



# RESTORING THE LAND

For more than 40 years, Luminant has set the standard in restoring the land after mining. Even before federal and state laws on the topic were adopted, Luminant was committed to advancing the science of land reclamation. The success of Luminant's program proves it is possible to gain the benefit from natural resources and reclaim the land in an environmentally sound manner that adds value to it in the process.

## Setting the Standard in Land Reclamation

- After mining, Luminant's goal is to quickly reclaim mined lands to productivity and achieve full release of all regulatory reclamation obligations.
- More than 73,000 acres have been reclaimed for use as forests, pastures, wildlife habitat and cropland, and more than 35,400 acres have been released from regulatory obligations.
- Over 33.3 million trees have been planted.
- More than 5,100 acres of wetlands, ponds and stream channels have been created or enhanced.

## Renewing Texas Woodlands

- Developing sustainable Texas forests is a crucial part of Luminant's reclamation program.
- Habitat destruction and invasive and non-native species are the leading threats to Texas wildlife, and the removal of timber on family lands exceeds annual growth.
- To offset these trends, Luminant develops and enhances high-quality wildlife habitat and establishes commercial stands of pine timber on about 60 percent of the acres it reclaims every year.
- Since 1996, Luminant's reforested areas have been certified by the American Tree Farm System as sustainably managed forests.
- Forests provide long-term watershed protection and improve water quality.



*Big Brown and Luminant's other mines are home to a diversity of wildlife.*

## MINING AND RECLAMATION

		Big Brown	Kosse	Martin Lake	Monticello	Three Oaks	TOTAL
Acres Mined	2012	156	438	774	155	184	1,707
	1971-2012	14,293	1,627	29,982	18,112	874	64,888
Acres Reclaimed <sup>1</sup>	2012	335	697	2,436	0	306	3,774
	1971-2012	15,570	1,344	34,362	20,716	1,077	73,069
Acres Released	2012	0	0	539	2,146	0	2,685
	1971-2012	7,704	0	14,289	13,422	0	35,415

<sup>1</sup> Includes mined acreage and non-mined acreage disturbed to support mining

*Luminant's reforestation includes commercial stands of pine timber grown from seedlings.*



## Award-Winning Program

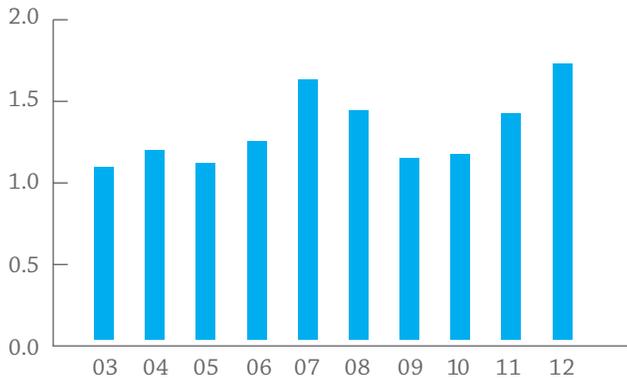


The excellence of Luminant's land reclamation program has been recognized with nearly 90 awards. They include the Director's Award, the nation's highest honor for mined land reclamation, from the

U.S. Department of the Interior's Office of Surface Mining. Luminant has received this award an unprecedented five times, including consecutive recognitions in 2008 and 2009. The company has also received the Texas Reclamation Award, Texas' top honor for quality in reclaimed land, 13 times from the Railroad Commission of Texas.

### TREES PLANTED IN MILLIONS

Total since 1975: 33.3 million trees



*Forested wetlands are an important part of Luminant's reforestation program.*

## Powering Texas

- Texas lignite supplied 74 percent of the fuel for Luminant's 8,000 megawatts of coal-fueled generation in 2012. The remainder of the coal supply came from Wyoming's Powder River Basin.
- Lignite production totaled 31 million tons in 2012.
- Putting this natural resource to work for four decades has kept Luminant the state's No. 1 coal-mining operation.

## Enhancing Texas Grasslands

- A partnership begun in 2012 between Luminant's Kosse Mine in Central Texas and the Texas Parks and Wildlife Department is planting the seed across thousands of acres to improve the state's struggling grassland bird habitat.



- As the land is reclaimed after mining, crews are planting tens of thousands of pounds of native grass and flowering plant seed to establish habitat for birds



*Native plants will help the eastern meadowlark and other grassland birds rebound from habitat loss.*

- As the land is reclaimed after mining, crews are planting tens of thousands of pounds of native grass and flowering plant seed to establish habitat for birds such as grasshopper sparrows, northern bobwhites, eastern meadowlarks and dickcissels. All these species have suffered over the last 30 years due to the loss of habitat from changing land-use practices, ongoing land development and increasing woody species like junipers and oaks from the lack of wildfires.
- The result will be an ideal habitat with cover for birds and their young and a ready source of food from the seed the plants will produce and the insects they will attract.
- Wildlife management and the redevelopment of wildlife habitat are important aspects of Luminant's land reclamation plans at all its mines. At Kosse, they are the primary focus.