



# GPS-Based Excavation Encroachment Notification

DTPH56-08-T-000017

## PHMSA ACCOMPLISHMENTS

Pipeline and Hazardous Materials Safety Administration

Pipeline Safety Research and Development

Technology Development for Improved Threat Prevention

### Project Abstract

This project further developed and demonstrated a GPS-based system to alert digging excavators before damaging pipelines. The system also can notify inspectors of excavation activity that is occurring in an area without a valid one-call ticket or excavation activity that is encroaching upon underground facilities.

**PHMSA Funding:** \$390,601

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### Commercial Partner

UtilAlert by Hydromax  
<https://www.hydromaxusa.com>  
<http://www.utilalert.com>

### NET Improvement

The GPS Excavation Encroachment Notification (EEN) system developed through the PHMSA project was a crucial component in the final commercial product which was licensed to HydromaxUSA under the product name UtilAlert. The benefits of using this product include minimizing the cost of damages, avoiding delays to completion schedules, enhancing safety for workers and general public, and enhancing situational awareness and reducing risks for stakeholders.

**US Patent under DOT Contract:**  
N/A



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