



**Excavator**

Dial 811

**State  
Excavation  
One-Call-  
Center**

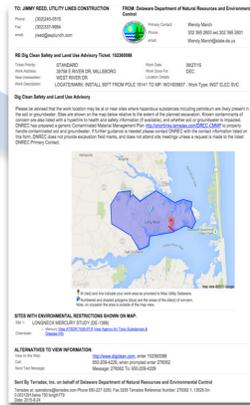
**Terradex  
Dig Clean**

**State  
Environmental  
Agency**

Hazard Advisory

- ◆ Receives Excavation Notice
- ◆ Maps Notice Relative to Contaminated Sites
- ◆ Builds Hazard Advisory Alert
- ◆ Transmits Alert via Voice, Fax, SMS and Web
- ◆ Notify Environmental Agency of High-Risk Excavations

- ◆ Provides contaminated site inventory
- ◆ Flag High-risk Contaminated Sites for Priority Alerts
- ◆ View Excavations on web map, Google Earth or ArcGIS
- ◆ Monitors Land Use Compliance Reports



**Dial 811, and Dig Clean sends hazard advisories to excavators warning of soil and groundwater contamination, institutional and engineering controls.**

**The Need to Protect Contaminated Sites from Excavations.** Study after study conclude that the “one call” or “call before you dig” system provides one of the best practices to monitor institutional and engineering controls or to otherwise protect contaminated sites from inappropriate or unsafe excavations. By preventing excavations at contaminated sites, these systems can also inform excavators from potentially harmful environmental exposure.

The “One-call” utility protection system operates nationwide in a process like this: Those who own or operate underground hazards register their areas of concern with the one-call centers. Excavators must, under various state one-call laws, dial 811 to reach the one-call centers before they dig. The centers, in turn, notify all the registered underground hazard owners/operators in the nearby area. Finally, these owners/operators communicate to the excavator as to whether and where the underground hazards lie, so the excavators can avoid them.

Increasingly, with the help of the Terradex Dig Clean service, state agencies leverage the one-call process for use at contaminated sites.

**Terradex Dig Clean Provides Statewide Excavation Notices.** Already in operation within a growing number of states, Terradex’s Dig Clean makes it possible for “one-call” services to be applied to contaminated site inventories. Dig Clean mediates the interaction between the excavator, the one-call center, and the state agencies who wish to protect site contamination (and excavators) from inappropriate excavations.

The continuously-operating Terradex Dig Clean service is shown above. The process begins with an excavator calling the one-call system which, in turn, electronically transmits the excavation notice to Terradex Dig Clean. Terradex receives hundreds a day. Dig Clean automatically screens excavation tickets in real-time, alerts state environmental agencies of potential conflicts with contamination, and assembles an advisory notice (a sample is shown on the second page) that can be automatically sent to the excavator. Given that an excavator might use a fax, cell phone or web, the notices arrive either by voice, text, or fax. The excavator reviews a form via the web or fax mapping their excavation extent in relation to the locations of cleanup sites.

The state agency can pick their role. Terradex Dig Clean can automatically send advisories for any excavation that it detects as an “alert,” meaning the excavation seems in conflict with a cleanup site. Agencies can simply monitor the Terradex process, allowing it to send advisory notices for alerts, paying closer attention only when more than an advisory notice seems necessary. Or, agencies can directly control whether and which advisories become issued by reviewing every “alert” and, through the Terradex web interface, manually invoking the advisory process as appropriate.

**About Terradex.** Terradex provides a patented technology and web-based mapping service supported by staff expert in the excavation clearance procedures and long-term site stewardship. Terradex for over ten years has screened thousands of excavation clearances for agency and private clients nationwide. Visit [DigClean.com](http://DigClean.com) or [Terradex.com](http://Terradex.com) to learn more.

# A Representative Dig Clean Excavation Advisory

**TO: JIMMY REED, UTILITY LINES CONSTRUCTION**

Phone: (302)245-  
Fax: (302)337-  
email: jreed@.com

**FROM: Delaware Department of Natural Resources and Environmental Control**



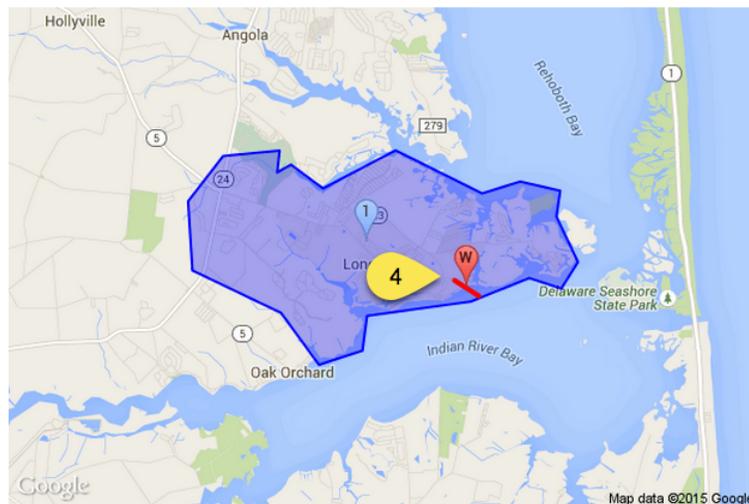
Primary Contact: Wendy March  
Phone: 1 302 395 2600 ext.302 395 2601  
email: Wendy.March@state.de.us

**RE:Dig Clean Safety and Land Use Advisory Ticket: 152360088**

Ticket Priority: STANDARD  
Work Address: 35758 E RIVER DR, MILLSBORO  
Near Intersection: WEST RIVER DR  
Work Description: LOCATE/MARK: INSTALL 90FT FROM POLE 16141 TO MP: WO1605657 . Work Type: INST ELEC SVC  
Work Date: 08/27/15  
Work Done For: DEC  
Location Details:

## Dig Clean Safety and Land Use Advisory

Please be advised that the work location may be at or near sites where hazardous substances including petroleum are likely present in the soil or groundwater. Sites are shown on the map below relative to the extent of the planned excavation. Known contaminants of concern are also listed with a hyperlink to health and safety information (if available), and whether soil or groundwater is impacted. DNREC has prepared a generic Contaminated Material Management Plan (CMMMP) <http://shortlinks.terradox.com/DREC-CMMP> to properly handle contaminated soil and groundwater. If further guidance is needed please contact DNREC with the contact information listed on this form. DNREC does not provide excavation field marks, and does not attend site meetings unless a request is made to the listed DNREC Primary Contact.



W (red) and line indicate your work area as provided to Miss Utility Delaware.  
Numbered and shaded polygons (blue) are the areas of the site(s) of concern.  
Note, on occasion the area is outside of the map view.

## SITES WITH ENVIRONMENTAL RESTRICTIONS SHOWN ON MAP:

Site 1: LONGNECK MERCURY STUDY (DE-1388)  
Chemical: Mercury [View ATSDR 7439-97-6 View Agency for Toxic Substances & Disease Info](#)

## ALTERNATIVES TO VIEW INFORMATION:

View on the Web: <http://www.digclean.com>, enter 152360088  
Call: 650-209-4229, when prompted enter 276062  
Send Text Message: Message: 276062 To: 650-209-4229

**Sent By Terradex, Inc. on behalf of Delaware Department of Natural Resources and Environmental Control**

Terradex at: operations@terradox.com Phone 650-227-3250, Fax 3255 Terradex Reference Number: 276062 1: 13528 0m  
0.00312913area 750 length779  
Date: 2015-8-26

- Excavator can learn a point-of-contact for any contaminated site.
- Agency staff sees timing and description of excavation
- Excavator learns summary hazards, and can be linked to soil management plans.
- Map delineates site boundary and location of excavation.
- Excavator can plan for health and safety using hyperlinks to site chemical health and safety information.
- Excavator finds alternative ways to share and find the information in the advisory.