

Services List

Econotech Services Ltd.

www.econotech.com

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Email: info@econotech.com
Tel: (604) 526-4221 or
(800) 463-5700
Fax: (604) 526-1898

Address:
852 Derwent Way
Delta, BC V3M 5R1
Canada

This document lists the standard tests and services available at Econotech. For additional information, custom services and pricing please contact us.

SAMPLE SHIPMENT - Please provide a purchase order with each shipment. Samples should be shipped prepaid.

RUSH ANALYSES - Econotech can accommodate your requirements for rush analysis. Rush service may be subject to a surcharge.

US CUSTOMERS - Samples can easily be shipped to our facility. Please consult our website for detailed shipping instructions. Shipping instructions can be found in the "Contact Us" section of our website.

SAMPLE STORAGE - Samples will be retained at Econotech for a period of three months from time of sample receipt (where appropriate). Samples will be discarded unless prior arrangements have been made.

For more information regarding specific services at Econotech, please call us at 604-526-4221 or 1-800-463-5700

Service	Contact	Local	Email
General Information			info@econotech.com
Quality Assurance	Donna Johannes	237	donnaj@econotech.com
Chemical and Liquor Analysis	Thomas Yuen	238	tom@econotech.com
Pulp and Paper Testing	Sandra Fodor	253	sandra@econotech.com
Pulp and Paper Testing	Yolanda Cahoon	234	yolanda@econotech.com
Contaminant ID	Eric Chao	265	eric@econotech.com
Microscopy, Species ID and Asbestos	Jodi Murphy	256	jodi@econotech.com
Microscopy, Species ID and Asbestos	Heather McLeod	255	heather@econotech.com
Environmental Analysis	Jodi Murphy	256	jodi@econotech.com
Environmental Analysis	Lien Vu	226	gc@econotech.com
Environmental Analysis	Hur Begum	246	env@econotech.com
Organic Halide Analysis (AOX)	Jodi Murphy	256	jodi@econotech.com
Pulping and Bleaching Pilot Plant Studies	Keith Becker	233	keith@econotech.com
Dissolving Pulp End-Use Testing	Ralph Abley	232	ralph@econotech.com
Returned Lime Analyzer	Ralph Abley	232	ralph@econotech.com



PULPING AND BLEACHING

The standard pulping and bleaching services are listed below.

For custom services and quotes, please contact Keith Becker at 604-526-4221 or 1-800-463-5700.

Test

PULPING

Sample Preparation

Whole logs or chip samples can be processed. Whole logs are used in specific species studies. Logs are manually debarked and chipped in our disk chipper. Pure species chips can be evaluated or mixed in specified proportions to produce a new mill chip blend for evaluation. Mill chip samples or lab produced chips can be further modified using thickness or roundhole chip screening to determine the impact of chip screening improvements on pulping operations.

Wood and Chip Testing

Chip samples can be classified using thickness or roundhole screens. Tyler sieve classifiers are available for sawdust samples. Chip or sawdust samples can also be analyzed for bark or rot content. The basic wood density of the samples can be determined or the bulk chip packing density can also be measured.

Lab Pulping

Kraft cooks can be performed in 6-L bomb digesters or in a 20-L circulating digester. Bomb cooks are used to evaluate benefits of anthraquinone, surfactants and deresinating agents. Because of the small volume (6-L) in our bomb digesters, overthick chips and chip fines are removed from the chips to reduce variability in pulping results. One bomb digester cook produces sufficient pulp for an unbleached strength evaluation. Bomb cooks are also used to evaluate sawdust samples.

The larger 20-L volume in the circulating digester is used to evaluate mill furnishes using kraft cooks. Larger volume of chips has less variability in chip size distribution. The 20-L digester produces enough pulp for unbleached and bleached pulp evaluations. We report total yield, screened yield, rejects, knots and residual EA for all cooks.

Many pulping process are simulated in our 20-L digester including: kraft, kraft/AQ, sulfite (acid and alkaline), NSSC medium, kraft liner and chemical pulping. A laboratory refiner is used in the linerboard and medium studies. Low energy batch simulations (i.e. RDH®, SuperBatch®) can be run. Alkali profiling cooks can also be run (i.e. MCC, EMCC, LoSolids cooks).

Two atmospheric refiners are available for running mechanical pulping studies or determining chip brightness after refining.

BLEACHING

Bleaching is performed in polyethylene bags or in pressurized reactors. We can simulate any bleaching process using chlorine dioxide, oxygen, ozone, hydrosulfite, peroxide, hypochlorite, or chlorine. Most of our studies involve the ODEopDED or DEopDED sequences. Enzyme or xylanase pretreatment can be studied in our laboratory to determine chlorine dioxide savings. Our equipment is scaled to use 300 g of brown stock, which provides sufficient fully bleached pulp for pulp strength testing. We can generate 5 to 10 kg of fully bleached pulp for customer evaluations.