Red River Hits More High Grade at West 45

Highlights:

- **Geotechnical drilling program confirms potential for addition of upper level (996) in West 45**
  - **TH828: 5.44m @ 0.5% Cu, 3.1% Pb, 6.1% Zn, 0.2 g/t Au & 87 g/t Ag (13.0% Zn Eq.) from 27.55m down hole**
  - **TH829: 6.17m @ 0.6% Cu, 4.7% Pb, 8.0% Zn, 0.3 g/t Au & 50 g/t Ag (15.5% Zn Eq.) from 22.09m down hole**
- **Underground resource definition and extension program completed – confirms tonnages in Lens 4 and Lens 6. Positive assay results received from 13 holes to date, with results from final hole expected this quarter**
- **Exceptional gold and silver mineralisation intercepts continue at West 45:**
  - **TH808: 8.25m @ 5.1 g/t Au & 512 g/t Ag from 111.75m down hole including 0.32m @ 120.8 g/t Au and 11,256 g/t Ag (1.1% Ag) from 113.90m down hole**
  - **TH827: 9.21m @ 0.6 g/t Au & 407 g/t Ag from 18.84m down hole including 0.51m @ 5.2 g/t Au and 3,935 g/t Ag from 21.25m down hole**

Figure 1 TH808 High grade gold-silver mineralisation (0.32m @ 120.8 g/t Au & 11,256 g/t Ag)

Silver dominant mineral (native silver) circled in image

Red River Resources Limited (ASX: RVR) ("Red River" or the "Company") is pleased to update the market as to the progress of drilling activities at the West 45 underground mine, part of the Company's Thalanga Operations in Northern Queensland.

Red River's surface geotechnical drilling program has successfully defined the potential for an additional level (996) above the existing 976 level in West 45. Red River has received positive assay results from all holes, including the following highlights:

- **5.44m @ 0.5% Cu, 3.1% Pb, 6.1% Zn, 0.2 g/t Au & 87 g/t Ag (13.0% Zn Eq.)** from 27.55m down hole in TH828; and
- **6.17m @ 0.6% Cu, 4.7% Pb, 8.0% Zn, 0.3 g/t Au & 50 g/t Ag (15.5% Zn Eq.)** from 22.09m down hole in TH829

Exceptional gold and silver mineralisation intercepts continue at West 45. Notable results received include:

- **8.25m @ 5.1 g/t Au & 512 g/t Ag** from 111.75m down hole including **0.32m @ 120.8 g/t Au and 11,256 g/t Ag (1.1% Ag)** from 113.90m down hole in TH808; and
- **9.21m @ 0.6 g/t Au & 407 g/t Ag** from 18.84m down hole including **0.51m @ 5.2 g/t Au and 3,935 g/t Ag** from 21.25m down hole in TH829

Red River has also completed an underground resource definition and extension drilling program at West 45. To date, positive assay results have been received from thirteen holes and assay results are pending from a further hole.

1. West 45 Drilling Update

Red River has received positive results from its continuing drilling programs at West 45:

(a) Surface Geotechnical Drilling Program

- Program objectives were to confirm the Mineral Resource above the existing current development in West 45 and to provide geotechnical data for the potential development of a 996 Level in West 45, above existing 976 Level
- To date, 10 holes have been drilled for a total of 343.2 metres
- Positive assay results have been received from all holes drilled in the program

(b) UG Resource Definition and Extension Drilling Program

- Program objectives were to define mineralisation in Lens 4 and Lens 6
- To date, 16 holes have been drilled for a total of 1,807.15 metres
- Positive assay results have been received from thirteen holes to date, and assay results are pending from a further hole.

2. Geotechnical Drilling Program

To date, a program of 10 drill holes, for a total of 343.2 metres has been completed. The objective of the drilling program was to confirm the Mineral Resource above the existing current development in West 45 and to provide geotechnical data for the potential development of a 996 Level in West 45, above the existing 976 Level. The drilling program returned the following material assays (Table 1)

Table 1 West 45 Shallow Geotechnical Drilling Program Assay Summary, Thalanga Operation

Hole ID	From (m)	To (m)	Intersection (m)[(1)]	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)	Zn Eq. (%)
TH825	20.71	22.38	1.67	0.9	4.1	13.0	0.3	55	21.1
TH827	18.00	18.84	0.84	2.2	11.4	4.0	0.9	99	24.4
TH828	27.55	32.99	5.44	0.5	3.1	6.1	0.2	87	13.0
TH829	22.09	28.26	6.17	0.6	4.7	8.0	0.3	50	15.5
TH830	17.75	21.50	3.75	0.6	4.7	8.4	0.5	69	16.4
TH831	5.9	6.43	0.53	0.3	6.3	0.1	0.4	250	13.3
TH832	13.02	16.18	3.16	0.3	1.5	1.4	0.4	119	6.9
TH833	18.29	19.10	0.81	0.4	4.6	7.0	1.7	908	36.0
TH834	17.12	17.95	0.83	0.3	4.9	7.8	2.8	322	22.6
TH835	23.19	23.69	0.50	0.3	3.1	5.0	1.3	376	18.9
(1) Down hole width									

The drilling program also intersected a zone of gold-silver dominant (base metal poor) mineralisation in drill hole TH827 from 18.84m down hole of 9.21m @ 0.6 g/t Au & 407 g/t Ag including 0.51m @ 5.2 g/t Au & 3,935 g/t Ag from 21.25m downhole. (refer to Section 4, Table 5 for further details).

Table 2 West 45 Shallow Geotechnical Drilling Program Drillhole Details, Thalanga Operation

Hole ID	Depth (m)	Dip	Azi (MGA)	East (MGA)	North (MGA)	RL (MGA)	Lease ID	Hole Status
TH825	37	-45	13	369862	7751332	359	ML1531	Complete
TH827	36	-45	52	369898	7751319	361	ML1531	Complete
TH828	36	-55	24	369928	7751309	363	ML1531	Complete
TH829	35	-50	26	369942	7751303	364	ML1531	Complete
TH830	35	-50	27	369961	7751297	366	ML1531	Complete
TH831	34.5	-49	25	369980	7751291	368	ML1531	Complete
TH832	35	-45	27	369988	7751279	367	ML1531	Complete
TH833	30	-50	18	370007	7751270	368	ML1531	Complete
TH834	33	-50	28	370020	7751264	369	ML1531	Complete
TH835	31.7	-50	26	370050	7751245	370	ML1531	Complete

The drilling program has been a success, with core from geotechnical drilling program (Figure 2) demonstrating the ability to mine a higher level in West 45. On average the base of complete oxidation was calculated at 2 to 3 metres depth, and the top of fresh rock boundary at 15 to 20 metres depth.

Figure 2 TH829 (from 20.91m to 26.35m downhole width)

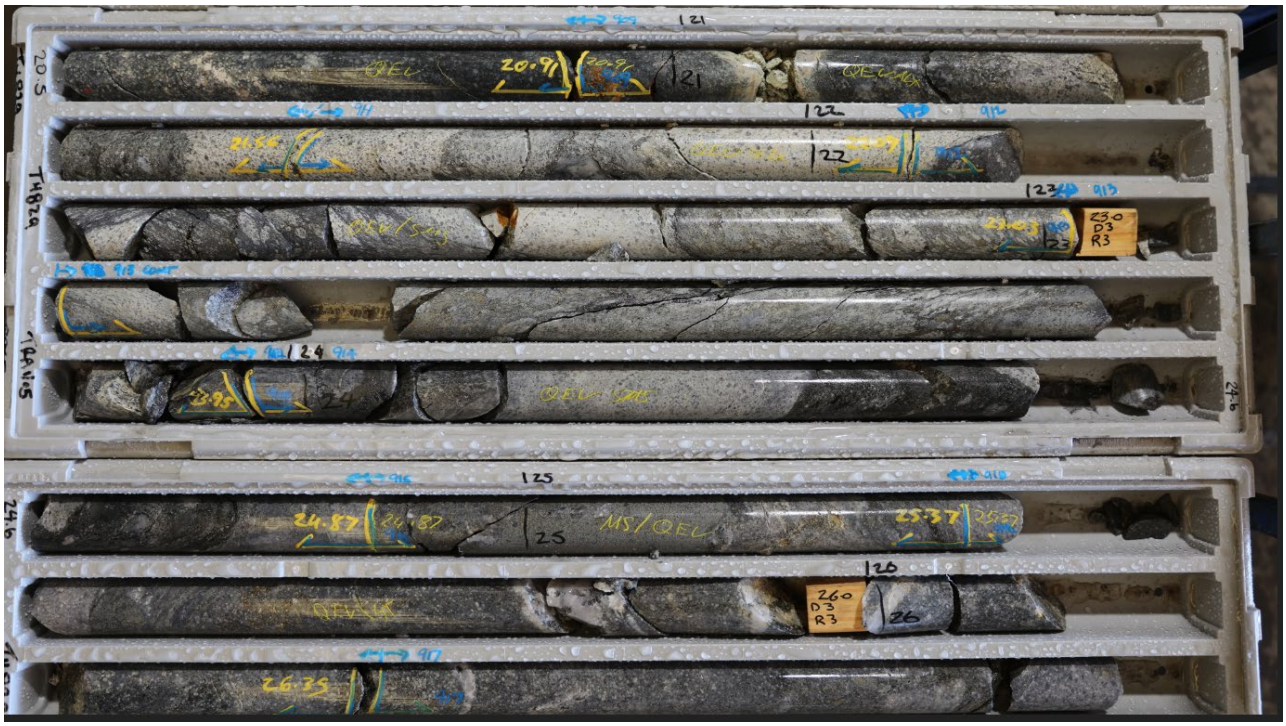


Figure 3 Upper Levels cross section

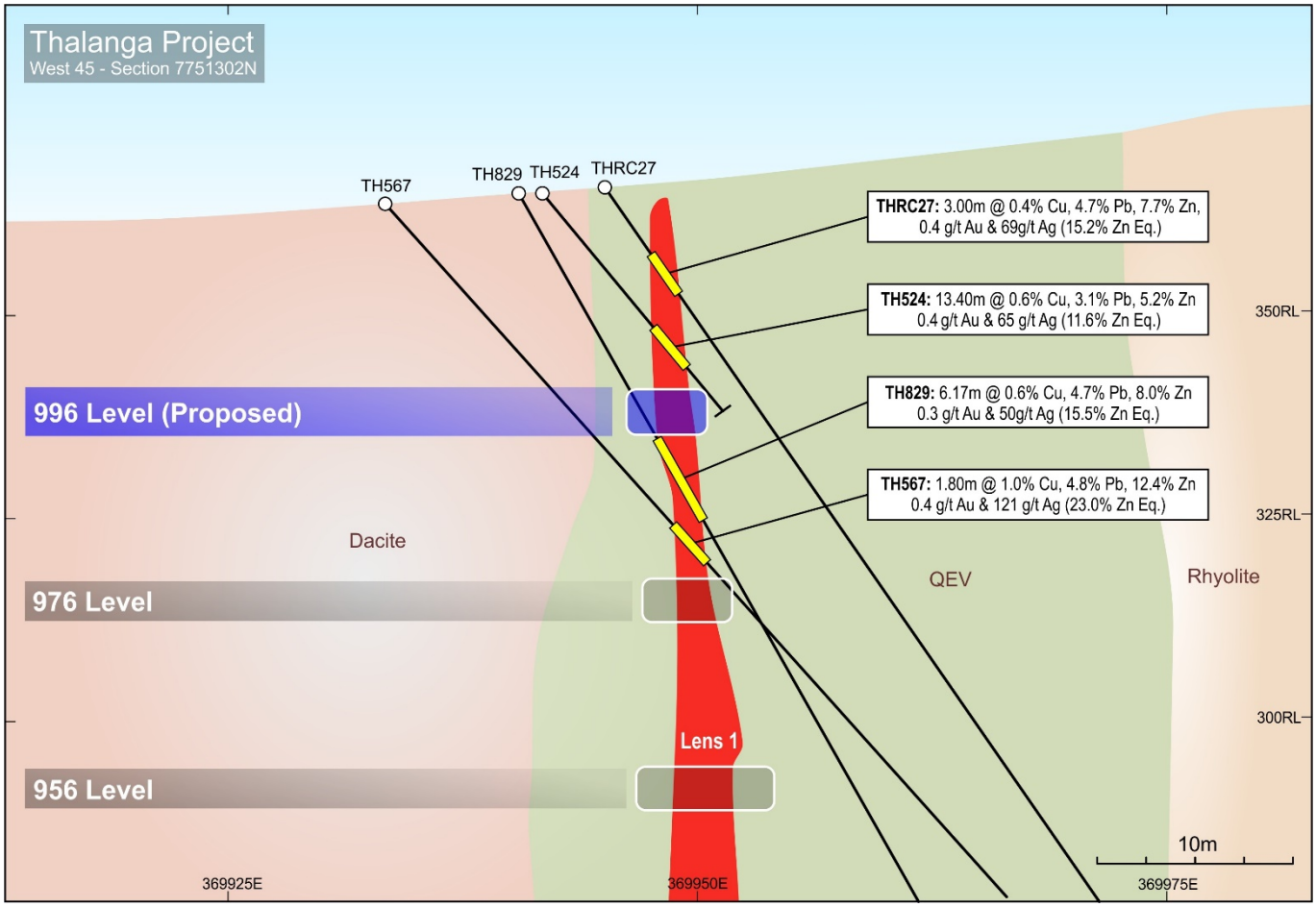
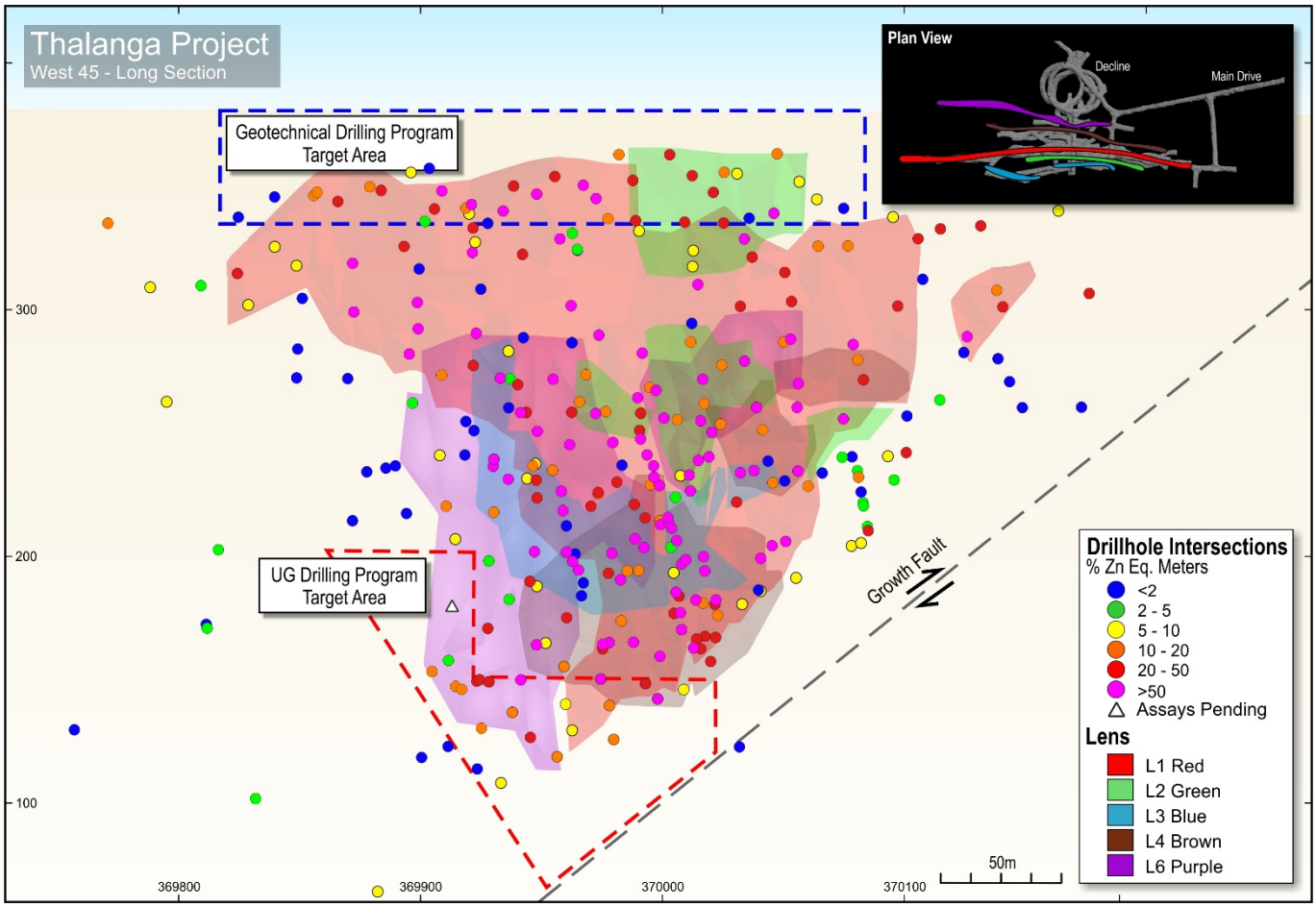


Figure 4 Geotechnical Drilling Long Section



3. West 45 UG Resource Definition & Extension Drilling program

Since the commencement of the program, a total of 16 drill holes, for a total of 1,807.15 metres have been completed in the current West 45 UG diamond drilling program.

The objectives of the drilling program are as follows (a) to increase confidence in Lens 6 mineralisation prior to a decision to mine (b) target down dip extensions of Lens 4 and (c) understand the structural framework controlling the West 45 mineralisation to target deeper holes targeting repetitions of the West 45 mineralisation. To date, the drilling program returned the following material assays (Table 3).

Figure 5 W45 UG001 Drill Core

Table 3 West 45 UG Drilling Program assay summary, Thalanga Operation

Hole ID	Target	From (m)	To (m)	Width (m)[(1)]	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)	Zn Eq. (%)
W45UG001	FW min	65.50	67.80	2.30	0.3	3.0	4.7	0.9	50	10.0
and	L6	77.20	85.00	7.80	0.2	3.1	4.8	0.3	26	9.0
W45UG002	L6	70.14	72.76	2.62	0.5	1.0	4.9	0.3	21	8.1
W45UG003	L6	78.30	86.55	8.25	0.3	0.5	2.2	0.0	9	4.0
and	L4	90.68	91.85	1.17	0.1	1.5	6.8	0.1	9	8.7
W45UG005	L6	76.20	79.50	3.30	0.4	0.6	1.9	0.1	20	4.2
and	L6	91.20	93.00	1.80	0.0	1.0	6.3	0.0	7	7.5
W45UG006	L6	168.00	170.00	2.00	0.2	2.0	2.5	0.1	15	5.5
W45UG011	L6	79.00	82.00	3.00	0.6	0.2	1.8	0.1	7	4.2
W45UG012	L6	59.40	62.67	3.27	1.2	1.2	4.4	1.4	32	10.9
and	L4	69.00	72.00	3.00	0.1	1.1	2.8	0.0	8	4.3
W45UG013	L6	68.10	69.00	0.90	0.5	0.1	4.0	0.0	8	6.1
and	L4	78.50	80.00	1.50	0.3	2.9	4.3	0.1	9	8.1
W45UG016	L6	59.80	71.00	11.20	0.3	1.7	3.2	0.0	7	5.8
inc.	L6	59.80	61.00	1.20	1.2	2.0	6.7	0.1	18	12.8
W45UG017	L6	63.00	65.00	2.00	0.2	0.8	4.5	0.0	14	6.3
W45UG018	L6	69.20	71.50	2.30	0.8	0.3	2.1	0.1	11	5.9
and	L6	78.00	84.00	6.00	0.2	0.2	3.4	0.0	5	4.2
W45UG019	L6	22.50	26.00	3.50	2.0	0.4	1.6	0.2	22	9.0
W45UG020	L6	14.00	15.10	1.10	0.3	0.8	6.5	0.3	50	9.6
and	L6	20.00	25.70	5.70	1.4	1.0	2.8	0.1	37	9.1
W45UG021	L6	23.00	26.00	3.00	0.2	1.1	2.2	0.0	8	4.0
and	L4	38.40	40.00	1.60	0.1	1.8	3.1	0.1	3	5.2
(1) Down hole width										

Table 4 West 45 UG Drilling Program Drillhole Details, Thalanga Operation

Hole ID	Depth (m)	Dip	Azi (MGA)	East (MGA)	North (MGA)	RL (MGA)	Lease ID	Hole Status
W45UG001	95.05	41	260	371690	7750586	189	ML1531	Complete
W45UG002	88.95	-13	255	371690	7750586	186	ML1531	Complete
W45UG003	107	-27	255	371690	7750586	186	ML1531	Complete
W45UG005	131.3	-39	252	371690	7750586	185	ML1531	Complete
W45UG006	239.2	-48	256	371690	7750586	185	ML1531	Complete
W45UG010	25.35	-44	244	371690	7750586	185	ML1531	Abandoned
W45UG011	176.3	-56	245	371690	7750586	185	ML1531	NSI
W45UG012	116.3	-30	225	371689	7750585	186	ML1531	Complete
W45UG013	98.2	-42	228	371689	7750586	185	ML1531	Complete
W45UG016	116.6	-35	208	371689	7750585	186	ML1531	Complete
W45UG017	152.8	-46	208	371689	7750585	185	ML1531	Complete
W45UG018	143.85	-57	208	371689	7750585	185	ML1531	Complete
W45UG019	74	-33	237	370011	7751360	162	ML1531	Complete
W45UG020	79.3	-54	246	370011	7751360	162	ML1531	Complete
W45UG021	61	-39	191	370011	7751359	161	ML1531	Complete
W45UG023	101.95	-2	270	369994	7751409	187	ML1531	Awaiting Assays

Figure 6 UG Drilling Long Section

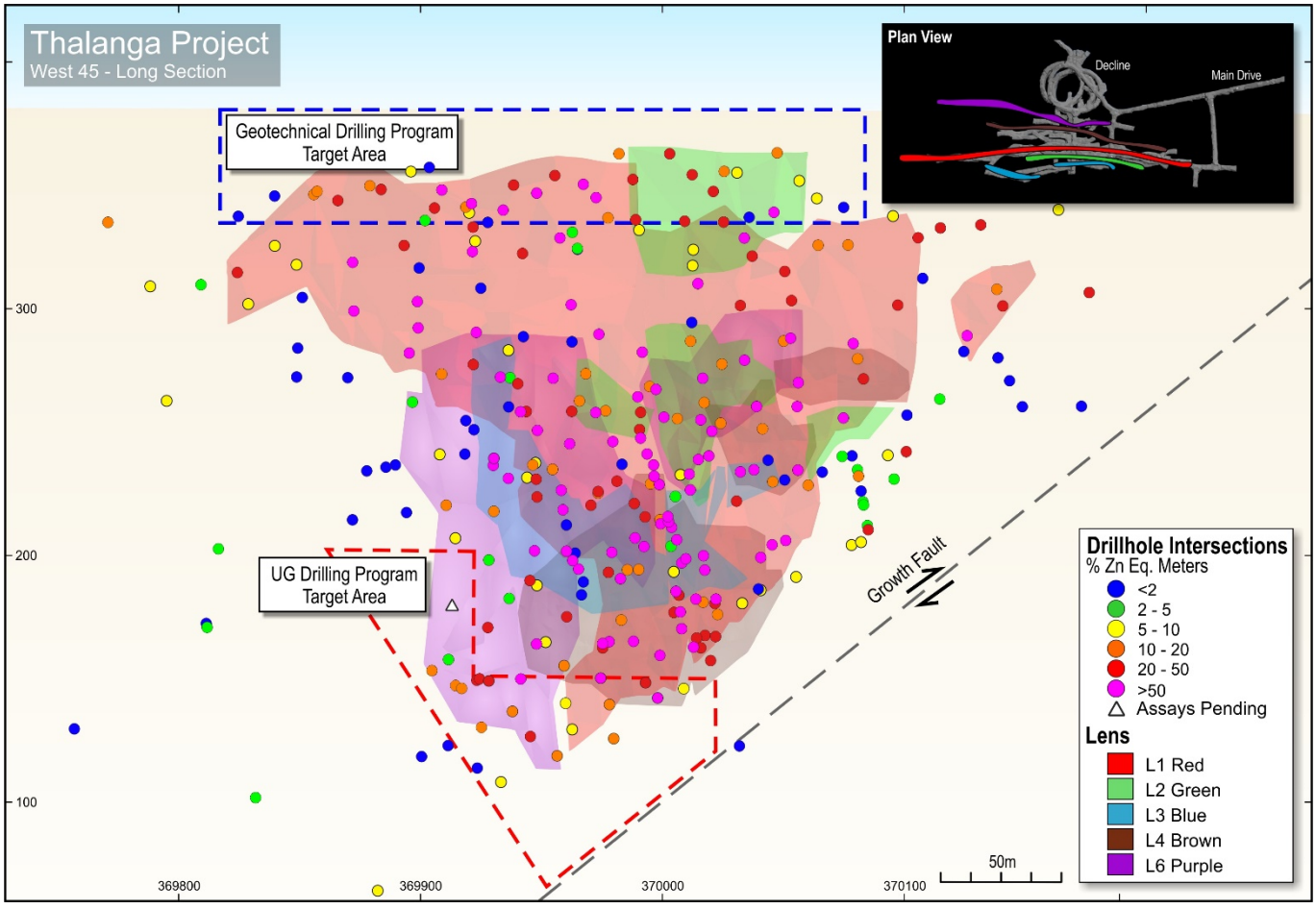
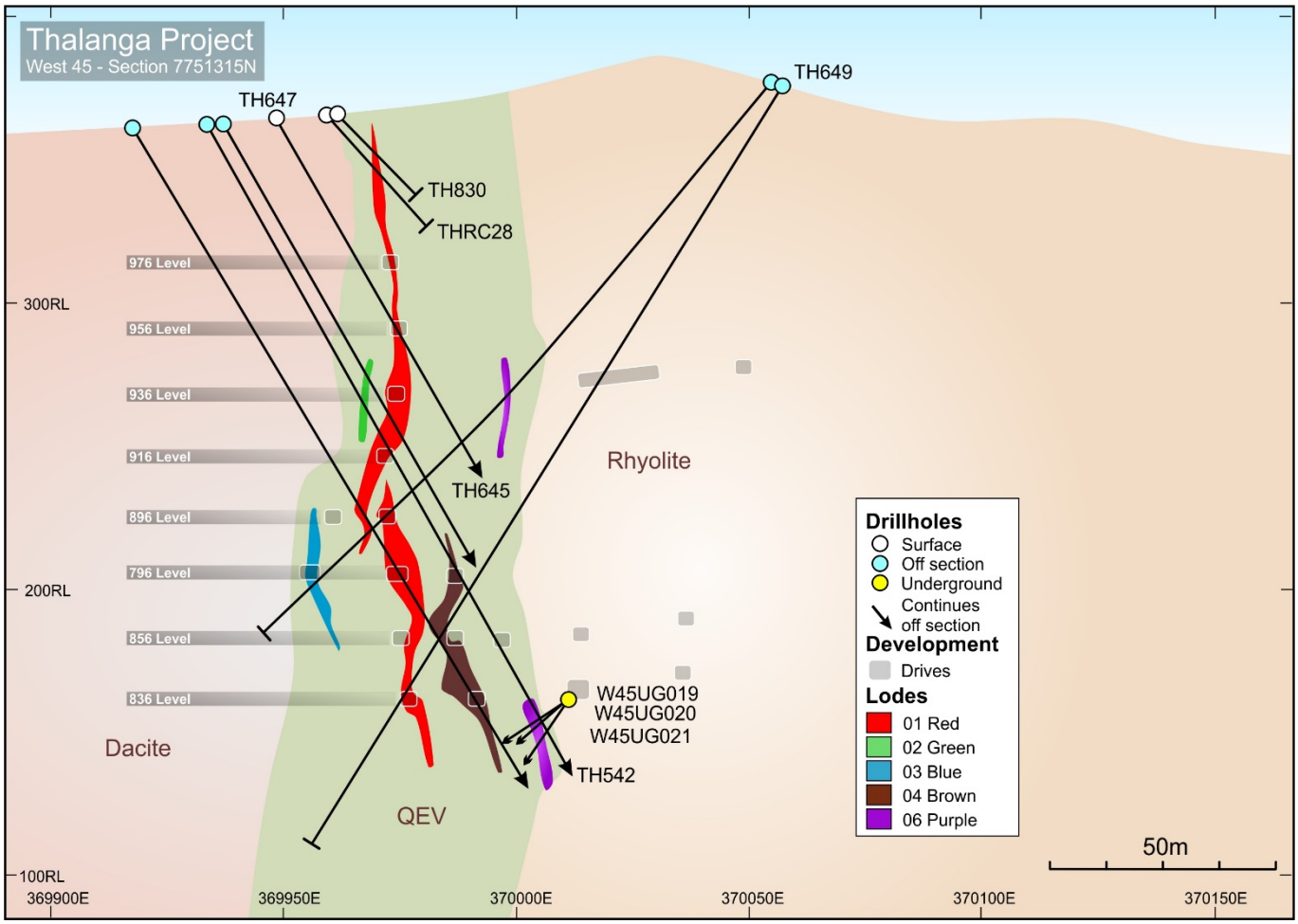


Figure 7 UG Drilling Cross Section



4. Exceptional Gold Silver Dominant Mineralisation

Drilling has continued to intersect discrete zones of high grade gold-silver mineralisation at West 45. These results (Table 5) are in addition to the previously announced result (18 September 2017), where drill hole TH738 intersected 7.50m @ 5.7 g/t Au & 596 g/t Ag from 45.0m down hole, including 1.0m @ 31.5 g/t Au and 2,970 g/t Ag from 51.50m down hole.

Red River is carrying out additional mapping and resampling of core to seek to identify whether the high grade gold-silver mineralisation can be defined as a continuous, potentially mineable body of mineralisation.

Table 5 Gold-Silver Dominant Mineralisation, Thalanga Operation (West 45)

Hole ID	From (m)	To (m)	Intersection (m)[(1)]	Cu (%)	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
TH800	244.70	247.10	2.40	0.0	0.1	0.1	1.0	320
inc.	245.70	246.40	0.70	0.0	0.1	0.2	1.6	658
TH808	111.75	120.00	8.25	0.0	0.3	0.4	5.1	512
inc.	113.90	114.22	0.32	0.5	0.6	0.1	120.8	11,256
TH827	18.84	28.05	9.21	0.1	0.3	0.4	0.6	407
inc.	21.25	21.76	0.51	0.1	0.5	1.1	5.2	3,935

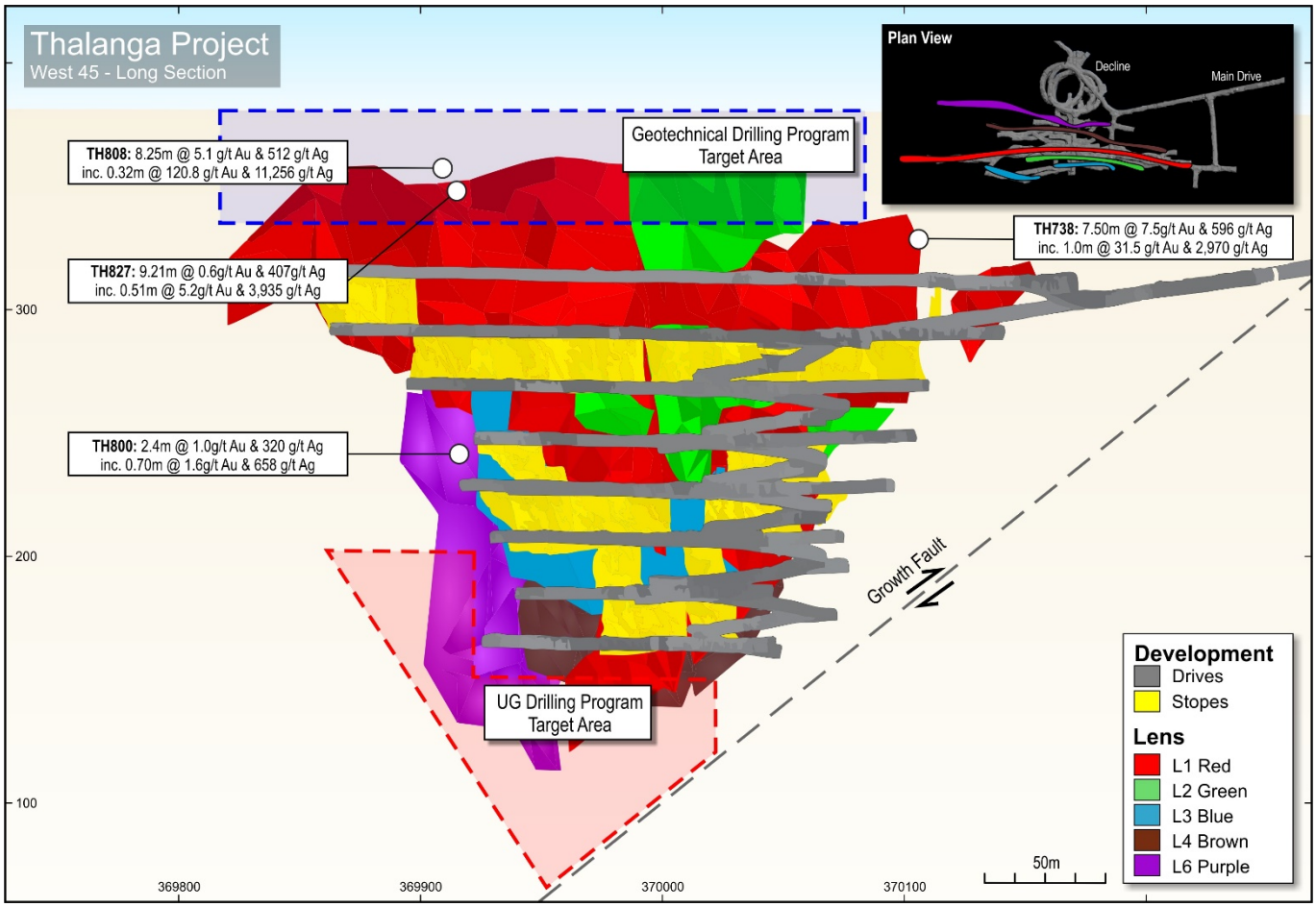
Figure 8 TH808 High grade gold-silver mineralisation (0.32m @ 120.8 g/t Au & 11,256 g/t Ag)

Silver dominant mineral (native silver) circled in image

Table 6 West 45 UG Drilling Program Drillhole Details, Thalanga Operation (West 45)

Hole ID	Depth (m)	Dip	Azi (MGA)	East (MGA)	North (MGA)	RL (MGA)	Lease ID	Hole Status
TH800	294.15	-55	20	369883	7751242	359	ML1531	Complete
TH808	146.4	-55	26	369902	7751328	361	ML1531	Complete
TH827	36	-45	52	369898	7751319	361	ML1531	Complete

Figure 9 High grade Au Ag drill hole location



About Red River Resources (ASX: RVR)

RVR is the leading ASX base metal producer, with its key asset being the Thalanga Operation in Northern Queensland. RVR commenced copper, lead and zinc concentrate production at the Thalanga Operation in September 2017 and RVR is focused on maximising returns from the Operation by increasing plant throughput and extending mine life through increasing Mineral Resources and Ore Reserves at deposits currently in the mine plan (West 45, Far West and Waterloo), by potentially converting Mineral Resources into Ore Reserves at Liontown and Orient and by continuing to aggressively explore our growing pipeline of high quality targets within the surrounding area.

On behalf of the Board,

Mel Palancian
Managing Director
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COMPETENT PERSON STATEMENT

Exploration Results

The information in this report that relates to Exploration Results is based on information compiled by Mr Steven Harper who is a member of The Australasian Institute of Mining and Metallurgy, and a full time employee of Red River Resources Ltd., and who has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activities being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting Exploration Results, Mineral Resources and Ore Reserves' (JORC Code).

Mr Harper consents to the inclusion in this report of the matters based on the information in the form and context in which it appears.

Zinc Equivalent Calculation

The net smelter return zinc equivalent (Zn Eq.) calculation adjusts individual grades for all metals included in the metal equivalent calculation applying the following modifying factors: metallurgical recoveries, payability factors (concentrate treatment charges, refining charges, metal payment terms, net smelter return royalties and logistic costs) and metal prices in generating a zinc equivalent value for copper (Cu), lead (Pb), zinc (Zn), gold (Au) and silver (Ag).

Red River has selected to report on a zinc equivalent basis, as zinc is the metal that contributes the most to the net smelter return zinc equivalent (Zn Eq.) calculation. It is the view of Red River Resources that all the metals used in the Zn Eq. formula are expected to be recovered and sold.

Where:

Metallurgical Recoveries are derived from historical metallurgical recoveries from test work carried out the Thalanga deposit. The Metallurgical Recovery for each metal is shown below in Table 1.

Metal Prices and Foreign Exchange assumptions are set as per internal Red River price forecasts and are shown below in Table 1.

Table 1 Metallurgical Recoveries and Metal Prices

Metal	Metallurgical Recoveries (West 45)	Price
Copper	80%	US$3.00/lb
Lead	80%	US$0.90/lb
Zinc	89%	US$1.00/lb
Gold	47%	US$1,200/oz
Silver	70%	US$17.00/oz
FX Rate: A$0.75:US$1		

Payable Metal Factors are calculated for each metal and make allowance for concentrate treatment charges, transport losses, refining charges, metal payment terms and logistic costs. It is the view of Red River that three separate saleable base metal concentrates will be produced at Thalanga. Payable metal factors are detailed below in Table 2.

Table 2 Payable Metal Factors

Metal	Payable Metal Factor
Copper	Copper concentrate treatment charges, copper metal refining charges copper metal payment terms (in copper concentrate), logistic costs and net smelter return royalties
Lead	Lead concentrate treatment charges, lead metal payment terms (in lead concentrate), logistic costs and net smelter return royalties
Zinc	Zinc concentrate treatment charges, zinc metal payment terms (in zinc concentrate), logistic costs and net smelter return royalties
Gold	Gold metal payment terms (in copper and lead concentrates), gold refining charges and net smelter return royalties
Silver	Silver metal payment terms (in copper, lead and zinc concentrates), silver refining charges and net smelter return royalties

The zinc equivalent grade is calculated as per the following formula:

Zn Eq. = (Zn%*ZnMEF) + (Cu%*CuMEF) + (Pb%*PbMEF) + (Au ppm*AuMEF) + (Ag ppm*AgMEF)

The following metal equivalent factors used in the zinc equivalent grade calculation has been derived from metal price x Metallurgical Recovery x Payable Metal Factor and have then been adjusted relative to zinc (where zinc metal equivalent factor = 1).

Table 3 Metal Equivalent Factors

Metal Equivalent Factor	Copper CuMEF	Lead PbMEF	Zinc ZnMEF	Gold AuMEF	Silver AgMEF
West 45	3.3	0.9	1.0	0.5	0.025

APPENDIX 1 – DRILLHOLE ASSAY DETAILS

Table 7 Geotechnical Drill hole Assay Results

Hole ID	From (m)	To (m)	Int (m)[(1)]	Cu%	Pb%	Zn%	Au g/t	Ag g/t	Zn Eq. %
TH825	16.00	16.81	0.81	0.0	0.0	0.3	0.0	3	0.5
TH825	16.81	17.62	0.81	0.0	0.0	0.1	0.0	3	0.2
TH825	17.62	18.05	0.43	0.0	0.0	0.2	0.0	3	0.3
TH825	18.05	19.04	0.99	0.1	0.0	0.2	0.0	7	0.7
TH825	19.04	19.56	0.52	0.0	0.0	0.5	0.0	3	0.7
TH825	19.56	20.00	0.44	0.1	0.1	0.1	0.0	3	0.5
TH825	20.00	20.71	0.71	0.3	1.2	1.4	0.1	17	4.0
TH825	20.71	21.49	0.78	0.7	4.4	10.9	0.2	47	18.6
TH825	21.49	22.38	0.89	1.0	3.9	14.8	0.3	62	23.3
TH825	22.38	23.30	0.92	0.1	0.3	0.8	0.1	3	1.5
TH825	23.30	24.38	1.08	0.0	0.0	0.1	0.0	3	0.3
TH825	24.38	24.95	0.57	0.0	0.0	0.2	0.0	3	0.3
TH825	24.95	25.80	0.85	0.0	0.0	0.1	0.0	3	0.1
TH825	25.80	26.67	0.87	0.0	0.0	0.1	0.0	3	0.1
TH827	18.00	18.84	0.84	2.2	11.4	4.0	0.9	99	24.4
TH828	23.45	24.46	1.01	0.0	0.2	0.2	0.0	2.5	0.6
TH828	24.46	25.50	1.04	0.1	0.4	0.5	0.1	9	1.3
TH828	25.50	26.53	1.03	0.0	0.2	0.3	0.1	2.5	0.7
TH828	26.53	27.55	1.02	0.1	0.1	0.3	0.0	2.5	0.8
TH828	27.55	28.08	0.53	0.1	1.8	1.8	0.1	80	5.8
TH828	28.08	28.55	0.47	0.6	2.5	4.4	0.1	105	11.4
TH828	28.55	29.40	0.85	1.2	3.5	6.9	0.3	125	17.4
TH828	29.40	30.25	0.85	0.4	2.2	6.4	0.4	85	12.1
TH828	30.25	30.75	0.5	0.5	5.8	12.5	0.2	127	22.6
TH828	30.75	31.40	0.65	0.2	1.2	2.8	0.1	30	5.2
TH828	31.40	31.95	0.55	1.2	9.4	15.1	0.4	166	32.0
TH828	31.95	32.99	1.04	0.1	1.1	2.5	0.1	30	4.6
TH828	32.99	34.00	1.01	0.0	0.7	0.2	0.1	27	1.6
TH829	20.91	21.56	0.65	0.0	0.3	0.9	0.0	6	1.5
TH829	21.56	22.09	0.53	0.1	0.6	0.5	0.1	3	1.4
TH829	22.09	23.03	0.94	0.4	6.2	9.8	0.6	50	18.1
TH829	23.03	23.95	0.92	1.0	7.1	11.9	0.4	76	23.7
TH829	23.95	24.87	0.92	0.9	2.9	5.4	0.7	51	12.4
TH829	24.87	25.37	0.50	1.1	8.5	15.4	0.4	102	29.4
TH829	25.37	26.35	0.98	0.2	0.7	1.3	0.1	9	3.0
TH829	26.35	27.27	0.92	0.3	2.4	4.9	0.2	22	8.7
TH829	27.27	28.26	0.99	0.4	6.9	10.7	0.1	64	20.0
TH829	28.26	28.80	0.54	0.0	0.2	0.4	0.0	3	0.7

(1) Down hole width

Geotechnical Drill holes Assay Results (continued)

Hole ID	From (m)	To (m)	Int (m)[1]	Cu%	Pb%	Zn%	Au g/t	Ag g/t	Zn Eq. %
TH830	13.30	14.00	0.70	0.0	0.1	0.2	0.0	3	0.3
TH830	14.00	14.54	0.54	0.0	0.5	0.6	0.0	9	1.4
TH830	14.54	15.50	0.96	0.0	0.3	0.6	0.1	8	1.2
TH830	15.50	16.48	0.98	0.0	0.1	0.5	0.0	3	0.7
TH830	16.48	17.03	0.55	0.0	0.0	0.7	0.0	3	0.8
TH830	17.03	17.75	0.72	0.1	0.6	0.7	0.1	10	1.9
TH830	17.75	18.53	0.78	0.8	7.5	10.7	0.5	59	21.7
TH830	18.53	19.08	0.55	0.2	1.5	1.9	0.1	24	4.6
TH830	19.08	20.05	0.97	0.2	0.8	1.5	0.1	15	3.4
TH830	20.05	21.00	0.95	1.0	10.2	20.7	1.4	186	38.4
TH830	21.00	21.50	0.50	0.4	1.0	1.7	0.1	20	4.6
TH830	21.50	22.25	0.75	0.1	0.3	0.6	0.1	6	1.3
TH830	22.25	23.20	0.95	0.1	0.5	0.7	0.1	11	1.7
TH830	23.20	23.71	0.51	0.1	0.7	0.4	0.0	16	1.9
TH831	2.60	3.20	0.60	0.1	0.7	0.2	0.1	6	1.3
TH831	3.20	3.80	0.60	0.1	0.3	0.3	0.0	3	0.8
TH831	4.20	4.70	0.50	0.1	0.4	0.2	0.0	47	2.0
TH831	4.70	5.30	0.60	0.1	0.2	0.1	0.0	3	0.7
TH831	5.30	5.80	0.50	0.4	0.8	0.1	0.2	145	6.0
TH831	5.90	6.43	0.53	0.3	6.3	0.1	0.4	250	13.3
TH831	6.43	7.30	0.87	0.2	0.7	0.2	0.2	81	3.5
TH831	7.30	8.17	0.87	0.1	0.3	0.1	0.0	7	0.9
TH831	8.17	8.97	0.80	0.0	0.2	0.0	0.0	3	0.4
TH831	10.40	11.00	0.60	0.0	0.0	0.4	0.0	3	0.5
TH831	11.00	11.95	0.95	0.0	0.0	0.3	0.0	3	0.4
TH831	11.95	12.73	0.78	0.0	0.0	0.1	0.0	11	0.4
TH831	12.73	13.70	0.97	1.8	0.3	1.1	0.8	20	8.3
TH831	13.70	14.60	0.90	0.0	0.0	0.1	0.0	9	0.3
TH831	14.60	15.50	0.90	0.0	0.0	0.1	0.0	3	0.2
TH832	13.02	14.00	0.98	0.1	0.9	0.3	0.5	104	4.3
TH832	14.00	14.64	0.64	0.2	1.1	0.3	0.2	151	5.8
TH832	14.64	15.38	0.74	0.2	3.3	0.7	0.6	174	9.0
TH832	15.38	16.18	0.80	0.7	1.1	4.2	0.2	62	9.0
TH832	16.18	17.02	0.84	0.0	0.1	0.5	0.1	17	1.1
TH832	17.02	17.63	0.61	0.0	0.1	0.3	0.1	18	0.9
TH832	17.63	18.34	0.71	0.0	0.1	0.4	0.1	36	1.5
TH832	18.34	19.27	0.93	0.0	0.1	0.2	0.0	23	0.9
TH832	19.27	20.20	0.93	0.0	0.1	0.3	0.0	27	1.2

(1) Down hole width

Geotechnical Drill hole Assay Results (continued)

Hole ID	From (m)	To (m)	Int (m)[1]	Cu%	Pb%	Zn%	Au g/t	Ag g/t	Zn Eq. %
TH833	15.23	16.19	0.96	0.0	0.0	0.1	0.0	3	0.1
TH833	16.19	17.30	1.11	0.0	0.0	0.1	0.0	3	0.2
TH833	17.30	18.29	0.99	0.1	0.3	0.2	0.2	45	2.0
TH833	18.29	19.10	0.81	0.4	4.6	7.0	1.7	908	36.0
TH833	19.10	19.75	0.65	0.0	0.0	0.1	0.2	15	0.6
TH833	19.75	20.25	0.50	0.0	0.0	0.1	0.0	3	0.2
TH833	20.25	21.08	0.83	0.0	0.0	0.3	0.0	6	0.4
TH833	21.08	21.86	0.78	0.0	0.0	0.3	0.0	7	0.5
TH833	21.86	22.58	0.72	0.0	0.0	0.3	0.2	30	1.1
TH833	22.58	23.30	0.72	0.0	0.0	0.2	0.4	46	1.5
TH833	23.30	24.20	0.90	0.0	0.0	0.1	0.1	17	0.7
TH834	14.00	14.85	0.85	0.0	0.0	0.0	0.0	2.5	0.1
TH834	14.85	15.90	1.05	0.0	0.0	0.0	0.0	2.5	0.1
TH834	15.90	17.12	1.22	0.0	0.0	0.1	0.0	2.5	0.1
TH834	17.12	17.95	0.83	0.3	4.9	7.8	2.8	322	22.6
TH834	17.95	18.55	0.60	0.0	0.0	0.1	0.0	2.5	0.2
TH834	18.55	19.50	0.95	0.0	0.1	0.4	0.0	2.5	0.5
TH834	19.50	20.02	0.52	0.0	0.0	0.5	0.1	10	0.8
TH834	20.02	21.00	0.98	0.0	0.1	0.2	0.1	14	0.7
(1) Down hole width									

Table 6 UG Resource Definition & Extension Drilling Assay Results

Hole ID	From (m)	To (m)	Int (m)[1]	Cu%	Pb%	Zn%	Au g/t	Ag g/t	Zn Eq. %
W45UG001	63.00	64.00	1.00	0.0	0.1	0.2	0.0	3	0.4
W45UG001	64.00	65.00	1.00	0.0	0.1	0.1	0.0	3	0.3
W45UG001	65.00	65.50	0.50	0.0	0.1	0.3	0.1	3	0.6
W45UG001	65.50	66.00	0.50	0.1	1.9	3.1	1.1	27	6.6
W45UG001	66.00	67.00	1.00	0.4	4.0	6.5	0.9	64	13.4
W45UG001	67.00	67.80	0.80	0.2	2.3	3.5	0.9	48	7.8
W45UG001	67.80	68.40	0.60	0.1	1.0	2.0	0.3	27	3.9
W45UG001	68.40	69.00	0.60	0.0	0.1	0.1	0.0	3	0.3
W45UG001	69.00	69.97	0.97	0.0	0.1	0.1	0.0	3	0.2
W45UG001	69.97	70.50	0.53	0.0	0.1	0.1	0.1	3	0.2
W45UG001	70.50	71.00	0.50	0.0	0.1	0.1	0.0	6	0.4
W45UG001	71.00	71.50	0.50	0.0	0.7	1.3	0.1	11	2.2
W45UG001	71.50	72.30	0.80	0.0	0.8	1.4	0.0	12	2.5
W45UG001	72.30	72.96	0.66	0.0	0.2	0.3	0.0	3	0.6
W45UG001	72.96	73.50	0.54	0.1	1.0	0.5	0.0	12	1.9
W45UG001	73.50	74.30	0.80	0.0	0.3	0.6	0.0	3	1.0
W45UG001	74.30	75.00	0.70	0.0	0.5	1.5	0.0	5	2.1
W45UG001	75.00	76.00	1.00	0.0	0.4	1.2	0.1	5	1.7
W45UG001	76.00	76.50	0.50	0.0	0.3	0.7	0.1	5	1.1
W45UG001	76.50	77.20	0.70	0.0	0.2	1.2	0.1	8	1.7
W45UG001	77.20	78.02	0.82	0.0	0.8	4.0	0.1	9	5.2
W45UG001	78.02	78.50	0.48	0.1	4.4	8.2	0.1	20	13.1
W45UG001	78.50	79.00	0.50	0.0	1.2	1.8	0.1	3	3.1
W45UG001	79.00	79.50	0.50	0.1	3.7	4.5	0.1	15	8.5
W45UG001	79.50	80.00	0.50	0.4	2.5	6.0	1.7	12	10.7
W45UG001	80.00	81.00	1.00	0.0	0.4	0.7	0.1	7	1.4
W45UG001	81.00	81.60	0.60	0.3	1.3	2.2	0.1	18	4.9
W45UG001	81.60	82.10	0.50	0.4	4.9	7.3	0.1	50	14.3
W45UG001	82.10	82.88	0.78	0.4	1.7	5.5	0.2	29	9.3
W45UG001	82.88	83.60	0.72	0.0	0.4	0.7	0.0	3	1.2
W45UG001	83.60	84.50	0.90	0.3	6.2	9.3	0.5	55	17.6
W45UG001	84.50	85.00	0.50	0.0	14.1	11.0	0.2	105	26.6
W45UG001	85.00	86.00	1.00	0.1	1.6	2.6	0.1	20	4.7
W45UG001	86.00	86.90	0.90	0.1	1.1	1.1	0.1	11	2.6
W45UG001	86.90	87.40	0.50	0.2	2.8	0.5	0.2	28	4.4
W45UG001	87.40	88.00	0.60	0.1	0.4	0.0	0.1	6	0.9
W45UG001	88.00	89.00	1.00	0.0	0.4	0.0	0.1	10	0.8
W45UG001	89.00	90.00	1.00	0.2	1.4	0.1	0.5	71	4.0
W45UG001	90.00	90.50	0.50	0.1	0.6	0.0	0.4	31	1.9
W45UG001	90.50	91.00	0.50	0.1	3.1	0.0	2.5	128	7.7
W45UG001	91.00	92.00	1.00	0.0	0.8	0.0	0.7	31	1.9
W45UG001	92.00	92.50	0.50	0.1	1.1	0.0	0.9	79	3.7
W45UG001	92.50	93.10	0.60	0.0	1.4	0.0	0.9	83	3.9
W45UG001	93.10	93.90	0.80	0.0	0.3	0.0	0.1	19	0.9
W45UG001	93.90	94.55	0.65	0.1	0.3	0.1	0.2	52	1.9
W45UG001	94.55	95.05	0.50	0.0	0.2	0.1	0.1	25	1.0

(1) Down hole width

UG Resource Definition & Extension Drilling Assay Results (continued)

Hole ID	From (m)	To (m)	Int (m)[(1)]	Cu%	Pb%	Zn%	Au g/t	Ag g/t	Zn Eq. %
W45UG002	65.50	66.04	0.54	0.1	0.0	0.5	0.0	3	0.8
W45UG002	66.04	66.94	0.90	0.0	0.0	0.0	0.0	3	0.1
W45UG002	66.94	67.72	0.78	0.0	0.0	0.1	0.0	3	0.2
W45UG002	67.72	68.65	0.93	0.0	0.0	0.0	0.0	3	0.1
W45UG002	68.65	69.57	0.92	0.0	0.0	0.0	0.0	3	0.1
W45UG002	69.57	70.14	0.57	0.1	0.3	1.3	0.1	14	2.2
W45UG002	70.14	71.00	0.86	1.2	0.5	2.8	0.6	28	8.1
W45UG002	71.00	71.81	0.81	0.2	0.5	9.4	0.2	13	10.8
W45UG002	71.81	72.76	0.95	0.1	1.9	3.1	0.1	21	5.7
W45UG002	72.76	73.74	0.98	0.1	1.2	1.4	0.1	12	3.0
W45UG002	73.74	74.30	0.56	0.0	0.3	0.7	0.0	6	1.3
W45UG002	74.30	75.00	0.70	0.0	0.0	0.1	0.0	3	0.2
W45UG002	75.00	75.80	0.80	0.0	0.0	0.0	0.0	3	0.1
W45UG002	75.80	76.62	0.82	0.0	0.0	0.0	0.0	3	0.1
W45UG002	76.62	77.40	0.78	0.0	0.0	0.1	0.0	3	0.1
W45UG002	77.40	78.91	1.51	0.0	0.0	0.1	0.0	3	0.1
W45UG003	72.12	72.96	0.84	0.3	0.1	1.6	0.1	15	3.1
W45UG003	72.96	73.58	0.62	0.4	0.1	0.4	0.1	19	2.3
W45UG003	73.58	74.50	0.92	0.3	0.1	0.1	0.0	9	1.3
W45UG003	74.50	75.40	0.90	0.0	0.2	0.5	0.0	3	0.9
W45UG003	75.40	76.29	0.89	0.3	0.1	0.5	0.1	3	1.5
W45UG003	76.29	77.30	1.01	0.1	0.9	1.3	0.0	8	2.6
W45UG003	77.30	78.30	1.00	0.2	0.3	0.6	0.1	7	1.9
W45UG003	78.30	79.32	1.02	0.2	0.2	3.2	0.0	10	4.3
W45UG003	79.32	80.34	1.02	0.2	1.0	4.1	0.1	12	6.0
W45UG003	80.34	81.11	0.77	0.1	0.3	2.3	0.0	3	3.2
W45UG003	81.11	82.00	0.89	0.1	0.1	2.0	0.0	3	2.4
W45UG003	82.00	82.81	0.81	0.2	0.1	1.2	0.0	3	2.0
W45UG003	82.81	83.75	0.94	0.1	1.7	2.6	0.0	15	5.0
W45UG003	83.75	84.36	0.61	0.4	0.7	3.0	0.1	22	5.5
W45UG003	84.36	85.00	0.64	0.1	0.0	0.1	0.0	3	0.4
W45UG003	85.00	85.69	0.69	0.3	0.0	0.0	0.0	3	1.1
W45UG003	85.69	86.55	0.86	1.7	0.4	2.0	0.1	19	8.4
W45UG003	86.55	87.05	0.50	0.3	0.1	0.9	0.0	3	2.0
W45UG003	87.05	87.98	0.93	0.2	0.1	0.2	0.1	3	1.1
W45UG003	87.98	88.82	0.84	0.1	0.4	1.0	0.0	7	1.7
W45UG003	88.82	89.70	0.88	0.2	0.0	0.1	0.0	3	0.8
W45UG003	89.70	90.68	0.98	0.4	0.5	1.9	0.1	15	3.9
W45UG003	90.68	91.20	0.52	0.2	2.1	9.7	0.1	11	12.4
W45UG003	91.20	91.85	0.65	0.0	1.0	4.5	0.1	7	5.7
W45UG003	91.85	92.49	0.64	0.0	0.1	2.3	0.0	3	2.6
W45UG003	92.49	93.41	0.92	1.1	0.0	0.4	0.1	3	4.1
W45UG003	93.41	94.00	0.59	0.1	0.0	3.4	0.0	3	3.7
W45UG003	94.00	94.64	0.64	0.0	0.2	1.5	0.1	6	1.9
W45UG003	94.64	95.34	0.70	0.4	0.1	4.5	0.0	3	5.9

(1) Down hole width

UG Resource Definition & Extension Drilling Assay Results (continued)

Hole ID	From (m)	To (m)	Int (m)[1]	Cu%	Pb%	Zn%	Au g/t	Ag g/t	Zn Eq. %
W45UG005	67.00	68.00	1.00	0.0	0.0	0.0	0.0	3	0.1
W45UG005	68.00	68.80	0.80	0.0	0.0	0.0	0.0	3	0.1
W45UG005	68.80	69.70	0.90	0.0	0.0	0.0	0.8	22	0.1
W45UG005	69.70	70.50	0.80	1.7	0.3	1.0	0.0	3	7.9
W45UG005	70.50	71.00	0.50	0.0	0.1	0.3	0.0	3	0.5
W45UG005	73.00	73.90	0.90	0.0	0.0	0.1	0.0	3	0.2
W45UG005	73.90	74.40	0.50	0.0	0.0	0.0	0.0	3	0.1
W45UG005	74.40	74.90	0.50	0.0	0.0	0.0	0.0	3	0.1
W45UG005	74.90	75.60	0.70	0.0	0.0	0.2	0.0	3	0.3
W45UG005	75.60	76.20	0.60	0.1	0.1	1.4	0.0	3	1.9
W45UG005	76.20	77.00	0.80	0.6	0.1	1.0	0.0	5	3.0
W45UG005	77.00	77.60	0.60	0.1	1.7	2.3	0.1	48	5.2
W45UG005	77.60	78.10	0.50	0.1	0.5	1.7	0.1	14	2.9
W45UG005	78.10	78.90	0.80	0.5	0.2	0.3	0.0	9	2.3
W45UG005	78.90	79.50	0.60	0.8	0.7	4.7	0.1	17	8.5
W45UG005	79.50	80.00	0.50	0.7	0.1	0.6	0.0	3	3.0
W45UG005	80.00	81.00	1.00	0.0	0.0	0.0	0.0	3	0.1
W45UG005	81.00	82.00	1.00	0.0	0.0	0.1	0.0	3	0.2
W45UG005	82.00	83.00	1.00	0.0	0.0	0.1	0.0	3	0.2
W45UG005	90.00	90.70	0.70	0.0	0.1	0.0	0.0	3	0.2
W45UG005	90.70	91.20	0.50	0.0	0.0	0.1	0.0	3	0.1
W45UG005	91.20	92.00	0.80	0.0	0.2	4.5	0.0	3	4.9
W45UG005	92.00	93.00	1.00	0.0	1.7	7.7	0.0	12	9.6
W45UG005	93.00	93.80	0.80	0.2	0.3	1.5	0.1	8	2.8
W45UG005	93.80	94.30	0.50	0.5	0.1	0.3	0.1	10	2.4
W45UG005	94.30	95.00	0.70	0.2	0.1	0.2	0.0	7	1.0
W45UG005	95.00	96.00	1.00	0.0	0.0	0.0	0.0	3	0.2
W45UG005	108.00	109.00	1.00	0.0	0.0	0.0	0.0	3	0.1
W45UG005	109.00	110.00	1.00	0.0	0.0	0.3	0.0	3	0.5
W45UG005	110.00	111.00	1.00	0.1	0.0	1.1	0.0	3	1.5
W45UG005	111.00	112.00	1.00	0.2	1.2	3.0	0.1	14	5.3
W45UG005	112.00	113.00	1.00	0.3	0.9	3.4	0.1	14	5.5
W45UG005	113.00	114.00	1.00	0.0	0.0	0.2	0.0	3	0.3
W45UG005	114.00	115.00	1.00	0.0	0.0	0.5	0.0	3	0.6
W45UG005	115.00	116.00	1.00	0.0	0.0	0.8	0.0	3	1.0
W45UG005	116.00	117.00	1.00	0.1	0.0	1.1	0.0	3	1.4
W45UG005	117.00	118.00	1.00	0.0	0.0	0.6	0.0	3	0.8
W45UG005	118.00	119.00	1.00	0.1	0.0	2.0	0.0	3	2.4
W45UG005	119.00	120.00	1.00	0.1	0.2	1.0	0.0	3	1.5
W45UG005	120.00	121.00	1.00	0.1	0.7	1.0	0.0	3	2.0
W45UG005	121.00	122.00	1.00	0.0	0.2	0.2	0.0	3	0.5
W45UG011	78.00	78.55	0.55	0.0	0.0	1.0	0.0	1	1.1
W45UG011	78.55	79.00	0.45	0.1	0.0	1.2	0.0	2	1.6
W45UG011	79.00	80.00	1.00	1.4	0.2	1.6	0.2	12	6.6
W45UG011	80.00	80.80	0.80	0.3	0.3	2.3	0.0	7	3.9
W45UG011	80.80	82.00	1.20	0.2	0.1	1.7	0.0	3	2.4
W45UG011	82.00	83.00	1.00	0.1	0.1	0.7	0.0	2	1.1
W45UG011	83.00	84.00	1.00	0.1	0.0	0.5	0.0	2	0.9

(1) Down hole width

UG Resource Definition & Extension Drilling Assay Results (continued)

Hole ID	From (m)	To (m)	Int (m)[(1)]	Cu%	Pb%	Zn%	Au g/t	Ag g/t	Zn Eq. %
W45UG012	58.0	58.7	0.7	0.0	0.0	0.0	0.0	0	0.1
W45UG012	58.7	59.4	0.7	0.0	0.0	0.0	0.0	0	0.1
W45UG012	59.4	60.4	1.0	0.9	0.7	4.8	4.4	25	11.2
W45UG012	60.4	61.4	1.0	1.0	0.5	3.0	0.1	25	7.5
W45UG012	61.4	61.9	0.6	0.9	1.3	3.6	0.2	28	8.4
W45UG012	61.9	62.7	0.8	2.0	2.7	6.2	0.2	52	16.7
W45UG012	62.7	63.3	0.6	0.1	0.2	1.1	0.0	5	1.8
W45UG012	63.3	64.0	0.7	0.2	0.7	3.8	0.0	7	5.3
W45UG012	64.0	65.3	1.3	0.1	0.1	0.6	0.0	2	0.9
W45UG012	65.3	65.9	0.6	0.0	0.0	0.0	0.0	2	0.2
W45UG012	65.9	66.6	0.7	0.3	0.1	0.6	0.1	8	1.9
W45UG012	66.6	68.7	2.1	0.0	0.1	0.1	0.0	2	0.3
W45UG012	68.7	69.0	0.4	0.1	0.7	0.4	0.0	6	1.6
W45UG012	69.0	70.0	1.0	0.2	2.3	3.4	0.1	13	6.5
W45UG012	70.0	71.0	1.0	0.0	0.5	0.8	0.0	4	1.5
W45UG012	71.0	72.0	1.0	0.1	0.3	4.3	0.0	5	4.9
W45UG012	72.0	73.0	1.0	0.1	0.6	2.5	0.0	5	3.4
W45UG012	73.0	74.0	1.0	0.0	0.1	0.2	0.0	1	0.3
W45UG012	74.0	75.0	1.0	0.0	0.7	1.0	0.0	4	1.8
W45UG012	75.0	75.9	0.9	0.0	1.9	3.1	0.1	12	5.3
W45UG012	75.9	76.6	0.7	0.0	0.0	0.0	0.0	0	0.1
W45UG013	66.00	66.50	0.50	0.0	0.0	0.0	0.0	0	0.0
W45UG013	66.50	67.10	0.60	0.1	0.0	0.2	0.0	0	0.5
W45UG013	67.10	68.10	1.00	0.0	0.1	1.2	0.0	6	1.5
W45UG013	68.10	68.50	0.40	0.4	0.2	6.0	0.0	11	7.6
W45UG013	68.50	69.00	0.50	0.7	0.1	2.4	0.1	7	5.0
W45UG013	69.00	69.50	0.50	0.6	0.0	1.4	0.1	6	3.7
W45UG013	69.50	70.00	0.50	0.0	0.0	0.1	0.0	0	0.1
W45UG013	70.00	71.00	1.00	0.0	0.0	0.0	0.0	0	0.1
W45UG013	71.00	72.00	1.00	0.0	0.0	0.0	0.0	0	0.0
W45UG013	72.00	73.00	1.00	0.0	0.1	0.2	0.0	1	0.3
W45UG013	73.00	73.90	0.90	0.1	0.4	1.2	0.0	3	1.7
W45UG013	73.90	74.50	0.60	0.2	0.3	2.8	0.0	2	3.8
W45UG013	74.50	75.00	0.50	0.1	0.2	1.3	0.0	3	1.8
W45UG013	75.00	76.00	1.00	0.0	0.1	0.8	0.0	2	1.1
W45UG013	76.00	77.00	1.00	0.2	0.2	1.8	0.0	7	2.9
W45UG013	77.00	77.50	0.50	0.1	1.2	2.8	0.1	11	4.4
W45UG013	77.50	78.00	0.50	0.1	1.4	2.1	0.1	11	4.2
W45UG013	78.00	78.50	0.50	0.0	0.1	0.2	0.0	1	0.3
W45UG013	78.50	79.00	0.50	0.3	2.5	3.6	0.1	8	6.9
W45UG013	79.00	80.00	1.00	0.3	3.2	4.7	0.1	9	8.8
W45UG013	80.00	81.00	1.00	0.0	0.2	0.3	0.0	1	0.5
W45UG013	81.00	82.00	1.00	0.0	0.3	0.6	0.0	1	1.1

(1) Down hole width

UG Resource Definition & Extension Drilling Assay Results (continued)

Hole ID	From (m)	To (m)	Int (m)[(1)]	Cu%	Pb%	Zn%	Au g/t	Ag g/t	Zn Eq. %
W45UG016	57.50	58.30	0.80	0.0	0.0	0.0	0.0	1	0.0
W45UG016	58.30	59.10	0.80	0.0	0.0	0.3	0.0	4	0.5
W45UG016	59.10	59.80	0.70	0.0	0.0	0.1	0.0	1	0.2
W45UG016	59.80	60.00	0.20	0.7	6.0	10.6	0.1	34	19.2
W45UG016	60.00	61.00	1.00	1.2	1.2	6.0	0.1	15	11.5
W45UG016	61.00	62.00	1.00	0.2	1.1	2.4	0.0	7	4.1
W45UG016	62.00	62.50	0.50	0.1	1.6	3.7	0.0	8	5.7
W45UG016	62.50	63.20	0.70	0.1	1.1	2.3	0.0	4	3.7
W45UG016	63.20	64.00	0.80	0.3	0.8	2.2	0.0	5	4.1
W45UG016	64.00	64.50	0.50	0.2	0.9	1.6	0.0	5	3.1
W45UG016	64.50	65.30	0.80	0.1	0.2	0.6	0.0	3	1.0
W45UG016	65.30	66.30	1.00	0.2	2.1	3.4	0.2	10	6.3
W45UG016	66.30	66.90	0.60	0.7	1.8	4.7	0.1	14	9.0
W45UG016	66.90	67.50	0.60	0.1	3.4	4.2	0.0	6	7.7
W45UG016	67.50	68.00	0.50	0.0	0.9	1.2	0.0	2	2.1
W45UG016	68.00	69.00	1.00	0.2	2.4	3.3	0.0	4	6.1
W45UG016	69.00	70.00	1.00	0.0	1.8	2.5	0.0	5	4.3
W45UG016	70.00	71.00	1.00	0.1	2.9	3.4	0.0	3	6.3
W45UG016	71.00	72.00	1.00	0.0	0.2	0.3	0.0	1	0.5
W45UG016	72.00	73.00	1.00	0.0	1.2	1.8	0.0	4	3.1
W45UG016	73.00	73.50	0.50	0.0	1.0	1.4	0.0	3	2.5
W45UG017	60.50	61.20	0.70	0.0	0.0	0.0	0.0	1	0.1
W45UG017	61.20	62.00	0.80	0.0	0.0	0.0	0.0	0	0.0
W45UG017	62.00	63.00	1.00	0.4	0.1	1.5	0.0	4	2.9
W45UG017	63.00	63.50	0.50	0.4	1.6	7.9	0.1	30	11.6
W45UG017	63.50	64.00	0.50	0.0	0.3	3.5	0.0	5	4.0
W45UG017	64.00	65.00	1.00	0.2	0.6	3.4	0.0	10	4.8
W45UG017	65.00	66.00	1.00	0.1	0.2	0.9	0.0	10	1.8
W45UG017	66.00	67.00	1.00	0.1	0.1	0.8	0.0	6	1.5
W45UG017	67.00	68.00	1.00	0.1	0.0	0.1	0.0	3	0.4

(1) Down hole width

UG Resource Definition & Extension Drilling Assay Results (continued)

Hole ID	From (m)	To (m)	Int (m)[1]	Cu%	Pb%	Zn%	Au g/t	Ag g/t	Zn Eq. %
W45UG018	68.00	68.50	0.50	0.0	0.0	0.0	0.0	0	0.0
W45UG018	68.50	69.20	0.70	0.3	0.1	1.0	0.0	3	2.1
W45UG018	69.20	70.00	0.80	1.3	0.1	1.6	0.1	11	6.4
W45UG018	70.00	70.70	0.70	0.8	0.1	2.9	0.1	9	5.9
W45UG018	70.70	71.50	0.80	0.3	0.6	3.2	0.1	12	5.3
W45UG018	71.50	72.00	0.50	0.1	0.0	0.5	0.0	2	0.8
W45UG018	72.00	72.90	0.90	0.8	0.2	1.0	0.1	9	4.0
W45UG018	72.90	73.50	0.60	0.0	0.0	0.2	0.0	0	0.4
W45UG018	73.50	74.00	0.50	0.0	0.1	0.4	0.0	1	0.7
W45UG018	74.00	75.00	1.00	0.0	0.2	0.3	0.0	1	0.5
W45UG018	75.00	75.40	0.40	0.0	0.0	0.0	0.0	0	0.1
W45UG018	75.40	76.00	0.60	0.0	0.0	0.0	0.0	0	0.1
W45UG018	76.00	77.00	1.00	0.0	0.3	0.8	0.0	3	1.2
W45UG018	77.00	78.00	1.00	0.1	0.1	1.9	0.0	2	2.2
W45UG018	78.00	79.00	1.00	0.2	0.4	3.2	0.0	5	4.3
W45UG018	79.00	80.00	1.00	0.1	0.0	3.3	0.0	3	3.6
W45UG018	80.00	81.00	1.00	0.2	0.2	3.2	0.0	8	4.3
W45UG018	81.00	82.00	1.00	0.1	0.2	2.8	0.0	5	3.4
W45UG018	82.00	83.00	1.00	0.1	0.3	4.2	0.0	8	5.2
W45UG018	83.00	84.00	1.00	0.2	0.0	3.6	0.0	3	4.5
W45UG018	84.00	85.00	1.00	0.1	0.4	0.9	0.0	5	1.8
W45UG018	85.00	86.00	1.00	0.0	0.3	0.3	0.0	1	0.7
W45UG019	16.50	17.00	0.50	0.0	0.0	0.1	0.1	6	0.3
W45UG019	17.00	18.00	1.00	0.0	0.0	0.1	0.0	6	0.3
W45UG019	18.00	18.50	0.50	0.0	0.1	0.1	0.1	15	0.6
W45UG019	18.50	19.40	0.90	0.1	0.1	0.1	0.1	17	0.9
W45UG019	19.40	20.00	0.60	0.3	0.1	0.2	0.1	20	1.8
W45UG019	20.00	21.00	1.00	0.1	0.0	0.0	0.1	8	0.5
W45UG019	21.00	22.00	1.00	0.0	0.0	0.0	0.0	5	0.2
W45UG019	22.00	22.50	0.50	0.0	0.0	0.0	0.0	1	0.1
W45UG019	22.50	23.00	0.50	3.4	0.5	0.9	0.6	27	13.6
W45UG019	23.00	23.50	0.50	0.4	0.3	1.0	0.1	14	2.7
W45UG019	23.50	24.00	0.50	1.2	0.1	0.7	0.1	11	5.2
W45UG019	24.00	24.80	0.80	0.8	0.2	0.5	0.1	20	3.9
W45UG019	24.80	25.30	0.50	6.5	0.8	5.1	0.3	55	28.9
W45UG019	25.30	26.00	0.70	0.6	0.4	1.7	0.1	14	4.3
W45UG019	26.00	27.00	1.00	0.1	0.1	0.5	0.0	5	1.1
W45UG019	27.00	28.00	1.00	0.1	0.4	1.1	0.0	8	2.1
W45UG019	28.00	28.50	0.50	0.4	0.1	1.6	0.1	11	3.3
W45UG019	28.50	28.90	0.40	0.1	0.3	1.2	0.0	13	2.2

(1) Down hole width

UG Resource Definition & Extension Drilling Assay Results (continued)

Hole ID	From (m)	To (m)	Int (m)[(1)]	Cu%	Pb%	Zn%	Au g/t	Ag g/t	Zn Eq. %
W45UG020	12.00	13.00	1.00	0.0	0.0	0.3	0.02	1.5	0.3
W45UG020	13.00	14.00	1.00	0.0	0.1	0.7	0.1	7	1.1
W45UG020	14.00	14.70	0.70	0.1	0.4	3.8	0.2	29	5.3
W45UG020	14.70	15.10	0.40	0.7	1.6	11.2	0.4	88	17.2
W45UG020	15.10	15.90	0.80	0.4	0.3	0.5	0.2	17	2.5
W45UG020	15.90	16.30	0.40	0.0	0.3	1.4	0.1	19	2.3
W45UG020	16.30	17.00	0.70	0.0	0.0	0.1	0.0	1	0.1
W45UG020	17.00	18.00	1.00	0.0	0.0	0.1	0.0	3	0.3
W45UG020	18.00	18.70	0.70	0.1	0.0	0.0	0.0	2	0.4
W45UG020	18.70	19.00	0.30	0.6	0.0	0.1	0.2	9	2.6
W45UG020	19.00	20.00	1.00	0.1	0.4	1.8	0.1	13	2.8
W45UG020	20.00	21.00	1.00	0.3	1.0	4.0	0.2	25	6.7
W45UG020	21.00	22.00	1.00	0.5	1.4	4.3	0.2	21	7.7
W45UG020	22.00	22.40	0.40	0.1	0.0	0.2	0.0	1	0.5
W45UG020	22.40	22.90	0.50	0.5	1.4	6.0	0.1	33	9.7
W45UG020	22.90	23.50	0.60	0.3	0.2	1.1	0.1	12	2.6
W45UG020	23.50	24.00	0.50	1.6	0.7	1.1	0.2	45	8.2
W45UG020	24.00	25.00	1.00	5.0	1.3	2.1	0.2	78	21.7
W45UG020	25.00	25.70	0.70	0.9	0.8	1.9	0.1	57	7.1
W45UG020	25.70	26.30	0.60	0.0	0.0	0.1	0.0	2	0.2
W45UG020	26.30	27.00	0.70	0.0	0.1	0.6	0.0	6	1.0
W45UG020	27.00	28.00	1.00	0.1	0.1	0.4	0.0	6	0.9
W45UG021	15.00	15.50	0.50	0.0	0.0	0.0	0.0	0	0.1
W45UG021	22.00	23.00	1.00	0.0	0.1	0.2	0.0	0	0.3
W45UG021	23.00	24.00	1.00	0.3	0.6	2.2	0.1	13	4.1
W45UG021	24.00	25.00	1.00	0.1	0.8	1.3	0.0	4	2.3
W45UG021	25.00	26.00	1.00	0.1	2.0	3.1	0.0	8	5.6
W45UG021	26.00	27.00	1.00	0.1	0.8	1.3	0.0	7	2.5
W45UG021	27.00	28.00	1.00	0.0	0.0	0.2	0.0	4	0.4
W45UG021	28.00	29.00	1.00	0.1	0.1	0.7	0.0	8	1.3
W45UG021	29.00	29.70	0.70	0.1	0.1	0.7	0.0	11	1.3
W45UG021	29.70	30.60	0.90	0.0	0.8	1.1	0.0	7	2.1
W45UG021	30.60	31.00	0.40	0.0	0.6	0.8	0.0	3	1.4
W45UG021	31.00	32.00	1.00	0.0	1.3	1.4	0.0	3	2.7
W45UG021	32.00	33.00	1.00	0.1	1.0	1.6	0.0	4	3.1
W45UG021	33.00	34.00	1.00	0.0	1.0	1.2	0.0	2	2.3
W45UG021	34.00	34.70	0.70	0.0	1.3	2.4	0.0	5	3.9
W45UG021	34.70	35.20	0.50	0.0	1.6	2.1	0.0	3	3.7
W45UG021	35.20	35.80	0.60	0.0	0.0	0.1	0.0	0	0.1
W45UG021	35.80	36.50	0.70	0.0	0.1	0.1	0.0	0	0.1
W45UG021	36.50	37.00	0.50	0.0	0.0	0.1	0.0	0	0.1
W45UG021	37.00	38.00	1.00	0.0	0.1	0.1	0.0	0	0.2
W45UG021	38.00	38.40	0.40	0.0	0.5	0.8	0.0	1	1.3
W45UG021	38.40	39.00	0.60	0.1	2.6	4.3	0.1	5	7.3
W45UG021	39.00	40.00	1.00	0.1	1.3	2.4	0.1	3	4.0
W45UG021	40.00	41.00	1.00	0.0	0.3	0.6	0.0	1	0.9
W45UG021	41.00	41.40	0.40	0.0	0.2	0.4	0.0	0	0.6

(1) Down hole width

Table 8 Gold-Silver Dominant Mineralisation Assay Results

Hole ID	From (m)	To (m)	Int (m)[(1)]	Cu%	Pb%	Zn%	Au g/t	Ag g/t
TH800	243.00	244.00	1.00	0.0	0.0	0.1	0.0	5
TH800	244.00	244.70	0.70	0.0	0.0	0.1	0.6	63
TH800	244.70	245.70	1.00	0.0	0.0	0.1	0.7	199
TH800	245.70	246.40	0.70	0.0	0.1	0.2	1.6	658
TH800	246.40	247.10	0.70	0.0	0.0	0.1	1.0	153
TH800	247.10	248.00	0.90	0.0	0.0	0.1	0.0	6
TH808	111.00	111.75	0.75	0.0	0.0	0.0	0.0	11
TH808	111.75	112.08	0.33	0.0	0.3	0.0	0.5	178
TH808	112.08	113.00	0.92	0.0	0.0	0.1	0.1	52
TH808	113.00	113.90	0.90	0.0	0.1	0.4	1.8	292
TH808	113.90	114.22	0.32	0.5	0.6	0.1	120.8	11,256
TH808	114.22	115.00	0.78	0.0	0.0	0.0	0.1	22
TH808	115.00	116.00	1.00	0.0	0.0	0.0	0.7	30
TH808	116.00	116.44	0.44	0.0	0.0	0.0	0.4	25
TH808	116.44	116.87	0.43	0.0	0.8	1.3	0.4	80
TH808	116.87	117.40	0.53	0.0	0.7	1.3	0.2	62
TH808	117.40	117.92	0.52	0.0	1.2	1.7	0.3	153
TH808	117.92	119.00	1.08	0.0	0.2	0.3	0.1	18
TH808	119.00	119.72	0.72	0.0	0.0	0.1	0.1	8
TH808	119.72	120.00	0.28	0.0	0.2	2.0	0.4	75
TH808	120.00	121.00	1.00	0.0	0.0	0.2	0.1	6
TH827	18.84	19.63	0.79	0.2	0.8	0.5	0.2	117
TH827	19.63	20.40	0.77	0.0	0.5	0.6	1.4	354
TH827	20.40	21.25	0.85	0.0	0.5	0.8	0.2	284
TH827	21.25	21.76	0.51	0.1	0.5	1.1	5.2	3,935
TH827	21.76	22.50	0.74	0.0	0.4	0.5	0.2	350
TH827	22.50	23.01	0.51	0.0	0.2	0.3	0.3	251
TH827	23.01	24.00	0.99	0.0	0.1	0.2	0.4	260
TH827	24.00	25.00	1.00	0.1	0.0	0.1	0.1	34
TH827	25.00	25.58	0.58	0.0	0.0	0.2	0.0	36
TH827	25.58	26.17	0.59	0.0	0.1	0.3	0.1	175
TH827	26.17	27.10	0.93	0.0	0.1	0.3	0.4	165
TH827	27.10	28.05	0.95	0.0	0.2	0.2	0.2	186
TH827	28.05	29.00	0.95	0.0	0.1	0.2	0.1	28

(1) Down hole width

JORC Code, 2012 Edition – Table 1

Section 1 Sampling Techniques and Data

(Criteria in this section apply to all succeeding sections.)

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.* • *In cases where 'industry standard' work has been done this would be relatively simple (eg 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (eg submarine nodules) may warrant disclosure of detailed information.*	• Diamond drilling was used to obtain core samples • Samples consist of half NQ2 drill core except where quarter core has been noted • Sample intervals were selected by company geologists based on visual mineralisation • Intervals ranged from 0.5 to 1.45m based on geological boundaries • Samples were sawn if half using an onsite core saw and sent to Intertek Genalysis laboratories Townsville. • Samples were crushed to sub 6mm, split and pulverised to sub 75µm in order to produce a representative sub-sample for analysis. • Analysis consisted of a four acid digest and Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES) for the following elements; Ag, As, Ba, Bi, Ca, Cu, Fe, K, Mg, Mn, Na, Pb, S, Sb, Ti, Zn, & Zr. A selection of samples was also assayed for Au using a 30g Fire Assay technique
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).*	• Drilling techniques consist of; • HQ diamond core drilling into competent ground • NQ2 diamond core drilling for the remainder of the drill holes.
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.*	• Core is measured every meter with recovery and RQD taken over the meter interval • Sample recovery is measured and recorded by company trained geology technicians and geologists • Any issues with recovery is always checked against drillers run sheet. • Good ground conditions have been encountered to date
Logging	• *Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining*	• Holes are logged to a level of detail that will support mineral resource estimation. • Qualitative logging includes lithology, alteration, structures and textures

Criteria	JORC Code explanation	Commentary
	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.*	• Quantitative logging includes sulphide and gangue mineral percentages • All drill core was photographed • All drill holes have been logged in full
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.*	• Core was sawn and half core sent for analysis • Sample preparation is industry standard, occurring at an independent commercial laboratory • Samples were crushed to sub 6mm, split and pulverised to sub 75µm in order to produce a representative sub-sample for analysis • Laboratory certified standards were used in each sample batch • The sample sizes are considered to be appropriate to correctly represent the mineralisation style
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.*	• The assay methods employed are considered appropriate for near total digestion • Laboratory certified standards were used in each sample batch • Certified standards returned results within an acceptable range
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.*	• Laboratory results are reviewed by Company geologists and laboratory technicians
Location of data points	• *Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation.*	• Collars surveyed by a registered Company Surveyor • Down hole surveys conducted with magnetic multi-shot digital camera • Coordinate system used is MGA94 Zone 55 • Topographic control is based on a detailed 3D Digital

Criteria	JORC Code explanation	Commentary
	• *Specification of the grid system used.* • *Quality and adequacy of topographic control.*	Elevation Model
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.*	• The drilling has been designed on approximately 30m x 30m spacing • This data spacing and distribution is sufficient to establish a degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedures applied. • No sample compositing has been applied
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.*	• Drill holes are orientated perpendicular to the perceived strike of the host lithologies • Drill holes are drilled at a dip based on logistics and dip of anomaly to be tested • The orientation of the drilling is designed to not bias sampling • The orientation of the drill core is determined using a Digital Orientation Tool
Sample security	• *The measures taken to ensure sample security.*	• Samples have been overseen by company staff during transport from site to Intertek Genalysis laboratories, Townsville.
Audits or reviews	• *The results of any audits or reviews of sampling techniques and data.*	• No audits or reviews have been carried out at this point

Section 2 Reporting of Exploration Results

(Criteria listed in the preceding section also apply to this section.)

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 drilling was conducted on Mining Lease ML1531 • ML1531 is held by Cromarty Pty Ltd. (a wholly owned subsidiary of Red River Resources) and form part of Red River's Thalanga Zinc Project • No Native Title exists over ML1531 • The Mining Leases are in good standing
Exploration done by other parties	• *Acknowledgment and appraisal of exploration by other parties.*	• Historic Exploration was carried out by PanContinental Mining & RGC Exploration. This included drilling and geophysics
Geology	• *Deposit type, geological setting and style of mineralisation.*	• The exploration model is Volcanic Hosted Massive Sulphide (VHMS) base metal mineralisation • The regional geological setting is the Mt Windsor Volcanic Sub-province, consisting of Cambro-Ordovician marine volcanic and volcano-sedimentary sequences
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, including, easting and northing, elevation or RL, dip and azimuth, down hole length, interception depth and hole length.* • *If the exclusion of this information is justified the Competent Person should clearly explain why this is the case.*	• See Table 2,4 & 6 – Drill Hole Details • See Appendix 1 – Assay Details
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.*	• Interval length weighted assay results are reported Significant Intercepts are chosen based on the context of the results, for example significant intercepts relating to resource definition are generally > 5% Zn Equivalents. • Refer to Appendix for metal equivalent calculation methodology

Criteria	JORC Code explanation	Commentary
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').*	• The mineralisation is interpreted to be steeply dipping. Drill holes have been angled to intercept the mineralisation as close to perpendicular as possible. • Down hole intercepts are reported. True widths are likely to be 40-70% of the down hole 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 plans and sections.*	• Refer to plans and sections within report
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.*	• The accompanying document is considered to represent a balanced report
Other substantive exploration data	• *Other exploration data, if meaningful and material, should be reported.*	• All meaningful and material data is reported
Further work	• *The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling).*	• Further drilling is planned based on the results of this current program