



**MetalsGrove**  
MINING LIMITED

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**ASX Code**  
MGA

**Shares on Issue**  
52,710,000

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Managing Director and CEO

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## HIGH-GRADE ENRICHED RARE EARTH HORIZON EXTENDS-ARUNTA NT

### Highlights:

- **Phase two (P2) soil sampling at Plenty River confirms large footprint of rare earth mineralisation at Plenty River target within the Bruce Prospect in the Northern Territory.**
- **A total of 600 samples taken covering an area of 3km x 3.5km at Plenty River.**
- **Latest P2 soil sampling results have confirmed enriched rare earth horizon including:**
  - **Up to 1,130\*ppm TREO, 35% HREO/TREO, 30% MREO/TREO, 22% NdPr/TREO, 19% Y<sub>2</sub>O<sub>3</sub>/TREO.**
- **Plenty River maiden RC drilling programme delivered exceptional results including:**
  - **Up to 7,000ppm (0.70%) TREO 35% MREO/TREO, 28% NdPr/TREO and 36% Y<sub>2</sub>O<sub>3</sub>/TREO with multiple zones of mineralisation.**
- **Previously completed (Phase 1) soil sampling confirmed rare earth mineralisation at Plenty River including.**
  - **Up to 1,800ppm TREO, 38% HREO/TREO, 31% MREO/TREO, 23% NdPr/TREO, 23% Y<sub>2</sub>O<sub>3</sub>/TREO.**
- **Two high-grade rare-earth rich carbonatite outcrops and soil anomalies defined covering 3,000m x 300m at Plenty River (Refer Figure 2).**
- **Exceptionally high-grade carbonatite of 38% MREO/TREO, 58% HREO/TREO 28% NdPr/TREO and 36% Y<sub>2</sub>O<sub>3</sub>/TREO at Plenty River.**

Critical metals exploration and development company MetalsGrove Mining Limited (ASX: MGA), ("MetalsGrove" "MGA" or the "Company"), is pleased to advise that assays have been received from the Phase two ("P2") follow-up grid spaced soil sampling programme at the Bruce Rare Earth ("REE") Prospect.

The Bruce Prospect is located within the Company's Arunta Project, north of Alice Springs in the Northern Territory.

Assays from the P2 grid spaced soil sampling programme have returned several excellent outcomes, including the confirmation of **two 3,000m by 300m carbonatite REE anomalies** at the Plenty River target which sits within the Bruce Prospect. Assays results are shown in the Table 1 and 2.

#### Best soil sampling assays from the recent programme include:

**1,130ppm TREO, 35% HREO/TREO, 30% MREO/TREO, 22% NdPr/TREO, 19% Y<sub>2</sub>O<sub>3</sub>/TREO.**

As previously reported (see ASX announcement dated 14 August 2023), the Company's maiden RC drilling programme at Bruce confirmed high-grade REE carbonatite mineralisation. Highlights from this maiden drilling programme included carbonatite REE grades of up to 7,000 ppm (0.70%) TREO, 35% MREO/TREO, 28% NdPr/TREO and 36% Y<sub>2</sub>O<sub>3</sub>/TREO with multiple zones of mineralisation. Drilling has also highlighted exceptionally high-grade carbonatite of 38% MREO/TREO, 58% HREO/TREO 28% NdPr/TREO and 36% Y<sub>2</sub>O<sub>3</sub>/TREO.

\* Some numbers are rounded to the closest numbers.

**Commenting on the key outcomes from the latest sampling programme at Bruce, MetalsGrove's Managing Director, Sean Sivasamy said:** "MGA is very encouraged by these latest assays which further confirm the considerable REE potential within along our 9km mineralised trend at the Bruce Prospect."

In particular, the Plenty River target appears to be very interesting given we have identified two new anomalies each covering an area of 3,000m x 300m and surface samples have returned grades up to 1,130 TREO. These targets will be a priority focus for our next round of drilling at Bruce.

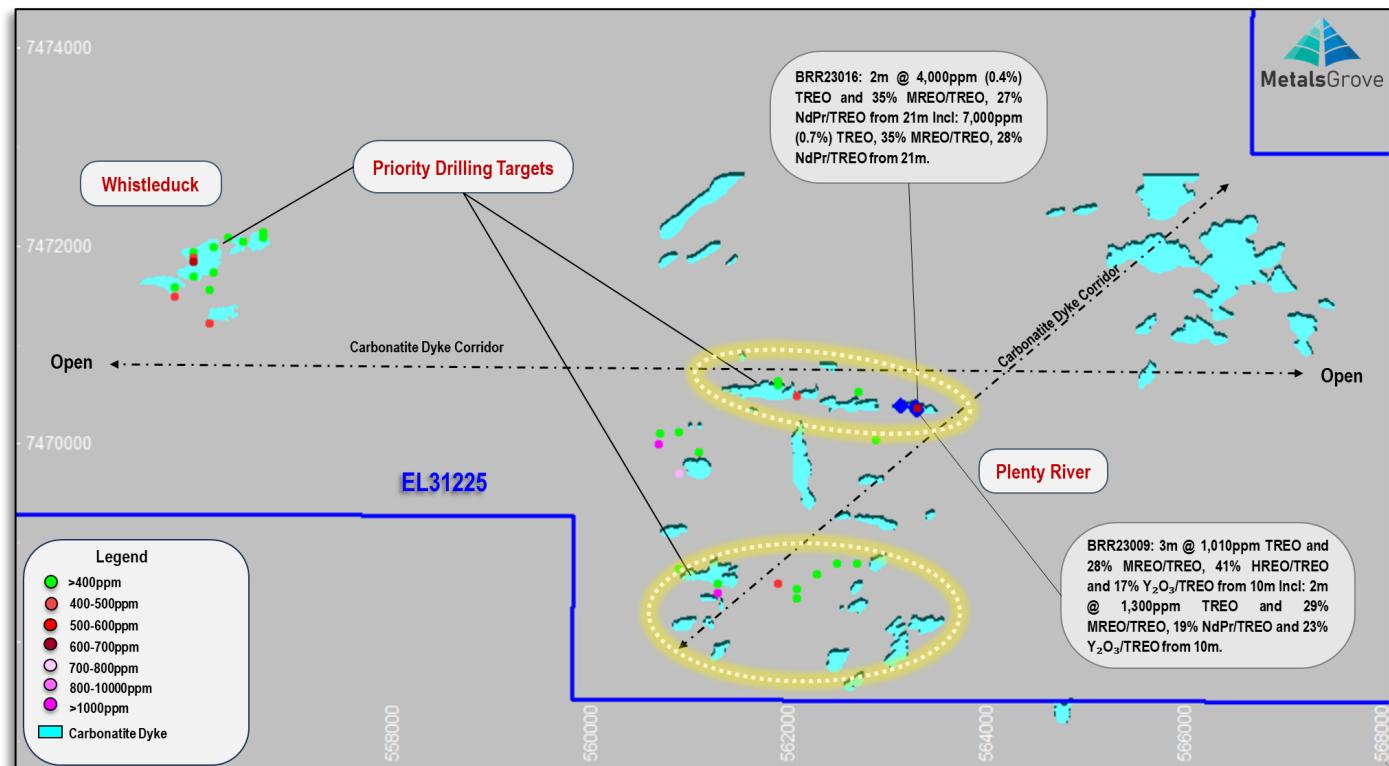
We are currently finalising our next suite of drilling targets ahead of the recommencement of drilling at Bruce which is scheduled immediately following the receipt of all necessary approvals. MGA has a busy pipeline of work planned for the coming months and I look forward to providing regular updates on progress."

## PHASE 2 SYSTEMATIC GRID SPACED SOIL SAMPLING – BACKGROUND

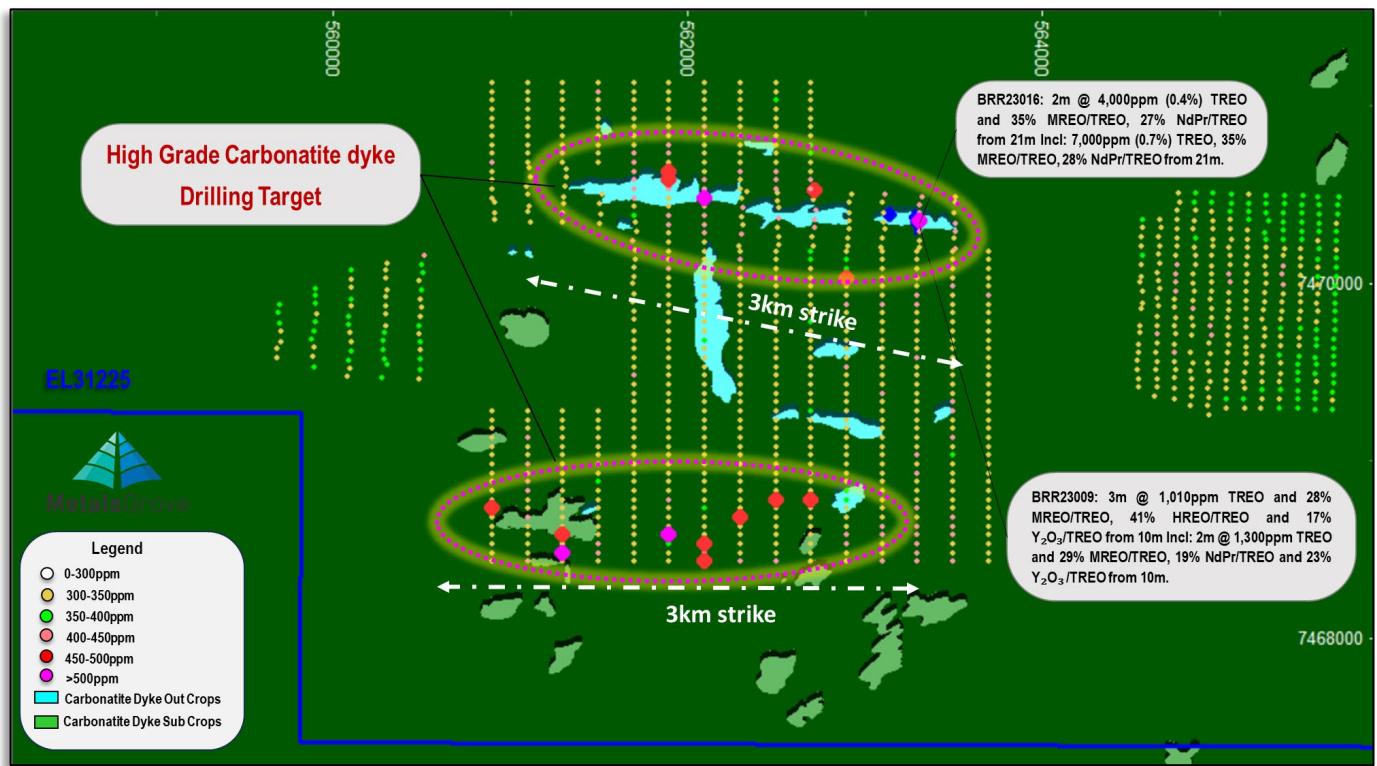
RC drilling and soil of carbonatite dyke outcrops at Bruce have confirmed large area of high-grade REE mineralisation.

The pegmatite and carbonatite dyke outcrops at Bruce are generally highly weathered. The Phase one (P1) soil sampling was completed on the high priority geophysical anomaly and carbonatite dyke outcrops. The Phase two (P2) grid spaced soil sampling was designed to test the remaining carbonatite dyke outcrops and geophysical anomalies along the 9km carbonatite corridor in order to define new targets for the upcoming Phase two drilling programme.

Final target generation work is now being completed by MGA's technical team ahead of the planned Phase two drilling at Bruce which is scheduled to commence following receipt of all necessary approvals.



**Figure 1: Bruce Carbonatite outcrops/subcrops and priority drilling target location plan.**



**Figure 2: Plenty River carbonatite and high-grade REE mineralisation extends over 3km by 3.5km**

### HIGH GRADE RARE-EARTH ELEMENTS ASSAY RESULTS FROM (P2) SOIL SAMPLES

Sample ID	TREO ppm	HREO/TREO	MREO/TREO	NdPr/TREO	Y <sub>2</sub> O <sub>3</sub> /TREO
PS148	<b>437</b>	18%	28%	21%	8%
PS156	228	24%	30%	21%	12%
PS172	182	26%	30%	21%	13%
PS173	194	25%	30%	21%	12%
PS209	<b>493</b>	17%	27%	21%	8%
PS245	<b>402</b>	17%	27%	20%	8%
PS283	<b>466</b>	15%	27%	21%	7%
PS322	<b>429</b>	16%	29%	21%	7%
PS324	<b>475</b>	15%	29%	21%	6%
PS357	<b>577</b>	17%	28%	20%	8%
PS436	<b>476</b>	17%	28%	21%	8%
PS438	<b>1,127</b>	14%	28%	21%	6%
PS479	<b>462</b>	18%	27%	20%	9%
PS486	244	33%	27%	18%	19%
PS493	183	35%	29%	18%	19%
PS494	198	34%	29%	18%	18%
PS499	242	30%	27%	18%	17%
PS501	195	33%	29%	19%	18%
PS504	257	30%	27%	18%	17%
PS505	209	32%	29%	19%	18%
PS506	216	34%	30%	19%	18%
PS507	211	33%	30%	19%	18%

PS513	234	30%	29%	19%	16%
PS520	221	29%	30%	20%	15%
PS529	236	32%	27%	18%	18%
PS538	<b>585</b>	20%	28%	21%	10%
PS553	246	28%	30%	20%	15%
PS554	<b>426</b>	19%	28%	21%	10%
PS555	<b>408</b>	19%	29%	22%	9%
PS602	239	27%	30%	20%	14%
PS640	<b>435</b>	15%	28%	21%	6%
PS641	<b>414</b>	15%	29%	22%	7%
PS656	<b>499</b>	16%	28%	21%	7%
PS671	<b>456</b>	15%	29%	22%	6%
PS676	<b>475</b>	14%	28%	21%	6%
PS704	<b>471</b>	14%	29%	22%	6%
PS705	<b>511</b>	13%	29%	22%	6%
PS706	<b>605</b>	13%	29%	22%	6%
PS709	<b>451</b>	15%	29%	22%	6%
PS713	<b>515</b>	12%	29%	22%	5%
PS744	<b>458</b>	15%	28%	22%	7%
PS858	<b>472</b>	13%	29%	22%	5%

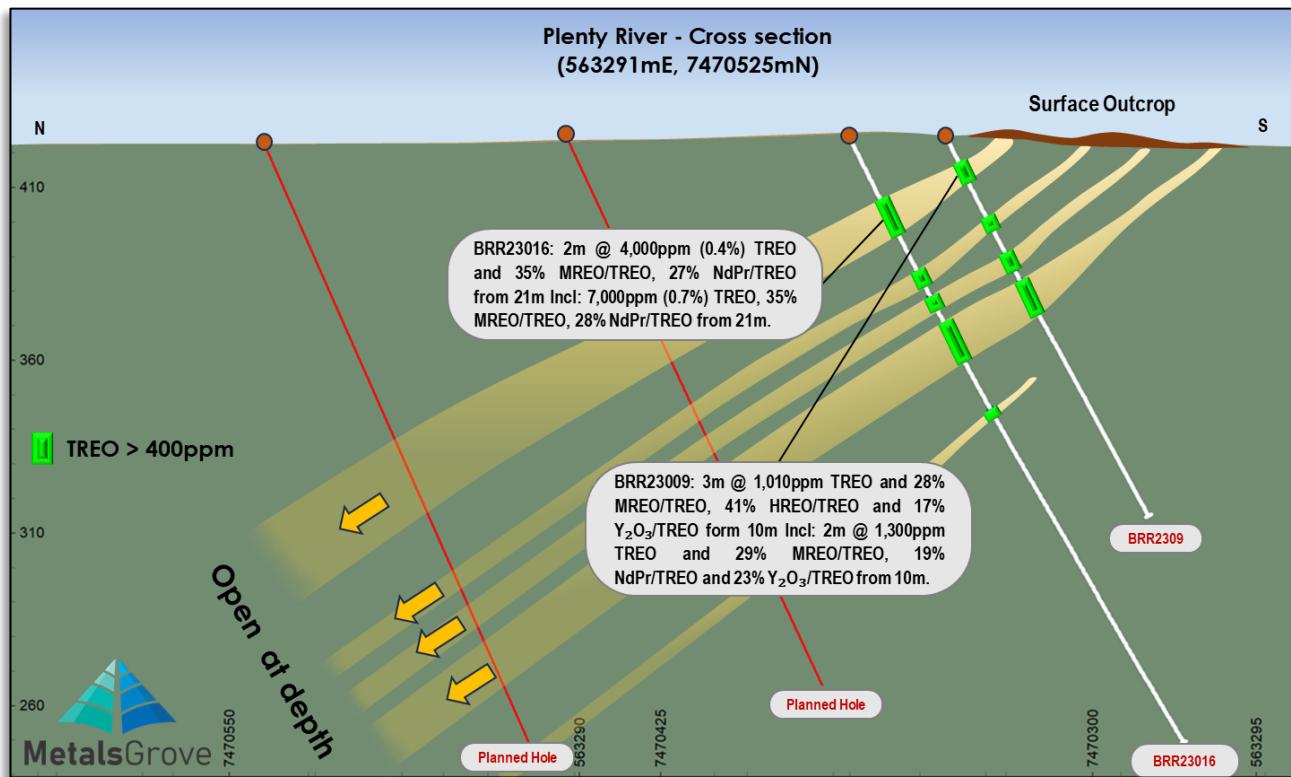
**Table 1: Bruce P2 Soil Sampling Significant Rare Earth (REE) Assay Result**

## DRILLING SUMMARY - MAIDEN RC PROGRAMME AT BRUCE

A total of 2,343m maiden RC drilling was completed at Bruce, assays from this programme have returned high-grade carbonatite REE grades of up to 7,000 ppm (0.70%) TREO, 35% MREO/TREO, 28% NdPr/TREO and 36% Y<sub>2</sub>O<sub>3</sub>/TREO with multiple zones of mineralisation, drilling has also highlighted exceptionally high-grade carbonatite of 38% MREO/TREO, 58% HREO/TREO 28% NdPr/TREO and 36% Y<sub>2</sub>O<sub>3</sub>/TREO.

The carbonatite dyke outcrops strike east-west by 9km and remain open, indicating strong potential for sufficient rare earth (REE) minerals resource tonnes (refer ASX release Date: 7<sup>th</sup> June 2023).

- **BRR23016:** 2m @ 4,000 ppm (0.4%) TREO and 35% MREO/TREO, 27% NdPr/TREO from 21m. Incl: 7,000 ppm (0.7%) TREO, 35% MREO/TREO, 28% NdPr/TREO from 21m.
- **BRR23009:** 3m @ 1,010 ppm TREO and 28% MREO/TREO, 41% HREO/TREO and 17% Y<sub>2</sub>O<sub>3</sub>/TREO from 10m. Incl: 2m @ 1,300 ppm TREO and 29% MREO/TREO, 19% NdPr/TREO and 23% Y<sub>2</sub>O<sub>3</sub>/TREO from 10m.
- **BRR23003:** 33m @ 13% MgO from 39m and 3m @ 535 ppm V<sub>2</sub>O<sub>5</sub> from 45m.
- **BRR23002:** 26m @ 17% MgO from 30m.
- **BRR23013:** 1m @ 7,785 ppm CuO (0.8% CuO) from 103m, 3m @ 1,000 ppm PbO<sub>2</sub> from 63m, 2m @ 1,170 ppm PbO<sub>2</sub> from 84m and 3m @ 1,245 ppm ZnO from 63m, 2m @ 1,710 ppm ZnO from 83m.



*Figure 3: Plenty River Carbonatite Rare Earth Mineralisation Section View.*

## Total Rare Earth Oxide Calculation

Total Rare Earths Oxides (TREO) is the sum of the oxides of the light rare earth elements lanthanum (La), cerium (Ce), praseodymium (Pr), neodymium (Nd), and samarium (Sm) and the heavy rare earth elements europium (Eu), gadolinium (Gd), terbium (Tb), dysprosium (Dy), holmium (Ho), erbium (Er), thulium (Tm), ytterbium (Yb), lutetium (Lu), and yttrium (Y).

*TREO is the sum of all the rare earth oxides.*

HREO is the sum of the oxides of the heavy rare earth elements: Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu and Y. The HREO are less common than the LREO and are generally of higher value.

LREO is the sum of the oxides of the light rare earth elements: La, Ce, Pr and Nd.

*MREO is a set of oxides that are referred to as the Magnetic Rare Earth Oxides. They are Nd, Pr, Dy, Tb, Gd, Ho and Sm. These are generally considered to be of higher value than the non-MREO.*

*NdPr* is neodymium and praseodymium.

*Note: there is no standard definition for these terms and companies may use slightly different groupings; for example some companies may put the LREO-HREO split after Sm instead of Nd.*

## Next steps

- Geological interpretation and technical review.
  - P2 follow-up drilling programme at Plenty River.

SAMPLEID	EAST	NORTH	TREO	LREO	HREO	MREO	NdPr	HREO/TREO	MREO/TREO	NdPr/TREO	Y <sub>2</sub> O <sub>3</sub> /TREO
			ppm	ppm	ppm	ppm	ppm	ratio	ratio	ratio	ratio
PS1	563700	7470176	228	184	51	63	46	22%	28%	20%	12%
PS2	563700	7470126	252	203	56	70	50	22%	28%	20%	11%
PS3	563700	7470076	260	214	54	72	52	21%	28%	20%	10%
PS4	563700	7470026	275	233	50	77	57	18%	28%	21%	9%
PS5	563700	7469976	292	250	49	82	61	17%	28%	21%	8%
PS6	563700	7469926	312	267	53	86	65	17%	28%	21%	8%
PS7	563700	7469876	286	241	53	80	59	18%	28%	21%	9%
PS8	563700	7469826	290	245	53	81	60	18%	28%	21%	9%
PS9	563700	7469776	248	203	52	69	50	21%	28%	20%	10%
PS10	563700	7469726	242	203	45	67	50	19%	28%	21%	9%
PS11	563700	7469676	228	190	44	64	47	19%	28%	20%	9%
PS12	563700	7469626	265	225	47	73	55	18%	28%	21%	9%
PS13	563700	7469576	275	232	51	77	57	18%	28%	21%	9%
PS14	563700	7469526	249	208	48	69	51	19%	28%	20%	9%
PS15	563700	7469476	269	224	52	75	55	19%	28%	21%	10%
PS16	563700	7469426	226	189	44	64	47	19%	28%	21%	9%
PS17	563700	7469376	230	185	52	66	47	22%	29%	20%	11%
PS18	563700	7469326	257	215	49	73	54	19%	28%	21%	9%
PS19	563700	7469276	250	209	49	70	52	19%	28%	21%	9%
PS20	563700	7469226	260	219	48	73	54	18%	28%	21%	9%
PS21	563700	7469176	232	192	46	65	48	20%	28%	21%	10%
PS22	563700	7469126	216	179	43	60	44	20%	28%	21%	10%
PS23	563700	7469076	229	190	45	64	47	20%	28%	21%	10%
PS24	563700	7469026	238	199	46	67	49	19%	28%	21%	9%
PS25	563700	7468976	257	215	49	72	53	19%	28%	21%	9%
PS26	563700	7468926	255	213	50	72	53	20%	28%	21%	10%

PS27	563700	7468876	234	194	47	65	48	20%	28%	20%	10%
PS28	563700	7468826	249	208	48	69	51	19%	28%	21%	9%
PS29	563700	7468776	242	201	48	68	50	20%	28%	20%	10%
PS30	563700	7468726	236	196	47	66	49	20%	28%	21%	10%
PS31	563700	7468676	249	205	51	69	51	20%	28%	20%	10%
PS32	563700	7468626	260	216	52	73	53	20%	28%	20%	10%
PS33	563700	7468576	228	191	44	63	47	19%	28%	20%	10%
PS34	563700	7468526	245	203	49	69	50	20%	28%	20%	10%
PS35	563700	7468476	211	174	42	59	43	20%	28%	21%	10%
PS36	563700	7468426	222	184	45	63	45	20%	28%	20%	10%
PS37	563500	7470176	260	210	57	71	51	22%	27%	20%	11%
PS38	563500	7470126	281	236	53	77	57	19%	28%	20%	9%
PS39	563500	7470076	286	236	58	79	58	20%	28%	20%	10%
PS40	563500	7470026	287	236	59	79	58	20%	28%	20%	10%
PS41	563500	7469976	304	250	62	83	61	20%	27%	20%	11%
PS42	563500	7469926	238	201	43	66	49	18%	28%	21%	9%
PS43	563500	7469876	267	220	54	73	54	20%	27%	20%	10%
PS44	563500	7469826	267	217	57	73	54	21%	27%	20%	12%
PS45	563500	7469776	256	205	58	71	51	23%	28%	20%	12%
PS46	563500	7469726	260	209	58	73	52	22%	28%	20%	11%
PS47	563500	7469676	243	196	54	67	48	22%	28%	20%	11%
PS48	563500	7469626	264	219	53	73	54	20%	28%	20%	10%
PS49	563500	7469576	290	244	54	80	60	19%	28%	21%	9%
PS50	563500	7469526	273	227	53	76	56	19%	28%	21%	10%
PS51	563500	7469476	269	223	53	74	54	20%	28%	20%	10%
PS52	563500	7469426	260	213	54	73	53	21%	28%	20%	10%
PS53	563500	7469376	280	232	56	77	57	20%	28%	20%	10%
PS54	563500	7469326	319	269	59	89	66	18%	28%	21%	9%
PS55	563500	7469276	322	276	55	90	68	17%	28%	21%	8%
PS56	563500	7469226	293	251	51	82	62	17%	28%	21%	8%

PS57	563500	7469176	277	231	54	78	57	20%	28%	21%	10%
PS58	563500	7469126	300	250	58	83	61	19%	28%	20%	10%
PS59	563500	7469076	246	202	50	68	49	20%	27%	20%	10%
PS61	563500	7468976	210	174	42	58	42	20%	28%	20%	10%
PS62	563500	7468926	280	231	57	78	57	20%	28%	20%	10%
PS63	563500	7468876	278	232	54	77	57	19%	28%	20%	10%
PS64	563500	7468826	214	174	46	59	43	22%	27%	20%	11%
PS65	563500	7468776	264	217	54	72	53	20%	27%	20%	11%
PS66	563500	7468726	289	239	57	80	59	20%	28%	20%	10%
PS67	563500	7468676	302	249	62	84	61	21%	28%	20%	10%
PS68	563500	7468626	316	260	65	87	64	20%	27%	20%	11%
PS69	563500	7468576	357	298	69	98	73	19%	27%	20%	10%
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PS72	563500	7468426	330	276	63	91	67	19%	28%	20%	10%
PS73	563300	7470176	291	238	61	79	58	21%	27%	20%	11%
PS74	563300	7470126	273	221	60	75	54	22%	28%	20%	11%
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PS76	563300	7470026	286	233	60	78	57	21%	27%	20%	11%
PS77	563300	7469976	291	237	62	79	58	21%	27%	20%	11%
PS78	563300	7469926	300	244	64	82	60	21%	27%	20%	11%
PS79	563300	7469876	318	257	70	87	63	22%	27%	20%	11%
PS80	563300	7469826	272	218	61	75	54	22%	28%	20%	12%
PS81	563300	7469776	278	229	57	76	56	20%	27%	20%	10%
PS82	563300	7469726	288	211	84	75	51	29%	26%	18%	17%
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PS84	563300	7469626	271	222	56	74	54	21%	27%	20%	11%
PS85	563300	7469576	325	270	64	89	66	20%	28%	20%	10%
PS86	563300	7469526	298	246	60	81	60	20%	27%	20%	10%
PS87	563300	7469476	291	242	57	80	59	20%	27%	20%	10%

PS88	563300	7469426	232	188	50	63	46	22%	27%	20%	11%
PS89	563300	7469376	296	242	62	82	59	21%	28%	20%	11%
PS90	563300	7469326	284	232	60	78	57	21%	27%	20%	11%
PS91	563300	7469276	262	215	54	71	52	20%	27%	20%	10%
PS92	563300	7469226	286	236	58	79	58	20%	28%	20%	10%
PS93	563300	7469176	297	244	61	80	59	21%	27%	20%	11%
PS94	563300	7469126	281	231	58	78	57	21%	28%	20%	10%
PS95	563300	7469076	268	220	55	74	54	21%	28%	20%	10%
PS96	563300	7469026	334	279	63	92	68	19%	28%	20%	9%
PS97	563300	7468976	290	240	59	80	58	20%	28%	20%	10%
PS98	563300	7468926	314	262	61	86	63	19%	27%	20%	10%
PS99	563300	7468876	273	223	57	75	54	21%	28%	20%	11%
PS100	563300	7468826	274	225	57	75	55	21%	27%	20%	10%
PS101	563300	7468776	285	235	58	79	57	20%	28%	20%	10%
PS102	563300	7468726	302	249	61	83	61	20%	28%	20%	10%
PS103	563300	7468676	295	245	58	81	60	20%	27%	20%	10%
PS104	563300	7468626	322	266	64	87	64	20%	27%	20%	10%
PS105	563300	7468576	337	280	66	91	67	19%	27%	20%	10%
PS106	563300	7468526	308	255	62	84	62	20%	27%	20%	10%
PS107	563300	7468476	304	252	61	83	61	20%	27%	20%	10%
PS108	563300	7468426	347	288	68	95	70	20%	27%	20%	10%
PS109	563100	7470176	266	216	57	74	53	22%	28%	20%	11%
PS110	563100	7470126	299	244	63	82	60	21%	28%	20%	11%
PS111	563100	7470076	247	199	55	68	49	22%	28%	20%	11%
PS112	563100	7470026	253	204	55	70	51	22%	28%	20%	11%
PS113	563100	7469976	279	221	65	78	56	23%	28%	20%	12%
PS114	563100	7469926	290	236	62	80	58	21%	27%	20%	11%
PS115	563100	7469876	339	274	74	93	67	22%	27%	20%	11%
PS116	563100	7469826	299	243	65	83	60	22%	28%	20%	11%
PS117	563100	7469776	293	238	63	81	59	21%	28%	20%	11%

PS118	563100	7469726	279	230	57	78	57	20%	28%	20%	10%
PS119	563100	7469676	292	236	63	81	59	22%	28%	20%	11%
PS120	563100	7469626	206	161	51	56	40	25%	27%	19%	13%
PS121	563100	7469576	255	203	59	71	51	23%	28%	20%	12%
PS122	563100	7469526	261	205	63	72	51	24%	27%	20%	13%
PS123	563100	7469476	298	243	63	82	60	21%	28%	20%	11%
PS124	563100	7469426	289	233	64	80	58	22%	28%	20%	11%
PS125	563100	7469376	327	272	63	90	67	19%	28%	20%	10%
PS126	563100	7469326	296	242	62	81	60	21%	28%	20%	11%
PS127	563100	7469276	279	227	60	78	56	21%	28%	20%	11%
PS128	563100	7469226	250	200	57	69	50	23%	28%	20%	12%
PS129	563100	7469176	288	233	63	80	58	22%	28%	20%	11%
PS130	563100	7469126	275	226	57	76	56	21%	28%	20%	10%
PS131	563100	7469076	282	228	61	78	57	22%	28%	20%	11%
PS132	563100	7469026	268	213	62	73	53	23%	27%	20%	12%
PS133	563100	7468976	267	217	57	74	54	21%	28%	20%	11%
PS134	563100	7468926	290	235	62	80	59	22%	28%	20%	11%
PS135	563100	7468876	266	216	58	74	54	22%	28%	20%	11%
PS136	563100	7468826	266	214	60	74	53	22%	28%	20%	11%
PS137	563100	7468776	282	230	60	78	57	21%	28%	20%	11%
PS138	563100	7468726	256	209	55	71	52	21%	28%	20%	11%
PS139	563100	7468676	296	234	70	81	58	24%	27%	20%	13%
PS140	563100	7468626	315	253	71	86	62	22%	27%	20%	12%
PS141	563100	7468576	333	273	69	91	67	21%	27%	20%	11%
PS142	563100	7468526	252	202	57	70	50	23%	28%	20%	12%
PS143	563100	7468476	299	240	67	83	60	22%	28%	20%	12%
PS144	563100	7468426	362	302	70	99	73	19%	27%	20%	10%
PS145	562900	7470176	252	207	53	70	51	21%	28%	20%	11%
PS148	562900	7470026	437	372	77	123	92	18%	28%	21%	8%
PS149	562900	7469976	286	235	58	79	58	20%	28%	20%	10%

PS150	562900	7469926	282	227	63	78	57	22%	27%	20%	12%
PS151	562900	7469876	309	252	66	85	63	21%	28%	20%	11%
PS152	562900	7469826	224	180	50	63	45	22%	28%	20%	12%
PS153	562900	7469776	260	207	60	73	52	23%	28%	20%	12%
PS154	562900	7469726	272	215	65	76	54	24%	28%	20%	13%
PS155	562900	7469676	215	170	51	62	44	24%	29%	21%	12%
PS156	562900	7469626	228	181	55	67	47	24%	30%	21%	12%
PS157	562900	7469576	261	204	64	72	51	24%	28%	20%	13%
PS158	562900	7469526	315	247	76	87	62	24%	28%	20%	13%
PS159	562900	7469476	280	226	62	79	57	22%	28%	20%	12%
PS160	562900	7469426	253	201	58	70	50	23%	28%	20%	12%
PS161	562900	7469376	272	222	57	76	55	21%	28%	20%	11%
PS162	562900	7469326	264	218	54	74	54	20%	28%	20%	10%
PS163	562900	7469276	214	171	48	60	43	23%	28%	20%	12%
PS164	562900	7469226	258	207	59	71	51	23%	28%	20%	12%
PS165	562900	7469176	273	224	56	75	55	21%	28%	20%	10%
PS166	562900	7469126	275	229	54	77	57	20%	28%	21%	9%
PS167	562900	7469076	238	194	51	67	48	21%	28%	20%	11%
PS168	562900	7469026	280	227	61	78	56	22%	28%	20%	11%
PS169	562900	7468976	283	230	61	80	57	21%	28%	20%	11%
PS170	562900	7468926	296	242	63	81	59	21%	27%	20%	11%
PS171	562900	7468876	265	213	61	74	53	23%	28%	20%	12%
PS174	562900	7468726	281	235	54	80	58	19%	28%	21%	9%
PS175	562900	7468676	204	162	48	56	40	24%	27%	20%	12%
PS176	562900	7468626	261	209	59	73	52	23%	28%	20%	12%
PS177	562900	7468576	304	243	69	85	61	23%	28%	20%	12%
PS178	562900	7468526	328	269	67	89	66	21%	27%	20%	11%
PS179	562900	7468476	280	234	54	79	58	19%	28%	21%	9%
PS180	562900	7468426	292	238	62	81	59	21%	28%	20%	11%
PS183	562700	7470076	256	196	67	69	48	26%	27%	19%	14%

PS184	562700	7470026	215	168	52	59	42	24%	27%	19%	13%
PS185	562700	7469976	209	159	55	57	40	26%	27%	19%	14%
PS186	562700	7469926	233	187	52	65	47	22%	28%	20%	12%
PS187	562700	7469876	231	183	55	64	45	24%	28%	20%	12%
PS188	562700	7469826	274	223	59	76	55	21%	28%	20%	11%
PS190	562700	7469726	256	208	54	71	51	21%	28%	20%	11%
PS191	562700	7469676	243	195	55	68	49	23%	28%	20%	12%
PS192	562700	7469626	214	164	56	61	42	26%	28%	20%	14%
PS193	562700	7469576	245	192	59	69	49	24%	28%	20%	13%
PS194	562700	7469526	232	183	56	65	45	24%	28%	20%	12%
PS195	562700	7469476	238	184	61	66	46	26%	28%	19%	14%
PS196	562700	7469426	202	160	48	56	40	24%	28%	20%	12%
PS197	562700	7469376	207	161	52	58	41	25%	28%	20%	13%
PS198	562700	7469326	238	190	55	66	47	23%	28%	20%	12%
PS200	562700	7469226	252	209	50	71	52	20%	28%	21%	10%
PS201	562700	7469176	254	211	51	71	52	20%	28%	20%	10%
PS202	562700	7469126	246	202	51	69	51	21%	28%	21%	10%
PS203	562700	7469076	273	226	55	76	56	20%	28%	20%	10%
PS204	562700	7469026	283	233	58	78	57	20%	28%	20%	10%
PS205	562700	7468976	211	169	48	58	42	23%	27%	20%	12%
PS206	562700	7468926	267	216	58	74	54	22%	28%	20%	11%
PS207	562700	7468876	270	222	55	75	55	21%	28%	20%	10%
PS208	562700	7468826	230	187	49	64	46	21%	28%	20%	11%
PS209	562700	7468776	493	421	86	135	102	17%	27%	21%	8%
PS210	562700	7468726	240	201	46	67	49	19%	28%	20%	9%
PS211	562700	7468676	236	193	50	66	48	21%	28%	20%	11%
PS212	562700	7468626	285	238	55	79	58	19%	28%	20%	9%
PS213	562700	7468576	280	233	54	77	57	19%	28%	20%	10%
PS214	562700	7468526	260	214	53	72	53	20%	28%	20%	10%
PS215	562700	7468476	275	226	57	75	55	21%	27%	20%	11%

PS216	562700	7468426	294	245	57	82	60	19%	28%	21%	10%
PS217	562500	7470176	224	182	48	62	45	22%	28%	20%	11%
PS218	562500	7470126	262	211	58	72	52	22%	28%	20%	12%
PS219	562500	7470076	253	203	56	69	50	22%	27%	20%	12%
PS220	562500	7470026	264	212	59	73	52	22%	27%	20%	12%
PS221	562500	7469976	273	222	59	76	55	22%	28%	20%	11%
PS222	562500	7469926	268	214	62	74	52	23%	27%	20%	12%
PS223	562500	7469876	263	208	62	77	52	24%	29%	20%	11%
PS224	562500	7469826	245	196	56	68	49	23%	28%	20%	12%
PS225	562500	7469776	286	231	62	79	57	22%	27%	20%	11%
PS226	562500	7469726	240	192	55	66	47	23%	27%	20%	12%
PS227	562500	7469676	226	184	48	63	45	21%	28%	20%	11%
PS228	562500	7469626	258	205	59	71	51	23%	28%	20%	12%
PS229	562500	7469576	257	207	57	72	52	22%	28%	20%	11%
PS230	562500	7469526	248	199	56	68	49	22%	27%	20%	12%
PS231	562500	7469476	267	214	61	72	52	23%	27%	19%	12%
PS232	562500	7469426	260	210	57	71	52	22%	27%	20%	11%
PS233	562500	7469376	275	225	58	76	55	21%	28%	20%	11%
PS234	562500	7469326	248	198	57	68	49	23%	28%	20%	12%
PS235	562500	7469276	257	207	58	72	51	22%	28%	20%	12%
PS236	562500	7469226	280	228	60	77	56	21%	27%	20%	11%
PS237	562500	7469176	230	190	47	63	46	20%	27%	20%	10%
PS238	562500	7469126	248	203	52	68	50	21%	28%	20%	11%
PS239	562500	7469076	253	206	53	69	51	21%	27%	20%	11%
PS240	562500	7469026	282	235	55	79	58	20%	28%	21%	10%
PS241	562500	7468976	267	223	52	74	55	19%	28%	21%	10%
PS242	562500	7468926	269	225	51	74	55	19%	28%	21%	9%
PS243	562500	7468876	287	236	59	80	58	21%	28%	20%	10%
PS244	562500	7468826	262	223	46	73	54	18%	28%	21%	8%
PS245	562500	7468776	402	344	70	111	82	17%	27%	20%	8%

PS246	562500	7468726	291	239	60	79	58	21%	27%	20%	11%
PS247	562500	7468676	288	241	55	78	59	19%	27%	20%	10%
PS248	562500	7468626	273	229	51	76	56	19%	28%	21%	9%
PS249	562500	7468576	256	215	47	71	52	18%	28%	21%	9%
PS250	562500	7468526	236	196	47	65	48	20%	28%	20%	10%
PS251	562500	7468476	271	228	51	75	56	19%	28%	21%	9%
PS252	562500	7468426	347	298	59	96	72	17%	28%	21%	8%
PS253	562300	7470176	274	222	60	75	54	22%	27%	20%	11%
PS254	562300	7470126	361	293	77	97	71	21%	27%	20%	11%
PS255	562300	7470076	250	201	56	69	49	23%	27%	20%	12%
PS256	562300	7470026	275	223	60	76	55	22%	28%	20%	11%
PS257	562300	7469976	253	208	53	70	51	21%	28%	20%	11%
PS258	562300	7469926	278	226	60	76	55	22%	27%	20%	11%
PS259	562300	7469876	259	208	57	70	51	22%	27%	20%	12%
PS260	562300	7469826	280	228	60	77	56	21%	27%	20%	11%
PS261	562300	7469776	255	204	58	70	50	23%	27%	20%	12%
PS262	562300	7469726	276	225	58	76	55	21%	27%	20%	11%
PS263	562300	7469676	226	178	53	62	44	24%	28%	20%	12%
PS264	562300	7469626	282	228	62	78	56	22%	28%	20%	11%
PS265	562300	7469576	271	220	58	75	55	22%	28%	20%	11%
PS266	562300	7469526	254	207	54	69	51	21%	27%	20%	11%
PS267	562300	7469476	271	222	56	74	54	21%	27%	20%	11%
PS268	562300	7469426	273	221	59	75	54	22%	27%	20%	11%
PS269	562300	7469376	268	219	57	74	54	21%	28%	20%	11%
PS270	562300	7469326	249	202	54	68	50	22%	27%	20%	11%
PS271	562300	7469276	265	215	58	74	53	22%	28%	20%	11%
PS272	562300	7469226	254	205	57	69	50	22%	27%	20%	12%
PS273	562300	7469176	237	194	50	66	48	21%	28%	20%	11%
PS274	562300	7469126	250	203	54	69	50	21%	28%	20%	11%
PS275	562300	7469076	250	205	51	69	50	21%	28%	20%	10%

PS276	562300	7469026	261	217	51	72	53	20%	28%	20%	10%
PS277	562300	7468976	259	216	50	71	53	19%	28%	20%	10%
PS278	562300	7468926	264	217	54	73	53	20%	28%	20%	10%
PS279	562300	7468876	266	221	53	73	53	20%	27%	20%	10%
PS280	562300	7468826	273	232	48	75	56	18%	28%	21%	8%
PS281	562300	7468776	253	217	43	71	53	17%	28%	21%	8%
PS282	562300	7468726	290	247	51	80	60	18%	28%	21%	9%
PS283	562300	7468676	466	407	72	128	97	15%	27%	21%	7%
PS284	562300	7468626	287	247	48	80	60	17%	28%	21%	8%
PS285	562300	7468576	286	245	49	79	59	17%	28%	21%	8%
PS286	562300	7468526	261	222	47	73	54	18%	28%	21%	9%
PS287	562300	7468476	230	195	41	64	48	18%	28%	21%	9%
PS288	562300	7468426	309	267	50	84	63	16%	27%	21%	8%
PS289	562100	7470176	284	212	79	75	52	28%	27%	18%	16%
PS290	562100	7470126	228	178	56	62	43	25%	27%	19%	13%
PS291	562100	7470076	238	184	60	65	45	25%	27%	19%	13%
PS292	562100	7470026	286	228	66	78	56	23%	27%	19%	12%
PS293	562100	7469976	267	213	62	74	52	23%	28%	20%	12%
PS294	562100	7469926	264	208	63	73	51	24%	28%	19%	13%
PS295	562100	7469876	260	207	61	72	50	23%	28%	19%	12%
PS296	562100	7469826	276	220	64	76	54	23%	28%	19%	12%
PS297	562100	7469776	253	198	62	69	49	25%	27%	19%	13%
PS298	562100	7469726	273	218	63	75	54	23%	28%	20%	12%
PS300	562100	7469626	226	177	55	63	44	25%	28%	19%	13%
PS301	562100	7469576	220	174	52	61	43	24%	28%	20%	12%
PS302	562100	7469526	243	197	53	68	49	22%	28%	20%	11%
PS303	562100	7469476	267	217	58	73	53	22%	27%	20%	11%
PS304	562100	7469426	257	207	57	72	51	22%	28%	20%	11%
PS305	562100	7469376	281	230	59	77	56	21%	27%	20%	11%
PS306	562100	7469326	237	191	53	65	46	22%	27%	19%	11%

PS307	562100	7469276	278	228	59	78	56	21%	28%	20%	11%
PS308	562100	7469226	256	209	53	71	51	21%	28%	20%	10%
PS309	562100	7469176	260	214	53	73	53	21%	28%	20%	10%
PS310	562100	7469126	245	198	54	68	49	22%	28%	20%	11%
PS311	562100	7469076	228	183	51	63	45	22%	28%	20%	11%
PS312	562100	7469026	229	186	49	65	46	22%	28%	20%	11%
PS313	562100	7468976	212	171	48	59	42	23%	28%	20%	11%
PS314	562100	7468926	273	224	57	76	55	21%	28%	20%	10%
PS315	562100	7468876	250	205	52	70	50	21%	28%	20%	10%
PS316	562100	7468826	256	213	51	72	52	20%	28%	20%	10%
PS317	562100	7468776	275	230	54	77	57	19%	28%	21%	10%
PS319	562100	7468676	224	188	43	63	46	19%	28%	20%	9%
PS320	562100	7468626	239	201	46	68	49	19%	28%	21%	9%
PS321	562100	7468576	263	218	53	74	53	20%	28%	20%	10%
PS322	562100	7468526	<b>429</b>	372	70	123	92	16%	29%	21%	7%
PS323	562100	7468476	340	292	59	98	72	17%	29%	21%	8%
PS324	562100	7468426	<b>475</b>	417	72	135	102	15%	29%	21%	6%
PS325	561900	7470176	263	211	60	74	52	23%	28%	20%	12%
PS326	561900	7470126	287	231	65	79	56	23%	27%	19%	12%
PS327	561900	7470076	302	239	71	82	58	24%	27%	19%	12%
PS328	561900	7470026	284	213	79	77	53	28%	27%	19%	15%
PS329	561900	7469976	242	188	61	66	46	25%	27%	19%	13%
PS330	561900	7469926	277	217	68	77	54	24%	28%	19%	13%
PS331	561900	7469876	251	196	62	70	49	25%	28%	19%	13%
PS332	561900	7469826	294	231	71	81	57	24%	28%	19%	13%
PS333	561900	7469776	262	201	68	72	50	26%	27%	19%	14%
PS334	561900	7469726	277	215	70	76	53	25%	27%	19%	13%
PS335	561900	7469676	278	215	70	76	53	25%	27%	19%	13%
PS336	561900	7469626	269	208	68	73	50	25%	27%	19%	14%
PS337	561900	7469576	280	219	69	76	53	25%	27%	19%	13%

PS338	561900	7469526	286	222	72	78	55	25%	27%	19%	13%
PS339	561900	7469476	245	192	60	67	47	25%	27%	19%	13%
PS340	561900	7469426	261	207	62	71	50	24%	27%	19%	13%
PS341	561900	7469376	263	206	64	73	51	24%	28%	19%	13%
PS342	561900	7469326	241	188	60	66	46	25%	27%	19%	13%
PS343	561900	7469276	267	208	67	73	51	25%	27%	19%	13%
PS344	561900	7469226	256	206	58	70	50	23%	27%	19%	11%
PS345	561900	7469176	249	198	58	68	49	23%	27%	20%	13%
PS346	561900	7469126	205	162	49	57	40	24%	28%	20%	12%
PS347	561900	7469076	231	183	54	64	45	23%	28%	20%	12%
PS348	561900	7469026	224	183	48	62	45	21%	28%	20%	10%
PS349	561900	7468976	244	195	56	68	48	23%	28%	20%	12%
PS350	561900	7468926	222	179	49	62	44	22%	28%	20%	11%
PS351	561900	7468876	232	187	52	64	46	22%	27%	20%	12%
PS352	561900	7468826	231	186	52	64	45	22%	28%	20%	11%
PS353	561900	7468776	305	240	73	80	58	24%	26%	19%	14%
PS354	561900	7468726	204	161	49	55	39	24%	27%	19%	13%
PS355	561900	7468676	226	177	55	63	44	24%	28%	20%	13%
PS356	561900	7468626	237	190	53	66	47	23%	28%	20%	12%
PS357	561900	7468576	577	494	100	159	118	17%	28%	20%	8%
PS359	561900	7468476	219	179	46	61	43	21%	28%	20%	11%
PS360	561900	7468426	213	175	44	59	42	21%	28%	20%	10%
PS361	561700	7469726	274	218	64	75	53	23%	28%	19%	12%
PS362	561700	7469676	299	240	67	82	58	22%	27%	20%	12%
PS363	561700	7469626	241	192	56	66	47	23%	27%	19%	12%
PS364	561700	7469576	257	210	55	71	51	21%	28%	20%	11%
PS365	561700	7469526	219	174	51	60	42	23%	27%	19%	12%
PS366	561700	7469476	323	255	77	87	62	24%	27%	19%	13%
PS367	561700	7469426	289	231	66	79	57	23%	27%	20%	12%
PS368	561700	7469376	287	231	64	79	57	22%	28%	20%	12%

PS369	561700	7469326	247	192	62	68	47	25%	28%	19%	13%
PS370	561700	7469276	258	205	60	71	50	23%	27%	19%	12%
PS371	561700	7469226	266	213	61	73	52	23%	28%	20%	12%
PS372	561700	7469176	274	221	60	75	54	22%	27%	20%	11%
PS373	561700	7469126	278	225	60	76	55	22%	27%	20%	11%
PS374	561700	7469076	253	203	57	70	50	23%	28%	20%	12%
PS375	561700	7469026	208	170	44	59	42	21%	28%	20%	11%
PS376	561700	7468976	233	190	49	65	47	21%	28%	20%	10%
PS377	561700	7468926	241	193	54	66	47	22%	27%	19%	12%
PS378	561700	7468876	242	194	55	67	48	23%	28%	20%	12%
PS379	561700	7468826	225	181	51	63	45	23%	28%	20%	12%
PS380	561700	7468776	224	183	48	62	44	21%	28%	20%	11%
PS381	561700	7468726	225	180	52	61	44	23%	27%	19%	12%
PS382	561700	7468676	237	196	48	66	48	20%	28%	20%	10%
PS383	561700	7468626	253	210	50	71	51	20%	28%	20%	9%
PS384	561700	7468576	250	209	48	70	51	19%	28%	20%	9%
PS385	561700	7468526	212	173	44	59	42	21%	28%	20%	11%
PS386	561700	7468476	215	176	45	60	43	21%	28%	20%	10%
PS387	561700	7468426	227	188	46	63	46	20%	28%	20%	10%
PS388	561500	7469676	212	162	56	59	40	26%	28%	19%	14%
PS389	561500	7469626	239	183	63	65	45	27%	27%	19%	14%
PS390	561500	7469576	255	200	62	70	49	24%	27%	19%	13%
PS391	561500	7469526	276	214	69	76	53	25%	27%	19%	13%
PS392	561500	7469476	239	188	58	67	47	24%	28%	20%	13%
PS393	561500	7469426	330	266	73	90	65	22%	27%	20%	12%
PS394	561500	7469376	262	209	61	72	51	23%	27%	19%	12%
PS395	561500	7469326	293	233	68	80	57	23%	27%	19%	12%
PS396	561500	7469276	285	233	61	79	57	21%	28%	20%	11%
PS397	561500	7469226	245	191	60	67	47	25%	27%	19%	13%
PS398	561500	7469176	230	181	56	64	45	24%	28%	20%	12%

PS399	561500	7469126	228	187	48	64	46	21%	28%	20%	10%
PS400	561500	7469076	229	185	51	64	45	22%	28%	20%	11%
PS401	561500	7469026	245	200	52	68	49	21%	28%	20%	11%
PS402	561500	7468976	236	194	48	66	48	20%	28%	20%	10%
PS403	561500	7468926	237	191	53	67	47	22%	28%	20%	11%
PS405	561500	7468826	229	189	47	64	46	20%	28%	20%	10%
PS406	561500	7468776	243	202	48	68	49	20%	28%	20%	9%
PS407	561500	7468726	246	202	51	69	50	21%	28%	20%	10%
PS408	561500	7468676	225	183	49	63	45	22%	28%	20%	11%
PS409	561500	7468626	232	189	50	66	46	22%	28%	20%	10%
PS410	561500	7468576	257	213	52	72	52	20%	28%	20%	10%
PS411	561500	7468526	389	329	72	107	79	18%	28%	20%	9%
PS412	561500	7468476	357	299	68	100	74	19%	28%	21%	9%
PS413	561500	7468426	290	245	53	81	60	18%	28%	21%	9%
PS414	561300	7469676	225	176	56	64	44	25%	28%	20%	13%
PS415	561300	7469626	252	197	62	72	50	25%	29%	20%	13%
PS416	561300	7469576	287	227	69	80	56	24%	28%	19%	12%
PS417	561300	7469526	205	165	46	59	42	23%	29%	20%	11%
PS418	561300	7469476	319	245	83	87	60	26%	27%	19%	14%
PS419	561300	7469426	253	199	61	69	48	24%	27%	19%	13%
PS420	561300	7469376	303	239	72	82	58	24%	27%	19%	13%
PS421	561300	7469326	233	183	57	64	45	24%	28%	19%	13%
PS422	561300	7469276	256	207	57	71	51	22%	28%	20%	11%
PS423	561300	7469226	237	191	53	66	47	22%	28%	20%	11%
PS424	561300	7469176	238	193	51	66	48	22%	28%	20%	11%
PS425	561300	7469126	233	191	49	65	47	21%	28%	20%	11%
PS426	561300	7469076	224	183	48	63	45	21%	28%	20%	11%
PS427	561300	7469026	246	204	49	68	50	20%	28%	20%	10%
PS428	561300	7468976	263	218	52	73	53	20%	28%	20%	10%
PS429	561300	7468926	269	220	57	74	53	21%	27%	20%	11%

PS430	561300	7468876	259	212	55	72	52	21%	28%	20%	10%
PS431	561300	7468826	235	190	52	67	48	22%	28%	20%	11%
PS432	561300	7468776	254	211	50	72	52	20%	28%	21%	9%
PS433	561300	7468726	267	219	56	75	54	21%	28%	20%	10%
PS434	561300	7468676	266	220	54	75	54	20%	28%	20%	10%
PS435	561300	7468626	298	249	58	83	61	19%	28%	20%	10%
PS436	561300	7468576	<b>476</b>	408	83	135	100	17%	28%	21%	8%
PS437	561300	7468526	275	226	57	78	56	21%	28%	20%	10%
PS438	561300	7468476	<b>1,127</b>	996	163	314	240	14%	28%	21%	6%
PS439	561300	7468426	261	215	54	72	52	21%	28%	20%	10%
PS440	561100	7469626	377	314	74	104	76	20%	28%	20%	10%
PS441	561100	7469576	327	268	68	90	66	21%	28%	20%	11%
PS442	561100	7469526	382	298	95	102	72	25%	27%	19%	13%
PS443	561100	7469476	238	185	60	67	47	25%	28%	20%	13%
PS444	561100	7469426	278	217	69	78	55	25%	28%	20%	13%
PS445	561100	7469376	265	209	64	73	51	24%	28%	19%	13%
PS446	561100	7469326	306	242	73	84	59	24%	27%	19%	12%
PS447	561100	7469276	258	203	63	72	50	24%	28%	19%	13%
PS448	561100	7469226	243	193	57	68	48	23%	28%	20%	12%
PS449	561100	7469176	252	198	61	70	49	24%	28%	20%	13%
PS450	561100	7469126	304	240	73	84	59	24%	28%	19%	13%
PS451	561100	7469076	256	205	58	71	51	23%	28%	20%	12%
PS452	561100	7469026	267	214	61	74	52	23%	28%	20%	12%
PS453	561100	7468976	303	247	64	83	60	21%	27%	20%	11%
PS454	561100	7468926	339	279	70	94	68	21%	28%	20%	10%
PS455	561100	7468876	356	288	79	100	71	22%	28%	20%	11%
PS456	561100	7468826	315	246	78	86	61	25%	27%	19%	13%
PS457	561100	7468776	299	245	62	82	59	21%	28%	20%	11%
PS458	561100	7468726	237	187	57	64	45	24%	27%	19%	13%
PS459	561100	7468676	322	268	63	90	66	19%	28%	21%	10%

PS460	561100	7468626	291	243	57	82	59	20%	28%	20%	9%
PS461	561100	7468576	252	202	56	70	50	22%	28%	20%	11%
PS462	561100	7468526	255	208	54	70	51	21%	27%	20%	11%
PS463	561100	7468476	249	204	52	69	49	21%	28%	20%	10%
PS464	561100	7468426	362	303	70	102	75	19%	28%	21%	10%
PS465	560900	7469426	264	208	63	74	52	24%	28%	20%	12%
PS466	560900	7469376	266	211	62	73	52	23%	27%	19%	13%
PS467	560900	7469326	249	199	57	69	49	23%	28%	20%	12%
PS468	560900	7469276	247	197	57	68	48	23%	27%	19%	12%
PS469	560900	7469226	284	232	60	78	57	21%	28%	20%	11%
PS470	560900	7469176	270	219	58	75	54	22%	28%	20%	11%
PS471	560900	7469126	266	217	57	74	53	22%	28%	20%	11%
PS472	560900	7469076	253	211	50	70	51	20%	28%	20%	9%
PS473	560900	7469026	263	216	54	73	53	21%	28%	20%	10%
PS474	560900	7468976	279	227	60	77	56	22%	28%	20%	11%
PS475	560900	7468926	286	233	61	80	57	21%	28%	20%	11%
PS476	560900	7468876	286	233	61	78	56	21%	27%	20%	11%
PS477	560900	7468826	265	216	56	74	53	21%	28%	20%	11%
PS478	560900	7468776	224	183	48	63	45	21%	28%	20%	11%
PS479	560900	7468726	462	393	82	127	94	18%	27%	20%	9%
PS480	560900	7468676	247	206	49	69	50	20%	28%	20%	9%
PS481	560900	7468626	263	220	51	74	54	19%	28%	20%	9%
PS482	560900	7468576	250	205	52	69	50	21%	28%	20%	10%
PS483	560900	7468526	276	229	55	78	57	20%	28%	21%	10%
PS484	560900	7468476	221	182	45	62	45	20%	28%	20%	10%
PS485	560900	7468426	226	187	46	62	45	20%	28%	20%	10%
PS486	562700	7471126	244	170	81	66	43	33%	27%	18%	19%
PS487	562700	7471076	225	166	66	63	42	29%	28%	18%	16%
PS488	562700	7471026	210	160	56	59	40	27%	28%	19%	14%
PS489	562700	7470976	254	189	73	70	47	29%	27%	19%	16%

PS490	562700	7470926	256	192	72	72	49	28%	28%	19%	15%
PS491	562700	7470876	219	164	61	61	41	28%	28%	19%	15%
PS492	562700	7470826	232	171	68	66	44	29%	28%	19%	16%
PS495	562700	7470676	265	198	75	73	49	28%	28%	18%	15%
PS496	562700	7470626	270	203	75	72	49	28%	27%	18%	15%
PS497	562700	7470576	385	319	77	107	78	20%	28%	20%	10%
PS498	562700	7470526	394	325	81	109	79	20%	28%	20%	10%
PS499	562500	7471126	242	175	74	66	44	30%	27%	18%	17%
PS500	562500	7471076	245	182	70	68	46	28%	28%	19%	15%
PS502	562500	7470976	255	190	73	71	47	28%	28%	19%	15%
PS503	562500	7470926	237	175	70	66	44	29%	28%	19%	16%
PS504	562500	7470876	257	187	78	70	46	30%	27%	18%	17%
PS505	562500	7470826	209	148	68	62	40	32%	29%	19%	18%
PS506	562500	7470776	216	149	73	65	41	34%	30%	19%	18%
PS507	562500	7470726	211	148	70	63	41	33%	30%	19%	18%
PS508	562500	7470676	264	198	73	76	52	28%	29%	20%	15%
PS509	562500	7470626	342	277	75	96	70	22%	28%	21%	11%
PS510	562500	7470576	345	283	71	98	72	21%	28%	21%	10%
PS511	562500	7470526	300	247	61	86	63	20%	29%	21%	10%
PS512	562300	7471126	237	181	63	68	47	26%	29%	20%	14%
PS513	562300	7471076	234	171	70	67	45	30%	29%	19%	16%
PS514	562300	7471026	241	185	63	70	49	26%	29%	20%	14%
PS515	562300	7470976	246	192	62	72	50	25%	29%	20%	13%
PS516	562300	7470926	275	211	73	79	55	26%	29%	20%	14%
PS517	562300	7470876	258	196	70	74	51	27%	29%	20%	15%
PS518	562300	7470826	276	210	74	78	54	27%	28%	20%	14%
PS519	562300	7470776	231	175	63	68	46	27%	29%	20%	14%
PS520	562300	7470726	221	163	65	66	44	29%	30%	20%	15%
PS521	562300	7470676	297	230	76	86	60	25%	29%	20%	13%
PS522	562300	7470626	382	319	74	109	81	19%	28%	21%	10%

PS523	562300	7470576	290	234	64	84	61	22%	29%	21%	11%
PS524	562300	7470526	298	245	62	87	63	21%	29%	21%	10%
PS525	562100	7471126	249	194	62	71	50	25%	29%	20%	13%
PS526	562100	7471076	227	174	60	67	47	26%	29%	20%	14%
PS527	562100	7471026	224	171	59	64	44	27%	29%	20%	14%
PS528	562100	7470976	233	182	58	68	48	25%	29%	20%	13%
PS529	562100	7470926	236	166	76	64	43	32%	27%	18%	18%
PS530	562100	7470876	348	274	83	98	70	24%	28%	20%	13%
PS531	562100	7470826	222	175	54	64	45	24%	29%	20%	12%
PS532	562100	7470776	292	230	70	83	60	24%	29%	20%	13%
PS533	562100	7470726	228	177	58	66	47	25%	29%	20%	13%
PS534	562100	7470676	285	227	67	82	58	23%	29%	20%	12%
PS535	562100	7470626	293	241	60	85	62	21%	29%	21%	10%
PS536	562100	7470576	323	264	68	91	67	21%	28%	21%	11%
PS537	562100	7470526	330	265	74	93	68	22%	28%	21%	12%
PS538	562100	7470476	<b>585</b>	486	115	164	122	20%	28%	21%	10%
PS539	562100	7470426	263	210	61	75	54	23%	29%	20%	12%
PS540	562100	7470376	302	247	64	86	63	21%	28%	21%	11%
PS541	562100	7470326	300	243	65	85	61	22%	28%	20%	11%
PS542	562100	7470276	377	309	79	107	78	21%	28%	21%	11%
PS543	562100	7470226	281	224	65	80	57	23%	28%	20%	12%
PS544	561900	7471126	285	226	67	82	59	23%	29%	21%	12%
PS545	561900	7471076	258	195	71	75	51	27%	29%	20%	14%
PS546	561900	7471026	264	206	66	76	54	25%	29%	20%	13%
PS547	561900	7470976	291	222	78	83	58	27%	29%	20%	14%
PS548	561900	7470926	265	200	73	77	52	28%	29%	20%	15%
PS549	561900	7470876	296	224	80	86	59	27%	29%	20%	14%
PS550	561900	7470826	282	223	66	81	57	24%	29%	20%	12%
PS551	561900	7470776	300	232	76	86	61	25%	29%	20%	14%
PS552	561900	7470726	357	290	77	102	75	22%	29%	21%	11%

PS553	561900	7470676	246	186	68	73	50	28%	30%	20%	15%
PS554	561900	7470626	<b>426</b>	356	82	121	91	19%	28%	21%	10%
PS555	561900	7470576	<b>408</b>	344	76	117	89	19%	29%	22%	9%
PS556	561900	7470526	387	315	83	110	80	21%	28%	21%	11%
PS557	561900	7470476	264	215	56	76	55	21%	29%	21%	11%
PS558	561900	7470426	280	227	61	79	57	22%	28%	20%	11%
PS559	561900	7470376	307	250	66	86	63	21%	28%	20%	11%
PS560	561900	7470326	313	251	71	88	64	23%	28%	20%	12%
PS561	561900	7470276	234	184	56	65	47	24%	28%	20%	13%
PS562	561900	7470226	277	222	63	80	57	23%	29%	21%	11%
PS563	561700	7471126	271	210	68	77	54	25%	28%	20%	13%
PS564	561700	7471076	298	230	76	85	59	25%	28%	20%	13%
PS565	561700	7471026	264	198	74	76	52	28%	29%	20%	15%
PS566	561700	7470976	270	212	66	78	55	25%	29%	20%	13%
PS567	561700	7470926	279	220	67	81	57	24%	29%	21%	12%
PS568	561700	7470876	266	206	68	78	54	26%	29%	20%	13%
PS569	561700	7470826	297	238	68	86	61	23%	29%	21%	12%
PS570	561700	7470776	272	211	68	77	54	25%	28%	20%	13%
PS571	561700	7470726	311	241	79	87	61	25%	28%	20%	13%
PS572	561700	7470676	311	249	72	90	64	23%	29%	21%	12%
PS573	561700	7470626	377	306	81	106	78	21%	28%	21%	11%
PS574	561700	7470576	327	260	77	95	69	23%	29%	21%	12%
PS575	561700	7470526	353	285	78	100	72	22%	28%	20%	11%
PS576	561700	7470476	306	243	71	88	62	23%	29%	20%	12%
PS577	561700	7470426	218	170	54	60	42	25%	28%	19%	13%
PS579	561500	7471126	266	213	61	75	53	23%	28%	20%	12%
PS580	561500	7471076	323	257	75	91	64	23%	28%	20%	12%
PS581	561500	7471026	287	228	68	80	56	24%	28%	19%	12%
PS582	561500	7470976	251	198	61	70	49	24%	28%	19%	12%
PS583	561500	7470926	268	212	63	76	53	24%	28%	20%	12%

PS584	561500	7470876	272	219	61	77	54	23%	28%	20%	11%
PS585	561500	7470826	230	178	58	66	46	25%	29%	20%	13%
PS586	561500	7470776	253	200	61	72	50	24%	28%	20%	12%
PS587	561500	7470726	224	172	59	64	43	26%	28%	19%	13%
PS588	561500	7470676	229	172	63	64	43	28%	28%	19%	14%
PS589	561300	7471126	223	174	55	63	44	25%	28%	20%	13%
PS590	561300	7471076	242	189	60	69	47	25%	28%	20%	13%
PS591	561300	7471026	232	182	57	65	45	24%	28%	19%	12%
PS592	561300	7470976	291	235	65	83	58	22%	28%	20%	11%
PS593	561300	7470926	254	199	63	72	50	25%	28%	20%	12%
PS594	561300	7470876	291	235	65	83	58	22%	29%	20%	11%
PS595	561300	7470826	278	224	63	79	55	23%	28%	20%	11%
PS596	561300	7470776	253	194	66	72	49	26%	29%	19%	13%
PS597	561300	7470726	349	285	74	101	72	21%	29%	21%	10%
PS598	561300	7470676	248	191	64	69	47	26%	28%	19%	14%
PS599	561100	7471126	215	166	55	59	41	26%	28%	19%	13%
PS600	561100	7471076	213	162	58	60	41	27%	28%	19%	14%
PS601	561100	7471026	231	182	56	66	46	24%	28%	20%	12%
PS602	561100	7470976	239	181	66	71	47	27%	30%	20%	14%
PS603	561100	7470926	295	230	74	83	57	25%	28%	19%	13%
PS604	561100	7470876	283	228	64	80	57	22%	28%	20%	11%
PS605	561100	7470826	291	241	59	81	58	20%	28%	20%	10%
PS606	561100	7470776	234	183	58	67	47	25%	29%	20%	12%
PS607	561100	7470726	255	199	63	72	50	25%	28%	20%	12%
PS608	561100	7470676	261	204	64	74	51	25%	28%	20%	12%
PS609	560900	7471126	230	179	57	64	44	25%	28%	19%	13%
PS610	560900	7471076	229	177	58	64	44	25%	28%	19%	13%
PS611	560900	7471026	281	222	67	77	54	24%	28%	19%	12%
PS612	560900	7470976	258	204	61	73	51	24%	28%	20%	12%
PS613	560900	7470926	266	214	60	75	53	23%	28%	20%	11%

PS614	560900	7470876	218	169	56	61	42	26%	28%	19%	13%
PS615	560900	7470826	243	194	56	67	47	23%	27%	19%	11%
PS616	560900	7470776	209	161	54	58	40	26%	28%	19%	13%
PS617	560900	7470726	289	226	71	80	56	25%	28%	19%	13%
PS618	560900	7470676	362	306	67	103	75	18%	29%	21%	8%
PS619	560900	7470626	260	201	67	74	51	26%	29%	20%	13%
PS620	560900	7470576	270	217	61	76	54	23%	28%	20%	11%
PS621	560900	7470526	243	190	60	67	47	25%	28%	19%	13%
PS622	560900	7470476	282	223	68	79	55	24%	28%	20%	12%
PS632	556900	7471826	230	197	40	64	48	17%	28%	21%	8%
PS633	556900	7471776	252	220	39	71	54	16%	28%	21%	7%
PS634	556900	7471726	259	226	40	73	55	16%	28%	21%	7%
PS635	556900	7471676	263	220	50	74	54	19%	28%	21%	9%
PS636	556900	7471626	226	190	43	63	46	19%	28%	20%	9%
PS637	556700	7472276	203	176	33	58	44	16%	29%	21%	7%
PS638	556700	7472226	213	185	35	60	45	16%	28%	21%	7%
PS639	556700	7472176	323	286	47	91	69	14%	28%	21%	6%
PS640	556700	7472126	435	383	65	123	93	15%	28%	21%	6%
PS641	556700	7472076	414	363	64	120	90	15%	29%	22%	7%
PS642	556700	7472026	309	268	51	88	66	17%	28%	21%	7%
PS643	556700	7471976	333	292	50	92	70	15%	28%	21%	7%
PS644	556700	7471926	328	295	43	93	72	13%	28%	22%	5%
PS645	556700	7471876	221	194	34	61	46	15%	28%	21%	7%
PS648	556700	7471726	236	207	36	66	50	15%	28%	21%	7%
PS649	556700	7471676	211	180	37	59	44	18%	28%	21%	8%
PS650	556700	7471626	229	197	39	64	47	17%	28%	21%	8%
PS651	556500	7472276	223	194	35	63	47	16%	28%	21%	7%
PS652	556500	7472226	268	236	40	75	57	15%	28%	21%	6%
PS653	556500	7472176	249	214	42	71	52	17%	28%	21%	7%
PS654	556500	7472126	246	204	49	69	50	20%	28%	20%	10%

PS655	556500	7472076	322	279	53	90	68	16%	28%	21%	7%
PS656	556500	7472026	<b>499</b>	433	80	141	107	16%	28%	21%	7%
PS657	556500	7471976	377	329	59	108	82	16%	29%	22%	7%
PS658	556500	7471926	393	355	50	112	86	13%	28%	22%	5%
PS659	556500	7471876	305	270	45	86	66	15%	28%	21%	6%
PS660	556500	7471826	243	213	37	68	52	15%	28%	21%	7%
PS661	556500	7471776	232	202	37	65	49	16%	28%	21%	7%
PS663	556500	7471676	204	176	34	57	42	17%	28%	21%	8%
PS664	556500	7471626	213	180	39	60	45	18%	28%	21%	9%
PS665	556200	7472276	219	193	33	62	47	15%	28%	21%	6%
PS666	556200	7472226	224	196	35	64	48	16%	28%	21%	7%
PS667	556200	7472176	238	209	37	67	51	15%	28%	21%	7%
PS668	556200	7472126	238	207	38	67	50	16%	28%	21%	7%
PS669	556200	7472076	214	185	35	60	45	16%	28%	21%	7%
PS670	556200	7472026	355	311	55	101	76	15%	28%	21%	7%
PS671	556200	7471976	<b>456</b>	403	67	131	99	15%	29%	22%	6%
PS672	556200	7471926	362	322	51	102	79	14%	28%	22%	6%
PS673	556200	7471876	385	339	58	110	84	15%	29%	22%	6%
PS674	556200	7471826	345	299	57	100	74	17%	29%	21%	7%
PS675	556200	7471776	349	304	55	99	74	16%	28%	21%	7%
PS676	556200	7471726	<b>475</b>	420	68	131	100	14%	28%	21%	6%
PS677	556200	7471676	297	262	44	84	64	15%	28%	21%	6%
PS678	556200	7471626	251	218	41	70	53	16%	28%	21%	7%
PS679	556000	7471526	234	207	34	66	51	14%	28%	22%	6%
PS681	556000	7471426	222	194	34	61	46	15%	28%	21%	7%
PS683	556000	7471326	212	179	40	60	44	19%	28%	21%	9%
PS684	556000	7471276	242	209	40	68	51	17%	28%	21%	7%
PS685	556000	7471226	238	202	42	67	50	18%	28%	21%	8%
PS686	556000	7471176	296	253	51	85	64	17%	29%	22%	8%
PS687	556000	7471126	376	325	62	109	82	16%	29%	22%	7%

PS688	556000	7471076	348	306	52	100	76	15%	29%	22%	6%
PS689	556000	7471026	271	242	36	76	59	13%	28%	22%	6%
PS690	556000	7470976	229	202	33	65	50	14%	28%	22%	6%
PS696	556000	7470676	213	180	40	61	45	19%	28%	21%	9%
PS697	556000	7472276	238	204	41	69	51	17%	29%	21%	8%
PS698	556000	7472226	245	208	45	71	52	18%	29%	21%	8%
PS699	556000	7472176	257	223	42	73	56	16%	29%	22%	7%
PS700	556000	7472126	260	224	44	75	57	17%	29%	22%	8%
PS701	556000	7472076	268	230	46	77	58	17%	29%	22%	8%
PS702	556000	7472026	254	217	45	73	54	18%	29%	21%	8%
PS703	556000	7471976	378	334	56	109	84	15%	29%	22%	6%
PS704	556000	7471926	471	420	65	136	106	14%	29%	22%	6%
PS705	556000	7471876	511	457	68	146	113	13%	29%	22%	6%
PS706	556000	7471826	605	540	82	173	135	13%	29%	22%	6%
PS707	556000	7471776	355	300	66	102	75	19%	29%	21%	9%
PS708	556000	7471726	339	292	57	97	73	17%	29%	21%	8%
PS709	556000	7471676	451	397	67	129	99	15%	29%	22%	6%
PS710	556000	7471626	336	296	49	97	74	15%	29%	22%	6%
PS711	556000	7471576	317	286	40	90	70	13%	29%	22%	5%
PS712	555800	7471526	369	320	59	107	81	16%	29%	22%	7%
PS713	555800	7471476	515	466	64	148	114	12%	29%	22%	5%
PS714	555800	7471426	245	219	33	70	54	14%	28%	22%	6%
PS715	555800	7471376	234	203	37	65	50	16%	28%	21%	7%
PS717	555800	7471276	202	174	34	58	43	17%	28%	21%	8%
PS718	555800	7471226	229	195	41	65	49	18%	28%	21%	9%
PS719	555800	7471176	200	173	33	57	43	16%	29%	22%	7%
PS720	555800	7471126	214	182	39	61	45	18%	28%	21%	8%
PS721	555800	7471076	243	208	42	69	52	17%	29%	21%	8%
PS722	555800	7471026	245	216	36	70	53	15%	28%	22%	6%
PS723	555800	7470976	277	246	39	80	61	14%	29%	22%	6%

PS726	555800	7470826	221	197	30	63	49	14%	28%	22%	6%
PS728	555800	7470726	210	183	33	60	46	16%	28%	22%	7%
PS729	555800	7470676	205	176	34	59	44	17%	29%	22%	8%
PS730	555800	7472276	248	212	43	72	54	17%	29%	22%	8%
PS731	555800	7472226	245	211	40	69	53	16%	28%	22%	8%
PS732	555800	7472176	229	196	40	65	49	17%	28%	21%	8%
PS733	555800	7472126	246	208	45	70	52	18%	29%	21%	9%
PS734	555800	7472076	247	210	44	70	53	18%	28%	21%	8%
PS735	555800	7472026	242	209	40	68	52	17%	28%	21%	8%
PS736	555800	7471976	247	211	43	69	52	17%	28%	21%	9%
PS737	555800	7471926	213	167	51	55	41	24%	26%	19%	15%
PS738	555800	7471876	229	198	37	64	49	16%	28%	21%	7%
PS739	555800	7471826	238	205	40	68	51	17%	28%	21%	8%
PS740	555800	7471776	234	200	41	67	50	17%	28%	21%	8%
PS741	555800	7471726	256	216	48	72	54	19%	28%	21%	9%
PS742	555800	7471676	281	234	54	79	58	19%	28%	21%	9%
PS743	555800	7471626	325	271	64	90	67	20%	28%	21%	10%
PS744	555800	7471576	<b>458</b>	403	68	130	100	15%	28%	22%	7%
PS745	555600	7471526	271	238	40	77	59	15%	28%	22%	6%
PS746	555600	7471476	241	212	36	68	53	15%	28%	22%	6%
PS747	555600	7471426	237	210	34	67	51	14%	28%	22%	6%
PS748	555600	7471376	270	239	39	77	59	14%	28%	22%	6%
PS751	555600	7471226	216	191	32	62	48	15%	29%	22%	6%
PS752	555600	7471176	205	179	32	58	44	15%	28%	22%	7%
PS753	555600	7471126	209	180	35	60	45	17%	29%	22%	8%
PS754	555600	7471076	235	207	35	66	51	15%	28%	22%	7%
PS755	555600	7471026	212	186	32	61	47	15%	29%	22%	7%
PS756	555600	7470976	214	189	32	61	46	15%	28%	22%	6%
PS757	555600	7470926	202	177	31	57	44	15%	28%	22%	7%
PS758	555600	7470876	212	186	32	60	46	15%	29%	22%	7%

PS759	555600	7470826	203	177	31	58	44	15%	29%	22%	7%
PS761	555600	7470726	207	180	33	59	45	16%	29%	22%	7%
PS762	555600	7470676	210	184	33	60	46	15%	29%	22%	7%
PS764	555600	7472226	221	184	44	63	47	20%	29%	21%	9%
PS765	555600	7472176	221	183	44	63	46	20%	29%	21%	10%
PS766	555600	7472126	214	181	40	62	46	19%	29%	21%	9%
PS767	555600	7472076	225	186	45	64	47	20%	29%	21%	10%
PS768	555600	7472026	233	195	45	67	49	19%	29%	21%	9%
PS769	555600	7471976	247	211	43	70	53	18%	29%	21%	8%
PS770	555600	7471926	234	201	40	67	51	17%	29%	22%	8%
PS771	555600	7471876	261	222	47	74	56	18%	29%	21%	9%
PS772	555600	7471826	242	206	43	69	52	18%	28%	21%	8%
PS773	555600	7471776	269	231	46	76	58	17%	28%	21%	8%
PS774	555600	7471726	246	210	43	70	52	17%	28%	21%	8%
PS775	555600	7471676	369	319	60	106	80	16%	29%	22%	7%
PS776	555600	7471626	321	273	57	92	70	18%	29%	22%	8%
PS777	555600	7471576	316	276	49	90	69	15%	28%	22%	7%
PS780	555400	7471426	215	186	35	62	47	16%	29%	22%	7%
PS781	555400	7471376	211	183	34	60	46	16%	29%	22%	7%
PS782	555400	7471326	215	185	36	61	46	17%	29%	22%	7%
PS784	555400	7471226	221	194	34	63	48	15%	29%	22%	7%
PS785	555400	7471176	211	183	33	60	46	16%	29%	22%	7%
PS786	555400	7471126	329	298	40	93	74	12%	28%	22%	5%
PS787	555400	7471076	219	191	34	62	48	16%	28%	22%	7%
PS788	555400	7471026	202	174	33	57	43	16%	28%	22%	7%
PS790	555400	7470926	228	198	37	65	49	16%	29%	22%	7%
PS791	555400	7470876	221	192	35	63	48	16%	28%	22%	7%
PS792	555400	7470826	208	181	33	59	45	16%	28%	22%	7%
PS797	555400	7472226	237	209	35	67	52	15%	28%	22%	6%
PS798	555400	7472176	253	222	38	72	55	15%	28%	22%	7%

PS799	555400	7472126	203	176	33	58	44	16%	29%	22%	7%
PS800	555400	7472076	228	196	38	65	49	17%	29%	21%	8%
PS801	555400	7472026	227	195	38	65	49	17%	28%	22%	8%
PS802	555400	7471976	211	182	35	60	45	17%	28%	21%	8%
PS804	555400	7471876	216	185	36	61	46	17%	28%	21%	8%
PS805	555400	7471826	225	195	37	64	48	16%	28%	21%	7%
PS806	555400	7471776	224	193	38	63	47	17%	28%	21%	8%
PS808	555400	7471676	218	191	33	61	47	15%	28%	22%	7%
PS809	555400	7471626	206	181	31	58	44	15%	28%	22%	6%
PS811	555200	7471526	245	217	35	69	54	14%	28%	22%	6%
PS812	555200	7471476	287	255	40	81	63	14%	28%	22%	6%
PS813	555200	7471426	216	191	31	61	47	14%	28%	22%	6%
PS814	555200	7471376	203	180	29	58	45	14%	29%	22%	6%
PS820	555200	7471076	205	178	32	58	44	16%	28%	22%	7%
PS825	555200	7470826	203	178	31	57	44	15%	28%	22%	7%
PS826	555200	7470776	210	183	33	60	45	16%	28%	22%	7%
PS829	555200	7472276	259	228	38	73	57	15%	28%	22%	7%
PS830	555200	7472226	221	194	33	63	48	15%	28%	22%	7%
PS831	555200	7472176	229	203	32	65	51	14%	28%	22%	6%
PS832	555200	7472126	247	217	37	70	54	15%	28%	22%	7%
PS833	555200	7472076	240	213	34	68	53	14%	28%	22%	6%
PS834	555200	7472026	222	192	37	63	48	17%	28%	22%	8%
PS835	555200	7471976	231	200	37	66	50	16%	28%	22%	7%
PS836	555200	7471926	228	195	39	65	49	17%	28%	21%	8%
PS838	555200	7471826	229	196	39	66	49	17%	29%	22%	8%
PS839	555200	7471776	208	176	38	58	44	18%	28%	21%	9%
PS841	555200	7471676	226	197	35	63	48	16%	28%	21%	7%
PS842	555200	7471626	297	262	44	85	64	15%	28%	22%	6%
PS843	555200	7471576	295	263	40	82	64	13%	28%	22%	6%
PS844	556200	7471126	206	178	34	58	44	17%	28%	21%	7%

PS845	556200	7471076	203	177	32	57	44	16%	28%	22%	7%
PS847	556200	7470976	207	181	31	59	45	15%	28%	22%	7%
PS848	556200	7470926	220	192	34	62	48	15%	28%	22%	7%
PS849	556200	7470876	204	178	32	58	44	15%	28%	22%	7%
PS853	556200	7470676	204	172	38	58	43	19%	28%	21%	9%
PS854	556350	7472276	209	182	33	59	45	16%	28%	22%	7%
PS855	556350	7472226	235	207	35	67	52	15%	29%	22%	6%
PS856	556350	7472176	217	190	34	62	47	16%	28%	22%	7%
PS857	556350	7472126	243	211	39	69	52	16%	28%	21%	7%
PS858	556350	7472076	472	425	61	136	105	13%	29%	22%	5%
PS859	556350	7472026	311	272	48	89	67	15%	28%	22%	7%
PS860	556350	7471976	399	350	60	116	89	15%	29%	22%	7%
PS861	556350	7471926	391	345	58	112	86	15%	29%	22%	6%
PS862	556350	7471876	295	257	47	85	64	16%	29%	22%	7%
PS863	556350	7471826	394	353	52	113	88	13%	29%	22%	5%
PS864	556350	7471776	320	287	43	91	71	13%	29%	22%	5%
PS865	556350	7471726	247	218	37	70	54	15%	28%	22%	6%
PS866	556350	7471676	217	185	38	61	46	18%	28%	21%	8%

**Table2: Bruce (P2) Soil Sampling Assay Result TREO >200ppm**

## Bruce Prospect Background

The Bruce rare earth prospect is located within the Central Desert Region of the Northern Territory and covers an area of approximately 17,722 ha. MGA recently reported (see ASX announcement dated 7th June 2023) that it had identified outcropping carbonatite and high grade REE mineralisation that now extends more than 9km in length with multiple parallel mineralised areas and with a high percentage of valuable magnetic and heavy rare earth elements up to 1,800 ppm TREO, 38% HREO/TREO, 31% MREO/TREO, 23% NdPr/TREO, 23% Y<sub>2</sub>O<sub>3</sub>/TREO.

MGA reported (see ASX announcement dated 20th July 2022) that it had identified a broad conductor along strike from the Plenty River mine which is adjacent to magnetic features interpreted to be components of the pegmatite intrusion.

MGA recent REE discovery at Bruce (see ASX announcement dated 14 August 2023) RC drilling assays returned high-grade carbonatite REE grades of up to 7,000ppm (0.70%) TREO 35% MREO/TREO, 28% NdPr/TREO and 36% Y<sub>2</sub>O<sub>3</sub>/TREO with multiple zones of mineralisation.

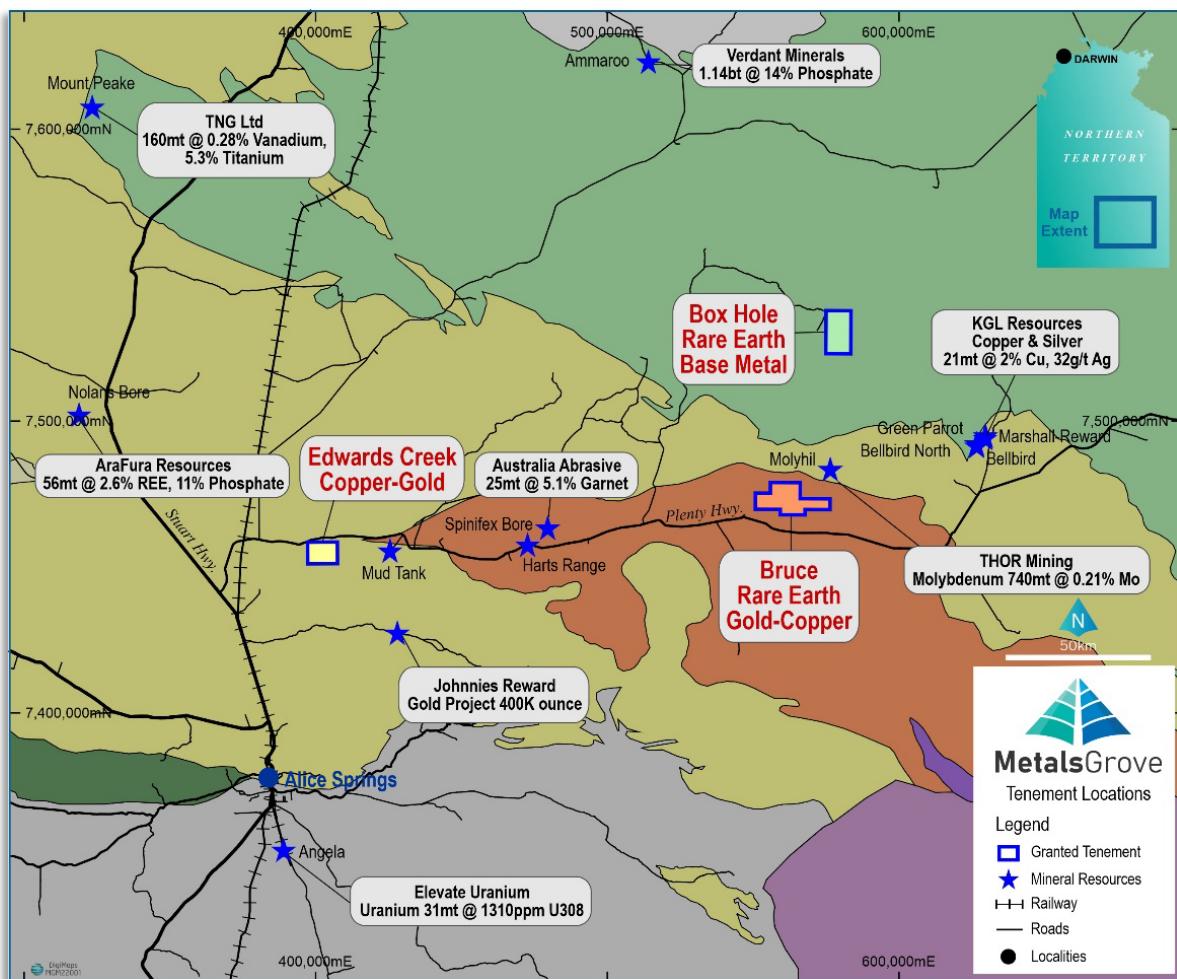


Figure 4: Arunta Project Location Map

## About MetalsGrove

MetalsGrove Mining Limited (ASX: MGA) is an Australian-based exploration and development company, focused on the exploration and development of its portfolio of high-quality lithium, rare earth, copper-gold, manganese and base metal projects in Western Australia and the Northern Territory.



MGA is committed to green metal exploration and development to meet the growing demand from the battery storage and renewable energy markets in the transition to a de-carbonised world.

### **Competent Person Statement – Exploration Strategy**

The information in this announcement that relates to exploration strategy has been developed by Sean Sivasamy. All assay results have been complied by Mr Sivasamy who is a member of Australasian Institute of Mining and Metallurgy. Mr Sivasamy is Managing Director and CEO of MetalsGrove Mining Limited.

Mr Sivasamy has sufficient experience which is relevant to the style of mineralisation and exploration processes as reported herein 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 Sivasamy consents to the inclusion in this announcement of the information contained herein, in the form and context in which it appears.

### **Forward looking statements**

This announcement may contain certain "forward looking statements" which may not have been based solely on historical facts, but rather may be based on the Company's current expectations about future events and results. Where the Company expresses or implies an expectation or belief as to future events or results, such expectation or belief is expressed in good faith and believed to have a reasonable basis.

However, forward looking statements are subject to risks, uncertainties, assumptions, and other factors which could cause actual results to differ materially from future results expressed, projected or implied by such forward looking statements. Such risks include, but are not limited to exploration risk, mineral resource risk, metal price volatility, currency fluctuations, increased production costs and variances in ore grade or recovery rates from those assumed in mining plans, as well as political and operational risks in the countries and states in which we sell our product to, and government regulation and judicial outcomes.

For more detailed discussion of such risks and other factors, see the Company's Prospectus, as well as the Company's other filings. Readers should not place undue reliance on forward looking information. The Company does not undertake any obligation to release publicly any revisions to any "forward looking statement" to reflect events or circumstances after the date of this announcement, or to reflect the occurrence of unanticipated events, except as may be required under applicable securities laws.

**Authorised for release by the MetalsGrove Mining Limited Board of Directors.**

INVESTOR ENQUIRIES	MEDIA ENQUIRIES
Sean Sivasamy Managing Director & CEO MetalsGrove Mining Ltd <a href="mailto:seans@metalsgrove.com.au">seans@metalsgrove.com.au</a>	Sam Burns SIX® Investor Relations +61 400 164 067 <a href="mailto:sam.burns@sdir.com.au">sam.burns@sdir.com.au</a>



# 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
<b>Sampling Techniques</b>	<ul style="list-style-type: none"> <li>Nature and quality of sampling (e.g. 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.</li> <li>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</li> <li>Aspects of the determination of mineralisation that are Material to the Public Report.</li> </ul>	<ul style="list-style-type: none"> <li>Soil samples weighing approximately 250 grams were taken by hand from a depth of about 15-20cm below surface.</li> <li>Each sample was sieved on site using a plastic sieve to remove coarse particles and placed in plastic snap seal bags.</li> <li>Standard field collection procedures for soil samples were used.</li> </ul>
<b>Drilling Techniques</b>	<ul style="list-style-type: none"> <li>Drill type (e.g. core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc.) and details (e.g. core diameter, triple or standard tube, depth of The samples were rock chip samples, no drill samples were collected.</li> </ul>	<ul style="list-style-type: none"> <li>No drilling results are included in this release.</li> </ul>
<b>Drill Sample Recovery</b>	<ul style="list-style-type: none"> <li>Method of recording and assessing core and chip sample recoveries and results assessed.</li> <li>Measures taken to maximize sample recovery and ensure representative nature of the samples.</li> <li>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.</li> </ul>	<ul style="list-style-type: none"> <li>No drilling results are included in this release.</li> </ul>

<b>Logging</b>	<ul style="list-style-type: none"> <li>• 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.</li> <li>• Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc.) photography.</li> <li>• The total length and percentage of the relevant intersections logged.</li> </ul>	<ul style="list-style-type: none"> <li>• No drilling results are included in this release.</li> </ul>
<b>Sub-sampling Techniques and Sample Preparation</b>	<ul style="list-style-type: none"> <li>• If core, whether cut or sawn and whether quarter, half or all core taken.</li> <li>• If non-core, whether riffled, tube sampled, rotary split, etc. and whether sampled wet or dry.</li> <li>• For all sample types, the nature, quality and appropriateness of the sample preparation technique.</li> <li>• Quality control procedures adopted for all sub-sampling stages to maximize representivity of samples.</li> <li>• 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.</li> <li>• Whether sample sizes are appropriate to the grain size of the material being sampled.</li> </ul>	<ul style="list-style-type: none"> <li>• The entire sample received by the laboratory was crushed and pulverised to 85% passing 75 micron.</li> <li>• No field duplicates were taken as this is not warranted at the current stage of exploration.</li> <li>• The sample size and distribution of the soil samples is appropriate for the current stage of exploration.</li> </ul>
<b>Quality of Assay Data and Laboratory Tests</b>	<ul style="list-style-type: none"> <li>• The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.</li> <li>• 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.</li> </ul>	<ul style="list-style-type: none"> <li>• Samples were prepared and analysed by Intertek Genalysis in Perth. The sample analysis uses a Four Acid 48 element package 4A/MS48 and rare earth element 4A/MS48R finish.</li> <li>• Elements assayed included: Ag, Al, As, Au, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cs, Cu, Dy, Er, Eu, Fe, Ga, Gd, Ge, Hf, Ho, In, K, La, Li, Lu, Mg, Mn, Mo, Na, Nb, Nd, Ni, P, Pb, Pr, Rb, Re, S, Sb, Sc, Se, Sm, Sn, Sr, Ta, Tb, Te, Th, Ti, Tl, Tm,</li> </ul>



	<ul style="list-style-type: none"> <li>Nature of quality control procedures adopted (e.g. standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (i.e. lack of bias) and precision have been established.</li> </ul>	<ul style="list-style-type: none"> <li>U, V, W, Y, Yb, Zn, Zr.</li> </ul>
<b>Verification of Sampling and Assaying</b>	<ul style="list-style-type: none"> <li>The verification of significant intersections by either independent or alternative company personnel.</li> <li>The use of twinned holes.</li> <li>Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.</li> <li>Discuss any adjustment to assay data.</li> </ul>	<ul style="list-style-type: none"> <li>Independent checks or field duplicates were not conducted for soil sample and are not considered necessary for that type of sample.</li> <li>Primary assay data has been entered into the Company's digital database.</li> <li>There are no adjustments to the assay data.</li> </ul>
<b>Location of Data Points</b>	<ul style="list-style-type: none"> <li>Accuracy and quality of surveys used to locate drillholes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation.</li> <li>Specification of the grid system used.</li> <li>Quality and adequacy of topographic control.</li> </ul>	<ul style="list-style-type: none"> <li>A handheld GPS was used to locate the data positions, with an expected +/-5m vertical and horizontal accuracy. The grid system used for all sample locations is the UTM Geocentric Datum of Australia 1994 (MGA94 Zone 53). GPS measurements of sample positions are sufficiently accurate for first pass geochemical sampling.</li> </ul>
<b>Data Spacing and Distribution</b>	<ul style="list-style-type: none"> <li>Data spacing for reporting of Exploration Results.</li> <li>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.</li> <li>Whether sample compositing has been applied.</li> </ul>	<ul style="list-style-type: none"> <li>No drilling results are included in this release.</li> </ul>
<b>Orientation of data in relation to geologic al structure</b>	<ul style="list-style-type: none"> <li>Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.</li> <li>If the relationship between the drilling orientation and the</li> </ul>	<ul style="list-style-type: none"> <li>The orientation of the soil sampling lines has not been considered to have introduced sampling bias.</li> </ul>



	orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material.
<b>Sample security</b>	<ul style="list-style-type: none"> <li>The measures taken to ensure sample security.</li> </ul>
<b>Audits or Reviews</b>	<ul style="list-style-type: none"> <li>The results of any audits or reviews of sampling techniques and data.</li> </ul>
	<ul style="list-style-type: none"> <li>Samples are collected from outcrop mineralisation in calico bags individual sample numbers and delivered directly from site to the assay laboratory in Perth.</li> <li>No audit or review has been completed by an external party and is not warranted at the current stage of exploration.</li> </ul>

## Section 2 Reporting of Exploration Results

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

Criteria	JORC Code Explanation	Commentary
<b>Mineral Tenement and Land Tenure Status</b>	<ul style="list-style-type: none"> <li>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.</li> <li>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.</li> </ul>	<ul style="list-style-type: none"> <li>The soil samples were collected from tenement EL31225.</li> <li>There are no third-party arrangements or royalties etc. to impede exploration on the tenure.</li> <li>There are no reserves or national parks to impede exploration on the tenure.</li> <li>Ownership – 100% MetalsGrove Mining Ltd.</li> </ul>
<b>Exploration Done by Other Parties.</b>	<ul style="list-style-type: none"> <li>Acknowledgment and appraisal of exploration by other parties.</li> </ul>	<ul style="list-style-type: none"> <li>All historical work referenced in this report has been undertaken by previous project explorers. Whilst it could be expected that work and reporting practices were of an adequate standard, this cannot be confirmed.</li> </ul>
<b>Geology</b>	<ul style="list-style-type: none"> <li>Deposit type, geological setting and style of mineralization.</li> </ul>	<ul style="list-style-type: none"> <li>The Bruce project tenement covers Lower Proterozoic rocks along, and flanking, the Delny-Mt. Sainthill Fault Zone, a feature developed within a wide west-northwest trending tectonic zone. Most of the project tenement is overlayed by Quaternary alluvium</li> </ul>

and soils. The project tenement is host to the historical Plenty River Mica Mining Area. Near the centre of the tenement lies the historical Bruce Au-Cu occurrence. The prospect is associated with quartz veins, where east-trending quartz veins contain Cu and also locally contain Au (up to 53 ppm Au; Wygralak and Mernagh 2005). The pegmatite outcrop hosting number of silicous and micaceous occurrences on the potential for LCT and REE bearing.

<b>Drillhole Information</b>	<ul style="list-style-type: none"><li>• A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drillholes:</li><li>• easting and northing of the drillhole collar elevation or RL (Reduced Level – elevation above sea level in metres) of the drillhole collar dip and azimuth of the hole</li><li>• down hole length and interception depth hole length.</li><li>• No drilling results are included in this release.</li></ul>
<b>Data Aggregation Methods</b>	<ul style="list-style-type: none"><li>• In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (e.g. cutting of high grades) and cut-off grades are usually Material and should be stated.</li><li>• 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.</li><li>• The assumptions used for any reporting of metal equivalent values should be clearly stated.</li><li>• No data aggregation methods were applied to the soil sampling data.</li></ul>

<b>Relationship Between Mineralisation Widths and Intercept Lengths</b>	<ul style="list-style-type: none"> <li>If the geometry of the mineralisation with respect to the drillhole angle is known, its nature should be reported.</li> <li>Not applicable.</li> </ul>
<b>Diagrams</b>	<ul style="list-style-type: none"> <li>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 drillhole collar locations and appropriate sectional views.</li> <li>See maps in the body of the report.</li> </ul>
<b>Balanced Reporting</b>	<ul style="list-style-type: none"> <li>Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced avoiding misleading reporting of Exploration Results.</li> <li>The reporting of these soil sample results is considered to be representative.</li> </ul>
<b>Other Substantive Exploration Data</b>	<ul style="list-style-type: none"> <li>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.</li> <li>All meaningful data and relevant information have been included in the body of the report.</li> </ul>
<b>Further Work</b>	<ul style="list-style-type: none"> <li>The nature and scale of planned further work (e.g. tests for lateral extensions or depth extensions or large-scale step-out drilling).</li> <li>Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.</li> <li>On-going exploration in the area is a high priority for the Company.</li> <li>RC Drilling will be planned.</li> <li>The images included show the location of the current areas of interest.</li> </ul>

