



# Spring 2014 Newsletter

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### American has Level 4 Data Packages –

As an upgrade to our highly successful LIMS system, American has integrated full data deliverable packages to assist their clients with Superfund analytical work and Cat B, CLP type deliverables.

### Long Island Bays –

Summer is right around the corner, which means many of us will head out to Long Island for clams bakes and time on the beach. But there's a problem lurking in the waters around the Great South Bay.

## Spring 2014 News

After a long brutal winter, spring has finally arrived in New York and with it comes the promise of being outdoors - and new work!

We have used our winter time wisely, and have been modifying and updating our LIMS system to accommodate Category B, CLP type packages - not an easy task, by any means. To offer the best services and capabilities to our clients, we felt the upgrade was necessary to support their environmental projects with data validator-friendly reports, easily created to provide all analytical data reporting requisites, including raw data and CLP reporting forms.

We also wanted to share some environmental news and interesting developments for the local Long Island Waters in the Great South Bay – Suffolk County, the Nature Conservancy, and local environmental consultants are working on bringing public awareness of the plight of our local waters to the forefront of environmental policy. Our local waters are a great source of leisure and income during the summer months – find out what they are doing about it, and check the links to the left to see what you can do to help minimize our environmental impact.

Our Top Ten list this newsletter focuses on Ecology, and there are some points to ponder regarding our energy consumption and growing need for re-usable consumables. Check the list and let us know what you think!

Spring is...to begin!

## Eco Facts –

Did you know It takes less gasoline to restart your car than it does to let it idle for more than a minute. If all the cars on US roads had properly inflated tires, it would save an estimated 2 billion gallons of gasoline per year and improve your gas mileage 3-7%.

## Links

### Long Island Bays

<http://longislandsoundstudy.net/>

[The Long Island Sound Study](#)

[Check on the Long Island Sound Health Report](#)

<http://www.dec.ny.gov/lands/48375.html>

[NYS Department of Env Conservation](#)

[Facts about Long Island Sounds Watershed from rivers, lakes estuary waters and ocean coastline](#)

## Eco Facts!

<http://www.worldwatch.org/>

*World Watch Institute*

## Level 4 Full Deliverable Packages - Finally!

As an upgrade to our highly successful LIMS system, American has integrated full data deliverable packages to assist their clients with CLP type packages for Superfund Analytical Work, and other projects with requiring a full data deliverables package (Category B) to support the performance of SW-846 methods.

As part of its commitment to developing and maintaining the highest quality services, American Analytical is proud to offer Level 4 packages directly from their LIMS system. The latest upgrade, along with the purchase of four new Gas Chromatography/Mass Spec instruments for the Organic Departments, has proven to be an investment in the company's growth and production.

Data deliverables used to be a cumbersome request, with piles of papers assimilated from various instruments and departments, hours of internal review, and then labor intensive compilation, pagination and assembly. Now, the whole process has been streamlined, with data importing directly from the instruments in real time with raw data, summary forms, and QC. The package is simply a click away in the reporting process, with all results and pertinent info compiled simultaneously. The process is truly paperless, and the delivery time has nearly been cut in half.

Our new reporting capabilities enhances the highly personalized project management services offered to American Analytical clients, and our extensive experience ensures clients accurate data and reliable service in the shortest amount of time!

## Long Island Bays - Troubled Waters for Summer?



Summer is right around the corner, which means many of us will head out to Long Island for clams bakes and time on the beach. But there's a problem lurking in the waters around the Great South Bay.

Water quality in the Atlantic Ocean/Long Island Sound Watershed experiences considerable impact and stress from the a variety of sources throughout the densely populated urban area.

*The World Watch Institute is a globally focused environmental research organization that works to accelerate the transition to a sustainable world.*

<http://www.nrdc.org/>

### **Natural Resources Defense Council**

*The Natural Resources Defense Council (NRDC) with it's 1.4 million members and online activists nationwide, along with a staff of more than 400 lawyers, scientists and other policy experts, seeks sustainable policies from federal state and local government and industrial corporations.*

<http://www.energy.gov/>

### **US Department of Energy**

*The Dept of Energy (DOE) sponsors more research in the physical sciences than any other US federal agency, the majority of which is conducted through its system of National Laboratories.*

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<http://www.linkedin.com/company/american-analytical-laboratories-llc>

According to studies from [The Nature Conservancy](#), excessive nitrogen is polluting the waterways. “We have these symptoms in many places, either harmful algal blooms, some of which are actually toxic to fish and wildlife, some of which are toxic to people,” said Carl LoBue, The Nature Conservancy’s senior marine scientist on Long Island. “So that actually has a big impact on which fish enter our bays, which fish are healthy to eat. And then in some places, like Western Long Island Sound where the water is deep, we get hypoxic dead zones, like you might hear about in the Gulf of Mexico.”

“Half the clams eaten in this country came from Great South Bay at one point,” said Nancy Kelley, Long Island chapter director of The Nature Conservancy. “Annual harvests in the 1970s were upwards of 700,000 bushels a year. That’s [a] 99 percent decline, down to about 10,000 bushels [now]. Clearly there was a problem with our water quality because these systems just weren’t sustaining healthy populations of shellfish.”

Scientists knew nitrogen pollution was a problem in many places throughout the world, but 65 percent of nitrogen leaking into the Great South Bay came from a particularly local source. “The big surprise was that the main culprit, the main source of this excessive nitrogen was from residential home septic systems,” said Kelley.

Now the organization is working on getting residents in problem areas to replace old septic systems with new ones that are designed to prevent excessive nitrogen leakage. That’s not a small feat given the individual investment required by homeowners. “Recent polling indicates that 85 percent of Long Island voters strongly support tougher water quality standards if it means that less nitrogen will enter our waters,” said Kelley. “So they’re willing to be a part of the solution. They’re also willing and understand that it’s going to cost some money.” According to Kelley, the problem is one that simply can’t be ignored any longer. “Last year, 13,000 acres of shellfishing grounds were closed because of these toxic algal blooms,” she says, adding that there were 1,100 beach closures last year, and that number is growing. “We realize that the solution lies in the folks who live on Long Island.”

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We leave you with this final quote:

“It is thought wicked and inhuman to profess indifference about whether the world will go up in flames once one is dead.

And so it is undoubtedly true that we must consider on their own account the interests of those who will one day come after us.”

- Cicero, De Finibus, book III

## Eco Facts – Ten Facts You Didn’t Know



### ENERGY

1. Today, transportation is the world’s fastest-growing form of energy use, accounting for nearly 30 percent of world energy use and 95 percent of global oil consumption. The most significant driver of rising energy consumption for transportation is growing reliance on the private car. About one fourth of those cars are found on U.S. roads.  
West Europeans now use public transit for 10 percent of all urban trips, and Canadians for 7 percent, compared with Americans at only 2 percent.  
*Worldwatch Institute*
2. It takes less gasoline to restart your car than it does to let it idle for more than a minute. If all the cars on US roads had properly inflated tires, it would save an estimated 2 billion gallons of gasoline per year and improve your gas mileage 3-7%.  
*University of Colorado Environmental Center*
3. If every car carried one more passenger during its daily commute, 32 million gallons of gasoline would be saved each day.  
*Natural Resources Defense Council*
4. Aggressive driving (speeding, rapid acceleration and braking) wastes gas. It can lower your gas mileage by 33 percent at highway speeds and by 5 percent around town.  
*U.S Dept. of Energy*

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5. Indoor lighting use is highest during the hours of 9 to 5, even though the light bulb was invented to help us see in the dark.

*University of Colorado Environmental Center*

6. Global wind power capacity jumped 24 percent in 2005, to nearly 60,000 megawatts. The growth in wind power capacity was nearly four times the growth in nuclear power capacity.

*Worldwatch Institute*

### POPULATION

7. Between 1850 and 1970, the number of people living on Earth more than tripled—yet the energy they consumed rose 12-fold.

*Worldwatch Institute*

8. Industrialized countries, such as the US, represent only 20% of the world's population. However, they consume 80% of the world's resources, 85% of the world's forest products, 75% of the world's energy and produce 75% of the world's pollution and waste.

*Trash to Cash, 1996*

### RECYCLING

9. Percentage of energy saved by using recycled instead of raw materials to manufacture:

40% glass 40% newspaper

60% steel 70% plastics

95% aluminum (75% when recycled back into aluminum beverage cans)

*Natural Resources Defense Council, Aluminum Association*

10. Glass can be recycled again and again with no loss in quality or purity. Glass containers go from recycling bin to store shelf in as little as 30 days—again and again.

*The Glass Packaging Institute*