

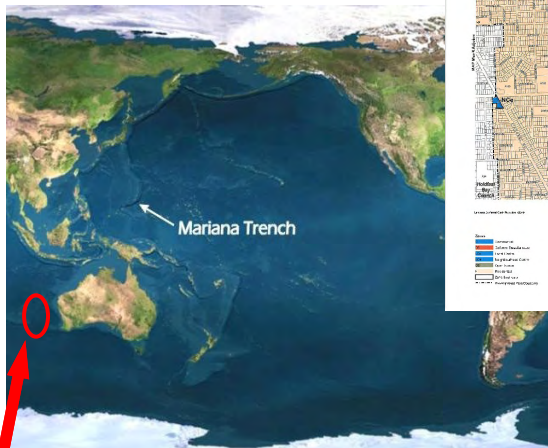
Thank You to our readers and clients for the continued positive feedback about our newsletter.

Recently we enjoyed an evening with some of you, to share our passion on Land Divisions. Thank you for those who attended. If you missed this opportunity, we will be repeating this session in early 2017.

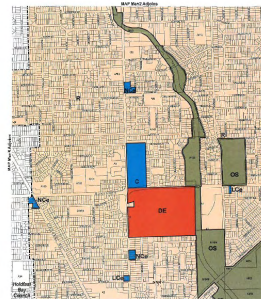
The oceans are still a big mystery to most. Their vastness is explored in the articles on the oceans depths and the search for MH370. We also share a taste from our Land Division Session when we touch on planning rules and zones.

Enjoy what's left of Spring and the cool nights. Summer is not too far away.

Michael—Ed



Search Area for MH370



Zoning Map



Michael discusses Council Zoning— when considering a Land Division

Arguably, the biggest single factor affecting the land division potential of your property is its zoning in the relevant Council Development Plan.

Councils control development by zone rules and policies within their Development Plan. When we talk about these things, what we really mean are the characteristics and criteria that have been set by council to ensure appropriate and ordered development takes place. It might be for commercial, industrial or residential uses.

The 'Development Plan' which lists council's objectives, character and principals for each of the individual areas within the council, relate to:

- buildings,
- the use of the land
- as well as Land Division's themselves.

There tends to be a bit of wading through rules to clarify what exactly relates to your needs. That's what we are good at!

For land divisions, at the basic level, the criteria can be as simple as, how much land area you have.

For example, if you have 1200m² of land and the minimum area for your zone is 300m² for detached dwellings, this might mean you could have up to 4 allotments. But then we consider minimum widths of allotments, and if an existing house impacts on allotment boundaries and also, some councils have slope related factors that affect the minimum size of allotments.

This is something that we would love to talk to you about when you are considering a land division.

Land Division Information Session

Thanks to everyone that was able to come to our most recent Land Division Night. It was great to be able to discuss the Land Division Process that is followed in South Australia.

The feedback that we have received is that attendees thought it was very worthwhile and that they would recommend it to others considering a Land Division.

Our plan is to repeat this session in late February 2017. Keep an eye out for an invitation in the New Year or log your interest by emailing—admin@mgsurveys.com.au



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How Deep Is The Ocean?

"We know only too well that what we are doing is nothing more than a drop in the ocean. But if the drop were not there, the ocean would be missing something."

— **Mother Teresa**

Over the last 50 + years there has been much interest in Space and its parameters. Until perhaps more recently the interest in the ocean and its depth has been minimal.

Mount Everest, 'the highest mountain in the world,' has climbers from everywhere travel to Everest hoping to earn the distinction of climbing the 'World's Highest.' What does 'world's highest' really mean?

Mount Everest is called the world's highest mountain because it has the 'highest elevation above sea level.' We could also say that it has the 'highest altitude.' The peak of Mount Everest is 8,850 metres above sea level.

The ocean floor is certainly no flat base of extensive water but holds the highest invert mountain range at the Mariana Trench some 11034 metres deep. The Mariana Trench is a crescent-shaped trench in the Western Pacific, just east of the Mariana Islands near Guam.

(See chart below and map in Editorial)

What does this depth 'look' like?

- 40 m Max depth for Recreational scuba diver
- 301m The height of the Eiffel Tower
- 442m Petronius Twin Towers in KL
- 500m The deepest depth a Blue Whale can dive
- 727m Height of Mount Lofty
- 863m Height of Uluru
- 1000m Max depth the sunlight reaches
- 1171m Height of St Mary's Peak – Wilpena Pound
- 4267m Average depth of the Ocean
- 8848 m Mount Everest Summit
- 8850m Depth that film director James Cameron reached in 2012 while filming *Cirque Du Soleil : Worlds Away*
- 10994m Depth Don Walsh and Jaques Piccard reached in 1960 whilst exploring
- 11034m Depth of the Mariana Trench

And there still seems to be more. The ocean once thought to be lifeless and barren is now known to be quite the reverse. Our world has many parameters and measurable features but there is still more to explore and discover.

Take a look at the **Michael Grear Surveys** website for more information and past issues of **The Survey Datum**
@ www.mgsurveys.com.au



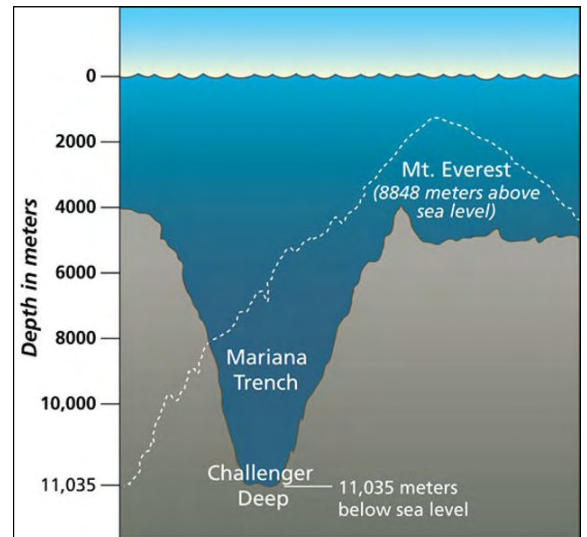
Searching The Ocean

It appears the MH 370 search (2 000 km off the coast of Western Australia) is coming to a pivotal moment. 110 000 km² of the 120 000km² search area has been completed, predicting that the search will conclude in February 2017.

The Joint search by Australia, Malaysia and China currently consists of three Survey Ships *Fugro Discovery*, *Fugro Equator* and *Dong Hai Jiu 101*, each with underwater scanning 'vehicles'. It is a complex and lengthy process. Due to the incredibly mountainous terrain of the seabed floor and the depth of water (some areas 6000m deep), a preliminary high level 'Bathymetry' survey to map the sea floor was undertaken. This was to ensure the remotely operated scanning vehicles, which float much closer to the sea floor, don't get damaged or destroyed by the severe terrain. Using location technology the ships can guide the Remotely Operated Vehicles (ROV) up and over the varying floor bed to obtain maximum scanning coverage.

Following a meeting on 22 July 2016, with Ministers from Malaysia, Australia and the Republic of China, it was announced that, in the absence of credible new evidence, the search would be suspended upon completion of the 120,000 square kilometre search area.

If however, further credible evidence as to the location became available, then the search may be resumed.



Mariana Trench and Mount Everest Comparison

