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NSL Analytical Services, Inc. Offers Advanced Lens Testing with Enhanced Simulated Wear Test (ESWT).

February 19, 2014 (Cleveland, OH**) —** NSL Analytical Services, Inc., in consultation with technical experts, has created a new test intended to simulate the performance of AR-coated lenses, over time. The test, called the Enhanced Simulated Wear Test (ESWT), is actually a suite of tests that provides a compilation of factors that allows for informative analysis of AR-coating attributes.

Like all bench top test simulations, this is not a replacement for actual wearer trials, as it may not encompass or directly correlate to all the factors that affect long-term performance.

The Enhanced Simulated Wear Test (ESWT) is a series of tests that includes two ISO standard tests. ISO 8980-5 is focused on scratch resistance (the ability of a spectacle lens surface to resist damage during the daily cleaning process). ISO 8980-4 is focused on exposure (the durability of an anti-reflective coating – or the ability to resist deterioration of its reflectance characteristics, over time, in normal use). The addition of these tests helps ESWT provide quantifiable data about lens performance.

The Contact Angle Test is included as part of this test bundle (modified ASTM methodology for curved surfaces). Under tightly controlled conditions, this portion of ESWT provides data on the cleanability of lenses before and after other tests are completed.

"The industry's recognition of our new test lends credibility to our process capabilities. We are appreciative of their support and are pleased to bring this new testing to the ophthalmic industry," said Larry Somrack, President of NSL Analytical Services, Inc.

*"Whether companies coat lenses with AR Coating or purchase coated lenses the **ESWT+ Testing** with our **Statistical Analysis Package** will provide critical information on how well coatings have been applied and the lenses might perform,"* continued Somrack. "*Knowing that all AR coaters are producing consistent quality assures producers that their systems are in control and customers are satisfied. No matter*

where the coaters are located in the country or building, the ESWT+ will assist in quality control."

The tests of ESWT are currently offered as individual tests or as a test bundle package. It can also be customized with ESWT+ to include a statistical analysis package to provide further understanding and benchmarking of the testing results.

In addition to NSL's lens testing capabilities, NSL also offers a full range of manufacturer frame and accessory testing. NSL Analytical understands and applies appropriate regulations (CSPIA and CA Prop 65) for the industry. The staff at NSL is thoroughly knowledgeable about testing for Nickel Release, Phthalates, Lead (Pb) and other heavy metals.

NSL is an active member of The Vision Council.

About NSL Analytical Services, Inc.
In business for almost seven decades, NSL Analytical Services, Inc. is a fully accredited Independent Commercial Testing Laboratory. NSL is certified as an ISO/IEC 17025 laboratory, Nadcap certified Materials Testing Laboratory, 10 CFR 50 Appendix B (Nuclear) compliant laboratory and approved by many major companies. NSL Analytical helps customers achieve the highest standards of product quality from product design to launch by providing accurate, reliable and repeatable materials testing results. For more information, visit http://www.nslanalytical.com/testing/ophthalmic

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