TODD RIVER RESOURCES

ASX Announcement
6 December 2017

SIGNIFICANT ZONE OF ANOMALOUS STRATABOUND COPPER OUTLINED AT MCARTHUR RIVER PROJECT, NT

Discovery of new anomalous zone complements recent rock chip results and opens up extensive target area for exploration in 2018

HIGHLIGHTS

- **Channel sampling in the Southern Copper Area of the McArthur River Project returns strongly anomalous stratabound copper results:**

Channel	True Thickness and Grade
6a	6m @ 0.30% Cu
16	2m @ 0.27% Cu
17	4m @ 0.18% Cu

- **Channels define an extensive 450 x 250m copper anomaly, within a broader 1km^2 area of anomalous copper in the basal shale of the prospective Wollogorang Formation (the main targeted geological unit at McArthur River).**
- **The anomalous stratigraphy has been mapped for a further 6km to the south and west, providing a large target area.**
- **The unit dips to the east and south into the basin, where electro-magnetic geophysical anomalies have recently been outlined.**

Todd River Resources Limited (ASX: TRT) is pleased to advise that has outlined a significant zone of copper anomalism from recent stratigraphic sampling within the targeted Wollogorang Formation at its 100%-owned **McArthur River Project** in the Northern Territory (Figure 1).

The results complement the surface copper rock sampling results reported recently (*see ASX Announcement – 14 November 2017)* and are being added to a combined geological and geophysical model for the project, which will drive prospect and drill targeting work in 2018.

The McArthur River Project is located 450km south-east of Katherine, and falls on the Mallapunyah, McArthur River and Kiana pastoral stations. Todd River has recently added to the tenement package by pegging two adjacent licences, ELAs 31703 and 31704 (*see ASX Announcement – 28 September 2017*), increasing its total land-holding to 584.32km^2.

Todd River is targeting the Wollogorang Formation, the key geological unit at McArthur River which contains both stratiform/stratabound copper (see TNG ASX Announcement 9 June 2015) and zinc-lead-silver mineralisation.

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Both the Wollogorang Formation and the Barney Creek Formation (which hosts the HYC McArthur River deposit and the Teena Resource) were deposited in analogous geological environments to Todd River's project area. Work completed in 2016 extended the known anomalous stratigraphy on the tenements to a strike length of 25km (*see TNG ASX announcement – 14 July 2016*).

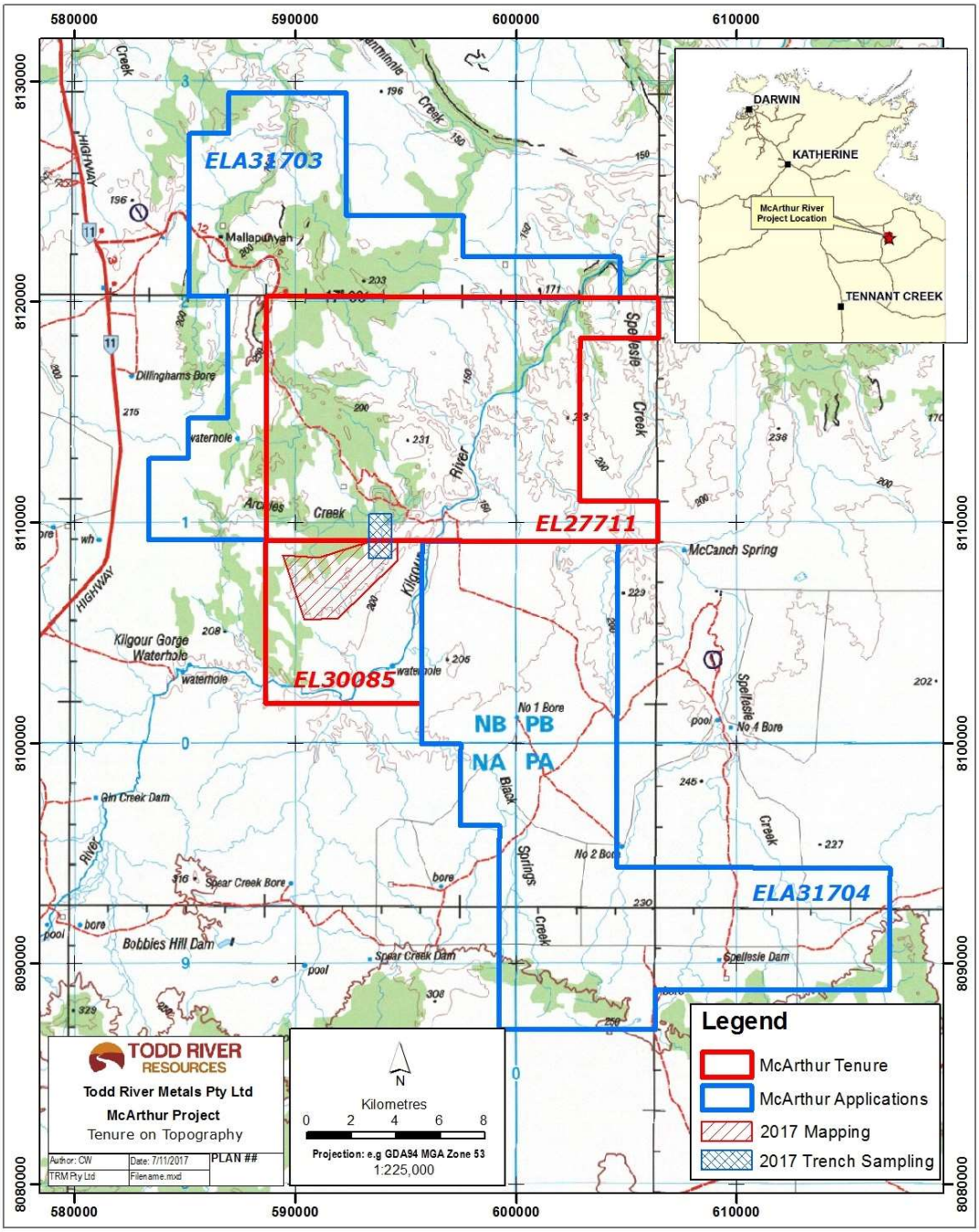

Figure 1. **Location of the McArthur River Project, showing the mapping and sampling areas, and new tenure.**

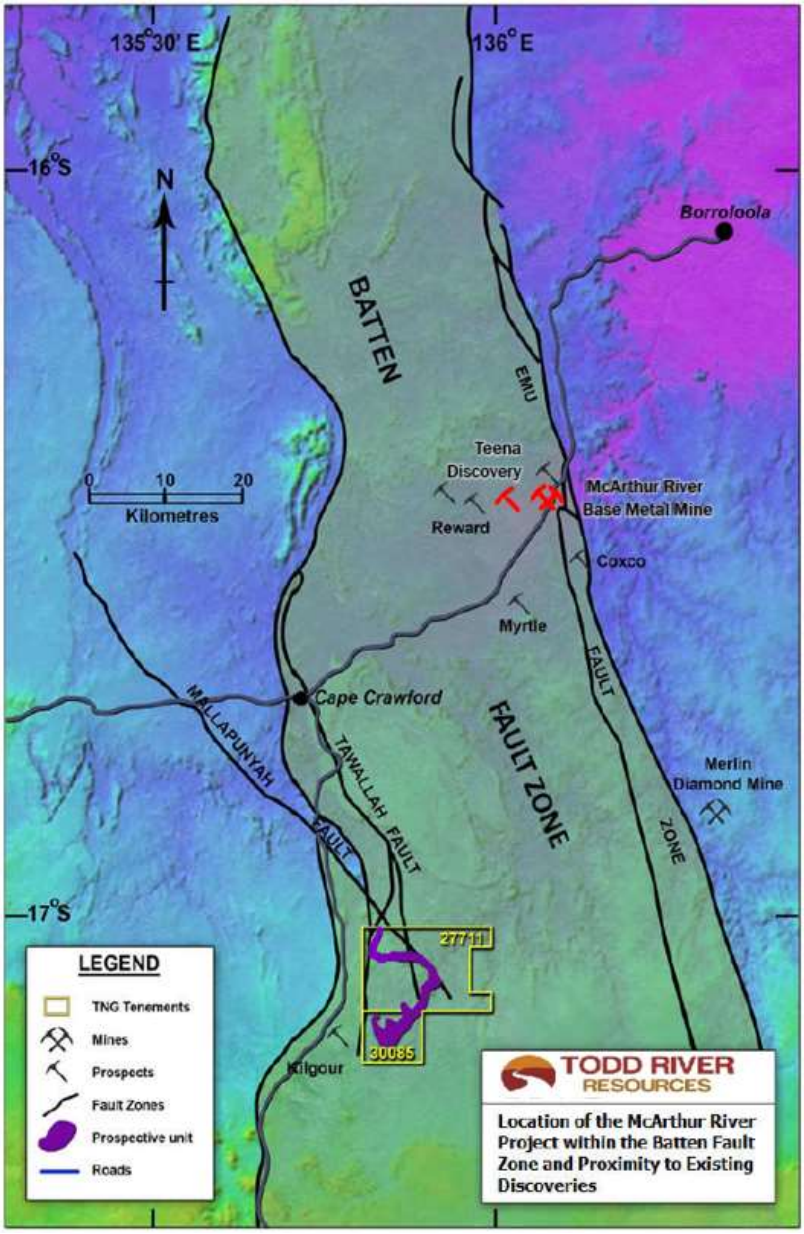

Figure 2. **Location of the McArthur River tenure in relation to the prospective stratigraphy, significant regional faults within the Batten Fault Zone, the HYC McArthur River zinc mine, and the Teena Mineral Resource area.**

The location of Todd River's McArthur River Project is shown on Figure 2, in relation to the Batten Fault Zone, Glencore's McArthur River zinc mine (60km to the NE), and the recently outlined Teena Zinc-Lead Mineral Resource.

Teena is owned by Teck Australia (51%) and has an **Inferred Mineral Resource of 58Mt @ 12.7% Zn+Pb**, for a **contained 6.5 million tonnes of zinc** and 0.9Mt of lead (*see Rox Resources' ASX Announcement – 1 June 2016*).

Program of Work Completed

During October, Todd River completed a program of geological mapping and rock and channel sampling over the copper anomalous lower portion of the Wollogorang Formation stratigraphy on the southern side of the Mallapunyah Dome.

Results for the rock sampling and mapping have recently been reported (*see ASX Announcement - 14 November 2017*):

- Geological mapping to the south and west of the channel sampling area outlined the extent of the basal shale layer – **a further six kilometres**;
- The rock sampling was conducted within the broad area of channel sampling and returned samples of up to **44.5% Cu, 56.7g/t Ag and 2350ppm Bi** within the basal shale; and
- It also outlined significant anomalism in the overlying dolomite unit, returning values of up to **6.3% Cu, 990ppm Mo and 1300pm As**.

Channel Sampling

A total of 18 channels were sampled in October (Figure 3). The area was based on mapping completed in 2015 (*see TNG ASX Announcement – 9 June 2015*) where rock chip sampling results of up to 48% copper were found in the lowermost shale unit of the Wollogorang Formation (Pto1).

This mapping outlined an area of 1.6x1.0km where there were numerous exposures of the Pto1 unit, due to the shallow dipping stratigraphy and breakaways forming in the overlying dolomite (Pto2 unit).

Sampling commenced from the Pto1/Pto2 contact down to either the basement Settlement Creek Dolerite contact, or where exposure was lost under alluvium/colluvium (see Figures 4 and 5). Channels were up to 50cm deep and were dug by shovel. Sampling was undertaken as continuous channel samples ranging in length from two to five metres (depending on stratigraphic dip/topography) to approximate one sample per true thickness metre of Pto1. Further details of the sampling program can be found in Appendix A.

A total of 218 channel samples (plus 11 standards) were submitted for ICP base metal analysis. Results are presented on Figure 3 and in Appendix B. All samples of unit Pto1 were of weathered shale and dolomitic shale/siltstone, with some being taken of clay dominated material – right on the residual soil contact. Dips were measured to allow for determination of true stratigraphic thickness of the channel and the unit sampled.

Three of the channels returned values in excess of 1000ppm Cu, summarised below:

Channel	True Thickness	@	Grade
6a	**6m**	**@**	**0.30% Cu**
16	**2m**	**@**	**0.27% Cu**
17	**4m**	**@**	**0.18% Cu**

Note: The thickness above is a calculated true thickness of the shale, based on sample lengths and dip measurements taken in the vicinity.

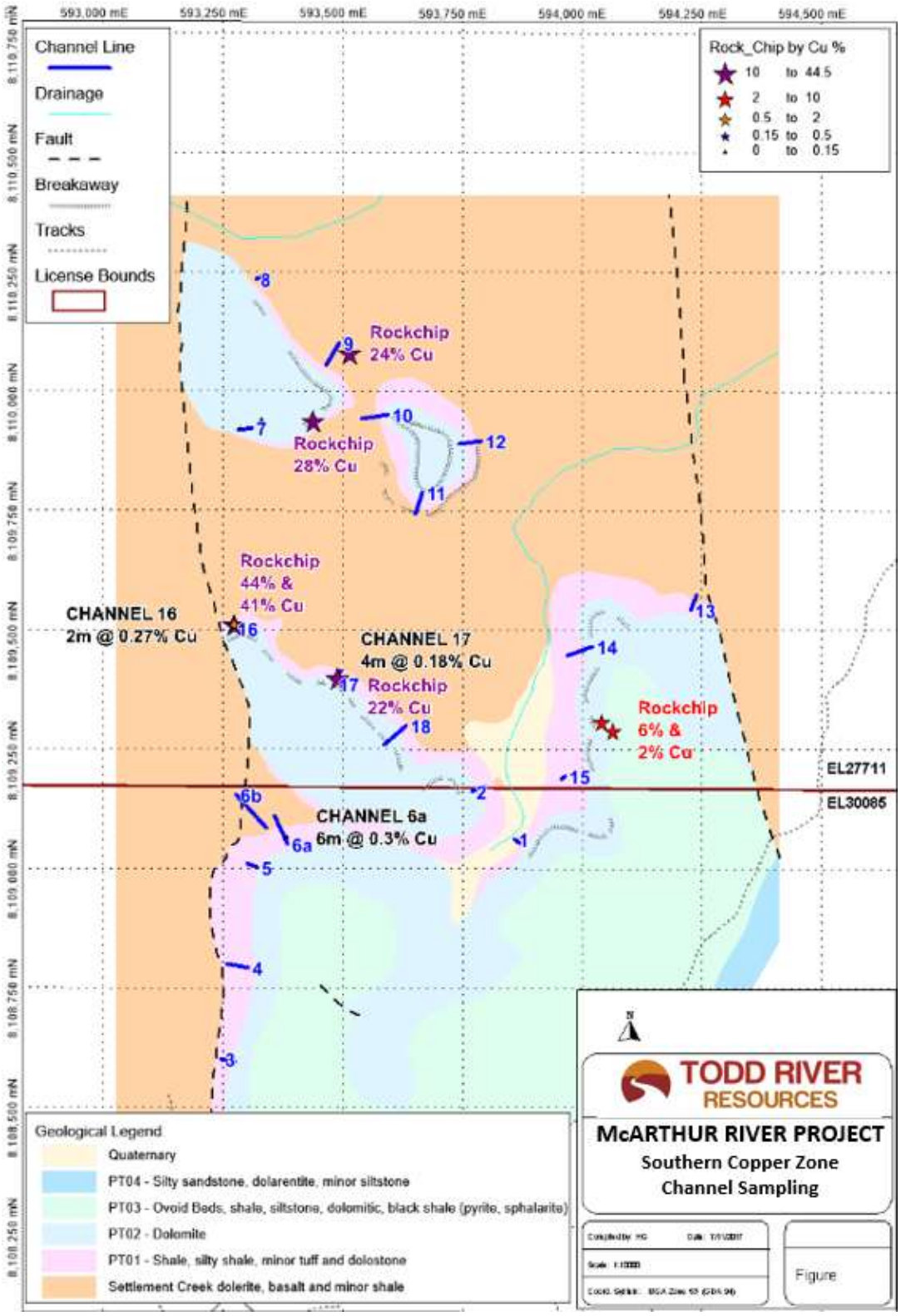

Figure 3. **Channel sampling locations with copper results, on geological mapping.**

In addition, six of the channels returned anomalous (>250ppm Cu) copper values (#3, 5, 6, 10, 16, 17, and 18 – see Appendix B).

Both the significant rock chip anomalous results and the anomalous channel sampling are in the western part of the area sampled, where a low flat hill has the Pto1 unit exposed on the northern, eastern and southern flanks. This hill measures 450m x 250m, and would have the mineralised shale unit at depths not exceeding 15m from surface.

Interpretation

Copper is considered to be highly mobile in this weathered zone, with resulting lower to moderate broad grades expected due to leaching. This sampling has confirmed this model and outlined anomalous copper in this specific portion of the stratigraphy.

Todd River considers the presence of elevated copper values in the basal shale unit, and the fact that these are associated with stratabound sulphide-rich shales at depth, to be significant.

Next Steps

The channel sampling has further defined the extent of copper anomalism in the basal shale of the Wollogorang Formation. Together with the mapping and rock sampling, it has resulted in a large broad anomalous zone that may be due to leakage from a mineralised zone at depth – possibly from one of the AEM targets recently defined within the basinal area.

The recently acquired SkyTEM geophysical data can both map this horizon at depth, and outline areas where it has significant sulphide enrichment (higher conductivity zones).

The geophysical interpretation (*see ASX Announcement – 20 November 2017*) has already outlined areas with the potential for base metal accumulations in this part of the stratigraphy, and further modelling and field follow-up early in 2018 is likely to generate drill targets for testing.

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Competent Person Statement

The information in this report that relates to Exploration Results is based on, and fairly represents, information and supporting documentation compiled by Exploration Manager Mr Kim Grey B.Sc. and M. Econ. Geol. Mr Grey is a member of the Australian Institute of Geoscientists, and an employee of Todd River Resources Limited. Mr Grey has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Grey consents to the inclusion in the report of the matters based on his information in the form and context in which it appear.

Forward-Looking Statements

This announcement has been prepared by Todd River Resources Ltd. This announcement is in summary form and does not purport to be all inclusive or complete. Recipients should conduct their own investigations and perform their own analysis in order to satisfy themselves as to the accuracy and completeness of the information, statements and opinions contained.

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LEFT
Figure 4 Channel #01 sampling, showing position and continuous channel of two metre sampling indicated by the bags.

BELOW
Figure 5. Channel #01 sampling, showing the Pto1/Pto2 contact (grey Pto2 dolomite LHS) and breakaway slope exposing Pto1 red/brown weathered shales.

Appendix A - JORC Table One - Sampling Techniques and Data

McArthur River – Channel samples

Criteria	JORC Code explanation	Commentary
Sampling techniques	Nature and quality of sampling (eg cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling. Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used. Aspects of the determination of mineralisation that are Material to the Public Report.	Channels were cut with shovel and pick to 20-50cm deep on outcropping shale or residual soil/thin scree slopes to expose weathered shale. Sampling was by continuous channel samples collecting 2-4kg of rock from 2m to 5m long samples on channel lines of up to 70m long. Sample sites were determined by GPS position. No sample preparation was conducted. All samples submitted to ALS with industry standard crushing and pulverisation (>90% <75um).
Drilling techniques	Drill type (eg core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (eg core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc).	Not relevant
Drill sample recovery	Method of recording and assessing core and chip sample recoveries and results assessed. Measures taken to maximise sample recovery and ensure representative nature of the samples. Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material.	Not relevant
Logging	Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies. Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography. The total length and percentage of the relevant intersections logged.	Channel sampling sites were described briefly for: regolith type and lithology. All logging was qualitative.
Sub-sampling techniques and sample preparation	If core, whether cut or sawn and whether quarter, half or all core taken. If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry. For all sample types, the nature, quality and appropriateness of the sample preparation technique. Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples. Measures taken to ensure that the sampling is representative of the in situ material collected, including for instance results for field duplicate/second-half sampling. Whether sample sizes are appropriate to the grain size of the material being sampled.	Sample preparation included the complete sample being crushed and pulverized (>90% <75 microns) prior to any sub-sampling. Sample preparation is “industry standard” and appropriate for the sample medium. No sub sampling was conducted. No field duplicate readings were taken. Standard samples (Certified for base metals) and Blank samples were inserted into all sample batches. Results were acceptable.
Quality of assay data and laboratory tests	The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total. For geophysical tools, spectrometers, handheld XRF instruments, etc, the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc. Nature of quality control procedures adopted (eg standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (ie lack of bias) and precision have been established.	Samples have been analyzed at ALS laboratory Perth by method ME-ICP61a – with a four acid digest which is considered a near total digest for most silicate matrices QC procedures included: the insertion of certified standards and blanks into the laboratory sample sequence at a rate of 1 in 25. Results were acceptable. No calibration factors have been applied.

Verification of sampling and assaying	The verification of significant intersections by either independent or alternative company personnel. The use of twinned holes. Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols. Discuss any adjustment to assay data.	Sampling was conducted by the field geologists and field assistants, under the supervision of the exploration manager. All data was entered into standardized spreadsheets on field laptops and uploaded into the company Access database. No adjustments have been made to the primary assay data
Locations of data points	Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), channeles, mine workings and other locations used in Mineral Resource estimation. Specification of the grid system used. Quality and adequacy of topographic control.	All sampling locations were located up using a standard GPS unit to an accuracy of ca. 3-5m for Easting, Northing and RL. All coordinate data for the McArthur River project are in MGA_GDA94 Zone 53.
Data spacing and distribution	Data spacing for reporting of Exploration Results. Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied. Whether sample compositing has been applied.	Sampling was of an exploratory and reconnaissance nature and spacings are insufficient to establish continuity or define Mineral Resources.
Orientation of data in relation to geological structure	Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type. If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material.	Channel sampling included mapping of the surrounding stratigraphy and dips, and so all channel areas have measured true thicknesses reported. Channels were oriented to provide sampling as perpendicular to the stratigraphy as outcrop allowed.
Sample security	The measures taken to ensure sample security.	All samples were under company supervision at all times prior to delivering to ALS laboratories in Alice Springs.
Audits or reviews	The results of any audits or reviews of sampling techniques and data.	No sampling audits have been conducted at the McArthur River project to date.

Section 2 Reporting of Exploration Results

Criteria	JORC Code explanation	Commentary
Mineral tenement and land tenure status	Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings. The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area.	The McArthur River project is located on tenements EL 27711 and 30085, held 100% by Todd River Metals Pty Ltd, which is a wholly-owned subsidiary of Todd River Resources Limited. The tenement is in good standing with no know impediments.
Exploration done by other parties	Acknowledgment and appraisal of exploration by other parties.	The most significant previous work looking for base metals in the area was completed in the late 1960's by AGPL and is available on NTGS open file. Work from 2011 to 2016 by TNG is outlined in the Todd River Resources Prospectus.
Geology	Deposit type, geological setting and style of mineralisation.	The main target for this project is Zn-Pb-Cu-Ag mineralisation of a similar style to that found at the McArthur River Mine, some 60km NNE of the project location.
Drill hole Information	A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes: ○ Easting and northing of the drill collar ○ Elevation of RL (Reduced Level – elevation above sea level in metres) of the drill collar ○ Dip and azimuth of the hole ○ Down hole length and interception depth ○ Hole length	Not relevant

Data aggregation methods	In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (eg cutting of high grades) and cut-off grades are usually Material and should be stated. Where aggregate intercepts incorporate short lengths of high grade results and longer lengths of low grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail. The assumptions used for any reporting of metal equivalent values should be clearly stated.	No aggregation or averaging was conducted on the data reported here.
Relationship between mineralisation widths and intercept lengths	These relationships are particularly important in the reporting of Exploration Results. If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported. If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (eg 'down hole length, true width not known').	Channel sampling has reported calculated true widths.
Diagrams	Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported These should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views.	See Figures 1, 2, and 3.
Balanced reporting	Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results.	Channel results are shown on Figure 3. See Appendix B for full assay listings of the rock chip and channel data.
Other substantive exploration data	Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.	No substantial new information is available other than that reported above.
Further work	The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling). Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.	Geophysical assessment is continuing prior to planning a program for the 2018 field season.

Appendix B – Sample Results
Channel Sampling Data

Sample_ID	Easting	Northing	RL	Trench#	Strat.	Lithology	Ag_ppm	As_ppm	Bi_ppm	Ca_%	Cu_ppm	Mg_%	Mo_ppm	Pb_ppm	S_%	Sb_ppm	Zn_ppm	Au_ppm
MC17001	593875.4	8109050.9	165.5	1	Pto2	Dolomitic Shale	-0.5	-5	-2	19.95	29	1.8	-1	7	0.14	-5	28	0.003
MC17002	593875.0	8109051.4	165.0	1	Pto1	Red Shale	-0.5	12	-2	16.85	40	4.62	2	9	0.07	-5	27	0.015
MC17003	593873.4	8109052.4	164.4	1	Pto1	Red Shale	-0.5	9	2	16.8	47	4.92	2	9	0.09	-5	29	0.01
MC17004	593871.9	8109053.3	163.7	1	Pto1	Red Shale	-0.5	8	2	16.8	69	4.1	2	14	0.09	-5	36	0.007
MC17005	593870.3	8109054.3	163.1	1	Pto1	Red Shale	-0.5	10	-2	12.5	79	4	1	12	0.07	-5	51	0.005
MC17006	593868.8	8109055.3	162.4	1	Pto1	Red Shale	-0.5	8	-2	11.85	53	4.58	2	10	0.07	-5	43	0.004
MC17007	593867.3	8109056.2	161.8	1	Pto1	Red Shale	-0.5	8	-2	12.35	61	4.17	3	12	0.11	-5	47	0.003
MC17008	593865.7	8109057.2	161.2	1	Pto1	Red Shale	-0.5	9	-2	9.16	41	4.48	2	7	0.11	-5	45	0.004
MC17009	593864.2	8109058.1	160.5	1	Pto1	Red Shale	-0.5	11	-2	5.22	20	4.39	1	8	0.03	-5	45	0.003
MC17010	593862.6	8109059.1	159.9	1	Pto1	Red Shale	-0.5	12	4	8.67	46	4.39	1	7	0.06	5	48	0.004
MC17011	593861.1	8109060.1	159.2	1	Pto1	Red Shale	-0.5	12	-2	9.83	69	4.11	2	17	0.1	-5	52	0.003
MC17012	593859.5	8109061.0	158.6	1	Pto1	Red Shale	-0.5	13	2	10.85	71	3.91	2	8	0.13	-5	48	0.005
MC17013	593858.0	8109062.0	158.0	1	Pto1	Red Shale	-0.5	7	2	10.45	76	3.99	2	16	0.12	-5	48	0.003
MC17014	593768.2	8109162.2	180.5	2	Pto2	Dolomitic Siltst.	-0.5	-5	2	12.9	13	7.28	-1	10	0.12	-5	12	0.003
MC17015	593770.0	8109163.0	180.0	2	Pto1	Shale	-0.5	5	2	11.75	99	2.98	1	7	0.11	-5	19	0.008
MC17016	593774.3	8109164.6	179.0	2	Pto1	Shale	-0.5	6	-2	9.05	72	3.63	1	6	0.12	-5	25	0.009
MC17017	593778.6	8109166.1	178.0	2	Pto1	Shale	-0.5	8	-2	8.64	44	4.25	2	9	0.07	-5	26	0.007
MC17018	593782.8	8109167.7	177.0	2	Pto1	Shale	-0.5	5	5	15.8	27	4.08	-1	3	0.14	-5	19	0.005
MC17019	593787.1	8109169.2	176.0	2	Pto1	Shale	-0.5	6	2	12.15	28	4.23	1	5	0.18	-5	25	0.004
MC17020	593791.4	8109170.8	175.0	2	Pto1	Shale	-0.5	11	-2	8.15	40	3.87	1	6	0.11	-5	30	0.004
MC17021	593795.7	8109172.4	174.0	2	Pto1	Shale	-0.5	7	5	4.51	37	3.46	1	6	0.06	-5	38	0.004
MC17022	593800.0	8109173.9	173.0	2	Pto1	Shale	-0.5	-5	-2	1.57	39	3.08	1	-2	0.04	-5	44	0.006
MC17023	593804.2	8109175.5	172.0	2	Pto1	Shale	-0.5	8	-2	0.9	57	2.81	1	9	0.04	-5	48	0.007
MC17024	593808.5	8109177.0	171.0	2	Pto1	Shale	-0.5	10	2	1.02	49	2.95	2	6	0.06	-5	40	0.006
MC17025							-0.5	23	8	0.02	7	0.02	20	3	0.05	5	2	0.001
MC17026	593275.2	8108594.4	186.5	3	Pto2	Dolo Siltstone	-0.5	17	2	8.55	261	4.59	3	13	0.12	-5	17	0.002
MC17027	593272.6	8108595.0	186.0	3	Pto1	Fine Siltstone	-0.5	29	3	1.6	493	0.93	4	29	0.02	-5	50	0.007
MC17028	593268.5	8108595.7	185.4	3	Pto1	Silty Shale	-0.5	29	2	1.36	434	0.95	4	27	0.01	-5	46	0.006
MC17029	593264.4	8108596.4	184.7	3	Pto1	Shale	-0.5	19	-2	7.51	164	2.52	2	13	0.01	-5	49	0.005
MC17030	593260.3	8108597.1	184.1	3	Pto1	Shale	-0.5	26	-2	0.39	205	1.91	3	16	0.01	-5	45	0.004
MC17031	593256.2	8108597.8	183.5	3	Pto1	Shale	-0.5	21	-2	0.31	186	1.85	3	11	0.01	-5	42	0.005
MC17032	593252.2	8108598.6	182.9	3	Pto1	Shale	-0.5	14	3	0.28	127	2.08	2	11	0.01	-5	39	0.003
MC17033	593248.1	8108599.3	182.2	3	Pto1	Shale	-0.5	17	-2	0.29	77	2.65	1	7	0.01	-5	42	0.001
MC17034	593244.0	8108600.0	181.6	3	Pto1	Shale	-0.5	22	3	0.15	128	2.03	2	7	0.01	-5	41	0.004
MC17035	593242.9	8108600.1	181.0	3	SC	Dolerite	-0.5	19	2	0.32	187	1.77	3	19	0.01	-5	62	0.002
MC17036	593303.1	8108792.0	179.5	4	Pto2	Dolo Siltstone	-0.5	-5	-2	10.3	242	4.9	1	4	-0.01	-5	17	0.006
MC17037	593301.3	8108792.4	179.0	4	Pto1	Slst. Calc.	-0.5	5	-2	16	135	2	1	12	-0.01	-5	20	0.013
MC17038	593298.4	8108792.9	178.8	4	Pto1	Slst. Calc.	-0.5	5	2	17	104	2.56	1	10	-0.01	-5	21	0.01
MC17039	593295.6	8108793.4	178.6	4	Pto1	Shale Calc.	-0.5	8	-2	16.05	95	3.09	1	9	-0.01	-5	28	0.007
MC17040	593292.7	8108793.9	178.4	4	Pto1	Shale Calc.	-0.5	-5	-2	14.5	100	2.56	1	7	-0.01	6	25	0.005
MC17041	593289.8	8108794.4	178.2	4	Pto1	Shale Calc.	-0.5	6	-2	6.72	169	2.23	1	12	0.01	-5	30	0.005
MC17042	593286.9	8108794.9	178.1	4	Pto1	Shale Calc.	-0.5	11	2	13.45	124	2.25	1	11	-0.01	-5	30	0.007
MC17043	593284.0	8108795.4	177.9	4	Pto1	Shale Calc.	-0.5	6	3	11.4	118	2.39	1	6	-0.01	5	33	0.006
MC17044	593281.1	8108795.9	177.7	4	Pto1	Shale Calc.	-0.5	8	2	9.25	118	2.09	-1	8	-0.01	-5	33	0.004
MC17045	593278.2	8108796.4	177.5	4	Pto1	Shale Calc.	-0.5	-5	-2	15.25	107	1.89	1	8	-0.01	-5	31	0.003
MC17046	593275.3	8108796.9	177.3	4	Pto1	Shale Calc.	-0.5	6	-2	13.7	62	1.85	1	5	-0.01	-5	35	0.004
MC17047	593272.4	8108797.4	177.1	4	Pto1	Shale Calc.	-0.5	7	-2	4.73	67	2.87	1	10	-0.01	-5	57	0.003
MC17048	593269.6	8108798.0	176.9	4	Pto1	Shale	-0.5	14	-2	0.98	88	2.06	2	12	0.01	5	44	0.004
MC17049	593266.7	8108798.5	176.7	4	Pto1	Shale	-0.5	8	-2	0.34	89	1.13	2	7	0.01	-5	29	0.002
MC17050							-0.5	14	-2	1.67	38	0.78	9	30	0.02	-5	55	0.019
MC17051	593263.8	8108799.0	176.5	4	Pto1	Shale	-0.5	13	2	0.42	105	1.03	1	12	0.01	-5	27	0.005
MC17052	593260.9	8108799.5	176.3	4	Pto1	Shale	0.7	11	-2	0.52	154	0.94	2	12	0.01	-5	24	0.002
MC17053	593258.0	8108800.0	176.2	4	Pto1	Shale	-0.5	15	-2	0.63	197	0.93	2	14	0.01	-5	24	0.002
MC17054	593256.5	8108800.2	176.0	4	SC	Dolerite	-0.5	5	2	1.03	140	0.65	2	3	0.01	-5	16	0.001
MC17055	593325.0	8109000.0	176.5	5	Pto2	Dolo Siltstone	-0.5	-5	-2	9.95	35	4.01	1	4	0.01	-5	14	0.002
MC17056	593324.0	8109000.8	176.0	5	Pto1	Ca Shale	-0.5	7	-2	22.2	61	2.01	1	3	-0.01	5	22	0.009
MC17057	593323.1	8109001.3	175.8	5	Pto1	Ca Shale	-0.5	-5	2	20.3	54	2.13	-1	6	-0.01	-5	22	0.009
MC17058	593320.9	8109002.1	175.5	5	Pto1	Ca Shale	-0.5	-5	-2	21.6	64	2.09	-1	8	-0.01	-5	22	0.007
MC17059	593318.7	8109003.0	175.3	5	Pto1	Ca Shale	-0.5	-5	-2	11.55	100	2.25	1	4	-0.01	-5	29	0.007
MC17060	593316.5	8109003.9	175.0	5	Pto1	Shale	-0.5	16	3	3.43	126	2.62	1	13	0.01	-5	37	0.006
MC17061	593314.3	8109004.8	174.8	5	Pto1	Shale	-0.5	10	2	1.32	116	2.4	1	10	0.01	-5	32	0.005
MC17062	593312.2	8109005.7	174.5	5	Pto1	Shale	-0.5	16	-2	1.21	141	2.87	2	8	0.02	-5	33	0.006
MC17063	593310.0	8109006.6	174.3	5	Pto1	Shale	-0.5	12	-2	0.49	156	2.53	2	7	0.01	-5	33	0.006
MC17064	593307.8	8109007.5	174.0	5	Pto1	Shale	-0.5	13	2	0.35	190	1.97	10	14	0.01	-5	29	0.005
MC17065	593305.6	8109008.3	173.8	5	Pto1	Shale	-0.5	12	2	0.19	172	1.22	3	9	0.01	-5	23	0.004
MC17066	593303.4	8109009.2	173.5	5	Pto1	Shale	-0.5	14	3	0.38	149	1.12	2	9	0.01	-5	22	0.003
MC17067	593301.2	8109010.1	173.3	5	Pto1	Shale	-0.5	16	-2	0.22	142	1.01	2	10	0.01	-5	22	0.002
MC17068	593299.0	8109011.0	173.0	5	SC	Dolerite	-0.5	11	-2	4.33	254	2.41	2	7	0.08	-5	24	-0.001
MC17069	593390.1	8109047.9	192.5	6a	Pto2	Dolo Shale	-0.5	-5	-2	20.5	11	7.25	1	-2	0.13	-5	11	0.003
MC17070	593388.5	8109050.8	192.0	6a	Pto1	Ca Shale	-0.5	8	-2	15.8	107	2.34	2	12	0.04	5	26	0.008
MC17071	593385.6	8109056.2	191.6	6a	Pto1	Ca Shale	-0.5	7	-2	15.2	216	3.88	3	11	0.05	6	31	0.009
MC17072	593382.7	8109061.6	191.3	6a	Pto1	Ca Shale	-0.5	10	-2	10.35	312	3.64	1	13	0.04	-5	33	0.01
MC17073	593379.9	8109067.0	190.9	6a	Pto1	Ca Shale	-0.5	14	-2	10.45	296	3.68	2	9	0.03	6	33	0.008
MC17074	593377.0	8109072.4	190.6	6a	Pto1	Ca Shale	-0.5	-5	27	14.55	6150	3.62	4	8	0.01	-5	30	0.008
MC17075							0.5	-5	2	0.15	198	0.04	-1	27	0.06	-5	305	0.364
MC17076	593374.2	8109077.7	190.2	6a	Pto1	Ca Shale	-0.5	6	4	15.5	1605	3.68	2	9	0.01	-5	33	0.01
MC17077	593371.3	8109083.1	189.8	6a	Pto1	Ca Shale	-0.5	8	5	14.45	1490	3.35	2	8	0.01	5	29	0.008
MC17078	593368.4	8109088.5	189.5	6a	Pto1	Ca Shale	-0.5	-5	3	17.8	345	3.22	2	10	-0.01	5	27	0.009
MC17079	593365.6	8109093.9	189.1	6a	Pto1	Ca Shale	-0.5	6	-2	12.95	255	3.05	2	13	0.01	-5	29	0.01
MC17080	593362.7	8109099.2	188.8	6a	Pto1	Ca Shale	0.8	8	-2	13.05	238	3.12	2	14	0.01	5	30	0.01

Sample_ID	Easting	Northing	RL	Trench#	Strat.	Lithology	Ag_ppm	As_ppm	Bi_ppm	Ca_%	Cu_ppm	Mg_%	Mo_ppm	Pb_ppm	S_%	Sb_ppm	Zn_ppm	Au_ppm
MC17081	593359.9	8109104.6	188.4	6a	Pto1	Ca Shale	-0.5	7	-2	13.4	216	3.24	1	10	0.01	5	29	0.012
MC17082	593357.0	8109110.0	188.0	6a	Pto1	Ca Shale	-0.5	6	-2	14.2	276	3.29	1	11	0.02	-5	28	0.01
MC17083	593345.1	8109088.3	187.0	6b	Pto1	Ca Shale	-0.5	8	-2	21.6	32	2.48	-1	4	-0.01	6	19	0.004
MC17084	593340.5	8109092.8	186.8	6b	Pto1	Ca Shale	-0.5	7	-2	19.05	25	4.35	1	6	-0.01	-5	23	0.003
MC17085	593335.8	8109097.2	186.6	6b	Pto1	Shale	-0.5	7	2	19.3	29	2.72	1	5	-0.01	-5	18	0.002
MC17086	593331.2	8109101.6	186.4	6b	Pto1	Shale/Tuff	-0.5	-5	-2	11.05	38	3	2	10	0.01	-5	28	0.003
MC17087	593326.6	8109106.1	186.2	6b	Pto1	Shale	-0.5	16	-2	2.16	51	3.03	1	7	0.01	5	33	0.005
MC17088	593322.0	8109110.5	186.1	6b	Pto1	Shale	-0.5	7	-2	4.98	59	2.57	2	7	-0.01	-5	26	0.002
MC17089	593317.4	8109115.0	185.9	6b	Pto1	Shale	0.7	11	-2	4.67	58	2.31	2	9	-0.01	-5	25	0.002
MC17090	593312.8	8109119.4	185.7	6b	Pto1	Shale	-0.5	5	2	4.82	52	2.54	1	5	-0.01	-5	26	0.002
MC17091	593308.2	8109123.9	185.5	6b	Pto1	Shale	-0.5	11	-2	0.2	60	2.75	2	10	0.01	-5	29	0.003
MC17092	593303.6	8109128.3	185.3	6b	Pto1	Shale	-0.5	13	2	0.24	110	2.34	2	11	0.01	-5	33	0.005
MC17093	593299.0	8109132.8	185.1	6b	Pto1	Shale	-0.5	23	-2	0.25	106	2.23	2	12	0.01	-5	32	0.006
MC17094	593294.4	8109137.2	184.9	6b	Pto1	Shale	-0.5	13	3	0.57	123	2.35	1	14	0.01	-5	29	0.005
MC17095	593289.8	8109141.7	184.7	6b	Pto1	Shale	-0.5	22	2	0.53	155	1.86	3	23	0.01	-5	32	0.004
MC17096	593285.2	8109146.1	184.5	6b	Pto1	Shale	-0.5	30	-2	0.76	211	2.07	3	56	0.01	-5	40	0.005
MC17097	593280.6	8109150.6	184.3	6b	Pto1	Shale	-0.5	15	3	0.38	115	2.34	3	19	0.01	-5	29	0.004
MC17098	593276.0	8109155.0	184.2	6b	Pto1	Shale	-0.5	13	-2	1.46	156	1.95	3	23	0.01	5	36	0.004
MC17099	593272.3	8109157.5	184.0	6b	SC	Dolerite	-0.5	5	-2	0.59	98	0.48	-1	5	0.02	-5	9	0.001
MC17100							3.1	52	2	3.85	3610	1.85	61	2130	0.4	-5	1075	0.457
MC17101	593314.1	8109922.7	168.5	7	Pto2	Dolo Shale	-0.5	-5	-2	16.85	84	3.5	1	7	0.08	-5	15	0.001
MC17102	593311.7	8109922.3	168.0	7	Pto1b	Ca Silt Shale	-0.5	-5	-2	13.6	161	2.1	1	8	0.03	-5	25	0.004
MC17103	593308.3	8109921.8	167.8	7	Pto1b	Ca Silt Shale	-0.5	-5	-2	11.05	147	2.29	1	6	0.03	9	29	0.005
MC17104	593304.9	8109921.4	167.6	7	Pto1b	Ca Silt Shale	-0.5	7	-2	8.38	107	2.33	1	7	0.02	5	32	0.004
MC17105	593301.5	8109920.9	167.3	7	Pto1b	Ca Silt Shale	-0.5	-5	-2	14.9	90	2.73	1	6	0.01	-5	29	0.006
MC17106	593298.1	8109920.4	167.1	7	Pto1b	Ca Silt Shale	-0.5	7	-2	7.04	93	2.93	1	9	0.02	-5	34	0.005
MC17107	593294.6	8109919.9	166.9	7	Pto1b	Ca Silt Shale	-0.5	-5	-2	10.7	73	3.27	-1	9	0.01	-5	29	0.005
MC17108	593291.2	8109919.4	166.7	7	Pto1b	Ca Silt Shale	-0.5	9	-2	12.5	66	4.06	1	10	0.03	5	26	0.005
MC17109	593287.8	8109919.0	166.5	7	Pto1b	Ca Silt Shale	-0.5	5	-2	14.65	49	5.56	-1	9	0.08	-5	24	0.005
MC17110	593284.4	8109918.5	166.2	7	Pto1a	Ca Shale	-0.5	-5	-2	6.39	23	8.64	-1	7	0.03	-5	28	0.003
MC17111	593281.0	8109918.0	166.0	7	Pto1a	Ca Shale	-0.5	5	-2	7.75	30	8.64	1	4	0.04	-5	22	0.002
MC17112	593318.1	8110232.7	161.5	8	Pto2	Dolo Siltstone	-0.5	-5	-2	10.9	44	5.08	-1	9	0.07	-5	13	0.001
MC17113	593320.0	8110234.0	161.0	8	Pto1b	Silty Ca Shale	-0.5	-5	-2	11.5	36	5.96	2	9	0.1	5	24	0.005
MC17114	593324.3	8110236.5	160.0	8	Pto1a	Ca Shale	-0.5	-5	3	7.18	21	4.56	1	10	0.04	-5	36	0.004
MC17115	593328.7	8110239.0	159.0	8	Pto1a	Ca Shale	-0.5	6	-2	11.65	18	4.13	1	10	0.16	6	34	0.005
MC17116	593333.0	8110241.5	158.0	8	Pto1a	Ca Shale	-0.5	-5	-2	10.9	20	3.99	1	3	0.1	5	37	0.003
MC17117	593464.9	8110053.3	177.5	9	Pto2	Dolo Siltstone	-0.5	-5	-2	10.05	100	4.27	-1	6	0.15	-5	17	-0.001
MC17118	593466.0	8110055.0	177.0	9	Pto1b	Silty Shale	-0.5	-5	2	6.03	77	3.54	1	10	0.02	6	36	0.005
MC17119	593468.8	8110058.7	176.2	9	Pto1b	Silty Shale	-0.5	-5	-2	2.79	79	3.04	1	12	0.02	5	42	0.005
MC17120	593471.5	8110062.3	175.3	9	Pto1b	Silty Shale	-0.5	8	-2	1.36	93	2.68	2	9	0.04	-5	39	0.003
MC17121	593474.3	8110066.0	174.5	9	Pto1b	Silty Shale	-0.5	5	2	0.88	65	3.11	3	8	0.02	5	44	0.004
MC17122	593477.0	8110069.6	173.7	9	Pto1b	Silty Shale	-0.5	5	-2	3.66	32	4.12	2	7	0.02	-5	46	0.002
MC17123	593479.8	8110073.3	172.9	9	Pto1a	Shale	-0.5	8	2	2.99	66	3.76	2	12	0.04	-5	43	0.003
MC17124	593482.6	8110077.0	172.0	9	Pto1a	Shale	-0.5	9	2	0.72	70	3.35	1	10	0.04	-5	42	0.003
MC17125							-0.5	24	5	0.02	6	0.02	18	9	0.05	-5	-2	0.001
MC17126	593485.3	8110080.6	171.2	9	Pto1a	Shale	-0.5	8	2	0.41	73	3.05	3	12	0.05	-5	41	0.004
MC17127	593488.1	8110084.3	170.4	9	Pto1a	Shale	-0.5	13	2	0.19	25	3.95	1	4	0.01	-5	42	0.003
MC17128	593490.8	8110087.9	169.5	9	Pto1a	Shale	-0.5	9	3	0.53	13	3.86	1	7	0.01	5	36	0.002
MC17129	593493.6	8110091.6	168.7	9	Pto1a	Shale	-0.5	8	2	1.38	9	4.44	1	8	0.01	-5	37	0.001
MC17130	593496.3	8110095.3	167.9	9	Pto1a	Ca Shale	-0.5	-5	-2	4.92	16	4.48	1	4	0.03	-5	27	0.001
MC17131	593499.1	8110098.9	167.0	9	Pto1a	Ca Shale	-0.5	8	-2	6.68	9	7.29	-1	11	0.03	-5	29	0.002
MC17132	593598.2	8109948.3	182.5	10	Pto2	Dolo Siltstone	-0.5	-5	-2	11.95	23	7.46	2	12	0.01	-5	18	0.001
MC17133	593593.8	8109947.9	182.0	10	Pto1b	Ca Shale	-0.5	-5	2	9.81	264	4.68	2	7	0.03	-5	22	0.004
MC17134	593585.8	8109947.2	181.0	10	Pto1b	Ca Shale	-0.5	6	-2	6.88	87	5.02	1	9	0.05	6	33	0.002
MC17135	593577.8	8109946.5	180.0	10	Pto1a	Shale	-0.5	5	3	4.46	86	4.13	1	8	0.04	7	38	0.002
MC17136	593569.9	8109945.8	179.0	10	Pto1a	Shale	-0.5	15	2	1.96	61	3.54	1	4	0.02	-5	51	0.003
MC17137	593561.9	8109945.1	178.0	10	Pto1a	Shale	-0.5	10	-2	1.88	69	3.38	1	9	0.03	-5	49	0.004
MC17138	593553.9	8109944.4	177.0	10	Pto1a	Shale	-0.5	7	3	0.77	85	3.07	1	7	0.02	-5	46	0.005
MC17139	593546.0	8109943.7	176.0	10	Pto1a	Shale	-0.5	9	3	1.98	112	3.53	1	11	0.03	-5	45	0.003
MC17140	593538.0	8109943.0	175.0	10	Pto1a	Shale	-0.5	-5	-2	4.62	113	3.32	2	6	0.01	-5	45	0.002
MC17141	593534.2	8109942.3	174.0	10	SC	Basalt	-0.5	9	2	1.15	246	3.88	1	5	0.05	-5	63	-0.001
MC17142	593673.7	8109786.6	185.5	11	Pto2	Dolo Siltstone	-0.5	-5	-2	22	25	1.89	-1	6	-0.01	5	11	-0.001
MC17143	593672.0	8109781.9	185.0	11	Pto1b	Ca Shale Silt	-0.5	-5	-2	16.6	121	3.69	1	8	-0.01	-5	17	0.003
MC17144	593670.3	8109777.2	184.0	11	Pto1b	Ca Shale Silt	-0.5	5	2	12.55	175	3.67	1	6	0.01	5	18	0.003
MC17145	593668.6	8109772.5	183.0	11	Pto1b	Ca Shale Silt	-0.5	5	-2	11.9	149	3.3	-1	10	0.01	-5	22	0.004
MC17146	593666.8	8109767.8	182.0	11	Pto1a	Ca Shale	-0.5	9	-2	8.02	53	4.72	1	8	0.02	-5	33	0.003
MC17147	593665.1	8109763.1	181.0	11	Pto1a	Ca Shale	-0.5	5	-2	4.9	43	4.17	1	6	0.01	-5	43	0.006
MC17148	593663.4	8109758.4	180.0	11	Pto1a	Shale	-0.5	9	2	4.7	44	3.84	1	7	0.02	-5	45	0.003
MC17149	593661.7	8109753.7	179.0	11	Pto1a	Shale	-0.5	13	-2	1.64	33	3.42	2	6	0.01	-5	50	0.004
MC17150							-0.5	11	-2	1.67	38	0.79	8	38	0.02	-5	58	0.017
MC17151	593660.0	8109749.0	178.0	11	Pto1a	Shale	-0.5	-5	-2	3.59	38	3.76	1	10	0.01	-5	48	0.004
MC17152	593658.8	8109745.7	177.0	11	Pto1a	Shale	-0.5	10	-2	3.01	36	3.96	1	10	0.02	-5	46	0.003
MC17153	593657.7	8109742.6	176.0	11	SC	Basalt	-0.5	13	-2	1.69	69	3.4	6	5	0.03	-5	27	0.001
MC17154	593740.9	8109889.0	190.5	12	Pto2	Dolo Siltstone	-0.5	-5	-2	20.5	31	1.36	1	5	0.06	-5	10	-0.001
MC17155	593743.0	8109889.0	190.0	12	Pto1b	Ca Shale Silt	-0.5	5	-2	11.2	66	3.98	2	6	0.06	-5	25	0.002
MC17156	593748.1	8109889.0	189.0	12	Pto1b	Ca Shale Silt	-0.5	-5	-2	11.7	69	2.31	1	8	0.06	5	23	0.003
MC17157	593753.2	8109889.0	188.0	12	Pto1b	Ca Shale Silt	-0.5	-5	-2	11.25	71	2.99	1	9	0.09	-5	19	0.002
MC17158	593758.3	8109889.0	187.0	12	Pto1b	Ca Shale Silt	-0.5	-5	-2	10.7	61	3.35	-1	7	0.11	-5	21	0.003
MC17159	593763.4	8109889.0	186.0	12	Pto1a	Shale	-0.5	5	3	8.26	50	3.58	1	9	0.11	-5	26	0.003
MC17160	593768.6	8109889.0	185.0	12	Pto1a	Shale	-0.5	-5	-2	5.59	47	3.11	1	8	0.13	-5	32	0.004

Sample_ID	Easting	Northing	RL	Trench#	Strat.	Lithology	Ag_ppm	As_ppm	Bi_ppm	Ca_%	Cu_ppm	Mg_%	Mo_ppm	Pb_ppm	S_%	Sb_ppm	Zn_ppm	Au_ppm
MC17161	593773.7	8109889.0	184.0	12	Pto1a	Shale	-0.5	10	-2	3.87	29	2.79	1	12	0.08	-5	41	0.004
MC17162	593778.8	8109889.0	183.0	12	Pto1a	Shale	-0.5	8	2	3.66	35	2.82	2	7	0.06	6	42	0.005
MC17163	593783.9	8109889.0	182.0	12	Pto1a	Shale	-0.5	8	-2	3.4	22	3.05	-1	9	0.03	5	44	0.004
MC17164	593789.0	8109889.0	181.0	12	Pto1a	Shale	-0.5	11	-2	4.31	24	3.45	2	8	0.03	-5	34	0.003
MC17165	593791.1	8109889.1	180.0	12	SC	Basalt	-0.5	37	6	2.89	82	2.68	6	8	0.05	-5	23	0.001
MC17166	594225.6	8109540.0	167.5	13	Pto2	Dolo Shale	-0.5	-5	-2	21.4	8	8.88	-1	6	-0.01	-5	11	0.002
MC17167	594227.0	8109543.0	167.0	13	Pto1b	Ca Shale Silt	-0.5	19	-2	8.08	52	2.73	2	11	0.02	-5	40	0.005
MC17168	594228.9	8109548.3	166.6	13	Pto1a	Ca Shale	-0.5	12	-2	6.31	35	3.21	1	14	0.01	5	41	0.005
MC17169	594230.9	8109553.6	166.1	13	Pto1a	Shale	-0.5	17	-2	5.27	41	3.05	2	3	0.01	6	45	0.005
MC17170	594232.8	8109559.0	165.7	13	Pto1a	Shale	-0.5	17	-2	5.28	41	3.07	1	10	0.01	-5	44	0.004
MC17171	594234.8	8109564.3	165.3	13	Pto1a	Shale	-0.5	17	-2	8.71	68	2.46	2	18	0.01	6	40	0.004
MC17172	594236.7	8109569.6	164.9	13	Pto1a	Shale	-0.5	9	-2	10.2	31	3.2	2	12	-0.01	-5	35	0.003
MC17173	594238.6	8109575.0	164.4	13	Pto1a	Shale	-0.5	16	-2	9.35	43	2.99	1	8	0.01	-5	34	0.004
MC17174	594239.4	8109577.5	164.0	13	SC	Dolerite	-0.5	10	3	0.38	60	0.56	3	6	0.01	-5	25	-0.001
MC17175				13			0.6	6	2	0.12	190	0.03	-1	26	0.06	-5	309	0.347
MC17176	594024.6	8109464.4	174.5	14	Pto2	Dolo Siltstone	-0.5	-5	3	15.35	109	3.01	1	12	0.08	-5	15	0.003
MC17177	594022.3	8109463.3	174.0	14	Pto1b	Ca Silt Shale	-0.5	18	3	8.52	151	1.08	3	14	0.03	-5	32	0.007
MC17178	594017.4	8109461.7	173.2	14	Pto1b	Ca Silt Shale	-0.5	15	2	16.5	108	1.08	2	18	0.07	-5	24	0.009
MC17179	594012.6	8109460.2	172.4	14	Pto1b	Ca Silt Shale	-0.5	11	2	16.3	84	1.03	1	12	0.09	-5	24	0.012
MC17180	594007.7	8109458.6	171.5	14	Pto1b	Ca Silt Shale	-0.5	11	2	20.3	48	0.87	1	11	0.09	-5	19	0.012
MC17181	594002.9	8109457.0	170.7	14	Pto1b	Ca Silt Shale	-0.5	7	-2	14.55	51	1.7	1	12	0.11	-5	29	0.005
MC17182	593998.0	8109455.4	169.9	14	Pto1a	Ca Shale	-0.5	12	-2	14.55	46	1.63	2	19	0.11	-5	35	0.004
MC17190	593967.4	8109195.4	168.5	15	Pto2	Dolo Siltstone	-0.5	-5	-2	20.7	11	4.01	1	4	0.15	-5	13	0.001
MC17191	593965.4	8109194.0	168.0	15	Pto1a	Ca Shale	-0.5	-5	-2	21	22	3.68	1	5	0.11	-5	14	0.007
MC17192	593961.9	8109192.0	167.0	15	Pto1a	Ca Shale	-0.5	-5	-2	18.85	43	4.65	1	6	0.13	-5	16	0.006
MC17193	593958.5	8109190.0	166.0	15	Pto1a	Ca Shale	-0.5	5	-2	16.15	26	4.93	1	9	0.14	-5	18	0.004
MC17194	593955.0	8109188.0	165.0	15	Pto1a	Ca Shale	-0.5	8	3	10.15	14	5.25	1	5	0.11	-5	30	0.001
MC17195	593272.2	8109498.9	186.5	16	Pto2	Dolostone	-0.5	21	3	10.5	334	5.18	2	18	0.15	-5	13	0.001
MC17196	593271.4	8109501.2	186.0	16	Pto1b	Ca Silty Shale	-0.5	12	-2	14.35	214	1.52	2	7	-0.01	-5	26	0.005
MC17197	593270.8	8109504.7	185.0	16	Pto1b	Ca Shale	-0.5	7	27	11.2	4230	3.82	1	10	0.02	-5	26	0.006
MC17198	593270.2	8109508.1	184.0	16	Pto1b	Ca Shale	-0.5	6	6	8.88	1135	3.04	1	8	0.04	-5	29	0.006
MC17199	593269.6	8109511.6	183.0	16	Pto1a	Ca Shale	-0.5	10	-2	7.3	409	4.28	2	8	0.03	-5	42	0.005
MC17200				16			2.8	57	2	3.86	3730	1.86	60	2140	0.4	-5	1090	NSS
MC17201	593269.0	8109515.0	182.0	16	Pto1a	Ca Shale	-0.5	9	-2	8.27	268	4.15	2	9	0.05	-5	40	0.004
MC17202	593265.0	8109517.0	181.0	16	SC	Hornfels Shale	-0.5	14	-2	2.64	30	3.54	2	7	-0.01	-5	48	0.003
MC17203	593486.8	8109394.6	185.9	17	Pto1a	Silic. Siltst.	-0.5	6	-2	8.78	23	5.63	2	5	0.11	-5	16	-0.001
MC17204	593488.7	8109397.4	185.2	17	Pto1a	Ca Shale	-0.5	22	3	8.2	366	3.48	3	13	0.05	-5	41	0.005
MC17205	593490.6	8109400.3	184.5	17	Pto1a	Ca Shale	-0.5	13	15	12.7	3320	3.76	2	10	0.05	-5	37	0.008
MC17206	593492.6	8109403.1	183.8	17	Pto1a	Ca Shale	-0.5	36	-2	8.75	783	5.28	3	7	0.04	-5	47	0.009
MC17207	593494.5	8109406.0	183.1	17	Pto1a	Shale	-0.5	10	3	2.87	1580	4.58	3	6	0.1	-5	60	0.008
MC17208	593496.4	8109408.8	182.4	17	Pto1a	Shale	-0.5	10	7	1.27	1405	5.48	1	11	0.06	-5	97	0.006
MC17209	593498.3	8109411.7	181.7	17	Pto1a	Shale	-0.5	12	-2	0.47	622	5.3	2	3	0.04	-5	93	0.005
MC17210	593499.5	8109412.9	181.0	17	SC	Hornfelsic Shale	-0.5	9	2	0.25	444	4.05	6	9	0.01	-5	80	0.006
MC17211	593481.0	8109386.0	188.0	17	Pto1a	Silic. Siltst.	-0.5	-5	3	9.86	20	5.99	2	8	0.08	-5	15	-0.001
MC17212	593482.9	8109388.9	187.3	17	Pto1a	Silic. Siltst.	-0.5	6	-2	10.6	14	6.06	2	4	0.08	-5	9	0.001
MC17213	593484.9	8109391.7	186.6	17	Pto1a	Silic. Siltst.	-0.5	-5	-2	6.41	24	4.27	3	9	0.11	-5	18	-0.001
MC17214	593583.2	8109257.8	195.5	18	Pto2	Slst. Calc.	-0.5	9	-2	1.56	31	1.11	3	8	0.03	-5	14	0.002
MC17215	593585.0	8109259.0	195.0	18	Pto1a	Siltstone	-0.5	-5	2	13.9	25	8.11	1	10	-0.01	-5	10	0.001
MC17216	593588.0	8109260.9	194.1	18	Pto1a	Siltstone	-0.5	5	-2	8.67	14	5.39	2	7	-0.01	-5	14	-0.001
MC17217	593590.9	8109262.7	193.2	18	Pto1a	Siltstone	-0.5	6	4	7.56	27	4.84	2	7	-0.01	-5	16	-0.001
MC17218	593593.9	8109264.6	192.3	18	Pto1a	Siltstone	-0.5	6	-2	6.43	29	4.12	2	10	0.02	-5	16	-0.001
MC17219	593596.9	8109266.4	191.4	18	Pto1a	Siltstone	-0.5	-5	3	7.99	14	4.98	1	2	0.01	-5	15	-0.001
MC17220	593599.8	8109268.3	190.6	18	Pto1a	Siltstone	-0.5	6	2	8.42	19	5.36	2	8	-0.01	-5	16	-0.001
MC17221	593602.8	8109270.1	189.7	18	Pto1a	Ca Silty Shale	-0.5	11	-2	7.44	922	2.47	7	6	0.01	-5	29	0.007
MC17222	593605.8	8109272.0	188.8	18	Pto1a	Ca Silty Shale	-0.5	16	-2	10.1	316	3.77	3	10	0.01	-5	24	0.006
MC17223	593608.7	8109273.8	187.9	18	Pto1a	Shale	-0.5	8	-2	7.74	147	4.21	3	12	0.01	-5	30	0.055
MC17224	593611.7	8109275.7	187.0	18	Pto1a	Shale	-0.5	8	3	5.34	98	5.41	1	11	0.01	-5	37	0.002
MC17225				18			-0.5	20	3	0.02	8	0.02	20	17	0.05	-5	3	0.001
MC17226	593614.7	8109277.6	186.1	18	Pto1a	Shale	-0.5	16	2	2.72	128	4.12	2	9	0.01	-5	41	0.003
MC17227	593617.7	8109279.4	185.2	18	Pto1a	Shale	-0.5	11	3	1.73	103	4.12	3	7	0.01	-5	44	0.003
MC17228	593620.6	8109281.3	184.3	18	Pto1a	Shale	-0.5	13	-2	4.82	70	4.32	2	10	0.01	-5	45	0.005
MC17229	593623.6	8109283.1	183.4	18	Pto1a	Shale	-0.5	12	5	5.82	48	4.15	2	6	-0.01	-5	46	0.004
MC17230	593626.6	8109285.0	182.5	18	Pto1a	Shale	-0.5	13	-2	0.87	78	4	2	9	0.01	-5	46	0.004
MC17231	593629.5	8109286.8	181.7	18	Pto1a	Shale	-0.5	10	3	4.02	70	3.84	2	7	-0.01	-5	43	0.003
MC17232	593632.5	8109288.7	180.8	18	Pto1a	Shale	-0.5	12	-2	7.59	55	3.6	2	6	-0.01	-5	39	0.003
MC17233	593635.5	8109290.5	179.9	18	Pto1a	Shale	-0.5	13	3	0.41	58	2.71	2	10	0.01	-5	37	0.004
MC17234	593637.7	8109291.5	179.0	18	SC	Basalt	-0.5	10	2	0.25	12	2.81	2	5	0.01	-5	14	0.001