# KRAKATOA DELIVERS MAIDEN MINERAL RESOURCE AT TOWER RARE EARTH DEPOSIT 

## Maiden Mineral Resource Estimate of 101MT @ 840ppm TREO

## HIGHLIGHTS

- Major Maiden Mineral Resource estimate of 101MT @ 840ppm TREO comes only 7 months after making the discovery at Tower
- Mineralisation starts from surface and is highlighted by thick zones of high-grade TREO
- $40 \%$ of the Mineral Resource estimate is classified in the Indicated category, 60\% classified in the Inferred category
- Maiden Mineral Resource estimate only incorporates $20 \%$ of identified Exploration Target drilled to date, with significant resource expansion potential
- Exploration Target for the Tower area is estimated at 57-481MT grading 530-1050ppm TREO
- Krakatoa to commence reconnaissance drilling at Tower West and infill and extensional drilling at Tower
- Following delivery of the Mineral Resource estimate, Krakatoa will focus on commencing strategic discussions, development studies and growing the Project in size and scale

Krakatoa Resources Limited (ASX: KTA) ("Krakatoa" or the "Company") is pleased to announce a major milestone through delivery of a maiden Mineral Resource estimate at the Tower Project, the first prospect drilled of many perspective clay hosted REE targets at the Company's flagship Mt Clere Project, located in the north-western margins of the Yilgarn Craton, Western Australia.

The impressive maiden Mineral Resource estimate of 101MT @ 840ppm TREO, which has been defined in only 7 months following the discovery at Tower, which is highlighted by thick zones of near-surface mineralisation. $40 \%$ of the Mineral Resource estimate has been classified in an Indicated category. Significantly, the existing resource has the potential to substantially grow in size and scale as the Mineral Resource estimate only incorporates 20\% of the identified Exploration Target drilled to date.

Krakatoa has estimated an Exploration Target for the Tower area of 57 - 481MT at 530-1050ppm TREO.

Following completion of the maiden Mineral Resource estimate, Krakatoa will now commence key development workstreams at the Tower Project and initiate discussions with potential end-users, offtake partners and industry groups for potential funding, development, and downstream opportunities.

The Mineral Resource estimate is set out in the Table 1 below, together with the Exploration Target for the extensional areas:

Table 1. Tower project Mineral Resources estimate and Exploration Target.

| Resource Classification JORC | Tonnes <br> (Mt) | TREO <br> (ppm) | TREO - <br> $\mathrm{CeO}_{2}$ <br> (ppm) | (ppm) | HREO <br> (ppm) | LREO <br> (ppm) | $\begin{aligned} & \mathrm{U}_{3} \mathrm{O}_{8} \\ & (\mathrm{ppm}) \end{aligned}$ | $\mathrm{ThO}_{2}$ <br> (ppm) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Indicated | 40 | 824 | 481 | 233 | 182 | 642 | 1 | 31 |
| Inferred | 61 | 852 | 540 | 290 | 266 | 586 | 2 | 32 |
| Total ${ }^{(1)}$ | 101 | 840 | 517 | 267 | 233 | 607 | 2 | 32 |
| Exploration Target ${ }^{(2)}$ | 57-481 | 530-1050 | 320-625 |  |  |  | 1-4 | 10-35 |

Notes:
(1) Mineral Resources reported at a cut-off grade of 300 ppm TREO-CeO
(2) Exploration target is reported as a range. The potential quantity and grade of the Exploration Target is conceptual in nature and is therefore an approximation. There has been insufficient exploration to estimate a Mineral Resource and it is uncertain if further exploration will result in the estimation of a Mineral Resource

## Krakatoa's CEO, Mark Major commented

"This is an outstanding result and a game-changer for Krakatoa and our shareholders.
"It has only been 7 months since we made the initial discovery at Tower and now the team has delivered a robust maiden resource and we still have a significant exploration target to chase.
"This puts us in a solid position to continue with our systematic exploration strategy and also commence strategic discussions with end users and industry groups related to potential development, funding, off-take arrangements, and downstream processing opportunities.
"We will now continue to explore the Tower area further and look to increase the resource confidence as well as size, plus continue our regional exploration focus. In parallel, we will advance the ongoing technical and metallurgical studies and look to commence baseline environmental and social studies with the vision to move toward production as quickly as possible.
"We believe Tower and the wider area presents a unique opportunity to develop a project of size and quality with key attributes highlighted by free-digging dirt, low strip ratio, extensive mineralised thickness and in this area that doesn't compete with agriculture for land use."

The maiden Mineral Resource estimate incorporates the results from two drilling campaigns completed over the past 12 months at Mt Clere. The results of both programs were announced to the ASX on 12 April 2022, 19 May 2022 and 2 November 2022.

The Mineral Resource estimate was conducted over the central and southern Tower area located within exploration licences EL09/2357 (Figure 1). This area was identified to represent in-situ weathered regolith plateaus over alkaline gneiss and granites showing defined radiometric anomalism located in the upper catchment of highly anomalous stream geochemical surveys. This area, as well as the Tower West area, have established station tracks which allowed the Company to undertake this drilling quickly and efficiently, while other target areas are less accessible at this time. The area of drilling covered by the Mineral Resource estimate is $5.4 \mathrm{~km}^{2}$ (Tower central and south areas) which represents less than $20 \%$ of the current exploration target identified to be prospective for REE mineralisation.

The Mineral Resource estimate only includes clays and saprolite regolith types. Surface hardcap and basement saprock material has been excluded as no processing alternatives have been tested for this material. The processing of the saprolite is understood and consistent with the Company's knowledge of other IAC and clay hosted deposits, especially those in southern China, Myanmar, and Africa.

In total the Mineral Resource estimate is based on 109 vertical air core holes over the central and south areas of the Tower project. In total 139 drill holes for $3,848 \mathrm{~m}$ of drilling have been completed, with 30 drill holes at Tower West not included in the Mineral Resource estimate (Figure 5). The core area of the Tower prospect is covered by approximately 200 m -spaced drill holes, which provides the confidence to move towards a higher Indicated status within that area. The drill spacing is more sporadic and greater than the 200m distance over much of the Tower West and the southern extent of Tower area.

The area of the JORC classified mineral resource is shown in Figure 1 with several of the block model cross sections over the deposit shown in Figure 2 and 3.

## Summary of Material used to Estimate the Mineral Resources

The following is a summary of the key material information used to estimate the Mineral Resources as required by the JORC 2012 Reporting guidelines and the associated Listing rules. The Mineral Resource estimate was prepared by IHC Mining.

## Mineral Tenement and Land Status

The Tower project is situated within one granted exploration license (EL09/2357), located in the Errabiddy Mt Clere region of the north-western margins of the Yilgarn Craton, Western Australia. The tenement is one of 11 held in the area by the Company, with all in good standing.

The Tower project and all exploration licenses within the areas are 100\% owned by Krakatoa Resources.

## Geology

The Tower deposit is interpreted to be an ionic adsorption REE clay-type deposits like those in South China, Uganda, Madagascar, Myanmar, and others within South America. The mineralisation is contained within the lateritic weathering profile over the bedrock source, consisting of alkaline granitic and gneissic rocks.

These basement rocks are considered to be the original source of the REE which through the process of weathering have accumulated within the pallid clay zones from the breakdown of the basement parent rock. Primary minerals within the basement rocks, such as monazite are then adsorbed as elements on clays (e.g. kaolinite, illite, smectite) and iron oxide surfaces.


Figure 1 Tower Project JORC classification plan with drillhole and cross sections shown


Figure 2 Section 7172100N showing Block Model grade distribution


Figure 3 Section 7171519N showing Block Model grade distrubution

Over extensive time the weathering developed a lateritic regolith with a surface indurated hardcap, followed downward by clay rich zones (pallid Zone) that grade down through saprolite and saprock to unweathered basement rocks. The thickness of the regolith varies to greater than 50 metres and typically starts at surface to around 10 m from surface. The REE mineralisation is concentrated in the weathered profile. This adsorbed REE is the target for extraction and production of REO.

Additional work on the genetic model for REE mineralisation at the Tower projects is ongoing and part of the metallurgical work currently being completed.

## Drilling

In total the Mineral Resource estimate is based on 139 vertical air core holes for 3,848m of drilling, with 109 drill holes over the main Tower Project area and only 30 drill holes at Tower West (Figure 1). The core area of the Tower prospect is covered by approximately 200 m -spaced drill holes, which provides the confidence to indicated status within that area. The drill spacing is more sporadic and greater than the 200 m distance over much of the Tower West and the southern section of the main Tower area.

## Sampling

Aircore (AC) samples were collected at 1 metre intervals and contained in large plastic bags. Samples for geochemical analysis were collected as 2 m to 4 m composites, taken by the spear method, taken from the centre of a complete bag along its entire length, from each 1 m plastic bag. Near the end-of-hole narrower composite sample intervals, usually 3 m to 1 m depending on the depth of the reminder of the hole. A representative sample was taken by spearing from each one metre bulk sample and depositing into calico
bags to create a composited $\sim 3 \mathrm{~kg}$ sample. Additionally, a representative 1 m calico sample was also speared from each bulk sample bag and kept as master sample.

Sample lengths were determined by geological boundaries with a maximum sample length of 1 metre. Field duplicates, certified reference materials and analytical blanks were incorporated into the sample batches and used as part of the QAQC procedures. They were each inserted at a rate of 1:20 samples.

## Sample Analysis

All composited AC samples were prepared and assayed at ALS laboratory Perth Australia. Sample preparation included whole sample weighing, assignment of an identification. A sample of 3 kg or less underwent pulverising to achieve better than $85 \%$ passing 75 microns. Analysis for REE suite on sample pulps was via Lithium Borate Fusion ICP-MS, analysed via ICP-MS (ME-MS81). Elements include $\mathrm{Ba}, \mathrm{Ce}, \mathrm{Cr}$, Cs, Dy, Er, Eu, Ga, Gd, Hf, Ho, La, Lu, Nb, Nd, Pr, Rb, Sm, Sn, Sr, Ta, Tb, Th, Tm, U, V, W, Y, Yb and Zr; with elements analysed at ppm levels. This method is considered a total analysis.

## Estimation Methodology

The geological interpretation utilised lithological logging data, and assay data to guide and control the Mineral Resource estimation.

Datamine Studio RM software was utilised to generate three - dimensional wireframes of the major regolith units. Estimation domains were based on grouping of the regolith domains into 5 zones (inclusive of basement) as defined by regolith rheology, and by comparison of regolith statistics:

- Domain 1 - Lateritic cover zone
- Domain 2 - Silica cap cover zone
- Domain 3 - (Upper/lower) saprolite zone
- Domain 4 - Saprockzone
- Domain 200 - Basement zone

Drill hole sample data was flagged using domain codes generated from three-dimensional mineralisation domains. No residuals were generated. Statistical analysis was carried out on data from all estimated domains, with hard boundary techniques employed within each estimation domain.

No top-cut values were required. A total of 15 REE grade attributes (Y, La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, $\mathrm{Er}, \mathrm{Tm}, \mathrm{Yb}$, and Lu ) and 2 deleterious elements ( U , and Th ) were estimated. Final estimated values are converted to stoichiometric oxide values by calculation using published ratios to support reporting of rare earth oxides (REO).

The grade estimation process was completed using Datamine Studio RM software. Drill hole intervals were de-composited to regular 1m intervals for the interpolation process. Inverse Distance Cubed (ID3) was used to interpolate grade and values into the block model. Ordinary Kriging (OK) was also used to interpolate TREO and TREO- $\mathrm{CeO}_{2}$ as a check against the ID3 interpolation method. The OK check against the ID3 method demonstrated that results of both methodologies were within $\sim 5 \%$ difference which is considered satisfactory and provides additional confidence in the grade interpolation of the resource model. It also demonstrates a good understanding of the geological domains, their constrains and overall grade continuity.

Interpolation parameters were derived using standard exploratory data analysis techniques of statistical and continuity analysis, including variography. The model has a block size of $100 \mathrm{~m}(\mathrm{X})$ by $100 \mathrm{~m}(\mathrm{Y})$ by 1 m
(Z) with sub-celling of $4 \mathrm{~m}(\mathrm{X})$ by $4 \mathrm{~m}(\mathrm{Y})$ by $20 \mathrm{~cm}(\mathrm{Z})$. Inverse Distance Cubed estimation was used with parent cell estimation applied; whereby sub-cells were assigned the grade estimated for the corresponding parent cell volume. A discretisation array of $2 \times 2 \times 1$ was used for the parent cell array. The block model and drill hole file were validated on-screen against the geology and basement wireframes to ensure zone allocation had been correctly assigned. The block model was validated to ensure that the grade interpolation was supported and that the selected block model size and sub-celling was adequate for the estimation process using a combination of visual and statistical techniques including global statistics comparisons, correlation coefficients comparisons, and trend plots.

On-screen validation of the resource estimate was conducted by viewing the coded drill holes against the estimated grades in section and plan. The block model was interrogated in east-west and north-south cross sections with the model viewed at intervals equivalent to the parent cell size. A typical TREO\% mineralisation and domian geometries in east-west cross-section showing the main zones are presented in Figure 2 and Figure 3. These type sections demonstrate that the grade interpolation has been effectively constrained by domain.

## Resource Classification

The JORC Classification has taken into consideration the drill hole spacing in plan view, as well the sample support within domains, the size, weighting and distribution of the sample composites and the variography. The deposit has been assigned a JORC Classification of Indicated and Inferred supported by the criteria:

- geological continuity and volume;
- drill data quality;
- regular drill hole spacing that defines geology and $\mathrm{TREO}-\mathrm{CeO}_{2}$ mineralisation distribution and trends;
- domain controlled variography for $\mathrm{TREO}-\mathrm{CeO}_{2}$ that supports the drill spacing for each of the classifications.
- modelling technique; and
- estimation properties, including search strategy, number of informing sample composites, and average distance of composites from blocks.

The classification of Indicated and Inferred resources was supported by all the criteria noted above. There has been industry standard QA/QC data supporting the assaying process, the use of a specialised and reputable commercial laboratory and the drilling, sampling and assaying procedures overall have fully supported the development of an Indicated and Inferred Mineral Resource Estimate. In addition to the criteria discussed in this section there is also the consideration of cut-off grade used to report the Mineral Resource Estimate. As a Competent Person, IHC Mining Geological Services Manager Greg Jones considers that the Mineral Resource estimate result appropriately reflects a reasonable view of the deposit categorisation.

## Cut-off Grades

The Mineral Resource has been reported above a 300 ppm total rare earth oxide (TREO) minus $\mathrm{CeO}_{2}$ cut-off. The selection of the TREO-CeO ${ }_{2}$ cut-off grade used for reporting was based on the experience of the Competent Person. Given the early stage of investigations at the Tower Project, this cut-off has been selected based on published information from more advanced projects with comparable mineralisation
(i.e., clay-hosted rare earth mineralisation) and conceptual processing methods. It was also understood that the recoveries obtained from the weak acid digestion assay methodology over the fusion assays, showed on average over $80 \%$ recoverable Magnetic REO under the weak acid conditions. The grade tonnage curves show the grade continuity with the reduction in tonnes and grade with increasing cut-off.

Material above this cut-off generates a head feed grade of over 500ppm, and in the opinion of the Competent Person meets the conditions for reporting of a Mineral Resource with reasonable prospects of economic extraction.

## Mining and Metallurgy

Development of this Mineral Resource assumes mining using standard equipment and methods. The assumed mining method is a conventional truck and shovel open pit mining at appropriate bench heights. No specific mining or metallurgical parameters were incorporated into the modelling process. It is known that the recoveries obtained from the weak acid digestion assay methodology over the fusion assays, showed on average over $80 \%$ recoverable Magnetic REO under the weak acid conditions. The Company is undertaking preliminary metallurgical test work on selective materials from the initial drill program.

## Resource Area and Limits

The maiden Mineral Resource estimate has determined classified resources over the Tower project area. Indicated Mineral Resources have been determined where drill spacing is $200 \mathrm{~m} \times 200 \mathrm{~m}$ or closer and has provided adequate data and displayed geological continuity to support this level of confidence.

Inferred Mineral Resources have been determined where the drill spacing is at $400 \mathrm{~m} \times 400 \mathrm{~m}$ spacing and on the margins of the Indicated resource area.

The reported resources only include clay and saprolite regolith types, with surface hardrock and basement material excluded as detailed in the estimated methodology section of this report.

The overall grade distribution is shown in Figure 4
Table 2 details the resource classification level by regolith domain as shown in Figure 1.

Table 2. Mineral Resource by regolith domain (zones)

| Mineral <br> Resource <br> Category | Zone ${ }^{(2)}$ | Material | BD | TREO | TREO-CeO | CREO | LREO | HREO | $\mathbf{U}_{\mathbf{3}} \mathbf{O}_{\mathbf{8}}$ | ThO $_{\mathbf{2}}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| (Mt) | $(\mathrm{gcm} 3)$ | $(\mathrm{ppm})$ | $(\mathrm{ppm})$ | $(\mathrm{ppm})$ | $(\mathrm{ppm})$ | $(\mathrm{ppm})$ | $(\mathrm{ppm})$ | $(\mathrm{ppm})$ |  |  |
| Indicated | 3 | 30 | 1.78 | 860 | 500 | 240 | 670 | 190 | 2 | 29 |
| Indicated | 4 | 10 | 1.78 | 730 | 440 | 220 | 550 | 170 | 1 | 35 |
| Total | Indicated | 40 | 1.78 | 820 | 480 | 230 | 640 | 180 | 1 | 31 |
| Inferred | 3 | 43 | 1.78 | 910 | 570 | 300 | 640 | 270 | 2 | 33 |
| Inferred | 4 | 18 | 1.78 | 710 | 480 | 270 | 460 | 250 | 2 | 31 |
| Total | Inferred | 61 | 1.78 | 850 | 540 | 290 | 590 | 270 | 2 | 32 |
| Grand Total ${ }^{(\mathbf{1})}$ |  | $\mathbf{1 0 1}$ | $\mathbf{1 . 7 8}$ | $\mathbf{8 4 0}$ | $\mathbf{5 2 0}$ | $\mathbf{2 7 0}$ | $\mathbf{6 1 0}$ | $\mathbf{2 3 0}$ | $\mathbf{2}$ | $\mathbf{3 2}$ |

Note
(1) Mineral resources reported at a cut-off grade of 300 ppm TREO-CeO 2
(2) Domain 3 - (Upper/lower) saprolite zone; Domain 4 - Saprock zone


Figure 4 Grade (TREO-CeO 2 ) - Tonnage Curve

## Exploration Target

The Exploration Target for the extended Tower area and the Tower west zones has been estimated using modelling of the recently completed Mineral Resource estimate work and the vertical reconnaissance air core (AC) drill holes assay results with the projection of the mineralisation extending over adjoining geologically prospective areas that have similar basement geology, regolith development, radiometric and spectral indices. The grade and thickness of the mineralisation in these Exploration Target areas is determined from the recent drilling and regolith mapping.

The Exploration Target ranges from 57 to 481 million tonnes grading 530-1050 ppm TREO.
The potential quantity and grade of the Exploration Target is conceptual in nature and is therefore an approximation. There has been insufficient exploration to estimate a Mineral Resource and it is uncertain if further exploration will result in the estimation of a Mineral Resource.

The parameters and assumption of the various input parameters are detailed in Table 3. The area of the Exploration Target is shown in Figure 5.

The geological regolith model was constrained by the limits of the topography, geological signature based on the results of the recent drilling which consisted of 139 vertical holes ( $3,848 \mathrm{~m}$ ). The geological zones highly likely to contain the clay hosted REE mineralisation are interpreted to be areas where alkaline granitic and gneissic basement rocks have well developed thick pallid clay zones. On the flat tops of the topographic highs a well-developed thick lateritic cap is present. This cap is less prominent or absent further down topographical gradient due to erosion. It is postulated that the lower (deeper) more REE enriched clay saprolite zones closer to the basement are still present in the areas of the exploration target.

The modelled target volume outside the area of the current drilling was scaled back to accommodate for any changes within the regolith mineral zonation, specifically the thickness of the mineralised zone. A reduction of thickness of up to a third $(\sim 6 \mathrm{~m})$ of that found in the drilled zones was used for the target estimation.

| Parameter | Comments |
| :--- | :--- |
| Geological model | Based on drill hole regolith logging, assay results, geological mapping, radiometric <br> and spectral imagery |
| Bulk Density | $1.78 \mathrm{~g} / \mathrm{cm}^{3}$ - estimated based on known clay material characteristics and reflects <br> same density as the Mineral resource estimate |
| Number of drill holes, | 139 drill holes in total: 39 logged and assayed over the Tower West area, plus 100 <br> holes drilled and assayed that make up the Mineral resource estimates over the <br> Tower central and southern area; Clay hosted >500ppm TREO intersection identified <br> with geological information |
| Cut-off grades | $200 p p m$ TREO, no other element cut offs were used |$|$| Target grade | $>750$ ppm TREO |
| :--- | :--- |
| Mineralisation zonation | REO zone thickness in drilled areas were averaged and those REO zone thickness <br> outside the drilled area is discounted by ~35-40\% to account for variability in <br> fineralisation zonation due to topographical and basement highs. |

## Current Work Programs

The Company is awaiting the laboratory results from the recent scout reconnaissance auger drilling on the downslope terraces to the southwest of the Tower plateau and areas around the Tower West prospect to determine the extent of mineralisation within these areas and future resource drilling possibilities.

The Company is awaiting the metallurgical diagnostic test work currently being undertaken by ANSTO (Australian's Nuclear Science and Technology Organisation). Additional and extended metallurgical testing programs will be undertaken; specifically expanding on the area distribution. One which represents the entire MRE area will be considered as the next step once the initial test work is known.

The outcome of the Mineral Resource estimate has shown the company it has substantial mineral resources which can be used to move the project into economic studies. We look forward to updating shareholders with a pipeline of news flow as the project develops.
-END-

Authorised for release by the Board.

## FOR FURTHER INFORMATION:

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Figure 5 Map showing the extent of the potential ionic clay hosted REE Exploration Target over satellite image, with drill hole locations and Mineral Resource areas.
www.ktaresources.com

## Competent Person's Statement

The information in this report which relates to Mineral Resources for the Tower rare earth deposit is based upon and fairly represents information compiled by Mr Greg Jones who is a Fellow of the Australasian Institute of Mining and Metallurgy. Mr Jones is a full-time employee of IHC Mining and has sufficient experience relevant to the style of mineralisation, the type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr Jones consents to the inclusion in this report of the matters based on his information in the form and context in which it appears.

The Exploration Target and exploration information in this announcement are based on, and fairly represents information compiled by Mark Major, Krakatoa Resources CEO, who is a Member of the Australasian Institute of Mining and Metallurgy and a full-time employee of Krakatoa Resources. Mr Major has sufficient experience relevant to the style of mineralisation and type of deposit under consideration, and to the activity which he has undertaken, to qualify as a Competent Person as defined in the 2012 Edition of the Joint Ore Reserves Committee (JORC) Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Mr Major consents to the inclusion in this announcement of the matters based on this information in the form and context in which it appears.

## Disclaimer

Forward-looking statements are statements that are not historical facts. Words such as "expect(s)", "feel(s)", "believe(s)", "will", "may", "anticipate(s)" and similar expressions are intended to identify forward-looking statements. These statements include, but are not limited to statements regarding future production, resources or reserves and exploration results. All of such statements are subject to certain risks and uncertainties, many of which are difficult to predict and generally beyond the control of the Company, that could cause actual results to differ materially from those expressed in, or implied or projected by, the forward-looking information and statements. These risks and uncertainties include, but are not limited to: (i) those relating to the interpretation of drill results, the geology, grade and continuity of mineral deposits and conclusions of economic evaluations, (ii) risks relating to possible variations in reserves, grade, planned mining dilution and ore loss, or recovery rates and changes in project parameters as plans continue to be refined, (iii) the potential for delays in exploration or development activities or the completion of feasibility studies, (iv) risks related to commodity price and foreign exchange rate fluctuations, (v) risks related to failure to obtain adequate financing on a timely basis and on acceptable terms or delays in obtaining governmental approvals or in the completion of development or construction activities, and (vi) other risks and uncertainties related to the Company's prospects, properties and business strategy. Our audience is cautioned not to place undue reliance on these forward-looking statements that speak only as of the date hereof, and we do not undertake any obligation to revise and disseminate forward-looking statements to reflect events or circumstances after the date hereof, or to reflect the occurrence of or non-occurrence of any events.

# Appendix 1 -JORC Code, 2012 Edition - Table 1 

## Section 1 Sampling Techniques and Data

| Criteria | JORC Code explanation | Commentary |
| :---: | :---: | :---: |
| Sampling techniques | - Nature and quality of sampling (e.g. cut channels, random chips, or specific specialized 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. <br> - Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used. <br> - Aspects of the determination of mineralisation that are Material to the Public Report. <br> - 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 pulverized 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 may warrant disclosure of detailed information. | - Aircore (AC) holes were collected at 1 metre intervals and contained in large plastic bags. Samples for geochemical analysis were collected as 2 m to 4 m composites, taken by the spear method from each 1 metre plastic bag. Near the end-of-hole narrower composite sample intervals, usually 3 to 1 m depending on the depth of the reminder of the hole. A representative sample was taken by spearing from each one metre bulk sample and depositing into calico bags to create a composited $\sim 3 \mathrm{~kg}$ sample. Additionally, a representative 1 m calico sample was also speared from each bulk sample bag and kept as master sample. <br> - All AC samples were prepped by ALS Global in Perth. <br> - All AC samples were pulverised to $95 \%$ passing 75 microns. <br> - All AC sample weights were recorded. <br> - Lithium Borate Fusion on sample pulps analyzed via ICP-MS (ME-MS81) <br> Elements include: Ba, Ce, Cr, Cs, Dy, Er, Eu, Ga, Gd, Hf, Ho, La, Lu, Nb, Nd, Pr, Rb, Sm, Sn, Sr, Ta, Tb, Th, Tm, U, V, W, Y, $\mathrm{Yb}, \mathrm{Zr}$. |
| Drilling techniques | - Drill type (e.g., core, RC, open-hole hammer, RAB, auger etc.) and details (e.g., 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.). | - AC blade drilling with a face sampling bit, 90 mm nominal hole diameter. |
| Drill sample recovery | - Method of recording and assessing core and chip sample recoveries and results assessed. <br> - Measures taken to maximize sample recovery and ensure representative nature of the samples. <br> - 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. | - AC sample recovery and moisture content was monitored and recorded. <br> - AC sample recovery is ensured by keeping the hole as dry as possible and cleaning the cyclone out at regular intervals. If groundwater couldn't be controlled the holes were terminated. <br> - No relationship has been observed between sample recovery and grade. Sample bias is unlikely due to the good general recovery of sample. |
| Logging | - Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies. <br> - Whether logging is qualitative or quantitative in nature. Core (or costean, channel) photography. <br> - $\quad$ The total length and percentage of the relevant intersections logged. | - All AC 1 metre intervals were qualitatively logged in detail, for particular observations such as weathering, alteration, vein and mineral content a quantitative recording is made. Rock samples were described qualitatively. <br> - The detailed descriptions recorded were more than sufficient in detail to support the current work. |
| Sub-sampling techniques and sample preparation | - If core, whether cut or sawn, whether $1 / 4,1 / 2$ or whole core taken. <br> - If non-core, whether riffled, rotary split, etc. and whether sampled wet or dry. <br> - For all sample types, the nature, quality and appropriateness of the sample preparation technique. <br> - Quality control procedures adopted for all sub-sampling stages to maximize representivity of samples. <br> - 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. <br> - Whether sample sizes are appropriate to the grain size of the material being sampled. | - AC samples are speared from the bulk samples, which are collected in buckets from the rig's cyclone then tipped into plastic bulk sample bags. Sample moisture is recorded. Most samples were dry. <br> - Sample preparation comprises an industry standard of drying and pulverising to - 75 microns ( $85 \%$ passing). Samples over 3 kg were split. <br> - Duplicate field samples, certified reference material samples and blank samples were prepared in the field and submitted to ALS.. <br> - The size of the sample is considered to have been appropriate to the grain size for all holes. |
| Quality of assay | - The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total. | - Samples were transported by road fright direct to ALS Laboratory in Perth Australia. |

## Commentary

data and laboratory tests

For geophysical tools, spectrometers, handheld XRF instruments, etc., the parameters used in determining the analysis including instrument make and

- 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

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.
- All samples were weight, given unique ID (barcodes), underwent high temperature drying, crushed, split with a subsample pulverized (with QC checking ) before being assayed using a Lithium Borate Fusion ICP-MS (ALS Global method ME-MS81); which is considered to be near total digestion and recognised as an industry standard for analysis technique for REE suite and associated elements.
- Field duplicates were collected and submitted at a frequency of 1 per 20 samples
- Blank samples were submitted at a frequency of 1 per 400 samples.
- Certified reference material samples were submitted at a frequency of 1 per 200 samples.
- ALS completed its own internal QA-QC checks that include laboratory repeats
- There is no evidence of systematic analytical bias or errors from these results.
- The nature and quality of the QA-QC and analytical methods are considered appropriate to style of mineralisation at this stage of the project.
- Verification has been undertaken by Company personnel.
- Sample results from previous methods are comparable to those undertaken in both drilling campaigns.
- AC sample data has been recorded in a database with QA-QC analysis of samples undertaken to validate data prior to it being inserted into the database
- Conversion of elemental analysis (REE parts per million) to stoichiometric oxide (REO parts per million) was undertaken by KTA geological staff using the below element to stoichiometric oxide conversion factors.

| Element -Conversion Factor -Oxide Form |  |  |
| :---: | :---: | :---: |
| Ce | 1.2284 | CeO 2 |
| Dy | 1.1477 | Dy203 |
| Er | 1.1435 | Er2O3 |
| Eu | 1.1579 | Eu2O3 |
| Gd | 1.1526 | Gd2O3 |
| Ho | 1.1455 | H02O3 |
| La | 1.1728 | La203 |
| Lu | 1.1371 | Lu203 |
| Nd | 1.1664 | Nd2O3 |
| Pr | 1.2083 | Pr6011 |
| Sm | 1.1596 | Sm2O3 |
| Tb | 1.1762 | Tb407 |
| Tm | 1.1421 | Tm203 |
| Y | 1.2699 | Y2O3 |
| Yb | 1.1387 | Yb2O3 |
| Zr | 1.351 | ZrO2 |

- Rare earth oxide is the industry accepted form for reporting rare earths. The following calculations are used for compiling REO into their reporting and evaluation groups:
- TREO (Total Rare Earth Oxide) $=\mathrm{La} 2 \mathrm{O} 3+\mathrm{CeO} 2+\mathrm{Pr} 6 \mathrm{O} 11+\mathrm{Nd} 2 \mathrm{O} 3+\mathrm{Sm} 2 \mathrm{O} 3+\mathrm{Eu} 2 \mathrm{O} 3+\mathrm{Gd} 2 \mathrm{O} 3+\mathrm{Tb} 4 \mathrm{O} 7+\mathrm{Dy} 2 \mathrm{O} 3+\mathrm{Ho} 2 \mathrm{O} 3+$ $\mathrm{Er} 2 \mathrm{O} 3+\mathrm{Tm} 2 \mathrm{O} 3+\mathrm{Yb} 2 \mathrm{O} 3+\mathrm{Y} 2 \mathrm{O} 3+\mathrm{Lu} 2 \mathrm{O} 3$.
- TREO-Ce = TREO - CeO2
- LREO (Light Rare Earth Oxide) $=\mathrm{La} 2 \mathrm{O} 3+\mathrm{CeO} 2+\mathrm{Pr} 6 \mathrm{O} 11+\mathrm{Nd} 2 \mathrm{O} 3+\mathrm{Sm} 2 \mathrm{O} 3$
- HREO (Heavy Rare Earth Oxide) $=\mathrm{Eu} 2 \mathrm{O} 3+\mathrm{Gd} 2 \mathrm{O} 3+\mathrm{Tb} 4 \mathrm{O} 7+\mathrm{Dy} 2 \mathrm{O} 3+\mathrm{Ho} 2 \mathrm{O} 3+\mathrm{Er} 2 \mathrm{O} 3+\mathrm{Tm} 2 \mathrm{O} 3+\mathrm{Yb} 2 \mathrm{O} 3+\mathrm{Y} 2 \mathrm{O} 3+\mathrm{Lu} 2 \mathrm{O} 3$
- CREO (Critical Rare Earth Oxide) $=\mathrm{Nd} 2 \mathrm{O} 3+\mathrm{Eu} 2 \mathrm{O} 3+\mathrm{Tb} 4 \mathrm{O} 7+\mathrm{Dy} 2 \mathrm{O} 3+\mathrm{Y} 2 \mathrm{O} 3$
- MREO (Magnetic Rare Earth Oxide) $=\mathrm{Pr} 6 \mathrm{O} 11+\mathrm{Nd} 2 \mathrm{O} 3+\mathrm{Tb} 4 \mathrm{O}+\mathrm{Dy} 2 \mathrm{O} 3$.

| Criteria | JORC Code explanation | Commentary |
| :---: | :---: | :---: |
| points | surveys), trenches, mine workings and other locations used in Mineral Resource estimation. <br> - Specification of the grid system used. <br> - Quality and adequacy of topographic control. | - Following this they were surveyed using a Trimble R2 RTX GPS with expected accuracy of 20 mm horizontally and 30 mm vertical. <br> - The grid system used on the Mt Clere Project for all surveys is GDA94 Zone 50. <br> - No downhole surveys were done on the AC holes as all holes were drilled vertically. |
| Data spacing and distribution | - Data spacing for reporting of Exploration Results. <br> - 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. <br> - Whether sample compositing has been applied. | - Analytical data points downhole are sufficient to characterize the nature of the rock and its mineralisation. Drill hole spacings are designed to test specific anomalies relative to ease of access. All are appropriate for exploration results reporting. <br> - The holes were roughly drilled between 150 m to 400 m spacings where drill rig access could be achieved. This spacing has been accounted for in the Mineral Resources estimation and classified as appropriate. <br> - $\quad 2$ to 4 m AC sample composites were nominally taken on site for the AC Drilling, with 1 m samples taken near end of hole. |
| 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. <br> - 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. | - All AC holes were drilled vertically. The holes were designed to test various regolith geology. <br> - The orientation of the mineralisation is typically within the saprolite of the regolith profile, although some areas of the laterite and saprock profiles are mineralised. |
| Sample security | - The measures taken to ensure sample security. | - 2 to 4 metre composite sub-set samples were collected via the riffle splitter into pre-labelled calico bags. Calico bags were placed into polyweave sacks that were sealed with plastic cable ties. The polyweaves were placed into large bulka bags and submitted in four batches. Each batch was transported-frighted to ALS Global Perth in sealed bulka bags. |
| Audits or reviews | - The results of any audits or reviews of sampling techniques and data. | - No audits or reviews have been completed to date. |

## Section 2 Reporting of Exploration Results

| Criteria | JORC Code explanation | Commentary |
| :---: | :---: | :---: |
| Mineral tenement andland tenure status | - Type, reference name/number, location and ownership including agreementsor material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings. <br> - The security of the tenure held at the time of reporting along with any knownimpediments to obtaining a licence to operate in the area. | - The tower project is situated within E09/2537 which is a granted licenses to Krakatoa <br> - The tenements are owned and managed by Krakatoa <br> - The Company holds $100 \%$ interest and all rights in the Mt Clere tenements <br> - All are considered to be in good standing. |
| Exploration by other parties | - Acknowledgment and appraisal of exploration by other parties. | - Various parties have held different parts of the Mt Clere Project in different periods and explored for different commodities over several decades. <br> - The project area was previously explored by BHP, All Star and Astro Mining NL respectively for $\mathrm{Au}, \mathrm{Pb}-$ Zn -Ag mineralisation and diamonds (see ASX announcement 9 October 2020 and 19 June 2019). |
| Geology | - Deposit type, geological setting and style of mineralisation. | - Ionic absorption Clay and Clay hosted rare earth deposit. <br> - The project is focused on multiple REE opportunities, including REE and thorium in enriched monazite sands released from gneissic rocks, REE ion adsorption on clays within the widely preserved deeply weathered lateritic profiles and lastly REE occurring in plausible carbonatites associated with alkaline magmatism. <br> - The project covers regions of structural complexity within the Narryer Terrane in the Yilgarn Craton said to represent reworked remnants of greenstone sequences that are prospective for intrusion-hosted Ni-Cu-(Co)-(PGE's). |

- A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes:
- easting and northing of the drill hole collar
- elevation or RL (Reduced Level - elevation above sea level in metres) ofthe drill hole collar
- dip and azimuth of the hole
- down hole length and interception depth
- hole length
- If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case.
- In reporting Exploration Results, weighting averaging techniques, maximumand/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.


## Relationship

## Diagrams

## Balanced

reporting

## Other

Further work

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 (e.g. 'down hole length, true width not known').
- Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported. These should include, but not be limited to a plan view of drill hole collar locations and sectional views.
- Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be avoid misleading reporting of Exploration Results.
- 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.
- The nature and scale of planned further work (eg tests for lateral extensionsor depth extensions or large-scale step-out drilling).
- Diagrams clearly highlighting the areas of possible extensions, including the
- main geological interpretations and future drilling areas, provided this information is not commercially sensitive.
- No metal equivalents have been used
- Assay results of REE are reported in ppm and the conversion of elemental analysis (REE parts per million) to stoichiometric oxide (REO parts per million) was undertaken using stoichiometric oxide conversion factors
- The AC drilling intercepts are reported as downhole (vertical) widths.
- The mineralisation is interpreted to be horizontal, flat lying within the regolith profile. No solid information is known or available about mineralisation true width.
- The pertinent maps for this stage of Project are included in the release.
- This report contains all drilling results that are consistent with the JORC guidelines. Where data may have been excluded, it is considered not material.
- All new and meaningful material exploration data has been reported.
- Mineralogy and further analysis of additional samples is progressing and will be reported when received
- Further drilling is being considered.
- Maiden JORC Mineral resource estimation is being undertaken..


## Section 3 Estimation and Reporting of Mineral Resources

(Criteria listed in section 1, and where relevant in section 2, also apply to this section.)

Criteria
Database
integrity

Site visits

Geological interpretation

Dimensions

Estimation and modelling techniques

JORC Code explanation

- Measures taken to ensure that data has not been corrupted by, for example, transcription or keying errors, between its initial collection and its use for Mineral Resource estimation purposes.
- Data validation procedures used
- Comment on any site visits undertaken by the Competent Person and the outcome of those visits.
- If no site visits have been undertaken indicate why this is the case.
- Confidence in (or conversely, the uncertainty of) the geological interpretation of the mineral deposit.
- Nature of the data used and of any assumptions made.
- The effect, if any, of alternative interpretations on Mineral Resource estimation.
- The use of geology in guiding and controlling Mineral Resource estimation.
- The factors affecting continuity both of grade and geology.
- The extent and variability of the Mineral Resource expressed as length (along strike or otherwise), plan width, and depth below surface to the upper and lower limits of the Mineral Resource.
- The nature and appropriateness of the estimation technique(s) applied and key assumptions, including treatment of extreme grade values, domaining, interpolation parameters and maximum distance of extrapolation from data points. If a computer assisted estimation method was chosen include a description of computer software and parameters used.
- The availability of check estimates, previous estimates and/or mine production records and whether the Mineral Resource estimate takes appropriate account of such data.
- The assumptions made regarding recovery of by-products.
- Estimation of deleterious elements or other non-grade variables of economic significance (eg sulphur for acid mine drainage characterisation).
- In the case of block model interpolation, the block size in relation to the average sample spacing and the search employed.
- Any assumptions behind modelling of selective mining units.
- Any assumptions about correlation between variables.
- Description of how the geological interpretation was used to control the resource estimates.
- Discussion of basis for using or not using grade cutting or capping.
- The process of validation, the checking process used, the comparison of model data to drill hole data, and use of reconciliation data if available.

Commentary

- Exploration data provided by the company to IHC Mining in the form of Excel files downloaded from the Krakatoa Resources Mt Clere database. Visual screen checks of data to identify duplicate assays and the reproducibility of assays was conducted.
- Database assay values have been subjected to random reconciliation with laboratory certified value is to ensure integrity Visual and statistical comparison was undertaken to check the validity of results
- Mr. Mark Major (CEO) and Mr. Matt Ridgeway (Consultant Geologist) completed regular site visits during the exploration programme activities to observe drilling, sampling and data collection
- The geological interpretation was undertaken by the Company with collaboration from IHC Mining. The geological interpretation was then initially validated by the Companies Exploration Manager and then additionally validated by IHC Mining during the domain wireframe development within the 3D window of Studio RM Datamine software.
- The data spacing and quality is sufficient to support geological and grade continuity. Interpretation of modelling domains was completed using TREO-CeO2, TREO, lithology, and geological logging.
- The Mineral Resource estimate was controlled by the topographic surface, geological surfaces, and basement surface
- Four domains were identified with the target high grade TREO clay unit being defined as Zone 3 and Saprock layer as Zone 4. Both Zone 3 and 4 mineralised zone are geologically continuous across the project area both along and across strike, positioned directly above the basement contact (Zone 200). The Zone 3 and 4 mineralised units have variable grade both along and across strike containing target 'hot-spots' of elevated TREO-CeO2 grades with low Uranium and Thorium values overall. Zone 1 can be defined as a lateritic or hard top which caps the project lithological sequence at surface, continuous both along and across strike. Zone 2 is positioned directly below the Zone 1 lower contact and directly above the Zone 3 upper contact which predominantly consists clayey sand exhibiting variable thicknesses across the project area. The basement (Zone 200) also contains isolated intervals of elevated TREOCeO2 which provides the Company further opportunity to explore potential extraction of TREO
- The mineral Resource field for the Tower central and southern projects is approximately 5.2 km in length and 2.3 km at the widest point.
- The Mineral Resource estimate was conducted using Datamine Studio RM. Inverse Distance Weighting 'ID3' techniques were used to interpolate assay grade from the drill hole samples to interpolate index values and non-numeric sample identification into the block model. Ordinary Kriging was also used to interpolate TREO grade into the block model to be used as a validation check against the inverse distance weighting technique.
- Appropriate and industry standard search ellipses were used to search for data for the interpolation and suitable limitations on the number of samples and the impact of those samples was maintained. The search ellipse was equal in size both along and across strike as no dominant grade strike direction exists for the deposit.
- No assumptions were made during the resource estimation as to the recovery of by-products.
- Further detailed characterisation and leach of ionic clay sample studies are required that may affect the marketability of the mineral products.
- The average parent cell size used for the interpolation was half the dominant drill hole width and half the standard drill hole line spacing.
- No assumptions were made regarding the modelling of selective mining units however it is assumed that a form of dry mining will be undertaken, and the cell size and the sub cell splitting will allow for an appropriate dry mining preliminary reserve to be prepared. Any other mining methodology will be more than adequately catered for with the parent cell size that was selected for the modelling exercise. No assumptions were made about correlation between variables.
- The Mineral Resource estimate was controlled to an extent by the geological/mineralisation and basement surfaces. Grade cutting or capping was not used during the interpolation because of the regular nature of sample spacing.

Moisture
Cut-off parameters

Mining factors or assumptions

## Metallurgical

factors or
assumptions

Environmenta
factors or
assumptions

Bulk density

- Whether the tonnages are estimated on a dry basis or with natural moisture, and the method of determination of the moisture content.
- The basis of the adopted cut-off grade(s) or quality parameters applied
- Assumptions made regarding possible mining methods, minimum mining dimensions and internal (or, if applicable, external) mining dilution. It is always necessary as part of the proces of determining reasonable prospects for eventual economic extraction to consider potential mining methods, but the assumptions made regarding mining methods and parameters when estimating Mineral Resources may not always be rigorous. Where this is the case, this should be reported with an explanation of the basis of the mining assumptions made.
- The basis for assumptions or predictions regarding metallurgical amenability. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider potential metallurgical methods, but the assumptions regarding metallurgical treatment processes and parameters made when reporting Mineral Resources may not always be rigorous. Where this is the case, this should be reported with an explanation of the basis of the metallurgical assumptions made.
- Assumptions made regarding possible waste and process residue disposal options. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider the potential environmental impacts of the mining and processing operation. While at this stage the determination of potential environmental impacts, particularly for a greenfields project, may not always be well advanced, the status of early consideration of these potential environmental impacts should be reported. Where these aspects have not been considered this should be reported with an explanation of the environmental assumptions made.
- Whether assumed or determined. If assumed, the basis for the assumptions. If determined, the method used, whether wet or dry, the frequency of the measurements, the nature, size and representativeness of the samples.
- The bulk density for bulk material must have been measured by methods that adequately account for void spaces (vugs, porosity, etc), moisture and differences between rock and alteration zones within the deposit.
- Discuss assumptions for bulk density estimates used in the evaluation process of the different materials.
- Statistical analysis of composited drill holes by domain was undertaken to compare against the uncomposited data and showed a satisfactory relationship which concluded that grade cutting, or capping was not required at this stage of exploration.
- Validation of grade interpolations were done visually in Datamine Studio RM software by loading model and drill hole files and annotating and colouring and using filtering to check for the appropriateness of interpolations.
- Statistical distributions were prepared for model zones from drill hole and model files to compare the effectiveness of the interpolations. Along strike distributions of section line averages (swathe plots) for drill holes and models were also prepared for comparison purposes.
- Tonnages were estimated on an assumed dry basis
- Cut-off grades for TREO-CeO2 were used to prepare the reported resource estimates. The selection of the TREO-CeO2 cut-off grade used for reporting was based on the experience of the Competent Person and given the early stage of the Tower project, this cut-off grade was selected based on a peer review of publicly available information from more advanced projects with comparable mineralisation styles (i.e., clay hosted rare earth mineralisation) and comparable conceptual processing methods.
- The chosen cut-off grade of TREO-CeO $>300 \mathrm{ppm}$ was used
- No specific mining method is assumed other than potentially the use of dry mining methods
- No metallurgical testing has been completed or provided at this stage. A secondary weak acid digestion laboratory analysis was undertaken on the 2021 drill hole and the variation between the full digestion (Lithium Borate Fusion) and the Weak Acid digestion resulted in a digestion or liberation of up to $90 \%$ of the fusion results. Varying head grades over the area show a greater recovery for TREO levels between 100 to 1100ppm TREO. There are some results as low as $12 \%$.
- These results are based upon Weak Acid Aqua Regia digest (ME-MS41W with MS41W-REE) on sample pulps analyzed via ICP-MS which details are provided in ASX Announcement dated 12 April 2022.
- Metallurgical tests are advancing at ANSTO, examining pH levels between 1 and 4 , to optimise extraction rates and levels versus acid consumption. The results will be utilised in the development of a final process flowsheet. The preliminary test results are encouraging and aligned with expectations for the uniquely clay hosted rare earth minerals at Tower.
- No assumptions have been made regarding possible waste and process residue however the shallow depth of the deposit and the ability to return almost all of the processed material back to the void, enabling progressive rehabilitation, will minimise environmental impacts of mining
- The selected density value of 1.78 was chosen for target mineralised units Zone 3 and Zone 4 was selected based on a review of similar sediment hosted REO deposits with known density values assigned. Average density values for the residual laterite, sandy overburden and basement were used.
- At this stage of exploration, the density values used are considered reasonable for REO deposits.
- It is recommended that future studies include investigations for determining a new bulk density specific to the project target domains to convert volume to tonnes for the sediment hosted REO deposit.


## Commentary

- The basis for the classification of the Mineral Resources into varying confidence categories.
- Whether appropriate account has been taken of all relevant factors (ie relative confidence in tonnage/grade estimations, reliability of input data, confidence in continuity of geology and metal values, quality, quantity and distribution of the data).
- Whether the result appropriately reflects the Competent Person's view of the deposit.

Audits or reviews
Discussion of
relative
accuracy/
confidence

- The results of any audits or reviews of Mineral Resource estimates. Resource estimate using an approach or procedure deemed appropriate by the Competen Person. For example, the application of statistical or geostatistical procedures to quantify the relative accuracy of the resource within stated confidence limits, or, if such an approach is not deemed appropriate, a qualitative discussion of the factors that could affect the relative accuracy and confidence of the estimate.
- The statement should specify whether it relates to global or local estimates, and, if local, state the relevant tonnages, which should be relevant to technical and economic evaluation. Documentation should include assumptions made and the procedures used.
- These statements of relative accuracy and confidence of the estimate should be compared with production data, where available.
- The JORC Mineral Resource Classification for the Tower project was supported by drill hole spacing, geological continuity and variography of TREO, TREO-CeO 2 and CREO of the target mineralised domained Zone 3 and 4 .
- The classification of Indicated and Inferred Resources was supported by all the criteria noted above
- As a Competent Person, IHC Mining Geological Services Manager Greg Jones considers that the result appropriately reflects a reasonable view of the deposit categorisation.
- No audits or reviews of the mineral resource estimate has been undertaken at this point in time
- The overall grade interpolation for this method was considered a reasonable methodology.
- Validation of the model vs drill hole grades by observation, swathe plot and population distribution analysis was favourable. In-fill drilling will likely improve the interpolation results.
- The statement refers to global estimates for the entire known extent of the Tower project. No production data is available for comparison with the project at this point in time


## Appendix 2 - Drill Hole composited data by Mineral Resources

## Domain

| Hole ID | Northing | Easting | Elevation MASL | $\begin{aligned} & \text { FROM } \\ & (\mathrm{m}) \end{aligned}$ | $\begin{aligned} & \text { TO } \\ & \text { (m) } \end{aligned}$ | LENGTH (m) | ZONE | $\begin{aligned} & \text { ThO2 } \\ & \text { (ppm) } \end{aligned}$ | $\begin{aligned} & \text { U308 } \\ & \text { (ppm) } \end{aligned}$ | TREO $($ ppm $)$ <br> (ppm) | $\begin{aligned} & \text { CREO } \\ & \text { (ppm) } \end{aligned}$ | $\begin{aligned} & \text { LREO } \\ & \text { (ppm) } \end{aligned}$ | $\begin{aligned} & \text { HREO } \\ & \text { (ppm) } \end{aligned}$ | $\begin{aligned} & \mathrm{NdPr} \\ & (\mathrm{ppm}) \end{aligned}$ | $\begin{aligned} & \text { TREO- } \\ & \text { CeO2 } \\ & \text { (ppm) } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $21 \mathrm{MAC012}$ | 505263 | 7173055 | 494 | 0 | 4 | 4 | 1 | 21 | 0.7 | 92 | 25 | 72 | 20 | 15 | 57 |
| $21 \mathrm{MAC012}$ | 505263 | 7173055 | 491 | 4 | 6 | 2 | 2 | 37 | 0.7 | 322 | 64 | 287 | 35 | 57 | 176 |
| $21 \mathrm{MAC012}$ | 505263 | 7173055 | 487.5 | 6 | 11 | 5 | 200 | 21 | 0.6 | 282 | 65 | 240 | 42 | 51 | 162 |
| $21 \mathrm{MAC013}$ | 505522 | 7173084 | 491.5 | 0 | 3 | 3 | 1 | 8 | 0.6 | 114 | 26 | 96 | 18 | 19 | 63 |
| $21 \mathrm{MACO13}$ | 505522 | 7173084 | 488.5 | 3 | 6 | 3 | 2 | 5 | 0.4 | 82 | 19 | 69 | 13 | 13 | 48 |
| $21 \mathrm{MAC013}$ | 505522 | 7173084 | 484.5 | 6 | 11 | 5 | 4 | 4 | 0.4 | 109 | 25 | 92 | 17 | 19 | 66 |
| $21 \mathrm{MAC013}$ | 505522 | 7173084 | 481.5 | 11 | 12 | 1 | 200 | 4 | 0.4 | 137 | 32 | 116 | 21 | 25 | 83 |
| 21MAC014 | 505797 | 7173077 | 487 | 0 | 12 | 12 | 1 | 36 | 1.2 | 64 | 22 | 44 | 20 | 11 | 44 |
| 21MAC014 | 505797 | 7173077 | 479 | 12 | 16 | 4 | 2 | 43 | 0.9 | 295 | 85 | 241 | 54 | 68 | 196 |
| 21MAC014 | 505797 | 7173077 | 473.5 | 16 | 23 | 7 | 3 | 37 | 1.1 | 644 | 157 | 517 | 127 | 97 | 319 |
| $21 \mathrm{MAC014}$ | 505797 | 7173077 | 469 | 23 | 25 | 2 | 4 | 39 | 1.2 | 875 | 210 | 711 | 164 | 136 | 434 |
| 21MAC014 | 505797 | 7173077 | 467.5 | 25 | 26 | 1 | 200 | 51 | 1.3 | 772 | 199 | 628 | 143 | 141 | 428 |
| $21 \mathrm{MAC015}$ | 506108 | 7173084 | 483 | 0 | 12 | 12 | 1 | 36 | 1.9 | 166 | 87 | 70 | 96 | 19 | 132 |
| $21 \mathrm{MACO15}$ | 506108 | 7173084 | 473 | 12 | 20 | 8 | 2 | 29 | 1.4 | 221 | 88 | 135 | 86 | 33 | 151 |
| $21 \mathrm{MAC015}$ | 506108 | 7173084 | 467 | 20 | 24 | 4 | 3 | 41 | 1.0 | 570 | 162 | 460 | 110 | 121 | 336 |
| $21 \mathrm{MAC015}$ | 506108 | 7173084 | 459 | 24 | 36 | 12 | 4 | 27 | 1.0 | 578 | 173 | 441 | 137 | 106 | 352 |
| $21 \mathrm{MAC015}$ | 506108 | 7173084 | 450.5 | 36 | 41 | 5 | 200 | 13 | 0.4 | 329 | 130 | 213 | 116 | 62 | 239 |
| $21 \mathrm{MAC016}$ | 506310 | 7173072 | 484 | 0 | 4 | 4 | 1 | 93 | 1.3 | 271 | 151 | 103 | 168 | 26 | 217 |
| $21 \mathrm{MAC016}$ | 506310 | 7173072 | 476 | 4 | 16 | 12 | 2 | 7 | 0.7 | 87 | 31 | 59 | 28 | 14 | 58 |
| $21 \mathrm{MAC016}$ | 506310 | 7173072 | 466 | 16 | 24 | 8 | 3 | 7 | 2.2 | 1264 | 257 | 1019 | 245 | 117 | 486 |
| $21 \mathrm{MAC016}$ | 506310 | 7173072 | 459.5 | 24 | 29 | 5 | 200 | 6 | 0.7 | 454 | 163 | 313 | 141 | 83 | 309 |
| $21 \mathrm{MAC017}$ | 506687 | 7173132 | 474 | 0 | 8 | 8 | 1 | 25 | 1.0 | 870 | 270 | 695 | 174 | 208 | 581 |
| $21 \mathrm{MAC017}$ | 506687 | 7173132 | 465 | 8 | 18 | 10 | 200 | 5 | 0.4 | 417 | 147 | 316 | 101 | 100 | 315 |
| $21 \mathrm{MAC018}$ | 506958 | 7173171 | 476 | 0 | 4 | 4 | 1 | 21 | 1.1 | 86 | 28 | 63 | 23 | 16 | 54 |
| $21 \mathrm{MAC018}$ | 506958 | 7173171 | 468 | 4 | 16 | 12 | 2 | 8 | 0.6 | 83 | 18 | 70 | 14 | 12 | 48 |
| $21 \mathrm{MAC018}$ | 506958 | 7173171 | 459.5 | 16 | 21 | 5 | 3 | 9 | 0.4 | 195 | 50 | 166 | 29 | 42 | 124 |
| $21 \mathrm{MAC018}$ | 506958 | 7173171 | 456.5 | 21 | 22 | 1 | 4 | 4 | 0.3 | 200 | 51 | 168 | 32 | 39 | 127 |
| $21 \mathrm{MACO18}$ | 506958 | 7173171 | 455.5 | 22 | 23 | 1 | 200 | 4 | 0.3 | 200 | 51 | 168 | 32 | 39 | 127 |
| 21MAC019 | 506982 | 7172868 | 476 | 0 | 8 | 8 | 1 | 114 | 1.0 | 372 | 82 | 331 | 41 | 78 | 205 |
| 21MAC019 | 506982 | 7172868 | 471 | 8 | 10 | 2 | 2 | 218 | 1.4 | 1329 | 265 | 1215 | 114 | 277 | 709 |
| 21MAC019 | 506982 | 7172868 | 468.5 | 10 | 13 | 3 | 3 | 167 | 1.1 | 1070 | 212 | 975 | 95 | 218 | 561 |
| 21MAC019 | 506982 | 7172868 | 465 | 13 | 17 | 4 | 4 | 66 | 0.7 | 576 | 112 | 514 | 62 | 103 | 277 |
| 21MAC019 | 506982 | 7172868 | 462 | 17 | 19 | 2 | 200 | 64 | 1.1 | 648 | 126 | 575 | 73 | 113 | 310 |
| 21 MACO 20 | 506687 | 7172852 | 480 | 0 | 6 | 6 | 1 | 156 | 1.2 | 1125 | 216 | 1038 | 87 | 221 | 613 |
| 21 MACO 20 | 506687 | 7172852 | 474.5 | 6 | 11 | 5 | 4 | 120 | 1.1 | 1147 | 233 | 1037 | 110 | 223 | 632 |
| 21MACO20 | 506687 | 7172852 | 471.5 | 11 | 12 | 1 | 200 | 129 | 1.2 | 1081 | 210 | 990 | 91 | 210 | 576 |
| 21 MACO 21 | 506374 | 7172836 | 476.5 | 0 | 9 | 9 | 1 | 32 | 1.5 | 131 | 55 | 77 | 54 | 19 | 92 |
| 21 MACO 21 | 506374 | 7172836 | 466.5 | 9 | 20 | 11 | 2 | 30 | 1.4 | 352 | 104 | 262 | 90 | 54 | 215 |
| 21 MACO 21 | 506374 | 7172836 | 453 | 20 | 36 | 16 | 3 | 39 | 2.2 | 1055 | 411 | 676 | 379 | 186 | 736 |
| 21MACO21 | 506374 | 7172836 | 443 | 36 | 40 | 4 | 4 | 23 | 1.9 | 650 | 313 | 326 | 324 | 93 | 498 |
| $21 \mathrm{MACO21}$ | 506374 | 7172836 | 440.5 | 40 | 41 | 1 | 200 | 71 | 4.0 | 1619 | 893 | 631 | 988 | 188 | 1322 |
| 21 MACO 22 | 506037 | 7172846 | 478.5 | 0 | 9 | 9 | 1 | 32 | 1.9 | 149 | 55 | 101 | 48 | 28 | 102 |
| 21 MACO 22 | 506037 | 7172846 | 466.5 | 9 | 24 | 15 | 2 | 12 | 1.2 | 73 | 21 | 53 | 20 | 10 | 41 |
| $21 \mathrm{MACO22}$ | 506037 | 7172846 | 455 | 24 | 32 | 8 | 4 | 35 | 2.5 | 749 | 135 | 649 | 100 | 95 | 367 |
| 21 MACO 22 | 506037 | 7172846 | 450.5 | 32 | 33 | 1 | 200 | 28 | 4.2 | 1008 | 185 | 826 | 181 | 79 | 345 |
| 21 MACO 23 | 505707 | 7172903 | 484 | 0 | 8 | 8 | 1 | 33 | 1.5 | 98 | 36 | 68 | 31 | 19 | 69 |
| 21 MACO 23 | 505707 | 7172903 | 474 | 8 | 20 | 12 | 2 | 12 | 0.7 | 54 | 13 | 44 | 10 | 8 | 30 |
| 21 MACO 23 | 505707 | 7172903 | 461 | 20 | 34 | 14 | 3 | 53 | 0.8 | 729 | 147 | 640 | 90 | 121 | 364 |
| 21 MACO 23 | 505707 | 7172903 | 453.5 | 34 | 35 | 1 | 4 | 71 | 0.7 | 658 | 164 | 557 | 100 | 128 | 407 |
| 21 MACO 23 | 505707 | 7172903 | 452.5 | 35 | 36 | 1 | 200 | 71 | 0.7 | 658 | 164 | 557 | 100 | 128 | 407 |
| 21 MACO 24 | 505396 | 7172729 | 487 | 0 | 8 | 8 | 1 | 39 | 0.9 | 33 | 11 | 24 | 10 | 6 | 22 |
| 21MAC024 | 505396 | 7172729 | 481 | 8 | 12 | 4 | 2 | 42 | 1.2 | 84 | 19 | 67 | 17 | 10 | 38 |
| $21 \mathrm{MACO24}$ | 505396 | 7172729 | 473.5 | 12 | 23 | 11 | 3 | 76 | 1.2 | 656 | 157 | 544 | 112 | 111 | 360 |
| 21MACO24 | 505396 | 7172729 | 467.5 | 23 | 24 | 1 | 4 | 62 | 1.0 | 945 | 247 | 756 | 189 | 155 | 530 |
| 21 MACO 24 | 505396 | 7172729 | 466.5 | 24 | 25 | 1 | 200 | 32 | 0.6 | 330 | 128 | 227 | 103 | 66 | 244 |


| 21MAC025 | 505610 | 7172490 | 485 | 0 | 4 | 4 | 1 | 24 | 0.9 | 59 | 20 | 42 | 17 | 11 | 40 |
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| 21MAC025 | 505610 | 7172490 | 481 | 4 | 8 | 4 | 2 | 16 | 0.7 | 50 | 12 | 41 | 8 | 9 | 29 |
| 21MAC025 | 505610 | 7172490 | 467 | 8 | 32 | 24 | 3 | 20 | 0.8 | 503 | 94 | 457 | 46 | 90 | 263 |
| 21MAC025 | 505610 | 7172490 | 453.5 | 32 | 35 | 3 | 4 | 24 | 1.3 | 349 | 81 | 301 | 48 | 67 | 202 |
| 21MAC025 | 505610 | 7172490 | 451.5 | 35 | 36 | 1 | 200 | 24 | 1.3 | 349 | 81 | 301 | 48 | 67 | 202 |
| 21MAC026 | 505931 | 7172550 | 482.5 | 0 | 13 | 13 | 1 | 18 | 1.5 | 79 | 27 | 54 | 24 | 13 | 51 |
| 21MAC026 | 505931 | 7172550 | 474.5 | 13 | 16 | 3 | 2 | 17 | 1.0 | 105 | 21 | 90 | 15 | 15 | 47 |
| 21MAC026 | 505931 | 7172550 | 467 | 16 | 28 | 12 | 3 | 49 | 1.0 | 805 | 178 | 707 | 98 | 156 | 448 |
| $21 \mathrm{MAC026}$ | 505931 | 7172550 | 460 | 28 | 30 | 2 | 4 | 197 | 2.9 | 3758 | 863 | 3237 | 522 | 701 | 2094 |
| 21 MACO 26 | 505931 | 7172550 | 458.5 | 30 | 31 | 1 | 200 | 197 | 2.9 | 3758 | 863 | 3237 | 522 | 701 | 2094 |
| $21 \mathrm{MACO27}$ | 506152 | 7172502 | 485 | 0 | 10 | 10 | 1 | 23 | 0.7 | 132 | 37 | 105 | 26 | 25 | 82 |
| $21 \mathrm{MAC027}$ | 506152 | 7172502 | 479 | 10 | 12 | 2 | 2 | 45 | 1.0 | 176 | 43 | 150 | 26 | 35 | 101 |
| $21 \mathrm{MAC027}$ | 506152 | 7172502 | 473 | 12 | 22 | 10 | 3 | 51 | 0.9 | 362 | 87 | 302 | 60 | 64 | 190 |
| $21 \mathrm{MAC027}$ | 506152 | 7172502 | 464 | 22 | 30 | 8 | 4 | 47 | 0.6 | 588 | 139 | 497 | 91 | 108 | 324 |
| $21 \mathrm{MAC027}$ | 506152 | 7172502 | 459.5 | 30 | 31 | 1 | 200 | 77 | 0.8 | 696 | 185 | 584 | 111 | 149 | 438 |
| 21MAC028 | 506256 | 7172321 | 484 | 0 | 8 | 8 | 1 | 119 | 1.4 | 119 | 33 | 94 | 25 | 22 | 70 |
| 21MAC028 | 506256 | 7172321 | 478 | 8 | 12 | 4 | 2 | 43 | 0.7 | 170 | 39 | 149 | 21 | 36 | 98 |
| 21MAC028 | 506256 | 7172321 | 474 | 12 | 16 | 4 | 3 | 76 | 0.8 | 622 | 120 | 569 | 53 | 121 | 315 |
| 21MAC028 | 506256 | 7172321 | 469.5 | 16 | 21 | 5 | 4 | 52 | 0.7 | 528 | 126 | 459 | 69 | 111 | 304 |
| 21 MACO 28 | 506256 | 7172321 | 466.5 | 21 | 22 | 1 | 200 | 17 | 0.3 | 281 | 83 | 220 | 61 | 56 | 173 |
| 21MAC029 | 506517 | 7172462 | 482 | 0 | 8 | 8 | 1 | 60 | 1.5 | 192 | 91 | 95 | 97 | 24 | 142 |
| 21MAC029 | 506517 | 7172462 | 470 | 8 | 24 | 16 | 2 | 32 | 1.5 | 231 | 70 | 176 | 55 | 46 | 144 |
| 21MAC029 | 506517 | 7172462 | 458 | 24 | 32 | 8 | 3 | 16 | 2.5 | 890 | 273 | 682 | 208 | 180 | 568 |
| 21MAC029 | 506517 | 7172462 | 449 | 32 | 42 | 10 | 4 | 18 | 1.8 | 366 | 124 | 258 | 108 | 68 | 242 |
| 21MAC029 | 506517 | 7172462 | 443.5 | 42 | 43 | 1 | 200 | 24 | 1.6 | 415 | 141 | 296 | 119 | 81 | 271 |
| 21MAC030 | 506659 | 7172310 | 485 | 0 | 6 | 6 | 1 | 52 | 1.3 | 193 | 57 | 144 | 49 | 31 | 108 |
| 21MAC030 | 506659 | 7172310 | 479 | 6 | 12 | 6 | 2 | 43 | 1.5 | 358 | 104 | 278 | 80 | 70 | 214 |
| 21 MACO 30 | 506659 | 7172310 | 474 | 12 | 16 | 4 | 3 | 34 | 1.0 | 517 | 134 | 431 | 86 | 109 | 300 |
| 21 MACO 30 | 506659 | 7172310 | 470 | 16 | 20 | 4 | 4 | 13 | 1.0 | 940 | 183 | 782 | 159 | 106 | 364 |
| 21MAC030 | 506659 | 7172310 | 467.5 | 20 | 21 | 1 | 200 | 43 | 1.5 | 758 | 212 | 602 | 156 | 154 | 469 |
| $21 \mathrm{MAC031}$ | 506963 | 7172295 | 477 | 0 | 10 | 10 | 1 | 20 | 1.0 | 93 | 28 | 69 | 23 | 16 | 59 |
| 21MAC031 | 506963 | 7172295 | 467 | 10 | 20 | 10 | 2 | 16 | 0.9 | 143 | 47 | 100 | 43 | 25 | 95 |
| 21MAC031 | 506963 | 7172295 | 459 | 20 | 26 | 6 | 3 | 9 | 0.4 | 333 | 93 | 257 | 76 | 53 | 185 |
| $21 \mathrm{MAC031}$ | 506963 | 7172295 | 455 | 26 | 28 | 2 | 200 | 5 | 0.7 | 378 | 150 | 253 | 125 | 77 | 282 |
| $21 \mathrm{MAC032}$ | 507399 | 7172189 | 477 | 0 | 8 | 8 | 1 | 32 | 1.1 | 80 | 32 | 47 | 33 | 11 | 55 |
| $21 \mathrm{MAC032}$ | 507399 | 7172189 | 467 | 8 | 20 | 12 | 2 | 7 | 0.7 | 63 | 22 | 40 | 23 | 8 | 41 |
| 21MAC032 | 507399 | 7172189 | 459 | 20 | 24 | 4 | 3 | 2 | 0.6 | 679 | 193 | 545 | 133 | 152 | 453 |
| 21 MACO 2 | 507399 | 7172189 | 456 | 24 | 26 | 2 | 4 | 3 | 0.6 | 480 | 200 | 283 | 197 | 73 | 353 |
| 21MAC032 | 507399 | 7172189 | 454 | 26 | 28 | 2 | 200 | 3 | 0.6 | 480 | 200 | 283 | 197 | 73 | 353 |
| $21 \mathrm{MAC033}$ | 506685 | 7172038 | 489 | 0 | 4 | 4 | 1 | 34 | 1.2 | 320 | 107 | 229 | 91 | 59 | 205 |
| 21MAC033 | 506685 | 7172038 | 486 | 4 | 6 | 2 | 2 | 22 | 0.7 | 268 | 71 | 217 | 51 | 49 | 157 |
| $21 \mathrm{MAC033}$ | 506685 | 7172038 | 479 | 6 | 18 | 12 | 200 | 30 | 0.9 | 336 | 87 | 276 | 61 | 63 | 195 |
| 21MAC034 | 506995 | 7171867 | 486.5 | 0 | 5 | 5 | 1 | 17 | 1.2 | 127 | 54 | 71 | 55 | 17 | 91 |
| 21MAC034 | 506995 | 7171867 | 482.5 | 5 | 8 | 3 | 2 | 16 | 1.3 | 202 | 91 | 103 | 99 | 22 | 149 |
| 21MAC034 | 506995 | 7171867 | 473 | 8 | 24 | 16 | 3 | 36 | 1.4 | 638 | 241 | 406 | 232 | 97 | 441 |
| 21MAC034 | 506995 | 7171867 | 463.5 | 24 | 27 | 3 | 4 | 28 | 1.7 | 802 | 416 | 355 | 447 | 103 | 637 |
| 21MAC034 | 506995 | 7171867 | 461.5 | 27 | 28 | 1 | 200 | 28 | 1.7 | 802 | 416 | 355 | 447 | 103 | 637 |
| 21MAC035 | 507226 | 7171817 | 485 | 0 | 4 | 4 | 1 | 19 | 1.2 | 285 | 102 | 199 | 86 | 59 | 194 |
| $21 \mathrm{MAC035}$ | 507226 | 7171817 | 479 | 4 | 12 | 8 | 2 | 22 | 0.8 | 170 | 55 | 126 | 44 | 34 | 108 |
| 21 MACO 35 | 507226 | 7171817 | 471 | 12 | 20 | 8 | 3 | 48 | 1.5 | 506 | 153 | 393 | 113 | 107 | 316 |
| 21MAC035 | 507226 | 7171817 | 464.5 | 20 | 25 | 5 | 200 | 22 | 1.3 | 496 | 183 | 333 | 164 | 94 | 345 |
| 21MAC036 | 507373 | 7171479 | 480.5 | 0 | 7 | 7 | 1 | 74 | 1.6 | 123 | 53 | 68 | 55 | 19 | 92 |
| 21MAC036 | 507373 | 7171479 | 472.5 | 7 | 16 | 9 | 2 | 30 | 1.3 | 300 | 135 | 156 | 144 | 42 | 226 |
| 21MAC036 | 507373 | 7171479 | 463 | 16 | 26 | 10 | 3 | 29 | 1.8 | 630 | 219 | 448 | 182 | 126 | 420 |
| 21MAC036 | 507373 | 7171479 | 457 | 26 | 28 | 2 | 4 | 29 | 1.9 | 935 | 315 | 678 | 258 | 186 | 610 |
| 21MAC036 | 507373 | 7171479 | 454.5 | 28 | 31 | 3 | 200 | 53 | 1.7 | 853 | 304 | 602 | 252 | 178 | 582 |
| $21 \mathrm{MAC037}$ | 507533 | 7171280 | 477 | 0 | 10 | 10 | 1 | 32 | 2.0 | 133 | 55 | 79 | 54 | 22 | 95 |
| $21 \mathrm{MAC037}$ | 507533 | 7171280 | 469 | 10 | 16 | 6 | 2 | 21 | 1.2 | 268 | 64 | 214 | 55 | 37 | 135 |
| $21 \mathrm{MAC037}$ | 507533 | 7171280 | 462 | 16 | 24 | 8 | 3 | 70 | 1.3 | 894 | 184 | 783 | 111 | 158 | 481 |
| $21 \mathrm{MAC037}$ | 507533 | 7171280 | 457 | 24 | 26 | 2 | 4 | 20 | 1.1 | 931 | 301 | 680 | 252 | 178 | 570 |
| $21 \mathrm{MAC037}$ | 507533 | 7171280 | 451 | 26 | 36 | 10 | 200 | 28 | 1.0 | 621 | 217 | 439 | 181 | 120 | 410 |
| $21 \mathrm{MAC038}$ | 507728 | 7171492 | 475 | 0 | 12 | 12 | 1 | 46 | 2.0 | 149 | 62 | 87 | 62 | 23 | 106 |


| 21MAC038 | 507728 | 7171492 | 467 | 12 | 16 | 4 | 2 | 33 | 1.4 | 331 | 105 | 256 | 74 | 76 | 210 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $21 \mathrm{MAC038}$ | 507728 | 7171492 | 458 | 16 | 30 | 14 | 3 | 52 | 1.8 | 765 | 210 | 604 | 161 | 136 | 470 |
| 21MAC038 | 507728 | 7171492 | 445 | 30 | 42 | 12 | 4 | 24 | 1.8 | 638 | 228 | 441 | 197 | 122 | 432 |
| $21 \mathrm{MAC038}$ | 507728 | 7171492 | 437 | 42 | 46 | 4 | 200 | 7 | 0.6 | 358 | 164 | 204 | 154 | 70 | 283 |
| 21MAC039 | 507764 | 7171794 | 478 | 0 | 6 | 6 | 1 | 70 | 2.0 | 173 | 59 | 116 | 57 | 23 | 107 |
| 21MAC039 | 507764 | 7171794 | 468 | 6 | 20 | 14 | 2 | 25 | 1.3 | 257 | 75 | 195 | 62 | 44 | 155 |
| 21MAC039 | 507764 | 7171794 | 455 | 20 | 32 | 12 | 3 | 31 | 1.1 | 619 | 167 | 480 | 139 | 99 | 332 |
| 21 MACO 39 | 507764 | 7171794 | 447 | 32 | 36 | 4 | 4 | 16 | 0.9 | 331 | 132 | 204 | 127 | 56 | 233 |
| 21MAC039 | 507764 | 7171794 | 444.5 | 36 | 37 | 1 | 200 | 13 | 0.8 | 292 | 124 | 169 | 123 | 49 | 211 |
| $22 \mathrm{MAC013}$ | 505469 | 7172919 | 485.5 | 0 | 7 | 7 | 1 | 22 | 0.8 | 143 | 41 | 116 | 27 | 32 | 97 |
| $22 \mathrm{MAC013}$ | 505469 | 7172919 | 473.5 | 7 | 24 | 17 | 2 | 5 | 0.8 | 391 | 104 | 328 | 63 | 88 | 245 |
| $22 \mathrm{MAC013}$ | 505469 | 7172919 | 460 | 24 | 34 | 10 | 3 | 2 | 0.7 | 376 | 126 | 263 | 113 | 62 | 242 |
| $22 \mathrm{MAC013}$ | 505469 | 7172919 | 454.5 | 34 | 35 | 1 | 4 | 2 | 1.3 | 1200 | 190 | 1034 | 166 | 109 | 355 |
| $22 \mathrm{MAC013}$ | 505469 | 7172919 | 453.5 | 35 | 36 | 1 | 200 | 2 | 1.3 | 1200 | 190 | 1034 | 166 | 109 | 355 |
| 22MAC014 | 505698 | 7173037 | 483.5 | 0 | 5 | 5 | 1 | 35 | 1.3 | 155 | 51 | 114 | 41 | 30 | 105 |
| $22 \mathrm{MAC014}$ | 505698 | 7173037 | 472.5 | 5 | 22 | 17 | 2 | 26 | 0.8 | 148 | 31 | 126 | 23 | 22 | 78 |
| $22 \mathrm{MAC014}$ | 505698 | 7173037 | 462 | 22 | 26 | 4 | 3 | 55 | 1.0 | 1081 | 218 | 933 | 148 | 166 | 523 |
| 22MAC014 | 505698 | 7173037 | 459 | 26 | 28 | 2 | 4 | 32 | 0.6 | 595 | 158 | 482 | 113 | 116 | 362 |
| 22MAC014 | 505698 | 7173037 | 457.5 | 28 | 29 | 1 | 200 | 15 | 0.5 | 397 | 156 | 258 | 139 | 69 | 288 |
| 22MAC015 | 505961 | 7173002 | 478.5 | 0 | 13 | 13 | 1 | 25 | 1.4 | 94 | 33 | 65 | 29 | 17 | 62 |
| $22 \mathrm{MAC015}$ | 505961 | 7173002 | 471 | 13 | 15 | 2 | 2 | 5 | 0.8 | 44 | 15 | 32 | 12 | 10 | 33 |
| $22 \mathrm{MAC015}$ | 505961 | 7173002 | 467 | 15 | 21 | 6 | 4 | 3 | 0.8 | 159 | 42 | 127 | 32 | 30 | 93 |
| $22 \mathrm{MAC015}$ | 505961 | 7173002 | 463.5 | 21 | 22 | 1 | 200 | 3 | 0.6 | 478 | 123 | 397 | 81 | 101 | 283 |
| 22MAC016 | 506197 | 7172959 | 481.5 | 0 | 5 | 5 | 1 | 50 | 2.5 | 216 | 79 | 143 | 73 | 36 | 141 |
| 22MAC016 | 506197 | 7172959 | 473.5 | 5 | 16 | 11 | 2 | 20 | 1.5 | 119 | 49 | 69 | 50 | 17 | 86 |
| 22MAC016 | 506197 | 7172959 | 465 | 16 | 22 | 6 | 3 | 42 | 1.8 | 384 | 118 | 287 | 97 | 69 | 249 |
| 22MAC016 | 506197 | 7172959 | 461 | 22 | 24 | 2 | 4 | 5 | 1.7 | 945 | 153 | 795 | 150 | 65 | 277 |
| 22MAC016 | 506197 | 7172959 | 459.5 | 24 | 25 | 1 | 200 | 12 | 2.1 | 4590 | 1096 | 3952 | 639 | 952 | 2576 |
| $22 \mathrm{MAC017}$ | 506507 | 7173009 | 481.5 | 0 | 7 | 7 | 1 | 88 | 1.0 | 163 | 49 | 120 | 43 | 26 | 93 |
| $22 \mathrm{MAC017}$ | 506507 | 7173009 | 470.5 | 7 | 22 | 15 | 2 | 4 | 0.3 | 114 | 32 | 88 | 26 | 21 | 72 |
| $22 \mathrm{MAC017}$ | 506507 | 7173009 | 456 | 22 | 36 | 14 | 3 | 3 | 0.2 | 484 | 154 | 356 | 128 | 92 | 309 |
| $22 \mathrm{MAC017}$ | 506507 | 7173009 | 447 | 36 | 40 | 4 | 4 | 1 | 0.3 | 437 | 221 | 204 | 233 | 68 | 344 |
| $22 \mathrm{MAC017}$ | 506507 | 7173009 | 444.5 | 40 | 41 | 1 | 200 | 7 | 1.0 | 486 | 182 | 330 | 156 | 100 | 326 |
| $22 \mathrm{MAC018}$ | 506860 | 7172991 | 467 | 0 | 8 | 8 | 1 | 48 | 1.2 | 139 | 57 | 83 | 57 | 21 | 98 |
| $22 \mathrm{MAC018}$ | 506860 | 7172991 | 457 | 8 | 20 | 12 | 2 | 5 | 0.4 | 134 | 42 | 104 | 30 | 31 | 101 |
| $22 \mathrm{MAC018}$ | 506860 | 7172991 | 449 | 20 | 24 | 4 | 3 | 2 | 0.3 | 515 | 179 | 383 | 132 | 118 | 392 |
| $22 \mathrm{MAC018}$ | 506860 | 7172991 | 442.5 | 24 | 33 | 9 | 4 | 1 | 0.3 | 409 | 149 | 281 | 128 | 73 | 281 |
| 22MAC018 | 506860 | 7172991 | 437.5 | 33 | 34 | 1 | 200 | 4 | 0.5 | 311 | 99 | 235 | 76 | 61 | 195 |
| 22MAC019 | 507110 | 7173035 | 464 | 0 | 10 | 10 | 1 | 78 | 1.5 | 151 | 40 | 122 | 28 | 29 | 93 |
| 22MAC019 | 507110 | 7173035 | 456 | 10 | 16 | 6 | 2 | 9 | 1.0 | 213 | 59 | 167 | 46 | 41 | 135 |
| 22MAC019 | 507110 | 7173035 | 447 | 16 | 28 | 12 | 3 | 17 | 1.2 | 488 | 171 | 349 | 139 | 102 | 348 |
| 22MAC019 | 507110 | 7173035 | 438.5 | 28 | 33 | 5 | 4 | 22 | 0.9 | 498 | 160 | 359 | 138 | 85 | 310 |
| 22MAC019 | 507110 | 7173035 | 435.5 | 33 | 34 | 1 | 200 | 6 | 0.5 | 300 | 86 | 233 | 67 | 57 | 184 |
| 22MAC020 | 507214 | 7173377 | 463 | 0 | 2 | 2 | 1 | 12 | 1.0 | 155 | 38 | 127 | 28 | 26 | 92 |
| 22MAC020 | 507214 | 7173377 | 456 | 2 | 14 | 12 | 200 | 12 | 0.8 | 415 | 113 | 338 | 78 | 82 | 243 |
| $22 \mathrm{MAC021}$ | 507384 | 7173218 | 471.5 | 0 | 7 | 7 | 1 | 49 | 2.1 | 145 | 44 | 107 | 38 | 24 | 84 |
| $22 \mathrm{MAC021}$ | 507384 | 7173218 | 461 | 7 | 21 | 14 | 2 | 31 | 1.3 | 116 | 35 | 86 | 30 | 19 | 73 |
| 22MAC021 | 507384 | 7173218 | 443.5 | 21 | 42 | 21 | 3 | 54 | 2.0 | 1121 | 302 | 926 | 195 | 231 | 701 |
| 22MAC021 | 507384 | 7173218 | 431 | 42 | 46 | 4 | 4 | 5 | 0.4 | 162 | 53 | 119 | 43 | 32 | 103 |
| 22MAC021 | 507384 | 7173218 | 428.5 | 46 | 47 | 1 | 200 | 4 | 0.4 | 156 | 51 | 114 | 42 | 30 | 100 |
| 22MAC022 | 507420 | 7173084 | 469 | 0 | 8 | 8 | 1 | 29 | 1.8 | 189 | 63 | 138 | 51 | 37 | 123 |
| 22MAC022 | 507420 | 7173084 | 458 | 8 | 22 | 14 | 2 | 33 | 1.6 | 172 | 43 | 138 | 34 | 26 | 92 |
| $22 \mathrm{MAC022}$ | 507420 | 7173084 | 444 | 22 | 36 | 14 | 3 | 86 | 1.7 | 1042 | 265 | 867 | 175 | 204 | 613 |
| 22 MACO 22 | 507420 | 7173084 | 435.5 | 36 | 39 | 3 | 4 | 35 | 1.1 | 450 | 153 | 321 | 129 | 86 | 291 |
| 22MAC022 | 507420 | 7173084 | 433.5 | 39 | 40 | 1 | 200 | 60 | 1.9 | 831 | 295 | 576 | 254 | 158 | 544 |
| 22MAC023 | 507126 | 7172847 | 471.5 | 0 | 7 | 7 | 1 | 35 | 1.2 | 185 | 50 | 150 | 35 | 36 | 113 |
| $22 \mathrm{MAC023}$ | 507126 | 7172847 | 466.5 | 7 | 10 | 3 | 2 | 6 | 0.8 | 148 | 35 | 127 | 21 | 29 | 89 |
| $22 \mathrm{MAC023}$ | 507126 | 7172847 | 463.5 | 10 | 13 | 3 | 3 | 2 | 0.9 | 113 | 29 | 91 | 22 | 18 | 64 |
| $22 \mathrm{MAC023}$ | 507126 | 7172847 | 461.5 | 13 | 14 | 1 | 4 | 2 | 0.9 | 183 | 36 | 155 | 29 | 22 | 91 |
| 22MAC023 | 507126 | 7172847 | 460.5 | 14 | 15 | 1 | 200 | 2 | 0.6 | 99 | 20 | 84 | 15 | 12 | 53 |
| 22MAC024 | 506889 | 7172763 | 477.5 | 0 | 3 | 3 | 1 | 43 | 1.3 | 120 | 38 | 88 | 31 | 22 | 77 |
| 22MAC024 | 506889 | 7172763 | 470.5 | 3 | 14 | 11 | 2 | 39 | 1.0 | 250 | 63 | 211 | 39 | 53 | 150 |


| 22MAC024 | 506889 | 7172763 | 461 | 14 | 22 | 8 | 3 | 2 | 0.4 | 785 | 187 | 642 | 143 | 122 | 390 |
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| 22MAC024 | 506889 | 7172763 | 455.5 | 22 | 25 | 3 | 4 | 2 | 0.4 | 404 | 145 | 297 | 107 | 92 | 313 |
| 22MAC024 | 506889 | 7172763 | 453.5 | 25 | 26 | 1 | 200 | 4 | 0.5 | 457 | 178 | 321 | 137 | 105 | 384 |
| 22MACO25 | 506595 | 7172726 | 475.5 | 0 | 7 | 7 | 1 | 57 | 1.4 | 126 | 42 | 89 | 36 | 23 | 83 |
| 22MAC025 | 506595 | 7172726 | 467.5 | 7 | 16 | 9 | 2 | 17 | 1.2 | 46 | 14 | 33 | 13 | 8 | 29 |
| 22MAC025 | 506595 | 7172726 | 461 | 16 | 20 | 4 | 3 | 24 | 1.6 | 322 | 69 | 277 | 45 | 56 | 161 |
| 22MAC025 | 506595 | 7172726 | 456.5 | 20 | 25 | 5 | 4 | 17 | 1.1 | 392 | 81 | 328 | 64 | 53 | 176 |
| 22MACO25 | 506595 | 7172726 | 453.5 | 25 | 26 | 1 | 200 | 59 | 1.3 | 746 | 187 | 620 | 126 | 143 | 428 |
| 22 MACO 26 | 506226 | 7172793 | 479 | 0 | 4 | 4 | 1 | 60 | 1.5 | 156 | 50 | 116 | 40 | 29 | 100 |
| 22 MACO 26 | 506226 | 7172793 | 470 | 4 | 18 | 14 | 2 | 9 | 0.7 | 104 | 23 | 87 | 17 | 16 | 57 |
| 22 MACO 26 | 506226 | 7172793 | 457 | 18 | 30 | 12 | 3 | 1 | 0.6 | 769 | 260 | 551 | 218 | 147 | 510 |
| 22 MACO 26 | 506226 | 7172793 | 450.5 | 30 | 31 | 1 | 4 | 1 | 0.4 | 277 | 117 | 174 | 103 | 53 | 221 |
| 22MAC026 | 506226 | 7172793 | 449.5 | 31 | 32 | 1 | 200 | 1 | 0.4 | 277 | 117 | 174 | 103 | 53 | 221 |
| 22 MACO 27 | 505879 | 7172793 | 481 | 0 | 6 | 6 | 1 | 26 | 1.7 | 174 | 59 | 126 | 48 | 33 | 112 |
| $22 \mathrm{MACO27}$ | 505879 | 7172793 | 471 | 6 | 20 | 14 | 2 | 34 | 1.2 | 157 | 40 | 131 | 26 | 32 | 96 |
| $22 \mathrm{MACO27}$ | 505879 | 7172793 | 462 | 20 | 24 | 4 | 3 | 5 | 1.8 | 357 | 104 | 292 | 64 | 85 | 232 |
| $22 \mathrm{MACO27}$ | 505879 | 7172793 | 459 | 24 | 26 | 2 | 4 | 8 | 1.6 | 375 | 99 | 302 | 74 | 69 | 210 |
| $22 \mathrm{MACO27}$ | 505879 | 7172793 | 457.5 | 26 | 27 | 1 | 200 | 23 | 1.5 | 2010 | 517 | 1722 | 289 | 456 | 1268 |
| 22MACO28 | 505584 | 7172789 | 472.5 | 0 | 7 | 7 | 1 | 46 | 1.7 | 179 | 56 | 135 | 43 | 35 | 112 |
| 22 MACO 28 | 505584 | 7172789 | 463.5 | 7 | 18 | 11 | 2 | 9 | 0.8 | 76 | 14 | 65 | 11 | 9 | 43 |
| 22 MACO 28 | 505584 | 7172789 | 455.5 | 18 | 23 | 5 | 3 | 12 | 0.9 | 726 | 157 | 635 | 91 | 136 | 435 |
| 22 MACO 28 | 505584 | 7172789 | 452.5 | 23 | 24 | 1 | 4 | 12 | 1.1 | 657 | 171 | 507 | 149 | 88 | 330 |
| 22 MACO 28 | 505584 | 7172789 | 451.5 | 24 | 25 | 1 | 200 | 17 | 0.6 | 456 | 129 | 361 | 95 | 83 | 269 |
| 22MAC029 | 505523 | 7172600 | 455 | 0 | 2 | 2 | 1 | 25 | 1.3 | 352 | 55 | 323 | 28 | 51 | 186 |
| 22MACO29 | 505523 | 7172600 | 446 | 2 | 18 | 16 | 2 | 10 | 1.5 | 461 | 81 | 426 | 35 | 83 | 251 |
| 22MACO29 | 505523 | 7172600 | 434 | 18 | 26 | 8 | 3 | 6 | 1.2 | 1417 | 300 | 1286 | 131 | 295 | 765 |
| 22MAC029 | 505523 | 7172600 | 428 | 26 | 30 | 4 | 4 | 8 | 1.3 | 1209 | 281 | 1074 | 135 | 262 | 661 |
| 22 MACO 29 | 505523 | 7172600 | 425.5 | 30 | 31 | 1 | 200 | 10 | 1.3 | 1236 | 268 | 1123 | 113 | 265 | 661 |
| 22 MACO 30 | 505729 | 7172650 | 479 | 0 | 8 | 8 | 1 | 31 | 1.4 | 138 | 43 | 104 | 34 | 26 | 89 |
| 22 MACO 30 | 505729 | 7172650 | 471 | 8 | 16 | 8 | 2 | 4 | 0.5 | 126 | 20 | 112 | 14 | 15 | 59 |
| 22 MACO 30 | 505729 | 7172650 | 462 | 16 | 26 | 10 | 3 | 8 | 0.6 | 365 | 102 | 291 | 74 | 73 | 231 |
| 22MAC030 | 505729 | 7172650 | 456 | 26 | 28 | 2 | 4 | 3 | 0.5 | 566 | 156 | 395 | 171 | 43 | 267 |
| 22 MACO 30 | 505729 | 7172650 | 454.5 | 28 | 29 | 1 | 200 | 1 | 0.5 | 347 | 103 | 244 | 103 | 40 | 185 |
| 22 MACO 31 | 505825 | 7172468 | 479.5 | 0 | 5 | 5 | 1 | 33 | 1.2 | 76 | 23 | 57 | 19 | 12 | 50 |
| 22MAC031 | 505825 | 7172468 | 473.5 | 5 | 12 | 7 | 2 | 15 | 0.8 | 143 | 28 | 122 | 21 | 19 | 64 |
| 22MAC031 | 505825 | 7172468 | 467 | 12 | 18 | 6 | 3 | 12 | 0.7 | 154 | 39 | 129 | 25 | 30 | 89 |
| 22MAC031 | 505825 | 7172468 | 462 | 18 | 22 | 4 | 200 | 28 | 1.6 | 814 | 170 | 671 | 144 | 96 | 340 |
| 22 MACO 32 | 506078 | 7172657 | 476.5 | 0 | 9 | 9 | 1 | 27 | 1.0 | 108 | 32 | 84 | 24 | 20 | 66 |
| 22 MACO 32 | 506078 | 7172657 | 469.5 | 9 | 14 | 5 | 2 | 6 | 1.1 | 123 | 34 | 101 | 22 | 26 | 84 |
| 22 MACO 2 | 506078 | 7172657 | 458 | 14 | 32 | 18 | 3 | 7 | 0.7 | 509 | 140 | 405 | 104 | 92 | 310 |
| 22 MACO 32 | 506078 | 7172657 | 448 | 32 | 34 | 2 | 200 | 5 | 0.5 | 394 | 124 | 308 | 86 | 86 | 290 |
| 22 MACO 33 | 506325 | 7172625 | 477 | 0 | 10 | 10 | 1 | 18 | 1.5 | 93 | 38 | 55 | 38 | 15 | 67 |
| 22 MACO 33 | 506325 | 7172625 | 471 | 10 | 12 | 2 | 2 | 10 | 1.3 | 84 | 38 | 44 | 39 | 13 | 65 |
| 22 MACO 33 | 506325 | 7172625 | 469 | 12 | 14 | 2 | 3 | 9 | 0.8 | 315 | 110 | 227 | 88 | 61 | 232 |
| 22 MACO 33 | 506325 | 7172625 | 466 | 14 | 18 | 4 | 4 | 14 | 0.8 | 299 | 95 | 220 | 79 | 56 | 188 |
| 22 MACO 33 | 506325 | 7172625 | 463.5 | 18 | 19 | 1 | 200 | 10 | 1.0 | 274 | 84 | 209 | 65 | 56 | 175 |
| 22MAC034 | 506474 | 7172588 | 471 | 0 | 10 | 10 | 1 | 56 | 1.6 | 252 | 109 | 143 | 109 | 40 | 183 |
| 22MAC034 | 506474 | 7172588 | 464 | 10 | 14 | 4 | 2 | 28 | 1.8 | 294 | 110 | 192 | 102 | 52 | 201 |
| 22MAC034 | 506474 | 7172588 | 452 | 14 | 34 | 20 | 3 | 26 | 2.4 | 892 | 274 | 689 | 203 | 187 | 582 |
| 22 MACO 34 | 506474 | 7172588 | 441.5 | 34 | 35 | 1 | 4 | 9 | 1.3 | 481 | 182 | 338 | 143 | 106 | 368 |
| 22MAC034 | 506474 | 7172588 | 440.5 | 35 | 36 | 1 | 200 | 9 | 1.3 | 481 | 182 | 338 | 143 | 106 | 368 |
| 22MAC035 | 506327 | 7172469 | 479.5 | 0 | 5 | 5 | 1 | 119 | 2.2 | 174 | 53 | 129 | 46 | 29 | 104 |
| 22 MACO 55 | 506327 | 7172469 | 473.5 | 5 | 12 | 7 | 2 | 43 | 1.1 | 98 | 29 | 74 | 23 | 18 | 63 |
| 22 MACO 35 | 506327 | 7172469 | 466 | 12 | 20 | 8 | 3 | 57 | 1.5 | 657 | 161 | 544 | 113 | 122 | 404 |
| 22MAC035 | 506327 | 7172469 | 460 | 20 | 24 | 4 | 4 | 33 | 1.6 | 1367 | 439 | 1035 | 332 | 284 | 923 |
| 22 MACO 55 | 506327 | 7172469 | 457.5 | 24 | 25 | 1 | 200 | 21 | 1.1 | 372 | 108 | 296 | 77 | 76 | 237 |
| 22MAC036 | 506447 | 7172293 | 481 | 0 | 4 | 4 | 1 | 56 | 1.6 | 336 | 77 | 285 | 51 | 60 | 192 |
| 22MAC036 | 506447 | 7172293 | 475 | 4 | 12 | 8 | 2 | 57 | 1.6 | 362 | 93 | 286 | 76 | 55 | 233 |
| $22 \mathrm{MAC036}$ | 506447 | 7172293 | 466 | 12 | 22 | 10 | 3 | 53 | 1.8 | 754 | 174 | 635 | 120 | 131 | 388 |
| $22 \mathrm{MAC036}$ | 506447 | 7172293 | 459.5 | 22 | 25 | 3 | 4 | 41 | 1.1 | 600 | 179 | 475 | 125 | 132 | 392 |
| 22MAC036 | 506447 | 7172293 | 457.5 | 25 | 26 | 1 | 200 | 24 | 0.9 | 472 | 158 | 342 | 130 | 94 | 319 |
| $22 \mathrm{MAC037}$ | 506710 | 7172462 | 474 | 0 | 6 | 6 | 1 | 29 | 1.5 | 94 | 40 | 54 | 40 | 14 | 68 |


| 22MAC037 | 506710 | 7172462 | 466 | 6 | 16 | 10 | 2 | 13 | 1.1 | 82 | 16 | 67 | 15 | 9 | 33 |
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| $22 \mathrm{MAC037}$ | 506710 | 7172462 | 454 | 16 | 30 | 14 | 3 | 13 | 3.4 | 1924 | 600 | 1462 | 462 | 381 | 1200 |
| $22 \mathrm{MAC037}$ | 506710 | 7172462 | 445.5 | 30 | 33 | 3 | 4 | 2 | 1.2 | 169 | 60 | 115 | 54 | 27 | 115 |
| $22 \mathrm{MAC037}$ | 506710 | 7172462 | 443.5 | 33 | 34 | 1 | 200 | 2 | 1.4 | 121 | 45 | 76 | 45 | 16 | 84 |
| 22MAC038 | 506873 | 7172365 | 474 | 0 | 4 | 4 | 1 | 31 | 1.0 | 94 | 31 | 67 | 27 | 16 | 62 |
| $22 \mathrm{MAC038}$ | 506873 | 7172365 | 467 | 4 | 14 | 10 | 2 | 25 | 0.6 | 126 | 36 | 100 | 26 | 26 | 81 |
| 22MAC038 | 506873 | 7172365 | 461 | 14 | 16 | 2 | 3 | 52 | 1.0 | 448 | 105 | 386 | 61 | 91 | 267 |
| 22MAC038 | 506873 | 7172365 | 458 | 16 | 20 | 4 | 4 | 42 | 1.1 | 478 | 109 | 401 | 78 | 79 | 249 |
| 22MAC038 | 506873 | 7172365 | 455.5 | 20 | 21 | 1 | 200 | 7 | 0.3 | 282 | 104 | 186 | 96 | 49 | 188 |
| 22MAC039 | 506998 | 7172591 | 470 | 0 | 6 | 6 | 1 | 21 | 0.9 | 144 | 41 | 112 | 32 | 27 | 87 |
| 22MAC039 | 506998 | 7172591 | 466 | 6 | 8 | 2 | 2 | 38 | 1.0 | 309 | 67 | 271 | 38 | 57 | 164 |
| 22MAC039 | 506998 | 7172591 | 462 | 8 | 14 | 6 | 3 | 59 | 1.4 | 347 | 78 | 308 | 39 | 72 | 198 |
| 22MAC039 | 506998 | 7172591 | 458 | 14 | 16 | 2 | 4 | 39 | 1.3 | 365 | 85 | 320 | 45 | 77 | 205 |
| 22MAC039 | 506998 | 7172591 | 456.5 | 16 | 17 | 1 | 200 | 25 | 1.2 | 261 | 68 | 221 | 41 | 57 | 161 |
| $22 \mathrm{MACO40}$ | 507201 | 7172599 | 472 | 0 | 10 | 10 | 1 | 15 | 1.0 | 136 | 36 | 111 | 24 | 27 | 86 |
| 22MAC040 | 507201 | 7172599 | 464 | 10 | 16 | 6 | 2 | 3 | 1.1 | 373 | 94 | 319 | 55 | 78 | 230 |
| $22 \mathrm{MAC040}$ | 507201 | 7172599 | 457 | 16 | 24 | 8 | 3 | 6 | 0.9 | 719 | 207 | 580 | 139 | 154 | 432 |
| 22MAC040 | 507201 | 7172599 | 452 | 24 | 26 | 2 | 4 | 2 | 0.6 | 486 | 208 | 292 | 194 | 91 | 352 |
| 22MAC040 | 507201 | 7172599 | 450.5 | 26 | 27 | 1 | 200 | 1 | 0.4 | 411 | 184 | 238 | 173 | 77 | 299 |
| 22MAC041 | 507402 | 7172674 | 472 | 0 | 10 | 10 | 1 | 82 | 1.4 | 350 | 84 | 300 | 50 | 71 | 196 |
| 22MAC041 | 507402 | 7172674 | 462 | 10 | 20 | 10 | 2 | 19 | 1.2 | 199 | 62 | 147 | 52 | 36 | 133 |
| 22MAC041 | 507402 | 7172674 | 452 | 20 | 30 | 10 | 3 | 9 | 2.1 | 773 | 272 | 566 | 208 | 174 | 540 |
| 22MAC041 | 507402 | 7172674 | 446 | 30 | 32 | 2 | 4 | 9 | 1.0 | 261 | 91 | 190 | 71 | 55 | 171 |
| 22MAC041 | 507402 | 7172674 | 444.5 | 32 | 33 | 1 | 200 | 29 | 1.0 | 311 | 93 | 246 | 65 | 66 | 195 |
| $22 \mathrm{MAC042}$ | 507545 | 7172819 | 465 | 0 | 6 | 6 | 1 | 59 | 2.2 | 169 | 78 | 89 | 81 | 24 | 127 |
| $22 \mathrm{MACO42}$ | 507545 | 7172819 | 457 | 6 | 16 | 10 | 2 | 42 | 1.3 | 507 | 227 | 276 | 231 | 76 | 369 |
| $22 \mathrm{MACO42}$ | 507545 | 7172819 | 449 | 16 | 22 | 6 | 3 | 57 | 1.7 | 801 | 321 | 496 | 305 | 139 | 560 |
| 22MAC042 | 507545 | 7172819 | 444 | 22 | 26 | 4 | 4 | 96 | 1.5 | 1003 | 324 | 745 | 258 | 208 | 644 |
| $22 \mathrm{MAC043}$ | 507703 | 7172960 | 462 | 0 | 6 | 6 | 1 | 65 | 2.2 | 228 | 77 | 166 | 63 | 46 | 147 |
| $22 \mathrm{MAC043}$ | 507703 | 7172960 | 451 | 6 | 22 | 16 | 2 | 7 | 0.9 | 119 | 33 | 91 | 27 | 20 | 65 |
| $22 \mathrm{MACO43}$ | 507703 | 7172960 | 436 | 22 | 36 | 14 | 3 | 30 | 3.3 | 1114 | 272 | 915 | 199 | 191 | 575 |
| $22 \mathrm{MAC043}$ | 507703 | 7172960 | 428 | 36 | 38 | 2 | 4 | 98 | 1.6 | 967 | 239 | 825 | 142 | 190 | 566 |
| $22 \mathrm{MAC043}$ | 507703 | 7172960 | 426.5 | 38 | 39 | 1 | 200 | 59 | 1.0 | 449 | 114 | 374 | 75 | 86 | 256 |
| 22MAC044 | 507832 | 7173087 | 465 | 0 | 6 | 6 | 1 | 36 | 1.6 | 156 | 55 | 108 | 48 | 28 | 101 |
| 22MAC044 | 507832 | 7173087 | 456 | 6 | 18 | 12 | 2 | 17 | 1.1 | 143 | 43 | 109 | 34 | 25 | 95 |
| 22MAC044 | 507832 | 7173087 | 444 | 18 | 30 | 12 | 3 | 5 | 1.1 | 998 | 275 | 821 | 176 | 212 | 598 |
| 22MAC044 | 507832 | 7173087 | 434.5 | 30 | 37 | 7 | 4 | 4 | 0.9 | 401 | 131 | 301 | 100 | 81 | 255 |
| 22MAC044 | 507832 | 7173087 | 430.5 | 37 | 38 | 1 | 200 | 3 | 0.8 | 398 | 139 | 285 | 114 | 77 | 261 |
| 22MAC045 | 508062 | 7173122 | 457 | 0 | 14 | 14 | 1 | 11 | 1.4 | 94 | 30 | 69 | 25 | 17 | 59 |
| $22 \mathrm{MACO45}$ | 508062 | 7173122 | 446 | 14 | 22 | 8 | 2 | 5 | 1.2 | 197 | 61 | 151 | 46 | 39 | 129 |
| 22MAC045 | 508062 | 7173122 | 438 | 22 | 30 | 8 | 3 | 3 | 0.9 | 522 | 159 | 413 | 110 | 113 | 322 |
| 22MAC045 | 508062 | 7173122 | 430.5 | 30 | 37 | 7 | 4 | 2 | 0.8 | 349 | 109 | 270 | 79 | 72 | 217 |
| $22 \mathrm{MACO45}$ | 508062 | 7173122 | 426.5 | 37 | 38 | 1 | 200 | 3 | 0.8 | 359 | 118 | 270 | 88 | 72 | 227 |
| $22 \mathrm{MACO46}$ | 508047 | 7172916 | 456 | 0 | 8 | 8 | 1 | 21 | 1.4 | 168 | 42 | 133 | 35 | 24 | 103 |
| 22MAC046 | 508047 | 7172916 | 447 | 8 | 18 | 10 | 2 | 17 | 0.8 | 162 | 41 | 133 | 29 | 30 | 100 |
| $22 \mathrm{MAC046}$ | 508047 | 7172916 | 428 | 18 | 46 | 28 | 3 | 6 | 0.9 | 608 | 164 | 482 | 126 | 105 | 325 |
| 22MAC046 | 508047 | 7172916 | 413 | 46 | 48 | 2 | 4 | 3 | 0.6 | 322 | 100 | 249 | 74 | 67 | 201 |
| $22 \mathrm{MAC046}$ | 508047 | 7172916 | 411.5 | 48 | 49 | 1 | 200 | 3 | 0.7 | 343 | 114 | 253 | 89 | 70 | 219 |
| $22 \mathrm{MAC047}$ | 507867 | 7172770 | 456 | 0 | 2 | 2 | 1 | 29 | 1.3 | 130 | 39 | 101 | 30 | 25 | 81 |
| $22 \mathrm{MAC047}$ | 507867 | 7172770 | 447 | 2 | 18 | 16 | 2 | 3 | 0.5 | 105 | 25 | 86 | 19 | 17 | 60 |
| $22 \mathrm{MAC047}$ | 507867 | 7172770 | 436 | 18 | 24 | 6 | 3 | 3 | 1.1 | 426 | 107 | 326 | 100 | 53 | 195 |
| $22 \mathrm{MAC047}$ | 507867 | 7172770 | 430 | 24 | 30 | 6 | 4 | 1 | 0.5 | 226 | 87 | 145 | 81 | 39 | 162 |
| $22 \mathrm{MAC047}$ | 507867 | 7172770 | 425.5 | 30 | 33 | 3 | 200 | 1 | 0.4 | 164 | 60 | 105 | 60 | 24 | 109 |
| $22 \mathrm{MACO48}$ | 507754 | 7172646 | 460 | 0 | 4 | 4 | 1 | 43 | 1.4 | 237 | 70 | 182 | 55 | 43 | 139 |
| $22 \mathrm{MAC048}$ | 507754 | 7172646 | 449 | 4 | 22 | 18 | 2 | 5 | 0.9 | 150 | 38 | 122 | 28 | 26 | 94 |
| $22 \mathrm{MAC048}$ | 507754 | 7172646 | 438 | 22 | 26 | 4 | 3 | 3 | 2.1 | 762 | 208 | 590 | 171 | 125 | 393 |
| $22 \mathrm{MAC048}$ | 507754 | 7172646 | 430 | 26 | 38 | 12 | 4 | 8 | 0.7 | 407 | 140 | 290 | 117 | 80 | 267 |
| 22MAC048 | 507754 | 7172646 | 423 | 38 | 40 | 2 | 200 | 9 | 0.4 | 297 | 101 | 212 | 85 | 55 | 193 |
| 22MAC049 | 507630 | 7172527 | 468 | 0 | 8 | 8 | 1 | 10 | 0.8 | 91 | 30 | 63 | 28 | 15 | 59 |
| 22MAC049 | 507630 | 7172527 | 459 | 8 | 18 | 10 | 2 | 1 | 0.4 | 61 | 16 | 47 | 14 | 8 | 33 |
| 22MAC049 | 507630 | 7172527 | 451 | 18 | 24 | 6 | 4 | 14 | 1.2 | 452 | 118 | 354 | 98 | 70 | 239 |
| 22MAC049 | 507630 | 7172527 | 447.5 | 24 | 25 | 1 | 200 | 7 | 1.2 | 303 | 107 | 218 | 85 | 67 | 220 |


| 22MAC050 | 507481 | 7172425 | 470 | 0 | 6 | 6 | 1 | 23 | 1.4 | 115 | 58 | 50 | 65 | 12 | 89 |
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| 22MAC050 | 507481 | 7172425 | 460 | 6 | 20 | 14 | 2 | 7 | 0.8 | 70 | 20 | 55 | 16 | 13 | 44 |
| 22MAC050 | 507481 | 7172425 | 451 | 20 | 24 | 4 | 3 | 5 | 0.9 | 801 | 113 | 756 | 44 | 122 | 461 |
| 22MAC050 | 507481 | 7172425 | 446 | 24 | 30 | 6 | 4 | 6 | 0.8 | 480 | 147 | 350 | 130 | 76 | 274 |
| 22MAC050 | 507481 | 7172425 | 442 | 30 | 32 | 2 | 200 | 5 | 0.6 | 291 | 99 | 200 | 91 | 46 | 185 |
| 22MAC051 | 507274 | 7172431 | 472.5 | 0 | 9 | 9 | 1 | 49 | 1.5 | 115 | 49 | 65 | 50 | 16 | 83 |
| 22MAC051 | 507274 | 7172431 | 462.5 | 9 | 20 | 11 | 2 | 50 | 0.6 | 177 | 37 | 158 | 19 | 34 | 99 |
| 22MAC051 | 507274 | 7172431 | 452 | 20 | 30 | 10 | 3 | 4 | 1.1 | 585 | 168 | 457 | 128 | 110 | 351 |
| 22MAC051 | 507274 | 7172431 | 446 | 30 | 32 | 2 | 4 | 3 | 0.9 | 881 | 334 | 598 | 282 | 171 | 586 |
| 22MAC051 | 507274 | 7172431 | 444.5 | 32 | 33 | 1 | 200 | 3 | 0.6 | 170 | 56 | 123 | 48 | 30 | 110 |
| $22 \mathrm{MAC052}$ | 507116 | 7172378 | 474 | 0 | 8 | 8 | 1 | 16 | 1.1 | 111 | 35 | 80 | 31 | 18 | 66 |
| $22 \mathrm{MACO52}$ | 507116 | 7172378 | 469 | 8 | 10 | 2 | 2 | 11 | 1.3 | 106 | 41 | 68 | 38 | 19 | 76 |
| $22 \mathrm{MACO52}$ | 507116 | 7172378 | 465 | 10 | 16 | 6 | 3 | 10 | 1.4 | 264 | 87 | 198 | 65 | 55 | 167 |
| $22 \mathrm{MACO52}$ | 507116 | 7172378 | 461.5 | 16 | 17 | 1 | 4 | 6 | 0.8 | 203 | 68 | 150 | 53 | 43 | 130 |
| $22 \mathrm{MAC052}$ | 507116 | 7172378 | 460.5 | 17 | 18 | 1 | 200 | 6 | 0.8 | 203 | 68 | 150 | 53 | 43 | 130 |
| $22 \mathrm{MACO53}$ | 506814 | 7172225 | 480 | 0 | 2 | 2 | 1 | 17 | 1.0 | 149 | 42 | 115 | 34 | 23 | 86 |
| 22MAC053 | 506814 | 7172225 | 470 | 2 | 20 | 18 | 2 | 6 | 1.0 | 86 | 22 | 67 | 19 | 12 | 50 |
| $22 \mathrm{MACO53}$ | 506814 | 7172225 | 459 | 20 | 24 | 4 | 3 | 3 | 0.8 | 1072 | 219 | 885 | 188 | 127 | 435 |
| 22MACO53 | 506814 | 7172225 | 456.5 | 24 | 25 | 1 | 4 | 4 | 0.5 | 369 | 122 | 270 | 99 | 69 | 238 |
| $22 \mathrm{MACO53}$ | 506814 | 7172225 | 455.5 | 25 | 26 | 1 | 200 | 4 | 0.5 | 369 | 122 | 270 | 99 | 69 | 238 |
| 22MAC054 | 506861 | 7172073 | 478 | 0 | 2 | 2 | 1 | 14 | 0.9 | 151 | 44 | 116 | 35 | 26 | 90 |
| 22MAC054 | 506861 | 7172073 | 474 | 2 | 8 | 6 | 2 | 3 | 0.5 | 134 | 35 | 107 | 27 | 22 | 76 |
| 22MAC054 | 506861 | 7172073 | 467 | 8 | 16 | 8 | 3 | 1 | 0.3 | 118 | 37 | 89 | 29 | 24 | 79 |
| 22MAC054 | 506861 | 7172073 | 462 | 16 | 18 | 2 | 200 | 3 | 0.2 | 292 | 77 | 238 | 55 | 55 | 163 |
| 22MAC055 | 507039 | 7172162 | 475.5 | 0 | 3 | 3 | 1 | 11 | 0.9 | 69 | 24 | 48 | 21 | 12 | 46 |
| 22MACO55 | 507039 | 7172162 | 469.5 | 3 | 12 | 9 | 2 | 4 | 0.5 | 54 | 15 | 42 | 12 | 9 | 33 |
| 22MACO55 | 507039 | 7172162 | 462 | 12 | 18 | 6 | 3 | 5 | 1.1 | 704 | 106 | 592 | 112 | 40 | 184 |
| $22 \mathrm{MAC055}$ | 507039 | 7172162 | 458.5 | 18 | 19 | 1 | 200 | 25 | 0.6 | 428 | 76 | 374 | 53 | 56 | 179 |
| 22MAC056 | 507260 | 7172271 | 476 | 0 | 6 | 6 | 1 | 19 | 1.6 | 128 | 57 | 68 | 60 | 17 | 93 |
| 22MAC056 | 507260 | 7172271 | 466 | 6 | 20 | 14 | 2 | 5 | 1.0 | 54 | 20 | 34 | 20 | 8 | 38 |
| 22MAC056 | 507260 | 7172271 | 456 | 20 | 26 | 6 | 3 | 34 | 2.0 | 1243 | 379 | 910 | 333 | 196 | 723 |
| 22MAC056 | 507260 | 7172271 | 451 | 26 | 30 | 4 | 4 | 62 | 1.5 | 798 | 250 | 601 | 196 | 151 | 516 |
| 22MAC056 | 507260 | 7172271 | 448.5 | 30 | 31 | 1 | 200 | 44 | 1.1 | 474 | 124 | 386 | 87 | 89 | 281 |
| $22 \mathrm{MACO57}$ | 507470 | 7172308 | 479 | 0 | 4 | 4 | 1 | 43 | 1.8 | 185 | 81 | 98 | 87 | 22 | 131 |
| $22 \mathrm{MAC057}$ | 507470 | 7172308 | 469 | 4 | 20 | 16 | 2 | 19 | 1.2 | 121 | 50 | 71 | 49 | 20 | 87 |
| $22 \mathrm{MAC057}$ | 507470 | 7172308 | 454 | 20 | 34 | 14 | 3 | 39 | 1.1 | 1156 | 317 | 872 | 285 | 164 | 591 |
| $22 \mathrm{MAC057}$ | 507470 | 7172308 | 444.5 | 34 | 39 | 5 | 4 | 26 | 0.7 | 412 | 128 | 310 | 102 | 80 | 257 |
| $22 \mathrm{MAC057}$ | 507470 | 7172308 | 441 | 39 | 41 | 2 | 200 | 29 | 0.5 | 422 | 133 | 317 | 105 | 84 | 265 |
| 22MAC058 | 507640 | 7172339 | 472 | 0 | 8 | 8 | 1 | 51 | 1.0 | 279 | 74 | 227 | 52 | 54 | 158 |
| $22 \mathrm{MACO58}$ | 507640 | 7172339 | 465 | 8 | 14 | 6 | 2 | 34 | 0.7 | 253 | 61 | 214 | 39 | 50 | 137 |
| 22MAC058 | 507640 | 7172339 | 461 | 14 | 16 | 2 | 3 | 62 | 0.7 | 537 | 117 | 473 | 64 | 107 | 278 |
| 22MAC058 | 507640 | 7172339 | 458 | 16 | 20 | 4 | 4 | 93 | 0.9 | 863 | 199 | 762 | 101 | 190 | 483 |
| 22MAC058 | 507640 | 7172339 | 455.5 | 20 | 21 | 1 | 200 | 152 | 1.3 | 1257 | 280 | 1126 | 131 | 281 | 690 |
| 22MAC059 | 507872 | 7172510 | 471.5 | 0 | 1 | 1 | 1 | 21 | 0.7 | 245 | 45 | 218 | 27 | 38 | 128 |
| 22MAC059 | 507872 | 7172510 | 461.5 | 1 | 20 | 19 | 2 | 5 | 0.4 | 189 | 41 | 161 | 29 | 32 | 112 |
| 22MAC059 | 507872 | 7172510 | 445 | 20 | 34 | 14 | 4 | 2 | 0.4 | 278 | 117 | 158 | 119 | 40 | 199 |
| 22MAC059 | 507872 | 7172510 | 437.5 | 34 | 35 | 1 | 200 | 1 | 0.3 | 121 | 45 | 77 | 44 | 18 | 83 |
| 22MAC060 | 508047 | 7172621 | 468.5 | 0 | 3 | 3 | 1 | 48 | 1.7 | 184 | 60 | 133 | 52 | 32 | 116 |
| 22MAC060 | 508047 | 7172621 | 464.5 | 3 | 8 | 5 | 2 | 22 | 1.0 | 148 | 48 | 105 | 43 | 24 | 94 |
| 22MAC061 | 508211 | 7172743 | 462.5 | 0 | 7 | 7 | 1 | 34 | 2.4 | 133 | 46 | 89 | 44 | 20 | 87 |
| 22MAC061 | 508211 | 7172743 | 450.5 | 7 | 24 | 17 | 2 | 13 | 1.5 | 48 | 20 | 26 | 22 | 6 | 35 |
| 22MAC061 | 508211 | 7172743 | 432 | 24 | 44 | 20 | 3 | 6 | 0.8 | 337 | 102 | 254 | 84 | 60 | 206 |
| 22MAC061 | 508211 | 7172743 | 417 | 44 | 54 | 10 | 4 | 5 | 0.8 | 313 | 101 | 234 | 78 | 64 | 199 |
| 22MAC061 | 508211 | 7172743 | 411 | 54 | 56 | 2 | 200 | 3 | 0.6 | 277 | 89 | 209 | 68 | 56 | 176 |
| $22 \mathrm{MAC062}$ | 508099 | 7172474 | 465 | 0 | 4 | 4 | 1 | 28 | 1.5 | 208 | 75 | 139 | 69 | 34 | 136 |
| $22 \mathrm{MAC062}$ | 508099 | 7172474 | 457 | 4 | 16 | 12 | 2 | 30 | 1.2 | 272 | 98 | 183 | 89 | 47 | 177 |
| 22MAC062 | 508099 | 7172474 | 447 | 16 | 24 | 8 | 3 | 32 | 1.0 | 539 | 169 | 407 | 132 | 107 | 346 |
| $22 \mathrm{MAC062}$ | 508099 | 7172474 | 440.5 | 24 | 29 | 5 | 4 | 17 | 1.2 | 595 | 201 | 426 | 170 | 110 | 396 |
| $22 \mathrm{MAC062}$ | 508099 | 7172474 | 437.5 | 29 | 30 | 1 | 200 | 12 | 0.9 | 386 | 134 | 267 | 119 | 64 | 252 |
| $22 \mathrm{MAC063}$ | 508036 | 7172404 | 465 | 0 | 4 | 4 | 1 | 33 | 0.9 | 135 | 40 | 103 | 32 | 24 | 85 |
| 22MAC063 | 508036 | 7172404 | 461 | 4 | 8 | 4 | 2 | 104 | 1.1 | 216 | 48 | 189 | 27 | 42 | 120 |
| 22MAC063 | 508036 | 7172404 | 451 | 8 | 24 | 16 | 3 | 115 | 1.7 | 874 | 192 | 763 | 111 | 165 | 476 |


| 22MAC063 | 508036 | 7172404 | 439 | 24 | 32 | 8 | 4 | 93 | 1.7 | 971 | 235 | 831 | 140 | 194 | 557 |
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| 22MAC063 | 508036 | 7172404 | 434.5 | 32 | 33 | 1 | 200 | 75 | 1.5 | 878 | 209 | 762 | 116 | 180 | 501 |
| 22MAC064 | 507816 | 7172220 | 473 | 0 | 4 | 4 | 1 | 8 | 0.6 | 123 | 39 | 90 | 32 | 22 | 77 |
| 22MAC064 | 507816 | 7172220 | 467 | 4 | 12 | 8 | 2 | 5 | 0.7 | 100 | 37 | 63 | 37 | 15 | 67 |
| 22MAC064 | 507816 | 7172220 | 460 | 12 | 18 | 6 | 3 | 73 | 1.2 | 1119 | 318 | 904 | 215 | 243 | 719 |
| 22MAC064 | 507816 | 7172220 | 455 | 18 | 22 | 4 | 4 | 88 | 1.3 | 992 | 284 | 794 | 198 | 207 | 614 |
| 22MAC064 | 507816 | 7172220 | 452.5 | 22 | 23 | 1 | 200 | 131 | 1.5 | 1311 | 391 | 1027 | 284 | 269 | 803 |
| 22MAC065 | 507765 | 7172094 | 470 | 0 | 4 | 4 | 1 | 20 | 1.3 | 289 | 110 | 183 | 105 | 48 | 199 |
| $22 \mathrm{MAC065}$ | 507765 | 7172094 | 464 | 4 | 12 | 8 | 2 | 15 | 1.2 | 324 | 135 | 182 | 142 | 44 | 225 |
| 22MAC065 | 507765 | 7172094 | 454 | 12 | 24 | 12 | 3 | 39 | 1.9 | 735 | 286 | 466 | 269 | 128 | 508 |
| 22MAC065 | 507765 | 7172094 | 444 | 24 | 32 | 8 | 4 | 36 | 1.7 | 669 | 246 | 446 | 223 | 118 | 451 |
| 22MAC065 | 507765 | 7172094 | 439 | 32 | 34 | 2 | 200 | 69 | 2.4 | 1133 | 463 | 690 | 443 | 193 | 796 |
| 22MAC066 | 507395 | 7172069 | 477 | 0 | 6 | 6 | 1 | 32 | 1.5 | 274 | 120 | 152 | 122 | 41 | 198 |
| 22MAC066 | 507395 | 7172069 | 472 | 6 | 10 | 4 | 2 | 18 | 0.9 | 109 | 44 | 65 | 45 | 16 | 80 |
| 22MAC066 | 507395 | 7172069 | 468 | 10 | 14 | 4 | 3 | 99 | 1.4 | 872 | 253 | 687 | 185 | 178 | 541 |
| 22MAC066 | 507395 | 7172069 | 464 | 14 | 18 | 4 | 4 | 11 | 2.0 | 971 | 187 | 747 | 224 | 43 | 299 |
| 22MAC066 | 507395 | 7172069 | 461.5 | 18 | 19 | 1 | 200 | 11 | 1.2 | 1268 | 309 | 917 | 351 | 83 | 490 |
| $22 \mathrm{MAC067}$ | 507297 | 7171990 | 480 | 0 | 2 | 2 | 1 | 41 | 2.8 | 201 | 81 | 117 | 84 | 27 | 139 |
| $22 \mathrm{MAC067}$ | 507297 | 7171990 | 475 | 2 | 10 | 8 | 2 | 20 | 1.1 | 179 | 97 | 71 | 108 | 20 | 145 |
| $22 \mathrm{MAC067}$ | 507297 | 7171990 | 463 | 10 | 26 | 16 | 3 | 46 | 2.0 | 824 | 297 | 554 | 270 | 143 | 570 |
| $22 \mathrm{MAC067}$ | 507297 | 7171990 | 452.5 | 26 | 31 | 5 | 4 | 33 | 1.7 | 989 | 399 | 608 | 380 | 165 | 707 |
| $22 \mathrm{MAC067}$ | 507297 | 7171990 | 449.5 | 31 | 32 | 1 | 200 | 33 | 1.9 | 815 | 384 | 425 | 390 | 127 | 634 |
| 22MAC068 | 507124 | 7171929 | 482.5 | 0 | 1 | 1 | 1 | 44 | 1.5 | 472 | 160 | 326 | 145 | 76 | 291 |
| 22MAC068 | 507124 | 7171929 | 475.5 | 1 | 14 | 13 | 2 | 35 | 1.2 | 377 | 118 | 276 | 100 | 64 | 229 |
| $22 \mathrm{MAC068}$ | 507124 | 7171929 | 463 | 14 | 26 | 12 | 3 | 34 | 1.5 | 706 | 181 | 527 | 179 | 77 | 331 |
| 22MAC068 | 507124 | 7171929 | 454 | 26 | 32 | 6 | 4 | 23 | 1.1 | 917 | 398 | 568 | 350 | 205 | 736 |
| 22MAC068 | 507124 | 7171929 | 450.5 | 32 | 33 | 1 | 200 | 17 | 1.7 | 758 | 344 | 420 | 338 | 126 | 578 |
| 22MAC069 | 507329 | 7171785 | 483.5 | 0 | 1 | 1 | 1 | 19 | 1.2 | 215 | 84 | 131 | 84 | 33 | 151 |
| 22MAC069 | 507329 | 7171785 | 479.5 | 1 | 8 | 7 | 2 | 20 | 1.3 | 227 | 86 | 143 | 84 | 36 | 155 |
| 22MAC069 | 507329 | 7171785 | 469 | 8 | 22 | 14 | 3 | 36 | 1.7 | 675 | 224 | 463 | 212 | 101 | 414 |
| 22MAC069 | 507329 | 7171785 | 461 | 22 | 24 | 2 | 4 | 35 | 1.3 | 1089 | 354 | 804 | 285 | 218 | 713 |
| 22MAC069 | 507329 | 7171785 | 459.5 | 24 | 25 | 1 | 200 | 16 | 1.0 | 725 | 345 | 414 | 311 | 158 | 616 |
| 22MAC070 | 507318 | 7171713 | 484.5 | 0 | 1 | 1 | 1 | 36 | 1.6 | 278 | 101 | 186 | 92 | 49 | 185 |
| 22 MACO 70 | 507318 | 7171713 | 479.5 | 1 | 10 | 9 | 2 | 27 | 1.2 | 264 | 95 | 177 | 87 | 46 | 177 |
| 22MAC070 | 507318 | 7171713 | 462 | 10 | 36 | 26 | 3 | 40 | 1.3 | 658 | 252 | 421 | 238 | 109 | 451 |
| 22MACO70 | 507318 | 7171713 | 448 | 36 | 38 | 2 | 4 | 67 | 2.0 | 813 | 288 | 555 | 258 | 146 | 535 |
| 22MAC070 | 507318 | 7171713 | 446.5 | 38 | 39 | 1 | 200 | 112 | 2.4 | 1286 | 458 | 883 | 404 | 239 | 848 |
| $22 \mathrm{MAC071}$ | 507562 | 7171683 | 481 | 0 | 2 | 2 | 1 | 153 | 2.6 | 1120 | 356 | 838 | 282 | 227 | 704 |
| 22MAC071 | 507562 | 7171683 | 473 | 2 | 16 | 14 | 2 | 37 | 1.4 | 404 | 137 | 285 | 119 | 75 | 263 |
| 22MAC071 | 507562 | 7171683 | 463 | 16 | 22 | 6 | 3 | 48 | 1.8 | 771 | 263 | 544 | 227 | 146 | 504 |
| 22MAC071 | 507562 | 7171683 | 457 | 22 | 28 | 6 | 4 | 19 | 1.6 | 667 | 230 | 453 | 214 | 111 | 434 |
| 22MAC071 | 507562 | 7171683 | 453 | 28 | 30 | 2 | 200 | 14 | 2.2 | 904 | 332 | 538 | 366 | 103 | 568 |
| $22 \mathrm{MAC072}$ | 507427 | 7171313 | 475 | 0 | 14 | 14 | 1 | 51 | 1.7 | 210 | 71 | 145 | 65 | 34 | 139 |
| $22 \mathrm{MACO72}$ | 507427 | 7171313 | 466.5 | 14 | 17 | 3 | 2 | 41 | 1.9 | 418 | 110 | 326 | 92 | 65 | 269 |
| $22 \mathrm{MACO72}$ | 507427 | 7171313 | 462.5 | 17 | 22 | 5 | 3 | 35 | 2.0 | 361 | 106 | 273 | 88 | 64 | 222 |
| $22 \mathrm{MAC072}$ | 507427 | 7171313 | 459.5 | 22 | 23 | 1 | 200 | 16 | 2.6 | 1096 | 344 | 849 | 246 | 253 | 714 |
| 22MAC073 | 507628 | 7171486 | 477 | 0 | 10 | 10 | 1 | 63 | 2.1 | 172 | 60 | 116 | 55 | 28 | 111 |
| 22MAC074 | 507764 | 7171708 | 479.5 | 0 | 5 | 5 | 1 | 91 | 2.4 | 202 | 71 | 139 | 63 | 36 | 134 |
| 22MAC074 | 507764 | 7171708 | 471.5 | 5 | 16 | 11 | 2 | 56 | 1.2 | 145 | 61 | 85 | 60 | 23 | 105 |
| $22 \mathrm{MAC074}$ | 507764 | 7171708 | 462 | 16 | 24 | 8 | 3 | 33 | 2.1 | 513 | 169 | 381 | 132 | 111 | 335 |
| 22MAC074 | 507764 | 7171708 | 457.5 | 24 | 25 | 1 | 200 | 44 | 1.7 | 487 | 157 | 358 | 129 | 96 | 306 |
| 22MAC075 | 507935 | 7171250 | 481.5 | 0 | 1 | 1 | 1 | 43 | 2.0 | 215 | 72 | 150 | 65 | 37 | 137 |
| $22 \mathrm{MACO75}$ | 507935 | 7171250 | 468.5 | 1 | 26 | 25 | 2 | 30 | 1.5 | 298 | 86 | 231 | 67 | 57 | 188 |
| $22 \mathrm{MAC075}$ | 507935 | 7171250 | 449 | 26 | 40 | 14 | 3 | 46 | 1.6 | 959 | 403 | 576 | 383 | 163 | 699 |
| 22MAC075 | 507935 | 7171250 | 439 | 40 | 46 | 6 | 4 | 27 | 1.3 | 467 | 178 | 302 | 165 | 80 | 320 |
| $22 \mathrm{MACO75}$ | 507935 | 7171250 | 435.5 | 46 | 47 | 1 | 200 | 31 | 1.9 | 572 | 180 | 426 | 145 | 106 | 362 |
| 22MAC076 | 507972 | 7171087 | 472 | 0 | 20 | 20 | 2 | 14 | 0.7 | 189 | 58 | 138 | 51 | 31 | 125 |
| 22MAC076 | 507972 | 7171087 | 458 | 20 | 28 | 8 | 3 | 25 | 1.0 | 446 | 147 | 323 | 123 | 85 | 300 |
| 22MAC076 | 507972 | 7171087 | 446.5 | 28 | 43 | 15 | 4 | 39 | 1.7 | 841 | 346 | 516 | 325 | 148 | 594 |
| 22MAC076 | 507972 | 7171087 | 438.5 | 43 | 44 | 1 | 200 | 54 | 2.2 | 741 | 211 | 581 | 161 | 138 | 453 |
| 22MAC077 | 507737 | 7171009 | 481 | 0 | 2 | 2 | 1 | 39 | 2.1 | 411 | 185 | 222 | 189 | 61 | 304 |
| $22 \mathrm{MAC077}$ | 507737 | 7171009 | 474 | 2 | 14 | 12 | 2 | 44 | 2.3 | 590 | 252 | 336 | 254 | 91 | 428 |


| 22MAC077 | 507737 | 7171009 | 463 | 14 | 24 | 10 | 3 | 41 | 2.2 | 927 | 254 | 702 | 225 | 141 | 504 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $22 \mathrm{MAC077}$ | 507737 | 7171009 | 451.5 | 24 | 37 | 13 | 4 | 30 | 1.5 | 525 | 178 | 366 | 159 | 93 | 337 |
| 22MAC077 | 507737 | 7171009 | 444 | 37 | 39 | 2 | 200 | 16 | 1.0 | 242 | 86 | 166 | 77 | 43 | 161 |
| 22MAC078 | 507807 | 7170874 | 481.5 | 0 | 1 | 1 | 1 | 39 | 1.8 | 294 | 112 | 188 | 105 | 50 | 205 |
| 22MAC078 | 507807 | 7170874 | 474 | 1 | 15 | 14 | 2 | 11 | 1.0 | 108 | 47 | 59 | 49 | 15 | 80 |
| 22MAC078 | 507807 | 7170874 | 465.5 | 15 | 18 | 3 | 3 | 14 | 0.8 | 86 | 29 | 61 | 26 | 16 | 59 |
| $22 \mathrm{MAC078}$ | 507807 | 7170874 | 463 | 18 | 20 | 2 | 200 | 12 | 0.7 | 84 | 26 | 61 | 23 | 14 | 51 |
| 22MAC079 | 508062 | 7170885 | 481.5 | 0 | 1 | 1 | 1 | 18 | 1.1 | 169 | 56 | 123 | 46 | 33 | 109 |
| 22MAC079 | 508062 | 7170885 | 476.5 | 1 | 10 | 9 | 2 | 29 | 1.0 | 220 | 64 | 170 | 50 | 42 | 136 |
| 22MAC079 | 508062 | 7170885 | 463 | 10 | 28 | 18 | 3 | 30 | 1.9 | 820 | 302 | 531 | 289 | 134 | 538 |
| 22MAC079 | 508062 | 7170885 | 449 | 28 | 38 | 10 | 4 | 54 | 1.6 | 639 | 198 | 483 | 156 | 122 | 404 |
| 22MAC079 | 508062 | 7170885 | 443 | 38 | 40 | 2 | 200 | 20 | 1.1 | 574 | 215 | 378 | 196 | 105 | 394 |
| 22MAC080 | 508292 | 7170686 | 478 | 0 | 8 | 8 | 1 | 46 | 2.3 | 196 | 83 | 112 | 85 | 29 | 142 |
| 22MAC080 | 508292 | 7170686 | 467 | 8 | 22 | 14 | 2 | 21 | 1.5 | 249 | 107 | 143 | 106 | 44 | 186 |
| $22 \mathrm{MAC080}$ | 508292 | 7170686 | 454 | 22 | 34 | 12 | 3 | 23 | 1.8 | 594 | 261 | 335 | 258 | 100 | 441 |
| 22MAC080 | 508292 | 7170686 | 442 | 34 | 46 | 12 | 4 | 43 | 1.5 | 822 | 324 | 528 | 294 | 155 | 573 |
| 22MAC080 | 508292 | 7170686 | 435.5 | 46 | 47 | 1 | 200 | 33 | 1.2 | 617 | 235 | 407 | 211 | 118 | 420 |
| $22 \mathrm{MAC081}$ | 508259 | 7170515 | 479 | 0 | 6 | 6 | 1 | 39 | 2.2 | 195 | 76 | 122 | 73 | 31 | 135 |
| 22MAC081 | 508259 | 7170515 | 470 | 6 | 18 | 12 | 2 | 20 | 1.6 | 193 | 56 | 143 | 50 | 30 | 116 |
| 22MAC081 | 508259 | 7170515 | 462.5 | 18 | 21 | 3 | 3 | 23 | 1.3 | 422 | 124 | 330 | 92 | 85 | 266 |
| $22 \mathrm{MAC081}$ | 508259 | 7170515 | 460 | 21 | 23 | 2 | 4 | 9 | 1.5 | 1833 | 655 | 1255 | 578 | 337 | 1234 |
| 22MAC081 | 508259 | 7170515 | 458.5 | 23 | 24 | 1 | 200 | 7 | 1.4 | 3010 | 1155 | 1948 | 1062 | 537 | 2078 |
| $22 \mathrm{MAC082}$ | 508188 | 7170340 | 478.5 | 0 | 7 | 7 | 1 | 26 | 1.8 | 160 | 70 | 87 | 73 | 22 | 118 |
| 22MAC082 | 508188 | 7170340 | 466.5 | 7 | 24 | 17 | 2 | 26 | 1.4 | 286 | 105 | 187 | 99 | 45 | 193 |
| $22 \mathrm{MAC082}$ | 508188 | 7170340 | 451.5 | 24 | 37 | 13 | 3 | 19 | 2.0 | 736 | 270 | 481 | 256 | 117 | 479 |
| 22MAC082 | 508188 | 7170340 | 443.5 | 37 | 40 | 3 | 4 | 43 | 1.6 | 764 | 280 | 517 | 247 | 142 | 513 |
| 22MAC082 | 508188 | 7170340 | 441.5 | 40 | 41 | 1 | 200 | 6 | 0.5 | 192 | 87 | 104 | 88 | 30 | 144 |
| $22 \mathrm{MAC083}$ | 508469 | 7170249 | 476 | 0 | 12 | 12 | 1 | 35 | 1.7 | 168 | 71 | 94 | 74 | 23 | 121 |
| $22 \mathrm{MAC083}$ | 508469 | 7170249 | 464 | 12 | 24 | 12 | 2 | 23 | 1.2 | 181 | 68 | 116 | 65 | 29 | 124 |
| $22 \mathrm{MAC083}$ | 508469 | 7170249 | 455 | 24 | 30 | 6 | 3 | 6 | 1.4 | 673 | 211 | 488 | 186 | 115 | 416 |
| $22 \mathrm{MAC083}$ | 508469 | 7170249 | 449.5 | 30 | 35 | 5 | 4 | 2 | 1.1 | 922 | 335 | 588 | 334 | 122 | 568 |
| $22 \mathrm{MAC083}$ | 508469 | 7170249 | 446.5 | 35 | 36 | 1 | 200 | 2 | 0.9 | 585 | 316 | 254 | 331 | 87 | 481 |
| 22MAC084 | 508587 | 7169962 | 479.5 | 0 | 5 | 5 | 1 | 31 | 1.4 | 192 | 77 | 115 | 77 | 28 | 132 |
| $22 \mathrm{MAC084}$ | 508587 | 7169962 | 471.5 | 5 | 16 | 11 | 2 | 31 | 0.7 | 201 | 55 | 161 | 41 | 38 | 121 |
| 22MAC084 | 508587 | 7169962 | 461.5 | 16 | 25 | 9 | 3 | 65 | 1.0 | 722 | 174 | 615 | 108 | 144 | 404 |
| 22MAC084 | 508587 | 7169962 | 452.5 | 25 | 34 | 9 | 4 | 67 | 1.4 | 710 | 176 | 591 | 118 | 137 | 405 |
| 22MAC084 | 508587 | 7169962 | 447 | 34 | 36 | 2 | 200 | 5 | 0.6 | 146 | 63 | 79 | 67 | 21 | 107 |
| $22 \mathrm{MAC085}$ | 508834 | 7169773 | 477.5 | 0 | 9 | 9 | 1 | 54 | 1.5 | 260 | 114 | 140 | 119 | 35 | 186 |
| 22MAC085 | 508834 | 7169773 | 465.5 | 9 | 24 | 15 | 2 | 18 | 1.2 | 237 | 122 | 98 | 140 | 27 | 188 |
| $22 \mathrm{MAC085}$ | 508834 | 7169773 | 450 | 24 | 40 | 16 | 3 | 24 | 2.7 | 1574 | 538 | 1094 | 480 | 288 | 1011 |
| 22MAC085 | 508834 | 7169773 | 437 | 40 | 50 | 10 | 4 | 16 | 1.6 | 559 | 256 | 297 | 262 | 86 | 418 |
| $22 \mathrm{MAC085}$ | 508834 | 7169773 | 430.5 | 50 | 53 | 3 | 200 | 23 | 1.9 | 538 | 235 | 302 | 236 | 81 | 390 |
| 22MAC086 | 508762 | 7169507 | 481.5 | 0 | 1 | 1 | 1 | 33 | 2.0 | 308 | 116 | 197 | 111 | 52 | 209 |
| 22MAC086 | 508762 | 7169507 | 475.5 | 1 | 12 | 11 | 2 | 11 | 1.3 | 189 | 91 | 91 | 98 | 25 | 145 |
| 22MAC086 | 508762 | 7169507 | 460.5 | 12 | 31 | 19 | 3 | 36 | 2.1 | 745 | 306 | 449 | 297 | 132 | 536 |
| $22 \mathrm{MAC086}$ | 508762 | 7169507 | 450.5 | 31 | 32 | 1 | 200 | 18 | 1.6 | 623 | 237 | 389 | 234 | 94 | 408 |
| $22 \mathrm{MAC087}$ | 508792 | 7169188 | 479 | 0 | 6 | 6 | 1 | 27 | 1.9 | 235 | 122 | 98 | 138 | 25 | 183 |
| $22 \mathrm{MAC087}$ | 508792 | 7169188 | 471 | 6 | 16 | 10 | 2 | 6 | 0.9 | 89 | 37 | 51 | 38 | 14 | 64 |
| $22 \mathrm{MAC087}$ | 508792 | 7169188 | 465.5 | 16 | 17 | 1 | 200 | 3 | 0.4 | 602 | 264 | 346 | 256 | 108 | 444 |
| $22 \mathrm{MAC088}$ | 508798 | 7168878 | 477 | 0 | 10 | 10 | 4 | 17 | 1.3 | 497 | 223 | 275 | 222 | 83 | 367 |
| 22MAC088 | 508798 | 7168878 | 471.5 | 10 | 11 | 1 | 200 | 10 | 0.8 | 193 | 82 | 114 | 80 | 33 | 139 |
| 22MAC089 | 509120 | 7168989 | 481 | 0 | 2 | 2 | 1 | 50 | 2.0 | 363 | 156 | 207 | 156 | 53 | 272 |
| 22MAC089 | 509120 | 7168989 | 477 | 2 | 8 | 6 | 2 | 6 | 1.0 | 206 | 110 | 79 | 126 | 19 | 164 |
| 22MAC089 | 509120 | 7168989 | 472 | 8 | 12 | 4 | 3 | 7 | 1.3 | 122 | 58 | 59 | 63 | 15 | 94 |
| 22MAC089 | 509120 | 7168989 | 469 | 12 | 14 | 2 | 4 | 5 | 1.8 | 66 | 32 | 27 | 39 | 6 | 53 |
| 22MAC089 | 509120 | 7168989 | 467.5 | 14 | 15 | 1 | 200 | 4 | 1.9 | 60 | 28 | 25 | 36 | 5 | 48 |
| 22MAC090 | 509098 | 7169349 | 478 | 0 | 8 | 8 | 1 | 26 | 1.8 | 150 | 93 | 34 | 116 | 9 | 133 |
| 22MAC090 | 509098 | 7169349 | 466 | 8 | 24 | 16 | 2 | 4 | 1.2 | 193 | 114 | 48 | 146 | 11 | 167 |
| 22MAC090 | 509098 | 7169349 | 450 | 24 | 40 | 16 | 3 | 3 | 2.4 | 1221 | 619 | 472 | 748 | 137 | 1014 |
| 22MAC090 | 509098 | 7169349 | 435 | 40 | 54 | 14 | 4 | 28 | 1.7 | 818 | 377 | 391 | 427 | 103 | 626 |
| 22MAC090 | 509098 | 7169349 | 427.5 | 54 | 55 | 1 | 200 | 25 | 3.1 | 1132 | 603 | 405 | 727 | 110 | 937 |
| 22MAC091 | 509189 | 7169546 | 476.5 | 0 | 11 | 11 | 1 | 31 | 1.6 | 214 | 109 | 87 | 127 | 18 | 165 |


| 22MAC091 | 509189 | 7169546 | 469.5 | 11 | 14 | 3 | 2 | 15 | 1.3 | 185 | 110 | 51 | 134 | 11 | 158 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 22MAC091 | 509189 | 7169546 | 455 | 14 | 40 | 26 | 3 | 36 | 2.5 | 835 | 344 | 500 | 335 | 130 | 592 |
| 22MAC091 | 509189 | 7169546 | 435.5 | 40 | 53 | 13 | 4 | 23 | 3.4 | 580 | 255 | 319 | 260 | 89 | 426 |
| 22MAC091 | 509189 | 7169546 | 428.5 | 53 | 54 | 1 | 200 | 23 | 2.3 | 408 | 151 | 269 | 139 | 70 | 277 |
| 22MAC092 | 508242 | 7171129 | 479.5 | 0 | 5 | 5 | 1 | 44 | 2.0 | 347 | 122 | 236 | 112 | 57 | 221 |
| 22MAC092 | 508242 | 7171129 | 471.5 | 5 | 16 | 11 | 2 | 11 | 0.9 | 205 | 81 | 126 | 79 | 34 | 146 |
| $22 \mathrm{MAC092}$ | 508242 | 7171129 | 465.5 | 16 | 17 | 1 | 200 | 3 | 0.4 | 136 | 59 | 79 | 57 | 25 | 108 |
| 22MAC093 | 508071 | 7171352 | 481 | 0 | 2 | 2 | 1 | 43 | 1.9 | 187 | 75 | 117 | 71 | 33 | 133 |
| $22 \mathrm{MAC093}$ | 508071 | 7171352 | 475 | 2 | 12 | 10 | 2 | 7 | 0.9 | 234 | 96 | 148 | 87 | 46 | 175 |
| 22MAC093 | 508071 | 7171352 | 460 | 12 | 32 | 20 | 3 | 2 | 0.8 | 633 | 282 | 348 | 285 | 110 | 474 |
| $22 \mathrm{MAC093}$ | 508071 | 7171352 | 443 | 32 | 46 | 14 | 4 | 1 | 0.3 | 110 | 58 | 48 | 62 | 16 | 89 |
| 22MAC093 | 508071 | 7171352 | 435.5 | 46 | 47 | 1 | 200 | 1 | 0.3 | 104 | 47 | 56 | 48 | 17 | 77 |
| 22MAC094 | 508249 | 7171517 | 481 | 0 | 2 | 2 | 1 | 23 | 2.4 | 399 | 152 | 260 | 139 | 71 | 275 |
| 22MAC094 | 508249 | 7171517 | 471 | 2 | 20 | 18 | 2 | 27 | 1.9 | 292 | 141 | 141 | 151 | 42 | 226 |
| 22MAC094 | 508249 | 7171517 | 456 | 20 | 32 | 12 | 3 | 31 | 4.4 | 1925 | 426 | 1498 | 428 | 181 | 764 |
| 22MAC094 | 508249 | 7171517 | 443 | 32 | 46 | 14 | 4 | 21 | 1.8 | 634 | 266 | 386 | 248 | 120 | 466 |
| 22MAC094 | 508249 | 7171517 | 435.5 | 46 | 47 | 1 | 200 | 36 | 1.4 | 554 | 237 | 327 | 227 | 96 | 398 |
| 22MAC095 | 508027 | 7171729 | 477 | 0 | 10 | 10 | 1 | 33 | 2.4 | 210 | 92 | 116 | 94 | 30 | 152 |
| 22MAC095 | 508027 | 7171729 | 469.5 | 10 | 15 | 5 | 2 | 32 | 2.2 | 255 | 124 | 123 | 132 | 34 | 191 |
| 22MAC096 | 508113 | 7171858 | 477 | 0 | 10 | 10 | 1 | 47 | 2.3 | 218 | 94 | 124 | 94 | 33 | 154 |
| 22MAC096 | 508113 | 7171858 | 460 | 10 | 34 | 24 | 2 | 28 | 1.4 | 131 | 50 | 82 | 49 | 22 | 92 |
| 22MAC096 | 508113 | 7171858 | 445 | 34 | 40 | 6 | 3 | 20 | 1.5 | 503 | 120 | 431 | 72 | 103 | 274 |
| $22 \mathrm{MAC096}$ | 508113 | 7171858 | 438.5 | 40 | 47 | 7 | 4 | 19 | 3.3 | 844 | 219 | 664 | 180 | 130 | 423 |
| 22MAC096 | 508113 | 7171858 | 434.5 | 47 | 48 | 1 | 200 | 18 | 1.3 | 554 | 232 | 336 | 218 | 97 | 399 |
| 22MAC097 | 508163 | 7172048 | 479 | 0 | 6 | 6 | 1 | 75 | 1.8 | 223 | 74 | 153 | 70 | 33 | 141 |
| $22 \mathrm{MAC097}$ | 508163 | 7172048 | 469 | 6 | 20 | 14 | 2 | 44 | 1.6 | 459 | 151 | 326 | 133 | 77 | 295 |
| 22MAC097 | 508163 | 7172048 | 455 | 20 | 34 | 14 | 3 | 23 | 1.8 | 1527 | 433 | 1198 | 330 | 294 | 885 |
| $22 \mathrm{MAC097}$ | 508163 | 7172048 | 446 | 34 | 38 | 4 | 4 | 26 | 1.0 | 782 | 293 | 539 | 243 | 167 | 572 |
| $22 \mathrm{MAC097}$ | 508163 | 7172048 | 443.5 | 38 | 39 | 1 | 200 | 14 | 0.7 | 363 | 158 | 211 | 153 | 65 | 275 |
| 22MAC098 | 508289 | 7172360 | 480.5 | 0 | 3 | 3 | 1 | 68 | 2.2 | 312 | 96 | 235 | 78 | 58 | 190 |
| 22MAC098 | 508289 | 7172360 | 472.5 | 3 | 16 | 13 | 2 | 50 | 1.2 | 225 | 67 | 175 | 51 | 46 | 139 |
| 22MAC098 | 508289 | 7172360 | 457 | 16 | 34 | 18 | 3 | 33 | 1.9 | 862 | 304 | 613 | 248 | 181 | 610 |
| 22MAC098 | 508289 | 7172360 | 446.5 | 34 | 37 | 3 | 4 | 15 | 1.1 | 516 | 201 | 342 | 174 | 106 | 392 |
| 22MAC098 | 508289 | 7172360 | 444.5 | 37 | 38 | 1 | 200 | 12 | 1.1 | 512 | 203 | 337 | 174 | 107 | 393 |
| 22MAC099 | 508013 | 7172034 | 480 | 0 | 4 | 4 | 1 | 125 | 2.6 | 338 | 109 | 244 | 94 | 61 | 219 |
| 22MAC099 | 508013 | 7172034 | 474 | 4 | 12 | 8 | 2 | 18 | 1.4 | 308 | 150 | 144 | 164 | 40 | 235 |
| 22MAC099 | 508013 | 7172034 | 459 | 12 | 34 | 22 | 3 | 17 | 1.6 | 643 | 228 | 447 | 196 | 125 | 434 |
| 22MAC099 | 508013 | 7172034 | 445 | 34 | 40 | 6 | 4 | 20 | 1.8 | 614 | 249 | 383 | 231 | 117 | 448 |
| 22MAC099 | 508013 | 7172034 | 441.5 | 40 | 41 | 1 | 200 | 2 | 1.1 | 96 | 40 | 48 | 48 | 10 | 72 |
| 22MAC100 | 508177 | 7172312 | 478.5 | 0 | 7 | 7 | 1 | 171 | 1.7 | 151 | 66 | 80 | 71 | 18 | 105 |
| 22MAC100 | 508177 | 7172312 | 470.5 | 7 | 16 | 9 | 2 | 35 | 0.9 | 121 | 52 | 67 | 54 | 18 | 91 |
| 22MAC100 | 508177 | 7172312 | 460 | 16 | 28 | 12 | 3 | 21 | 1.1 | 658 | 215 | 480 | 178 | 128 | 450 |
| 22MAC100 | 508177 | 7172312 | 453.5 | 28 | 29 | 1 | 200 | 20 | 1.2 | 1016 | 350 | 688 | 328 | 156 | 674 |

