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Client Solutions

D.G. Smyth & Company:

USING BUILDING FOOTPRINTS & AERIAL PHOTOS FOR PIPELINE ANALYSIS

LAND INFO, a provider of digital geospatial information across the world, supports a wide variety of client projects. D.G. Smyth & Company, a recent first-time client to the company, offers an excellent example use of feature extraction from [DOQQ aerial photos](#).

D.G. Smyth is a successful land surveyor in Texas. Since 1956, the company has conducted boundary and land surveys for government, oil & gas, and utility projects. D.G. Smyth came to LAND INFO with the need to identify properties adjacent to an environmental waste pipeline across the county. Working with LAND INFO Account Manager, Matthew Burcham, D. G. Smyth purchased [color infra-red DOQQ aerial photos](#) and corresponding [building footprints](#) (see above right). LAND INFO extracted the building footprints from the photography and delivered the layer in a separate vector file. This enabled D.G. Smyth to turn the footprint layer on and off, depending on its analysis needs.

D.G. Smyth imported the imagery and building footprints into AutoCad. It then overlaid multiple layers of proprietary data which included the actual pipeline location. Much of



Building footprints extracted from color infra-red aerial photos

this internal data was collected by D.G. Smyth surveyors in the field.

The combined dataset allowed D.G. Smyth to identify residents and properties that needed to be legally notified about the pipeline.

"The imagery and services we received from LAND INFO was great," commented D.G. Smyth, the founder of his namesake company. "It was a very useful tool for our project."

LAND INFO offers [feature extraction from any DOQQ](#). The company offers full coverage of the USGS library. Available feature layers include hydrology, roads, shorelines, building footprints, and custom features. Lines and polygons represent linear features such as roads, and structures. Points are used to represent buildings, wells, cell towers, and other features.

[\(more info...\)](#)

GEOdata News

MEXICO GEOSPATIAL DATA ADDED TO GLOBAL ARCHIVE

LAND INFO International has added nationwide coverage of 1:50,000 and 1:250,000 scale [topographic maps](#) and 3 arc-second [digital elevation models](#) (DEM) for Mexico. Extracted road, hydrology, and feature layers are also available. The digital datasets are fully geo-referenced to accommodate use with GPS, GIS, and engineering applications. LANDINFO.com now offers [special discounts on select Mexico datasets](#).

LAND INFO color scans the paper topographic maps to produce a high resolution, digital image. Latitude



1:50,000 scale topographic maps are available for Mexico

and longitude coordinates are then assigned to each map. This enables engineers, GIS project managers, and other end users, to overlay other geospatial data on top of the base topographic map. For example, oil & gas engineers may overlay satellite photos and proprietary

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