



# The Dirt Digger

Issue 27 December 2010

News from  
12d Solutions



## Welcome

...to the **December 2010** issue of the **Dirt Digger**.

What a blur this past year has been! We say this every year, but it feels like only yesterday we were putting together our end-of-2009 issue!

In this issue we will look at:

- **The upcoming V10**
- **Who won 'Sales Region of the Year'**
- **12d 'goes green'**
- **Holiday season closures**
- **Case study: Ormeau Ridge**

An action-packed issue, we're sure you'll agree!

We wish you all the best for the upcoming festive season, and look forward to keeping in touch with you throughout 2011.

Regards,

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## V10 is coming!

The programmers have had their heads down to make sure that V10 is packed full of features for the 2011 rollout.

New features include 12d Pickup; 12d Setout

## Sales Region of the Year

It may not come as a big surprise, but it's still a wonderful achievement...Qld was 'Sales Region of the Year' (for FY09/10) yet again! NSW/ACT/SA Distributor Extra Dimension Solutions was hot on their heels this time, though, so we might see a 'turnaround for the books' next time around!

Financial Year 2009/2010 saw continued success in 12d Model sales; we feel very lucky to have been relatively unaffected by the Global Financial Crisis. Now that the global economy has begun to stabilise, we expect to see continued rises in sales in this current financial year.

A big 'thank you' goes out to all our loyal customers, and a big 'welcome' to all our newcomers (see page 4 - 'Welcome Aboard' for a taste of some of the names of customers who've purchased or upgraded in recent times; stay tuned for more names in coming issues!).

enhancements including multi-facing, multiinstrument setout, and enhanced customisation; Survey Reduction Editor enhancements for large field files; audio feedback; interactive chains; parametric object generators for intersections, turning lanes and roundabouts; named parts for Super Alignments; parallel transitions; road design checker; SuperGrids; GIS interoperability; XML reports; name masks for data selection; XPS plotting; dynamic perspective cameras with plan view navigation; smart log lines in panels; macro log lines; animated 3d visualisations (timelines); virtual sharing; pumps in Dynamic Drainage Analysis; drainage pipe thickness; dynamic section views of drainage results; enhanced drainage reporting; Tuflow interface, to name just a few.

## Reduce CO<sub>2</sub> with 12d Field!

In this day and age where environmental issues are at the forefront of company discussions, it is becoming increasingly important to 'think outside the box'.

Survey teams at a growing number of 12d customer sites have done just this – through combining the use of 12d Field out on site, and simultaneously linking to 12d Model projects and GIS data stored back in the office.

12d Field is a 12d Model module which is designed to give Surveyors and Engineers the ability to use the full functionality of 12d Model on small daylight-readable tablets and notebooks whilst out on site.



The power lies with having 12d Model and 12d Field as part of the client's software suite. Clients then have the freedom to work with entire 12d projects either in the office, or remotely on site and send information back to designers and GIS officers in the office. (and vice versa).

Entire 12d projects can be easily connected to and setout with survey accuracy, all without having to drive back to the office, and more importantly without relying on static data import/export. The connections to 12d projects and GIS data allow seamless integration for the surveyor and designer.

One client has estimated the reduction in CO<sub>2</sub> greenhouse emissions to be 676kg per year through the savings in vehicle trips achieved by being able to access data in 12d Field without having to return to the office from the site.

Another important advantage of 12d Field is that it allows the user to focus on ensuring greater project quality in a substantially shorter time frame than was

traditionally possible. Survey data reductions happen on the fly and are instantly viewable on the tablet PC for error checking.

Plus 12d projects and GIS data can be easily connected to and setout with survey accuracy, all without having to drive back to the office, and more importantly without relying on static data import/export. The connections to 12d projects and GIS data allow seamless integration for the surveyor and designer. All this at a competitive price!

Internationally, we are seeing companies embracing technologies that maintain quality and promote energy conservation. Ultimately, embracing such technology is also proving to help with economic profitability.

Stay tuned to this space for more...

## 'Going green' again - Invoices can now be emailed

To help reduce our environmental footprint, 12d Solutions has been modifying its invoicing system to allow for the emailing of invoices. This is entirely voluntary for customers but if you are currently receiving invoices from 12d Solutions and are happy to receive them by email rather than post, please email [lauren.ginns@12d.com](mailto:lauren.ginns@12d.com) for more information. Just one more step in our quest to 'go green'.

## Holiday season closures

Head Office in Sydney will be closing for the holidays on the afternoon (approx. 2pm) of Thursday 23rd December 2010, and re-opening the morning of Tuesday 4th January 2011.

The London office will only be closed on public holidays over the Christmas period.

Have a wonderful and safe holiday season. We look forward to dealing with you again in 2011.





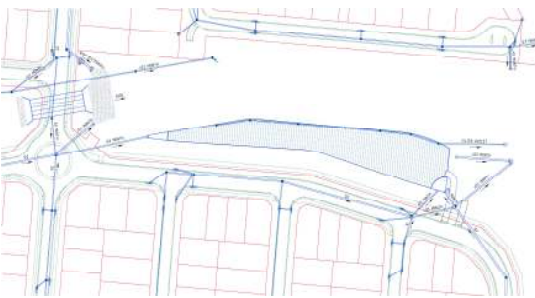
## Ormeau Ridge Development

Ormeau Ridge is an 890 lot residential subdivision located adjacent to an existing flood plain and within the Gold Coast / Brisbane "Green Belt".



The need for compensatory earthworks for flood mitigation requiring the placement of bio-retention basins above major storm levels presented technical challenges for piped stormwater conveyance systems.

Mortons Urban Solutions was commissioned to undertake the design, project management and construction supervision of the project to help fulfil the regions demand for residential lots in what is the fastest growth corridor in Australia.



The restrictive floodplain dynamics presented opportunities to utilise the full potential of 12d Dynamic Drainage Analysis (DDA), and permitted calculations, iterations and interrelations to be modelled that would be unthinkable in other drainage analysis packages.

In order to fully utilise the site's potential an end of line bio-filtration approach was adopted, however this presented additional problems with conveyance of

large quantities of piped stormwater.

12d's Dynamic Drainage Analysis facilitated the design of a highly interrelated system incorporating bio-filtration basins, piped drainage, multiple bi-directional pits and overland flow components, with each component affecting the functioning of the other.

A series of 16 bi-directional pits within the estate permitted low flows (Q3 month) to be directed towards bio-filtration basins, whilst larger flows were discharged directly into the floodplain, thus allowing pipe and pit sizes to be minimised over many kilometres of pipe. The result was a highly functional and cost efficient stormwater system.



The development has obtained preliminary approval with the initial stages granted subdivisional approval. Site works commenced in July 2010.

Liaison between Mortons Urban Solutions and 12d Solutions led to enhanced capabilities in the 12d Dynamic Drainage Analysis and Drainage Network Editor that Morton Urban Solutions can continue to use on projects throughout Queensland and Northern New South Wales.

The stability and ability of the Drainage Network Editor and the Dynamic Drainage Analysis is permitting rapid and cost effective design solutions on residential, commercial and industrial developments of up to 4,500 lots.



### SALES & SUPPORT

#### AUSTRALIA

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## Welcome Aboard to our New Licences and Upgrades from...

Abigroup - NSW, Qld, Vic  
 Adamson - NZ  
 ADW Johnson - NSW  
 AECOM - ACT, NSW, Qld, SA, WA; NZ; Middle East  
 Aerometrex - SA  
 Akiyama Yuabisu Construction Co. - Japan  
 Al Habtoor Leighton Group - UAE  
 Al Ryum Group - UAE  
 Alexander and Symonds - SA  
 Alluvium Consulting - Qld  
 AMEC Minproc - Qld  
 Aquaterra - WA  
 Arup - NSW, Qld, Vic, WA; UK  
 Asset Mapping and Surveying - NSW  
 Atteris - WA  
 Aurecon Group - Qld, WA; NZ  
 Ausenco - Qld  
 Auspat Australia - NSW  
 Australian Antarctic Division - Tas  
 Australian Survey Hire - Qld  
 Australian Water Environments - SA  
 AWJ Earthmoving - NSW  
 Axis Consultants - NZ  
 Ayson & Partners - NZ  
 Azri Architects Engineering Consultants - Oman  
 Balfour Beatty United Group JV - NZ  
 Bass Coast Shire Council - Vic  
 Bateman Engineering - WA  
 Batu Tiga Quarry - Malaysia  
 BCH Engineering Consultants - WA  
 Beca Infrastructure - NZ  
 Bellingen Shire Council - NSW  
 Bereza Civil Surveys - ACT  
 BG & E Consulting Engineers - WA  
 BGC Contracting - Qld, WA  
 BHC Consulting - NZ  
 Big Fish Estimating - WA  
 Birch Surveyors - NZ  
 Bloxam Burnett & Olliver - NZ  
 BMD Group - NSW, Qld  
 BMT WBM - Qld  
 Bolte Industries - NSW  
 Bornhorst and Ward - Qld  
 Brailsford - NSW  
 Brandon & Associates - Qld  
 Brierty Contractors - WA  
 Brisbane City Council - Qld  
 Brock & Associates - Qld  
 Brown Consulting - NSW, Qld, Vic  
 Buckton Consultants - NZ  
 Bundaberg Regional Council - Qld  
 Buro Happold - UK  
 Cairns Regional Council - Qld  
 Calibre Projects - WA  
 Calibre Rail - Qld, WA  
 Canterbury Waste Services - NZ  
 Cape Range Surveys - UK  
 Capital Consulting Engineers - NSW  
 Cardno - NSW, Qld, Vic, WA; NZ  
 Cato Bolam Consultants - NZ  
 Central Surveys - NZ  
 Centurion Civil - NSW  
 Charter Keck Cramer - Vic  
 Christchurch City Council - NZ  
 CID Consultants - WA  
 Civil Services (HB) - NZ  
 CKL Surveys - NZ  
 Co-operative Bulk Handling - WA  
 Coffs Harbour City Council - NSW  
 Coleman Engineering Services - ACT  
 Construction Survey - NSW  
 Cook Shire Council - Qld  
 Covey & Associates - Qld  
 CPG - Vic; NZ  
 Craig Fernandez - Qld  
 Custom Spatial Solutions - SA  
 Cuttriss Consultants - NZ  
 D. Hunt & Associates - NSW  
 Dalton Consulting Engineers - Vic  
 Dance Contracting - NSW  
 Daracon Group - NSW  
 Darkcloud - Qld  
 Davie Lovell Smith - NZ  
 Dawood Engineering Consultancy - Oman  
 de Groot and Benson - NSW  
 Department of Defence (Army) - NSW  
 Department of Military Works - UAE  
 Department of National Roads - Fiji  
 Dept of Transport and Main Roads - Qld  
 Development Engineering Consultants - WA  
 Dinas Energi Dan Sumber Daya Mineral (ESDM) Jatim - Indonesia  
 DKS Consulting - Qld  
 DM Gerloff & Associates - WA  
 Don Stizza & Associates - Vic  
 DPI - Construction Division NT - NT  
 DSC Group - NSW  
 DTEI - SA  
 Dubai Gulf Contracting - UAE  
 Dubbo City Council - NSW  
 Dutco Balfour Beatty - UAE  
 Dutco Construction Co. - UAE  
 Dynamic Satellite Surveys - Qld  
 Eliot Sinclair & Partners - NZ  
 Energex - Qld  
 Engenium - WA  
 Engineering Surveys - SA  
 Environment Canterbury - NZ  
 ESO Surveyors - NSW  
 ETS Group - Qld  
 Everitt and Everitt - NSW  
 Ferronseal - WA  
 Flame Tree Developments - NZ  
 Fluor Australia - WA  
 Fugro - WA; UAE  
 Full Noise - NSW  
 Fulton Hogan Group - NSW, Qld  
 Gadang Engineering - Malaysia  
 GEO Image Services - NSW  
 Geo-Metric Surveying - NSW, Qld  
 GHD - Qld  
 Gilbert and Sutherland - Qld  
 GM-CCS - Qld  
 Gold Coast City Council - Qld  
 Griffith City Council - NSW  
 GTR Singapore - Singapore  
 Gundagai Shire Council - NSW  
 Halls Frupp Surveying - Qld  
 Hamamatsu Photonics K.K. - Japan  
 Hard and Forester - NSW  
 Hardy Bros Mining and Construction - NSW  
 Harrison Grierson - NZ  
 Hawkins Hook & Co. - NSW  
 Hibiscus Contractors - NZ  
 Hick Bros Civil Construction - NZ  
 Higher Colleges of Technology - UAE  
 Hille Thompson and Delfos - WA  
 Horizon Lines - WA  
 Hughes Trueman - NSW  
 Hyder - NSW, Qld; Ghantoot  
 Hyundai Engineering/Construction - UAE  
 I<sup>3</sup> Consulting - Qld  
 Indesco Consulting Engineers - ACT  
 Infinity Surveys - ACT  
 Integra Surveys - Qld  
 Irrigation Department - Thailand  
 J. Suffolk Investments - NSW  
 J. Wyndham Prince - NSW  
 JCA Land Consultants - Vic  
 Jensen Bowers Group - Qld  
 John P Henderson - NZ  
 Juffermans Surveying - NZ  
 Jurutera Perunding HRM Perkasa - Malaysia  
 K & L Engineering Survey  
 Consultant - Qld  
 Kehoe Myers - Qld  
 Kellogg Brown and Root - Qld, WA  
 Knobel Consulting - Qld  
 Kumpulan Liziz - Malaysia  
 Laing O'Rourke - NSW, Qld  
 Lamb and Molloy - NZ  
 Lambert and Rehbein - Qld, Vic  
 Land Dimensions - NZ  
 Land Information New Zealand - NZ  
 Land Surveys No Problems Just Solutions - WA  
 Landmark Surveys - NSW  
 Lands and Survey - NZ  
 Langkilde Engineering Services - WA  
 Latitude Surveying - NZ  
 LBS Engineers - Solomon Islands  
 Leighton Abigroup JV - Qld  
 Leighton Contractors - NSW, Qld  
 Lendrum & Associates - NZ  
 Leroy Palmer & Associates - Qld  
 Logan City Council - Qld  
 LogiCamms - Qld  
 Lowenstein and Stumpo - Qld  
 Luke Georgiou - Vic  
 Lynton Surveys - NSW  
 M/S Gawadar Development Authority - Pakistan  
 McAnany Consulting - Qld  
 McConnell Dowell - Qld  
 McFarlane Geomatics Australia - NSW  
 Mackay Regional Council - Qld  
 Mackay Surveys - Qld  
 McMurtrie & Associates - Qld  
 McVeigh Consulting Engineers - Qld  
 Martens & Associates - NSW  
 Melbourne Airport - Vic  
 Melbourne Water - Vic  
 Millar | Merrigan - Vic  
 Mine Survey Services - WA  
 Ministry of Infrastructure and Planning - Cook Islands  
 Minstaff Survey - Qld  
 Monteath and Powys - NSW  
 Moreton Bay Regional Council - Qld  
 MPA Surveying - Qld  
 MTD Prime - Malaysia  
 Muir Associates Dublin - Ireland  
 MWH - Qld; NZ  
 Newnham Karl Weir & Partners - NSW  
 Nicholson Surveying - NZ  
 Nigel McDonald - ACT  
 Northern Grid Alliance  
 Northrop Engineers - NSW  
 Ocean Park Consulting - Qld  
 Ontrack - NZ  
 Opus - Qld; NZ  
 Oswald Bros Civil - Qld  
 Pacific Survey - NSW  
 Palmer Bruyn Surveys - NSW  
 Papuan Oil Search - NSW  
 Paragon Consulting Engineers - Qld  
 Parsons Brinckerhoff - NSW, Qld, SA, Vic, WA; Philippines  
 Paterson Pitts Partners - NZ  
 Paul McNeill - Qld  
 Pegasus Civil - NZ  
 Peter Hill Consulting Engineers - WA  
 Pirie Surveying - NZ  
 Pitt and Sherry - Vic  
 PJ Shaw & Associates - ACT  
 Plateway - NSW  
 Platinum Surveys - WA  
 Probuild Civil - Qld  
 Projectum - ACT  
 Projex North - Qld  
 ProScape - UAE  
 ProSurv - NSW, Qld  
 PT Bukit Makmur Mandiri Utama - Indonesia  
 PT Kalimantan Prima Persada - Indonesia  
 PT Kideco Jaya Agung - Indonesia  
 PT Pama Persada Nusantara - Indonesia  
 PT Saptaindra Sejati - Indonesia  
 PT Triple C - Indonesia  
 Pulver Cooper and Blackley - NSW  
 Queensland Surveying Solutions - Qld  
 QR Limited - Qld  
 Rapid Surveys - Qld  
 Redland City Council - Qld  
 Reed Constructions Australia - NSW  
 Reyburn and Bryant - NZ  
 Ridge Consolidated - NSW  
 Riley Consultants - NZ  
 Rio Tinto - Qld, WA  
 Riverlea Corp - WA  
 Rivland Surveyors - NSW  
 RJ McGaw - Zimbabwe  
 Roads and Traffic Authority - NSW  
 Robert Bird Group - Qld  
 Robson Civil Projects - NSW  
 Ross Robinson Surveys - NSW  
 RPC - NZ  
 RPS - Qld  
 Sandeep Baral - Vic  
 Second Nature Engineering - Vic  
 SEE Civil - NSW  
 Shadforths Civil Contractors - Qld  
 Shamrock Civil Engineering - Qld  
 Shimizu Corporation - UAE  
 Sinclair Knight Merz - NSW, Qld, SA, Vic, WA; Fiji; NZ; UK  
 Singleton Shire Council - NSW  
 SJW Survey - NSW  
 SKS Surveys - SA  
 SMEC - NSW, Qld, Vic, WA  
 SNL Survey - Qld  
 South Burnett Regional Council - Qld  
 Southern Land CKL - NZ  
 SPIE CAPAG Australia - Qld  
 St Quentin Consulting - Vic  
 Staig and Smith - NZ  
 Stevenson Surveys - Qld  
 Stewart Group - NZ  
 Stringer Surveys - Qld  
 Sunshine Coast Regional Council - Qld  
 Survey and Pipeline Contractors - NSW  
 Survey North - WA  
 Survey of Pakistan - Pakistan  
 Surveying The Bay - NZ  
 Surveyors @ Work - Qld  
 Swan Surveys - WA  
 Sydney Water - NSW  
 TABEC - WA  
 Tablelands Regional Council - Qld  
 Tenix Alliance - Qld  
 Terraco - Vic  
 TGM Group - Vic  
 The Ottago Surveying Company - NZ  
 The Surveying Company - NZ  
 Thiess - NSW, Qld  
 Thiess - Hinze Dam Alliance - Qld  
 Timaru District Council - NZ  
 TMK Consulting Engineers - SA  
 Tomlinson and Carruthers Surveyors - NZ  
 Tonkin and Taylor Group - NZ  
 Tony Rose Surveying - NSW  
 Toowoomba Regional Council - Qld  
 Townsville City Council - Qld  
 Tracksure - NSW  
 Traffic Design Group - NZ  
 United Group - Vic  
 United Water - SA  
 University of South Australia - SA  
 URS - NSW, Qld, Vic  
 Valley Survey Company - NZ  
 Vassallo Constructions - Qld  
 VDM Group - Qld, WA; Vietnam  
 VEKTA - NSW, WA  
 Voran - WA  
 Wade Adams Contracting - UAE  
 Waikato Institute of Technology (Wintec) - NZ  
 Wallbridge and Gilbert - NSW  
 Water Technology - Vic  
 Waterman Group - UK  
 Wave Engineering Solutions - Qld, WA