



**Environmental Due Diligence
Environmental Risk Assessment
Water Quality Assessment**

**Providing Services throughout the Southeastern United States
Since 1996.**

American Owned and Operated Small Business





What is Environmental Due Diligence?

The process of identifying potential environmental liabilities and risks that may or may not have responsibility transfer with transfer of property.

Conducting Environmental Due Diligence:

- **Professional Environmental Experience.**
- **Knowing the correct tools and resources to use.**
- **Knowing where to collect and review information.**
- **Knowing the necessary questions to ask.**
- **Professional environmental experience to interrupt collected data.**
- **Professional environmental experience recognizing potential environmental concerns during onsite property inspection.**

Environmental Due Diligence.

*Nothing Can Be Left to Chance.
Protect Your Liability.*

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Environmental Site Assessment (ESA)

Fact: Land was only created one time.

Fact: Land (Property) has a history of impacts from the time of its creation.

Protecting your liability has never been more important than in current times. Lending Institutions, Property Owners, Business Owners, are at risk.

Rules and Regulations vary widely from state to state, even county to county or city to city. They are also changing frequently. Now, more than ever, it is important to have someone with the knowledge and experience to protect your liability.

The One Thing That is The Same, We Must Protect Our Liability.

Mallard, Inc. (Mallard) can assist you with Environmental

Due Diligence/Environmental Risk Assessment

- Environmental Inspection.
- Transaction Screening.
- Environmental Risk Audit.
- Environmental Compliance Confirmation.
- Phase I/II Environmental Assessment.
- Custom Environmental Services for the Purpose of Protecting Potential Liability Issues.
- Agricultural Land
- Rural Land
- Industrial/Manufacturing/Commercial Land
- Residential Land
- Developed/Undeveloped Land
- Active/Inactive Lands



Agriculture, Plants/Animals, Water Quality, Soil Quality

Pure Clean Water is Essential to Good Health for Humans.

What majority of people do not realize is; all life forms are dependent upon water live. Water quality makes a difference in humans, all animal life, all plant life, ponds, creeks, streams, wetlands, rivers, oceans, etc.

The better the water quality used to grow plants, the healthier the plants. If the plant is used as a food source by humans or animals, and the water is contaminated, or has exceedingly high levels of naturally occurring minerals, this can transfer to the vegetable, fruit, berry, nut, etc.

Private Water Source: Testing is the responsibility of the person or company that owns the well.

Municipal/Public Water Supply: Treated, tested by the agency supplying the water.

Issues with water quality throughout the United States can be found frequently in the media for those on Municipal/Public Water Supply sources, but little is heard about those on private supply sources like drinking water wells. This is concerning on many levels.

From time to time we see where a food product has been recalled due to E-Coli bacteria, or other miscellaneous issues. Some Agriculture businesses used treated water or allow Wastewater Treatment facilities to dispose of sludge materials from treatment plants. Private Water Sources can also be contaminated with such as E-Coli by flooding, depth of the well, etc. used for irrigation. The last thing a farmer needs is to find out is that an illness is due to the water they utilized for irrigation damaged a crop's quality. It is costly, not only in lost time and labor, but this can also be a huge liability issue.

If a company has a contract with a producer to purchase the crop at harvest, animals, or products, it is in the best interest of that company to conduct water tests of irrigation water used to assure crop or animal harvest. This protects the company's interest and liability as well as provides a better-quality product.



Below are some examples of how certain parameters in water and soil can affect plants and animals.

Chlorine: Chlorine is used as a disinfectant by Community/Public water supply to address any Bacteria. Chlorine is not good for plants. Chlorine can kill natural occurring microorganisms that help plant growth.

Fluoride: Fluoride is harmful to plants and animals. Fluoride harms foliage. Overtime, plants absorb to much Fluoride, it will kill the plant. Fluoride is the primary ingredient in rat poison, and in the proper dosage, it can be lethal to animals and humans.

Salts: Salts found in water can hinder the plants ability to absorb water. If salt is absorbed by the roots of plants, plant growth can and will be affected. Depending upon the quantity of salts absorbed over time, plants can and will die.

Iron: High concentration levels of iron in water and soil can be toxic to plants and animals. Iron in water can also clog drip irrigation emitters and other irrigation systems not allowing enough water supply to reach plants.

Calcium: Calcium can affect alkalinity; pH. High levels of Calcium can create an issue with plant nutrient intake. Calcium can build up in all types of irrigation systems not allowing water to adequately reach plants.

Lead: Lead in water and/or soils can be toxic to plants. Inhibits seed germination, root elongation, plant growth. Lead can also be toxic to humans.

In Agriculture related businesses, it is in the best interest of the owner to test the water being used in irrigation and to water livestock, animals, and human consumption. It is in the best interest of any company contracting with an agribusiness, to purchase harvested products, to perform due diligence to assure top quality.

Water and soil testing by a professional, trained in proper collection of samples, testing, reporting, recommendations and familiar with agriculture, is not expensive when compared to poor product quality and reduced yields. The cost of filters and installation to address water quality issues, and maintenance is an inexpensive way to assure water quality. Not all filters are designed to address all water quality needs. It is helpful to have an experienced professional test the water and recommend the proper filter so that the specific issues are addressed.



Mallard, Inc. (Mallard) is committed to providing quality service at a reasonable price, whether on a one-time or contractual basis.

Mallard was established in August of 1996. The owner of Mallard is the 4th generation to own and operate the family farm. She has dedicated her professional career of over 30 years to the cleanup of water, soil, agricultural and environmental hazards. Mallard is familiar with USDA, EPA, ASTM, OSHA, State and Local Agency rules, regulations, and guidelines. You will find attached information on the owner of Mallard and information on how we can assist with water related tasks. We also provide soil sampling. Depending upon the size of the property, we develop a plan, collect samples from various locations, mark each location using gps, marking location and depth on a plot map, and provide the map as part of the summary report and recommendations.

*Mallard, Inc. (Mallard) has you covered. Contact us at:
(850) 326-2154, tina@mallard-inc.com or visit www.mallard-inc.com*

*Sincerely,
Tina Peters
Owner,
Environmental Assessor,
Licensed Well Driller*