



Going green.
A smart business move.

Greener. Smarter. Better.™

BOXLEY

Mission:

We deliver quality on every project, backed by reliable, responsive service. **It's the Boxley Way.**

Vision:

We will be the industry leader in all facets of our business with the talent to sustain it.

Company Core Beliefs:

- Work safely.
- Hire and train the best people.
- Involve our employees in the decision-making process.
- Provide opportunities for personal growth.
- Reward outstanding contributions.
- Be honest.
- Build long-term relationships.
- Deliver quality from the ground up.
- Be active participants in our communities.
- Be responsible stewards of the environment.
- Commit to be a little better at what we do each and every day.
- Earn profits to support our corporate growth and beliefs.

How We Manage Our Environmental Program

In keeping with our core belief to involve our employees in the decision-making process, representatives from each of the company's business lines are chosen to serve on Boxley's Green Team each year. These individuals set our sustainability goals and initiatives and are accountable for overseeing implementation. It's an important job that has a lasting positive impact. We appreciate their great work!

In 2012, we challenged our employees to work together across business lines to improve efficiency, reduce duplication of resources, save money and share ideas. In short, we wanted to be a little better at what we do each and every day.

Their ideas are not only cutting costs, they are diverting additional waste from landfills, reusing waste products in other operations or for innovative commercial use, and reducing energy and water consumption. We also are successfully helping customers build smarter with greener products. We find it proof positive that running a more environmentally sustainable operation makes good financial sense as well as being the right thing to do. It's the Boxley Way.

In this report, you will find specific measurements of our practices that are environmentally compliant and promote sustainability. I want to thank each of our employees and our community partners for the important role you play in doing what is best for the environment and smart for our business.

Jeff Perkins, *Chief Operating Officer*

P.S. Please share this report with others and recycle when you've finished. This report, along with past reports, can be viewed online at boxley.com/environment.



Green Team:

From left to right: **Tom Miles** (Technical Services Engineer—Concrete), **Brian Corell** (Block), **Tim Mauzy** (Engineer), **Howard Walker** (WV Aggregates), **Charlie Bartocci** (Asphalt Plants Operations), **Frank Caldwell** (Sawyer Paving), **Sam Woolwine** (VA / WV Concrete), **Tom Roller** (Director, Technical Services). *Not pictured:* **Charles Craddock** (Templeton Paving), **Melissa Wood** (Support Center)

Leadership Team:

Ab Boxley, *President and CEO*
Tom Johnson, *CFO*
Jeff Perkins, *COO*
Larry Bullock, *Vice President, Concrete/ Trucking/Asphalt Plant Operations*
Jeb Burton, *President, Templeton Paving*

Ed Craighill, *Vice President, Sales & Corporate Development*
Bill Hamlin, *Vice President, Aggregate Operations*
Stan Puckett, *President, Sawyer Paving*

2012 Recycling Report Card

Waste not. Want not.

When Boxley began its formal environmental sustainability program in 2009, the company recycled 10,361 tons of waste materials. We have come a long way in four years, diverting more than 126,093 tons of waste material from local landfills boosted by the addition of our asphalt operations.

2012 Recycled/Repurposed Materials: 126,093 tons Environmental Benefit: Priceless

Recycled Material	2012	2011	2010	2009
Oil (in gallons)	9,865	8,030 ¹	10,201	9,280
Antifreeze (in gallons)	303	55 ²	170	170
Absorbent (in tons)	5.8	9	4.6	6.6
Metals (in tons)	206	550 ³	359	168.7
Paper, Plastic (in tons)	11	8.7	3	N/A
Cardboard (in tons)	3	.9	N/A	N/A
Wood Pallets-Block (in tons/pallets)	120/4,800	67.50/2,700	62.5/2,500	N/A
Aggregate Extracted from Overburden Waste (in tons)	68,950 ⁴	N/A	N/A	N/A
Waste Concrete Block (in tons)	2,500	1,000	700	7,000 ⁵
Recycled Asphalt Pavement (RAP) (in tons)	50,683 ⁶	66,953	12,792	N/A
Waste Concrete (in tons)	3,614	4,363	3,824	3,186
Tires (in tons)	N/A	28.15 ³	N/A	N/A

¹ Lower number in 2011 represents reduced mileage

² Lower number reflects switch to extended life coolant

³ Templeton Paving became a Boxley Company in January 2011. Significant tonnage of metals and tires recycled in 2011 is attributed to pre-existing stockpiles at Templeton sites recycled by Boxley after acquisition.

⁴ Trommel Screen purchased in 2012 to extract aggregate from waste material called overburden.

⁵ Represents backlog of waste block

⁶ Represents reduction in overall asphalt production

Waste Reduction Highlights

- Reclaimed 50,683 tons of asphalt pavement from existing roadways and other projects to make new asphalt pavement.
- Invested in a trommel screen at Lewisburg aggregate, enabling us to extract 68,950 tons of additional aggregate from overburden waste.
- Repaired and reused thousands of wooden pallets for Block product deliveries.
- Recycled 4,800 unusable wooden pallets into mulch and horse bedding.
- Utilized 2,500 tons of waste block to manufacture new block.
- Produced 1,427 barrier block from 1,427 yds. of waste concrete.
- Crushed 500 tons of waste concrete to produce aggregate products at Lewisburg aggregate in West Virginia.
- Provided 225 tons of waste concrete to a third party for useful application.



A penny saved is a penny earned.

Our manufacturing processes require significant water and energy. Minimizing our consumption of these two resources continues to have a positive impact.



Above: New washout sump/water recycling system installed at our Wyoming Co., WV ready mix concrete plant.

Water Conservation

Aggregate: Boxley's aggregate operations recycled millions of gallons of water annually by capturing rainwater and runoff in the quarries and utilizing closed-loop water recycling systems for washout, dust suppression and wheel washing. Lewisburg aggregate was the first operation to track water recycling in 2012, utilizing 18.7 million gallons of recycled water for its mandatory tire wash system and 85.3 million gallons of recycled water at the wash plant.

Asphalt: Boxley's asphalt operations use minimal water in their production and clean-up process.

Block: Boxley's block plant utilized approximately 162,500 gallons of recycled water in the production process. Water is used to wash out the mixers and then used in the production of the block.

Concrete: Boxley's concrete operations utilized 2.3 million gallons of recycled water for mixer drum rinse and washout. In 2012, water-recycling systems were installed at our newest plants in Beckley, Lewisburg and Wytheville, increasing our recycled water usage by 1.1 million gallons or 51% over 2011.

Energy Conservation

Boxley continues to build its EPA EnergyStar Partner program. Since joining the program in late 2010, we have created baseline kilowatt usage tracking at all lines of business.



Aggregate:

Beckley: Reduced usage by 3.1% in kWh/ton

- Added additional high efficiency cone crusher

Blue Ridge: Reduced usage by 5.6% in kWh/ton

- Ran electric pit pumps approximately 1800 fewer hours due to improved management practices and dry weather.

Lawyers Road: Reduced usage by 5.1% in kWh/ton

Lewisburg:

- Conducted baseline energy audit in partnership with West Virginia University Industrial Assessment Center that revealed potential savings of 902,118 kWh for 2013.

Mill Point: Reduced usage by 5.6% in kWh/ton

- Shut down generator during idle operating times to conserve fuel
- Trained employees to be more aware of fuel consumption
- Reduced run time of power-generated plant while increasing tons per hour
- Turned heat off in buildings when plant was not in use

Asphalt:

Approximately 10% reduction in natural gas usage

Reduced natural gas usage by producing environmentally friendly warm mix asphalt. Warm mix asphalt has all the properties of hot mix, but is made at temperatures 40 to 108 degrees Fahrenheit lower than hot mix asphalt, dramatically reducing the amount of natural gas required.

Ready Mix Concrete:

Reduced usage by 3.7% kWh per Cubic Yard Produced

Energy Conservation Programs and Partnerships

Appalachian Power Peak Shaving and Emergency Demand Response

When requested, Boxley shuts its operations down during winter peak hours to help reduce demand on the electrical grid when residential use is at its highest.

Enernoc Emergency DemandSMART system

Boxley reduces energy use during emergencies and other high demand periods helping ensure electricity is available for the community. As an added benefit, we receive energy usage data that shows us how we can run a more efficient and cost-effective operation.

Boxley Teams Up With the Community

Beckley aggregate

Teamed with the Raleigh County Solid Waste Authority and other local businesses to encourage students in Raleigh County Schools to recycle. More than 292 tons of waste were recycled as a result of the program.

Lewisburg aggregate

Sponsored the National Speleological Society Annual Conference.

Boxley Radford Property

Planted 43,500 trees on a Boxley site in Radford, VA as part of the company's Cooperative Forest Management Program with MeadWestvaco. The property was logged in 2012.

Boxley Community Project of the Year



Glade Creek Restoration

Boxley, along with a passionate group of conservation-minded companies, wildlife organizations and government agencies, has ignited a grassroots effort to restore the highly impacted Glade Creek. This significant effort is aimed at improving fish and wildlife habitat and water quality along the 12-mile creek that flows into Tinker Creek, and ultimately reaches the Roanoke River. These efforts are designed to help the region's treasured Brown Trout. Boxley was the first property owner along the creek to volunteer for a restoration project. Volunteers planted 350 trees creating a riparian buffer to filter stormwater runoff to improve water quality.

Glade Creek Restoration Partners

- Orvis
- Trout Unlimited-Roanoke Valley Chapter
- Upper Roanoke River Roundtable
- Glade Creek Restoration Committee
- VA Department of Game & Inland Fisheries
- VA Department of Forestry
- Vaughn Bassett

2012 Green Products & Projects

Smarter building through green products

We believe that our sustainability program should extend beyond our operations to the products we sell. As a producer and distributor of Leadership in Energy and Environmental Design, (LEED) intended products, we facilitate all six main LEED focus areas: site sustainability, water use, energy efficiency, responsible materials, indoor environmental quality and innovative design. We proudly partner with our customers to find environmentally sound product solutions for their projects.

Aggregate

Mill Point: Supplied West Virginia Department of Natural Resources with high calcium rock product to reduce pH levels in streams as part of an overall project to improve water quality in West Virginia trout streams.

Supplied West Virginia coal industry with 36,350 tons of limestone sand used to lower pH levels in gob piles to minimize impacts to water quality downstream from acidic runoff.



Lewisburg: Supplied West Virginia coal industry with 44,563 tons of limestone sand used lower to pH levels in gob piles to minimize impacts to water quality downstream from acidic runoff

Concrete

Summersville: Supplied Nudura ICF (insulated concrete forms) for four West Virginia homes in 2012. These LEED-eligible ICFs reduce energy consumption and CO2 emissions, two major factors in commercial and residential green building.



Project Highlights

Pervious Concrete: Boxley pervious concrete creates an open-cell structure that allows rainwater to filter through it, reducing runoff and replenishing aquifers.

- Parking area for Salem, VA Greenway
- Parking area for Abingdon, VA convenience store

Fly Ash Concrete Mix: Boxley concrete has been using fly ash as a supplementary cementitious material for many years. Fly ash is a waste byproduct from power generation typically disposed of in landfills. LEED considers fly ash to be a pre-consumer/post-industrial recycled product. Typically a concrete mix uses 0-25% fly ash while our green mixes use 40-45% fly ash.

Higher Education Clean Energy Center, Abingdon, VA

- Used 2.3 tons less cement and 11.2 tons more fly ash than typical mix

Boy Scouts of America Summit Bechtel Reserve, Beckley, WV

- Used 72.8 tons less cement & 58.5 tons more fly ash than typical mix

Sawyer Paving

Earned the Diamond Achievement



Commendation for the second year. This award is based on the responsible operation of the plant, including appearance, environmental practices, safety, permitting and regulatory compliance and community relations.

Mill Point aggregate

Planted wildlife mix grass seed to convert five acres of its site to natural grazing habitat for native bear, deer and wild turkeys.



Boxley Sustainable Project of the Year

NATGUN, a concrete storage tank company, was competing against a steel tank company on a contract for the water storage application at the Boy Scouts of America Summit Bechtel Reserve in West Virginia.

NATGUN's proposal was to construct and install two concrete tanks, one with a 2 million gallon capacity and another with a 6 million gallon capacity. NATGUN's emphasis in the proposal was to build the tank sustainably using green building materials and construction practices.

NATGUN and Boy Scouts representatives were impressed with Boxley's National Ready Mix Concrete Associations' Green-Star Award and plant certification as well as U.S. Green Building Council LEED data on all of our concrete mixes. NATGUN was awarded the project.



Aggregate

Beckley

1700 North Sandbranch Rd.
Mt Hope, WV 25880
(800) 269-5391

Blue Ridge

15415 West Lynchburg
Salem Tpke.
Blue Ridge, VA 24064
(866) 676-2466

Fieldale

3785 Carver Rd.
Martinsville, VA 24112
(866) 676-2466

Lawyers Road

762 Lawyers Rd.
Lynchburg, VA 24501
(800) 269-5392

Lewisburg

HC 40 Box 49
Lewisburg, WV 24901
(800) 269-5391

Mill Point

HC 64 Box 436
Hillsboro, WV 24946
(800) 269-5391

Mt. Athos

1299 Stage Rd.
Concord, VA 24538
(800) 269-5392

Piney River

739 Warrick Barn Rd.
Arrington, VA 22922
(800) 269-5392

Rich Patch

7612 Rich Patch Rd.
Lowmoor, VA 24457
(866) 676-2466

Asphalt

Salem

Sawyer Paving
496 Glenmore Drive,
Salem, VA 24153-5495
(540) 389-2768
Plant located in Salem

Lynchburg

Templeton Paving
1678 Lawyers Road
P.O. Box 4339
Lynchburg, VA 24502
(434) 239-0383
*Plants located in Lynchburg,
Concord and Arrington*

Block

Lynchburg

110 Lynchpin Ln.
Lynchburg, VA 24501
(800) 422-2565

Roanoke

3830 Blue Ridge Dr.
Roanoke, VA 24018
(800) 982-8028

Summersville

7900 Webster Rd.
Summersville, WV 26651
(866) 320-5205

Concrete

Abingdon

24438 Regal Drive
Abingdon, VA 24211
(800) 331-2040

Beckley

1700 North Sandbranch Rd.
Mt Hope, WV 25880
(866) 203-9368

Blue Ridge

139 Healing Springs Rd.
Blue Ridge, VA 24064
(888) 832-0003

Bluefield

191 St. Claire's Crossing
Bluefield, VA 24605
(866) 875-7186

Lewisburg

HC 40 Box 49
Lewisburg, WV 24901
(800) 323-8338

Martinsville

201 Koehler Rd.
Martinsville, VA 24112
(866) 216-0601

Marion

1594 Industrial Road
Marion, VA 24354
(877) 854-2939

Princeton

101 Westview Ave.
Princeton, WV 24740
(866) 875-7186

Roanoke

3830 Blue Ridge Dr.
Roanoke, VA 24018
(888) 832-0003

Summersville

7900 Webster Rd.
Summersville, WV 26651
(866) 320-5204

Wyoming

HC 64 Box 107
Welch, WV 24801
(866) 875-7186

Wytheville

1050 Church Street
Wytheville, VA 24382
(877) 854-2939

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