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| **Environmental Enlightenment #72** By Ami Adini - Reissued November 19, 2017   |  | | --- | | This is a SHORT, LIGHT and SIMPLE newsletter. Its purpose is to rekindle in the initiated terminology they have once learned, and enlighten the uninitiated on terms they may have heard but never known the meaning of. | | **How to Find Buried Objects  Metal Detection**  **http://amiadini.com/NewsletterArchive/171118-NL72/ee-72-1.jpg**  *(The text in this article has been extracted from a publication by the United States Environmental Protection Agency.)*  Metal detectors, also referred to as pipeline and cable detectors, are widely used for locating buried metal objects in a process called metal detection (MD). MD can be used to locate steel and composite (i.e., fiberglass-coated steel) tanks; metal piping; and utilities.  http://amiadini.com/NewsletterArchive/171118-NL72/ee-72-3.jpg  The response of MD decreases dramatically with depth. As a target depth is doubled, the response decreases by a factor of as much as 64 (the response to small objects decreases more rapidly than the response to large objects).  Metal detectors are capable of detecting metal utilities up to 3 feet below ground surface (bgs), a 55-gallon metal drum up to 10 feet bgs, or a 10,000-gallon steel tank up to 20 feet bgs.  Stakes or paint marks are typically placed over targets as the survey proceeds.  The diagram below presents a schematic drawing of MD operating principles.  http://amiadini.com/NewsletterArchive/171118-NL72/ee-72-2.jpg  Care must be taken to minimize noise from metal fences, vehicles, buildings, and buried pipes.   Rebar in concrete is perhaps the most common problem for this method. | | You can find past issues of our "Environmental Enlightenment" at [amiadini.com](http://www.amiadini.com/)Wealth of information about environmental site assessments in the real estate transactions and issues concerning assessment and cleanup of contamination in the subsurface soil and groundwater. |  |  | | --- | | Call me if you have any questions. There are **no obligations.**  Ami Adini Environmental Services, Inc. Environmental Consultants & General Engineering Contractors California Lic. #1009513 A B HAZ ASB **818-824-8102**; [**mail@amiadini.com**](mailto:mail@amiadini.com) [www.amiadini.com](http://amiadini.com/)  Ami Adini is a veteran environmental practitioner with over 40 years of experience. He carries a Bachelor of Science degree (B.Sc.) in Mechanical Engineering including academic credits in Nuclear and Chemical Engineering and postgraduate education in these fields. His career includes design and construction of nuclear plant facilities, chemical processing plants and hazardous wastewater treatment systems. He is a former California Registered Environmental Assessor Levels I & II in the 1988-2012 registry that certified environmental professionals in the assessment and remediation of environmentally impacted land, and a Registered Environmental Professional (REP) since 1989 with the National Registry of Environmental Professionals (NREP). He is a California Business & Professions Code Qualifying Responsible Managing Officer (RMO) in the General Engineering Contractor classification with Hazardous Substance Removal and Asbestos certifications, and president of AMI ADINI ENVIRONMENTAL SERVICES, INC. (AAES), a general engineering contractor and consulting firm specializing in environmental site assessments, rehabilitation of contaminated sites and removal of environmental risks from real-estate transactions. (Contact Ami for a complete resume.) **AAES provides practical solutions to environmental concerns using the highest standards of ethics and integrity while providing its clients with maximum return on their investments.** | |