783	1479	soil							light orange C horizon soil at weakly brecciated limestone outcrop with minor orange ankerite veins, just below greenstone outcrop

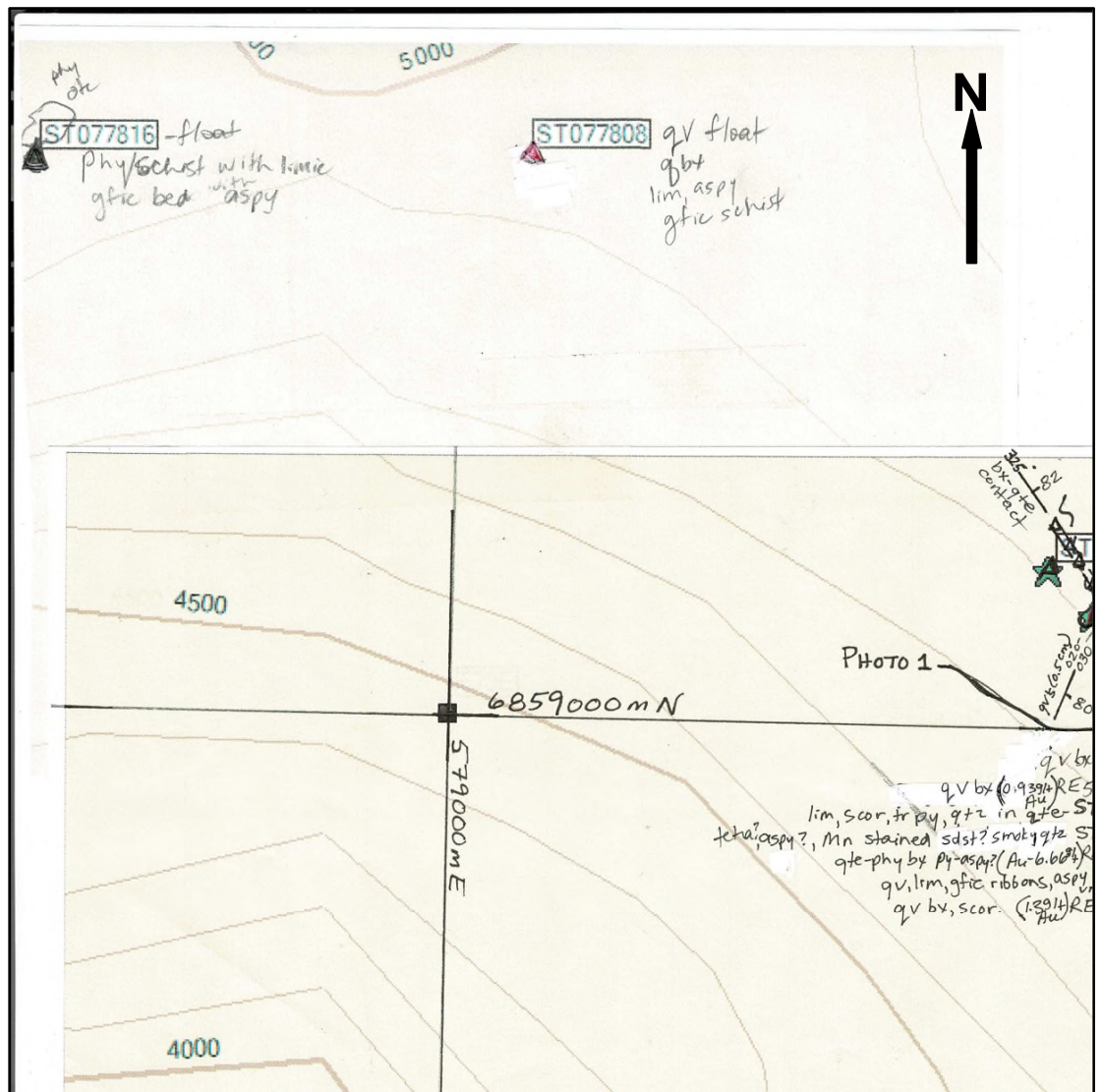
Tosh Property Waypoints JP

WPT	DATE	EASTING	NORTHING	Elev(m)	GEOLOGY	STRUCTURE	STRIKE	DIP	DESCRIPTION
ToshCamp	29-Aug-22	579905	6858439	1026					camp
2	19-Aug-22	579822	6858629	1334	PDS1				micaceous quartzite with smokey-white quartz vein along foliation; weak scorodite?
3	19-Aug-22	579809	6858632	1339	PDS1				garnet bearing schist-phyllite
4	19-Aug-22	579806	6858632	1341	PDS1				garnet bearing schist-phyllite with quartz sweats
5	19-Aug-22	579798	6858633	1346	PDS1				garnet bearing schist - phyllite as subcrop/float
6	19-Aug-22	579785	6858623	1353	PDS1				10m garnet bearing schist- phyllite subcrop/outcrop with quartz sweats
7	19-Aug-22	579759	6858616	1365	PDS1				10m garnet bearing schist - phyllite subcrop/outcrop with quartz sweats
8	19-Aug-22	579752	6858649	1376	PDS1				rusty, strong limonitic fracture fillings with weathered out sulphide (pyrite) as 5% of angular float/talus from outcrop above of garnet bearing schist/phyllite
9	19-Aug-22	579729	6858654	1387	PDS1	foliation	295	30	large outcrop of garnet bearing schist - phyllite with crosscutting quartz vein at 200/75; foliation at 295/30
9a	20-Aug-22	579731	6858652	1387	PDS1	quartz vein	200	75	large outcrop of garnet bearing schist - phyllite with crosscutting quartz vein at 200/75; foliation at 295/30
10	19-Aug-22	579726	6858701	1406	PDS1				brecciated quartz talus with graphitic matrix, strong limonite weathering and limonite, clay infilling in breccia, trace arsenopyrite??; at RE559582
11	19-Aug-22	579711	6858678	1410	PDS1				1.5m quartz sweat, along foliation
12	19-Aug-22	579659	6858675	1436	PDS1	fracture	50	77	rusty fracture plane
12a	19-Aug-22	579660	6858676	1436	PDS1	foliation	260	15	large white quartz sweat, along foliation
13	19-Aug-22	579628	6858685	1457	PDS1				claim post #2 YD30887,88
14	19-Aug-22	579537	6858798	1492	PDS1	quartz vein	248	32	in quartzite
14a	19-Aug-22	579511	6858820	1489	PDS1	foliation	308	30	quartzite
15	19-Aug-22	579511	6858820	1489	PDS1				quartz vein subcrop with minor platy arsenopyrite
16	19-Aug-22	579396	6859006	1502	PDS1				brecciated graphitic quartzite with 1 cm clasts, limonite
17	19-Aug-22	579396	6859005	1501	PDS1				old sample of brecciated quartz and quartzite with 0.3 cm clasts, limonite, jarosite
18	19-Aug-22	579404	6859020	1512	PDS1				stockwork of few mm breccia veins in quartzite
19	19-Aug-22	579408	6858963	1492	PDS1	contact	183	70	contactin outcrop with breccia on W and thin bedded quartzite on E with more quartzite beds
19a	19-Aug-22	579408	6858963	1492	PDS1	fracture	335	78	internal fracture plane extends from contact through the breccia
19b	19-Aug-22	579408	6858963	1492	PDS1	trend	357	80	overall trend is 357 but dip is steep and varies from 80W to 80E
19c	19-Aug-22	579410	6858963	1492	PDS1	foliation	265	32	foliation in thin bedded quartzite
20	19-Aug-22	579675	6858708	1440	PDS1				brecciated quartz vein float and quartz rims quartzite clasts
21	19-Aug-22	579675	6858699	1438	PDS1				minor limonite breccia float but not in outcrop above to W
22	19-Aug-22	579742	6858657	1387	PDS1				
23	19-Aug-22	579741	6858647	1381	PDS1				garnet bearing phyllite
24	19-Aug-22	579733	6858622	Symbol	PDS1				phyllite outcrop
25	20-Aug-22	579759	6858636	1368	PDS1				quartz with platy graphite/Mn looking arsenopyrite as fracture fillings
27	20-Aug-22	579718	6858662	1401	PDS1				MJ4558081 - July 2012 sample location
28	20-Aug-22	579540	6858737	1478	PDS1				brecciated quartz vein/quartzite float

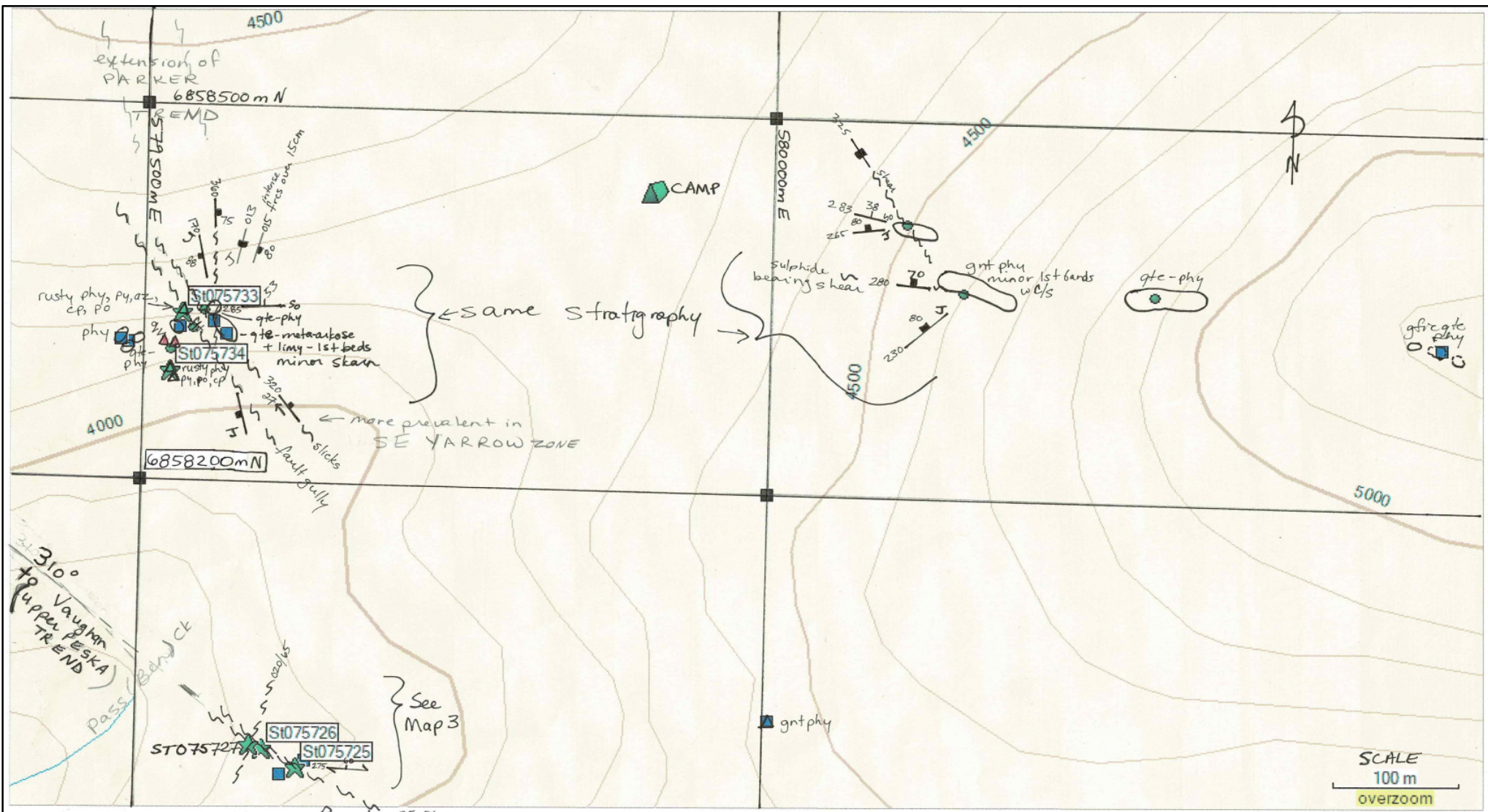
WPT	DATE	EASTING	NORTHING	Elev(m)	GEOLOGY	STRUCTURE	STRIKE	DIP	DESCRIPTION
31	20-Aug-22	579440	6858902	1490	PDS1				graphitic quartzite outcrop
32	20-Aug-22	579442	6858889	1487	PDS1				graphitic quartzite outcrop
33	21-Aug-22	581410	6856168	1520	PDS1				possible mafic-intermediate meta-volcanic or volcaiclastic
34	20-Aug-22	579473	6858752	1465	PDS1				graphitic quartzite outcrop
35	20-Aug-22	579478	6858731	1458	PDS1	quartz vein	30	78	few cm crosscutting quartz vein about 90 to foliation cutting graphitic quartzite; trend about 030/78 but may not be reliable; just below is heavy, brown weathering graphitic quartzite - near structure?
36	21-Aug-22	580005	6858020	1367	PDS1				garnet bearing micaceous phyllite boulders
37	21-Aug-22	579964	6857912	1337	PDS1	main joints	5	70	quartz-biotite-garnet-diopside-calcite skarn with local high(2-5%) pyrite, pyrrhotite, may bedue to regional metamorphism but see pyrrhotite rich hornfels later associated with anomalous Au numbers - should have sampled this but similar material in Thelonus zone did not run
37a	21-Aug-22	579965	6857910	1337	PDS1	other joints	245-250	85	
38	21-Aug-22	579954	6857872	1327	PDS1				float/subcrop of pyrite along foliation in graphitic quartzite with weak limonite along it
39	21-Aug-22	579943	6857871	1326	PDS1				pyrite, pyrrhotite in graphitic quartzite subcrop/float
40	21-Aug-22	579843	6857866	1292	PDS1				graphitic quartzite subcrop
41	21-Aug-22	579616	6857968	1165	PDS1				graphitic quartzite outcrop
42	21-Aug-22	579636	6857979	1166	PDS1	joint/fracture	20	80	quartzite-phyllite outcrop
42a	21-Aug-22	579636	6857979	1166	PDS1	foliation	275	60	quartzite-phyllite outcrop
44	22-Aug-22	580108	6858418	1390	PDS1	bedding	283	38	garnet bearing phyllite some limestone beds 10 cm -2m thick; some calc-silicate - skarn development
44a	22-Aug-22	580110	6858415	1390	PDS1	shear	325	90	
44b	22-Aug-22	580108	6858416	1390	PDS1	planar surface	285	70	planar surface at shear, another fracture plane at 265/80
45	22-Aug-22	580153	6858363	1443	PDS1	joints	230	80	upper part of 2nd outcrop of garnet bearing phyllite some limestone
45a	22-Aug-22	580155	6858362	1443	PDS1	shear	280	70	3 cm breccia, then 10-15 cm of sulphide bleeding into footwall
46	22-Aug-22	580306	6858364	1525	PDS1	joints	265	80	micaceous quartzite/phyllite outcrop, fairly thick quartzite beds
47	22-Aug-22	580536	6858328	1595	PDS1				rubble crop, boulders and local small outcrops of graphitic quartzite with phyllite also in lower exposures; minor foliation parallel quartz veins to 10 cm
48	22-Aug-22	580634	6858296	1587	PDS1	fractures	325	88	local fracture set with minor pyrite along beds proximal to the fractures
49	22-Aug-22	580627	6858257	1569	PDS1	joints	355-360	80-90	float of limonitic breccia with fine sedimentary clasts near outcrop of micaceous quartzite with garnet bearing phyllite
50	22-Aug-22	581081	6857360	1523	PDS1				micaceous quartzite outcrop
51	22-Aug-22	581103	6857256	1536	PDS1	foliation	330	15	feldspar augen biotite-quartz-feldspar schist outcrop
52	22-Aug-22	581209	6857045	1545	PDS1				feldspar augen biotite-quartz-feldspar schist outcrop - paragneiss
53	22-Aug-22	581274	6856912	1540	PDS1				feldspar augen biotite-quartz-feldspar schist outcrop - paragneiss
54	22-Aug-22	581314	6856850	1540	PDS1				feldspar augen biotite-quartz-feldspar schist subcrop-outcrop - small quartz vein with arsenopyrite
55	22-Aug-22	581329	6856613	1547	PDS1				micaceous quartzite subcrop with limonitic fracture fillings and veinlets along foliation, some crosscutting

WPT	DATE	EASTING	NORTHING	Elev(m)	GEOLOGY	STRUCTURE	STRIKE	DIP	DESCRIPTION
56	22-Aug-22	581333	6856604	1545	PDS1				graphitic quartzite subcrop/talus and rusty quartz vein with limonite fracture fillings and possible minor arsenopyrite in both; not as good as ST075731
57	22-Aug-22	581357	6856478	1543	PDS1				local sericitic zones in phyllite-schist
58	22-Aug-22	581372	6856255	1525	PDS1				micaceous quartzite-phyllite
59	23-Aug-22	579566	6858317	1276	PDS1	bedding	285	53	micaceous quartzite to metamorphic-arkose outcrop with limy to limestone beds, locally brecciated along bedding; approximately southern strike extent of Parker trend, minor skarn development; same as outcrops to SE of camp (wpts 44-45)
59a	23-Aug-22	579566	6858317	1276	PDS1	shear	0	75	
59b	23-Aug-22	579566	6858317	1276	PDS1	fractures	15	80	secondary adjacent fracture set over 15 cm
60	23-Aug-22	579556	6858327	1282	PDS1	planar surface	163	80-85	outcrop from 59-60;
60a	23-Aug-22	579552	6858327	1282	PDS1	fault	320	70	plunge 27 to 320; just beside gully - probable Parker trend structure
60b	23-Aug-22	579558	6858332	1282	PDS1	joints	13	90	
61	23-Aug-22	579549	6858336	1289	PDS1	joints	170	88	rusty micaceous quartzite-phyllite outcrop
62	23-Aug-22	579529	6858322	1282	PDS1				rusty micaceous quartzite-phyllite outcrop
63	23-Aug-22	579540	6858321		PDS1				fault gully?
64	23-Aug-22	579522	6858304	1262	PDS1				minor quartz float
65	23-Aug-22	579487	6858309	1282	PDS1				rusty micaceous quartzite-phyllite outcrop
66	23-Aug-22	579489	6858310	1284	PDS1				rusty micaceous quartzite-phyllite outcrop
67	23-Aug-22	579482	6858312	1284	PDS1				phyllite outcrop
68	23-Aug-22	579514	6858625	1417	PDS1				rusty, bit pyritic phyllite float
Koose	24-Aug-22	589622	6850643						CAMP
69	24-Aug-22	589496	6850641	1294	CK1				talus of chlorite-quartz-feldspar schist with quartz-carbonate veins, some carbonate altered schists
70	24-Aug-22	589452	6850584	1333	CK1				some irregular white quartz veins in talus to 10 cm, minor cubic pyrite
71	25-Aug-22	589369	6850577	1364	CK1	foliation	87	30	carbonate altered chlorite-quartz-feldspar schist outcrop; some limy
71a	25-Aug-22	589369	6850577	1364	CK1	fault	90	60	reverse fault with brecciation; S side down
71b	25-Aug-22	589369	6850577	1364	CK1	joints	175	70	cut the above fault
74	25-Aug-22	589266	6850646	1331	CK1				chlorite-quartz-feldspar schist outcrop
75	25-Aug-22	589098	6850879	1371	CK1				rusty limestone breccia with pyrite as float
Flt	25-Aug-22	589084	6850879		CK1	fault	172	62	normal fault in chlorite-quartz-feldspar schist outcrop, well fractured, SW side down?? (based on aparent displacement, but uncertain) rusty footwall with joints at 003/88, foliation at 067/35; just to S joints at 015-020/80 and 165/83
76	25-Aug-22	589079	6850877	1388	PDS2	bedding?	67	35	30 cm wideheavy, magnetic quartz-calcite-chlorite skarn?? bed with pyrite and pyrrhotite; may be a diorite sill but skarn looking; near faults where it is faulted and folded
77	25-Aug-22	589073	6850880	1395	PDS2	joints	150	80	limestone outcrop
78	25-Aug-22	589090	6850895	1381	PDS2				limestone outcrop
79	25-Aug-22	589075	6850910	1380	PDS2				limestone outcrop
80	26-Aug-22	589361	6850576	1367	PDS2				normal fault cutting chlorite-quartz-feldspar schist
81	26-Aug-22	589355	6850573	1371	PDS2				fault strike extent

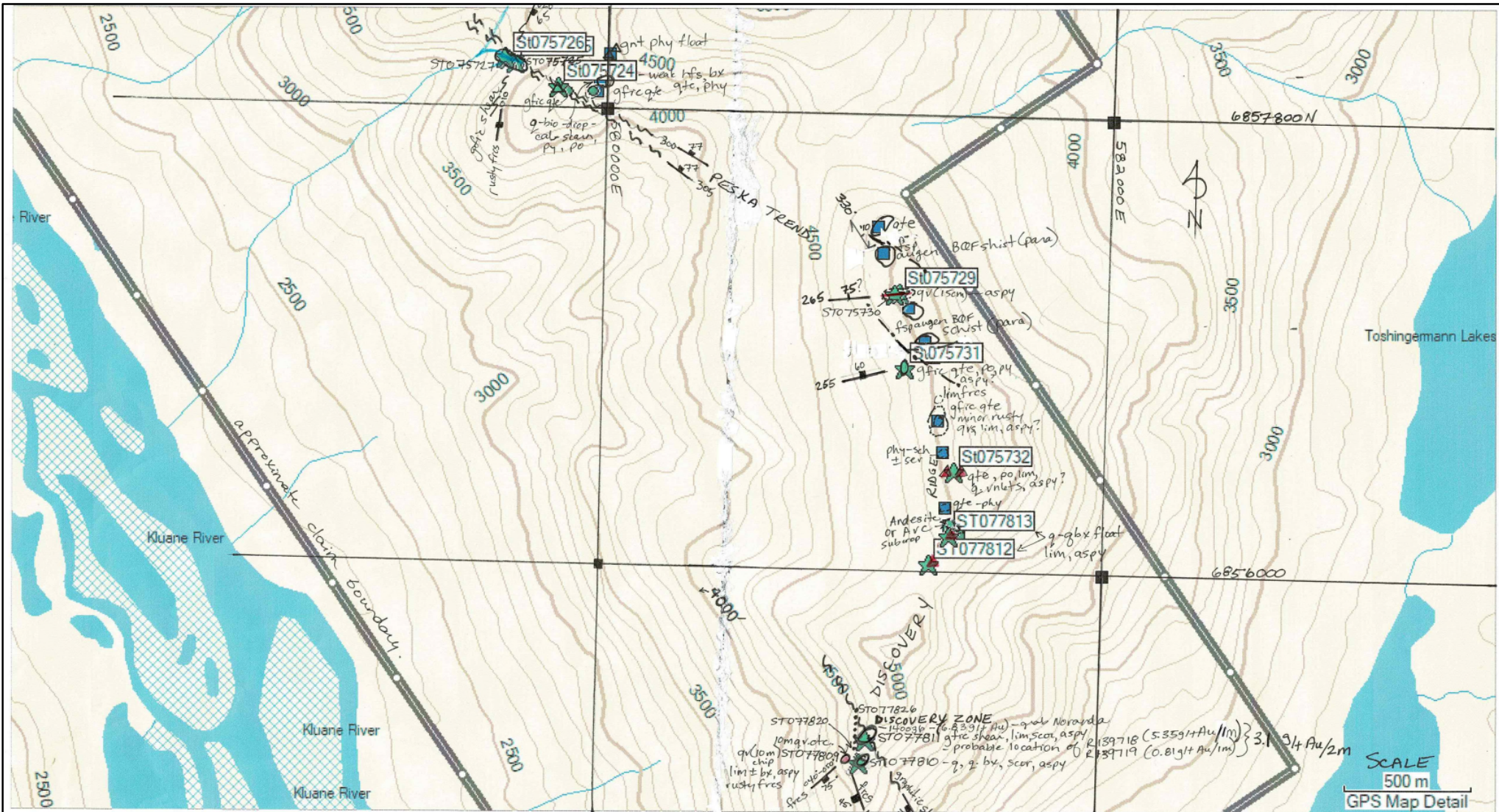
WPT	DATE	EASTING	NORTHING	Elev(m)	GEOLOGY	STRUCTURE	STRIKE	DIP	DESCRIPTION
82	26-Aug-22	589337	6850565	1369	PDS2				fault strike extent
83	26-Aug-22	589331	6850563	1368	PDS2				fault strike extent
84	26-Aug-22	589353	6850521	1404	PDS2	joints	200	60	limestone outcrop, some minor limestone breccia float
					PDS2	foliation	90	25	limestone outcrop
85	26-Aug-22	589350	6850524	1400	PDS2	joints	28	80	limestone outcrop
					PDS2	foliation	90	25	limestone outcrop
86	26-Aug-22	589341	6850514	1407	CK1				chlorite schist-greenstone
87	26-Aug-22	589321	6850545	1366	CK1	later fault	165	80	upper part of 81-83 fault zone, possibly weakly offset by 165/80 fault
88	26-Aug-22	589293	6850561	1356	CK1	joints	250	82	
88a	26-Aug-22	589293	6850561	1356	CK1	joints	350	85	strong joint set
89	26-Aug-22	589270	6850541	Symbol	CK1	fault	170	80	quartz sweat blows out at intersection with gully
90	26-Aug-22	589251	6850611	1355	CK1	joints	350	85	minor (30 cm) sinistral movement? Along this structure
91	26-Aug-22	589159	6850626	1407	PDS2				limy schists to limestone
92	26-Aug-22	589146	6850630	1414	PDS2				limy schists to limestone, upper part of 81-83 fault zone
93	26-Aug-22	589131	6850635	1427	PDS2				limestone outcrop
94	26-Aug-22	589119	6850629	1439	CK1				chlorite schist-greenstone outcrop
95	26-Aug-22	589111	6850657	1439	PDS2				limestone outcrop
96	26-Aug-22	589051	6850691	1463	CK1				chlorite schist-greenstone outcrop
97	26-Aug-22	589034	6850696	1470	CK1	foliation	345	30	chlorite schist-greenstone outcrop
98	26-Aug-22	589051	6850718	1465	CK1				quartz sweat in chlorite-quartz-feldspar schist on top of marble outcrop
99	26-Aug-22	589032	6850724	1469	CK1				minor quartz float
100	26-Aug-22	588970	6850775		CK1				chlorite schist-greenstone outcrop with limy schist to north
101	26-Aug-22	589021	6850867	1417	PDS2				limestone outcrop
102	26-Aug-22	589165	6850839		PDS2				limestone outcrop
103	26-Aug-22	589128	6850849		PDS2				limestone outcrop
104	26-Aug-22	589034	6850878	1407	CK1				chlorite-quartz-feldspar schist with limy beds
105	26-Aug-22	589051	6850882	1403	PDS2				limestone outcrop
106	26-Aug-22	589070	6850800	1423	PDS2				limestone outcrop
107	26-Aug-22	589114	6850816		PDS2				limestone outcrop
Re5579571	19-Aug-22	579382	6859039	1513	PDS1				6.71 g/t Au - overall trend is 165 steep and 345/steep
Re5579574	19-Aug-22	579401	6858952	1491	PDS1				6.66 g/t Au sample of brecciated quartzite with sooty pyrite and scorodite; NB all Re samples are found 20m to the west of UTM co-ords
Re5579575	19-Aug-22	579390	6858967	1485	PDS1				0.93 g/t Au
Re5579577	19-Aug-22	579390	6859020	1504	PDS1				3.71 g/t Au - contact of breccia with quartzite at 325/82
Re5579578	19-Aug-22	579403	6858909	1473	PDS1				1.3 g/t Au- brecciated quartz vein with minor scorodite, boxwork after sulphide infilling
Re5579582	19-Aug-22	579731	6858693	1401	PDS1				
Qbx1	19-Aug-22	579381	6858983	1487	PDS1				brecciated quartz vein float with strong limonite, heavy, grey sulphide-possible arsenopyrite; as 30 by 20 cm talus
Fold	20-Aug-22	579612	6858600	1407	PDS1	fold axis	250	25	plunge 25 to 295



Map1 NORTHWEST corner



MAP 2 TOSH CENTRAL
PARKER - PESKA Intersection
JEX AUG., 2022



TOSH SOUTH MAP 4
 DISCOVERY ZONE
 & AREA.
 JEx AUG 2022
 NB-different scale.

py pyrite
 po pyrrhotite
 scor scorodite
 aspy arsenopyrite
 gnt gannet
 qtc: quartzite
 phy phyllite
 sch schist
 fsp feldspar
 Bof bro-gtz-fsp
 hts hornfels
 c/s calcisilicate sk skarn

qv(s):qtz veins(s) - in red.
 Ave andesitic volcanoclastic
 bx breccia
 gtz sweats
 gfric graphitic

rock samples
 soil
 otc
 subcrop
 rubble crop, talus
 float
 JOINT
 frac(s) fracture(s)

