

TERRA SOLUTIONS can help

data collection
data creation
data presentation
database design/management
gps field inventory
integrated enterprise solutions



GIS Management and
Environmental Consulting

TERRA SOLUTIONS

How Terra Solutions Can Benefit Your Company

PROVIDING YOUR BUSINESS THE TECHNOLOGY RESOURCES YOU NEED

Professional GIS software and hardware can be costly. Hiring an in-house GIS professional can also be quite costly. **Terra Solutions** can help your company keep these costs down.

Terra Solutions offers as-needed services. This means **Terra Solutions** can work as many hours as necessary to complete a project for your important client, or work no hours if no project help is needed. No long-term commitment and often our client can pass our cost onto their client, possibly with some markup.

As GIS professionals familiar with many disciplines and businesses, **Terra Solutions** can work with you to develop GIS solutions to fit your business needs. With competitive pricing **Terra Solutions** can provide you with an efficient and cost-effective solution for your spatial jobs without hiring full-time GIS staff.

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flexible GIS solutions for your business needs

INCREASED EFFICIENCY

GIS may be the leading technology for making better location related decisions. Making correct decisions about location is critical to the success of an organization. Some examples may include:

- Vineyard/Crop Planning
- Habitat Conservation
- Resource Extraction/Transportation
- Utility Location
- Wildlife Corridors/Routes

IMPROVED COMMUNICATION

Maps and visualizations derived from a GIS can greatly assist in understanding situations and in telling the story. GIS maps improve communications between different teams, departments, disciplines, professional fields, organizations, and the public. Data in a spreadsheet or report may not be as effective without a map.

GEOGRAPHIC MANAGEMENT

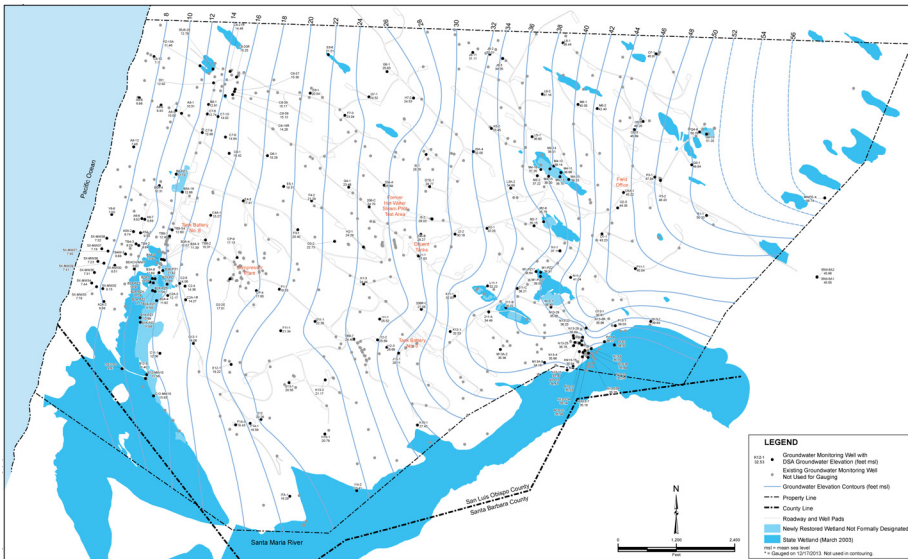
GIS can be critical to understanding what is happening - and what will happen - in geographic space. Understanding allows us to determine action and by managing geographically we can transform the way an organization operates.

Through the use of GIS, **Terra Solutions** can actually help you save money on your project, provide you with maps and figures that will explain your story more effectively, and manage your data in true geographic space.



Data collection using Trimble GeoExplorer 6000 GPS unit with attached Tornado antenna

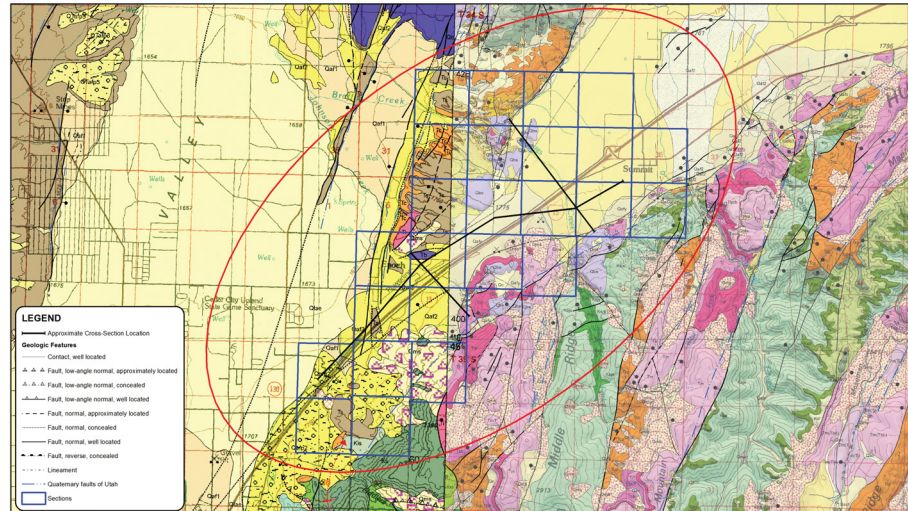




Groundwater contour map derived from monitoring well depth to water readings. Contours created using spatial analysis.

WE WORK WITH YOU TO DEVELOP GIS SOLUTIONS THAT FIT YOUR BUSINESS NEEDS

Geology map with cross-section locations

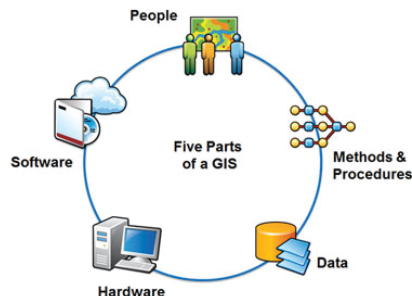


Prepared for:
City of Enoch

Figure 2
Geology Map with Approximate Cross-Section Locations

GIS CAN ASSIST THE FOLLOWING FIELDS AND DISCIPLINES

- ARCHAEOLOGY
- BIOLOGY
- BOTANY
- ENGINEERING
- ENVIRONMENTAL CONSULTING
- ENVIRONMENTAL PLANNING
- EXPERT WITNESS
- GEOLOGY
- HABITAT RESTORATION
- HYDROGEOLOGY
- REMEDIATION
- SURVEYING
- UTILITY LOCATING
- VINEYARD DESIGN/MANAGEMENT
- WETLAND RESTORATION



ENVIRONMENTAL CONSULTING

Terra Solutions has provided a wide range of GIS services to Environmental Consulting firms. These services have included: Database management, GIS data creation, GPS field work and data management, data analysis, data transfer, map creation, GIS website creation and management. Projects have ranged from large oilfield expansion to mapping habitats for a planned home construction.



REMEDIATION

Terra Solutions has provided GIS services for remediation projects throughout California. These services have included: Database management, GIS data creation, data analysis, data transfer, map creation, GIS website creation and management. Projects have ranged from large oilfield remediations to single pipeline removal on a parcel of land.



LITIGATION SUPPORT

Terra Solutions has provided GIS support services that have been used to help expert witnesses prepare for their legal case. Successful resolution of these cases has resulted in approximately \$250 million in insurance settlement. The use of GIS has been instrumental in explaining complex technical information.

ABOUT TERRA SOLUTIONS

Founded by Mike Brannagan in 2002, Terra Solutions is a San Luis Obispo, California-based GIS Management and Environmental Consulting small business.

Terra Solutions has provided GIS services to Local, State, and Federal government agencies, small business to large corporations. From field data collection to project completion, Terra Solutions can help.

Prior to founding Terra Solutions, Mr. Brannagan was a GIS Analyst for an Environmental Consulting firm where he successfully merged 3 GIS professional positions into one position with no loss of client satisfaction. As a GIS Analyst, Mr. Brannagan managed a wide variety of GIS projects for multiple offices, including one of the nations largest oilfield remediation projects.

As a graduate student Mr. Brannagan was employed by the Central Coast Regional Water Quality Control Board (CCRWQCB) as a field technician and as their only GIS analyst. Mr. Brannagan was instrumental in setting up the first license of ArcINFO at the CCRWQCB and instructing staff on the uses and benefits of GIS.

His diverse background has enabled him to understand how to use GIS as an effective tool in project management and for delivering successful project resolution.

Terra Solutions uses the following software and hardware:

ESRI ArcGIS for Desktop (Advanced v10.2)

Adobe Design Premium Suite CS5

Autocad 2010

Microsoft Office

Trimble GPS Pathfinder Office

Apple Computers with Windows 7

Trimble GeoExplorer 6000 Series GPS unit (subfoot accuracy) with Tornado antenna (10 cm accuracy)



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