

WESTMORELAND COAL COMPANY BANKRUPTCY CASE STUDY

FILED ON 10/9/2018



CreditRiskMonitor's warning of Westmoreland Coal Company's ("Westmoreland Coal") bankruptcy risk was determined by a combination of factors:

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MONTHLY AVERAGE FRISK® SCORE

CreditRiskMonitor's FRISK® score had been warning of financial stress at Westmoreland Coal Company (OTC: WLBAQ) for more than a year.

We issued a special High Risk Report, dated September 5, 2018, as conditions continued to deteriorate and become more troubling.

The company ultimately filed for bankruptcy on October 9, 2018

Business Name	2017	2017	2017	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018
Dusiliess Maille	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
Westmoreland Coal Company	1	1	1	1	1	1	1	1	1	1	1	1	1

BANKRUPT!

The FRISK® score is 96% accurate* in predicting the risk of corporate failure/bankruptcy over a 12-month horizon.

All FRISK® scores are recalculated every night for each subsequent 12-month period.

	FPISK® Pro	bability of bankru	ptcy within 12 months
	IKIJK	From	То
Best	10	0.00%	0.12%
	9	0.12%	0.27%
	8	0.27%	0.34%
	7	0.34%	0.55%
	6	0.55%	0.87%
	5	0.87%	1.40%
	4	1.40%	2.10%
	3	2.10%	4.00%
	2	4.00%	9.99%
Worst	1	9.99%	50.00%

While the percentage risk of bankruptcy varies at each FRISK® score, 96% of public companies that eventually go bankrupt enter the FRISK® "red zone" prior to filing. A FRISK® score of 5 or less is an important warning sign.

^{*} FRISK® score accuracy of 96% is based on backtesting of U.S. public companies; results may vary by country.

THE FRISK® SCORE COMPONENTS

At the core of the CreditRiskMonitor process is our 96% accurate FRISK® score, which indicates a company's level of financial stress on a scale of 1 to 10, based on the probability of bankruptcy over a 12-month horizon. When available, the FRISK® score incorporates a number of powerful risk indicators including:

A "Merton" type model using stock market capitalization and volatility

Financial ratios, including those used in the Altman Z"-Score Model Bond agency ratings from Moody's, Fitch, DBRS, & Morningstar

Crowdsourced CreditRiskMonitor Usage Data

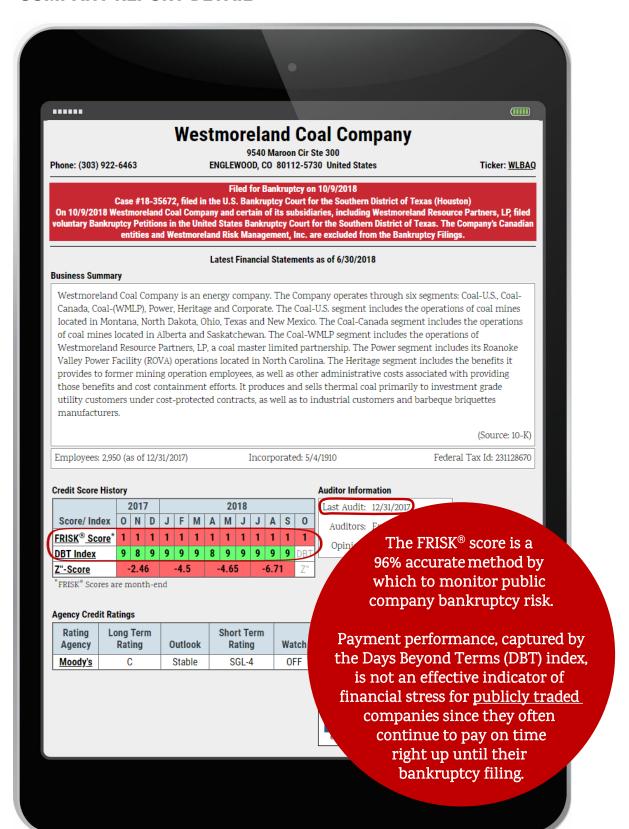
<u>Crowdsourcing</u> has enhanced the accuracy and timeliness of the FRISK® score. We collect and analyze data patterns from thousands of CreditRiskMonitor subscribers, including professionals from more than 35% of the Fortune 1000 and other large corporations worldwide.

The crowdsourcing advantage is even more powerful in our FRISK® score since many of the professionals who use our service are credit managers:

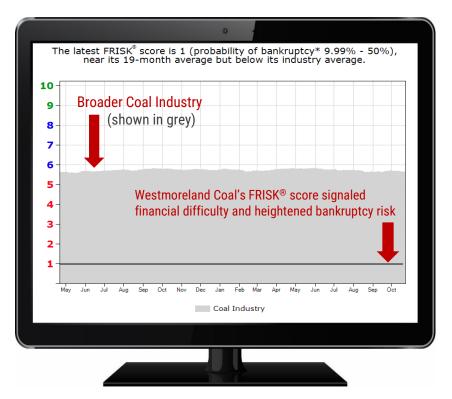
- Credit managers control one of the largest sources of working capital going into a company
- They are not held to the same "Fair Disclosure" restrictions that prevent nondisclosed information sharing on public companies
- Credit managers use a variety of non-public information sources such as their own company's management and sales representatives to be alerted to concerns in a public company's performance
- It is commonly known credit managers confidentially share information with other credit managers, thus collectively, their behavior helps to provide advanced insight to financial problems in public companies

Read more in Credit Research Foundation's quarterly journal article, "Assessing Public Company Financial Risk by Crowdsourcing the Research of Credit Professionals"

COMPANY REPORT DETAIL



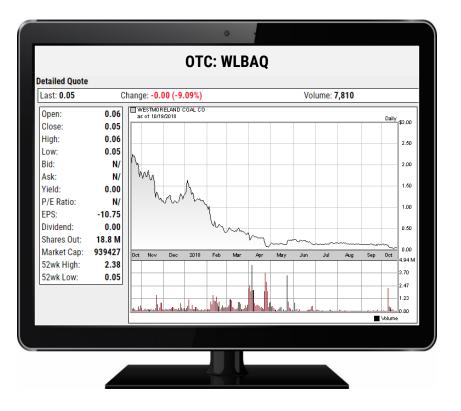
FRISK® DEEP DIVE



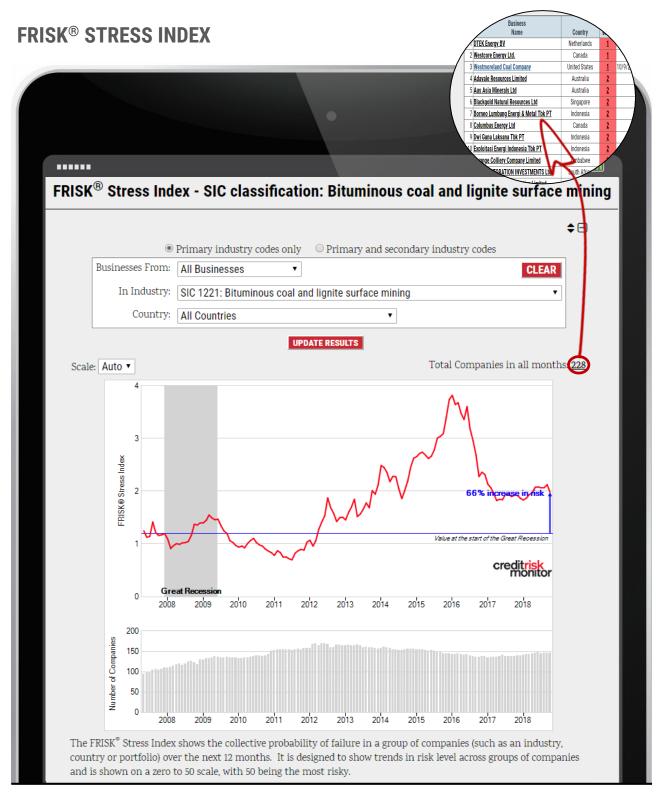
The FRISK® score relative to the broader Coal industry raised an additional red flag signaling heightened risk relative to peers, as well...

MAKING IMMEDIATE ATTENTION REQUIRED.

ADJUSTED MARKET CAP VOLATILITY

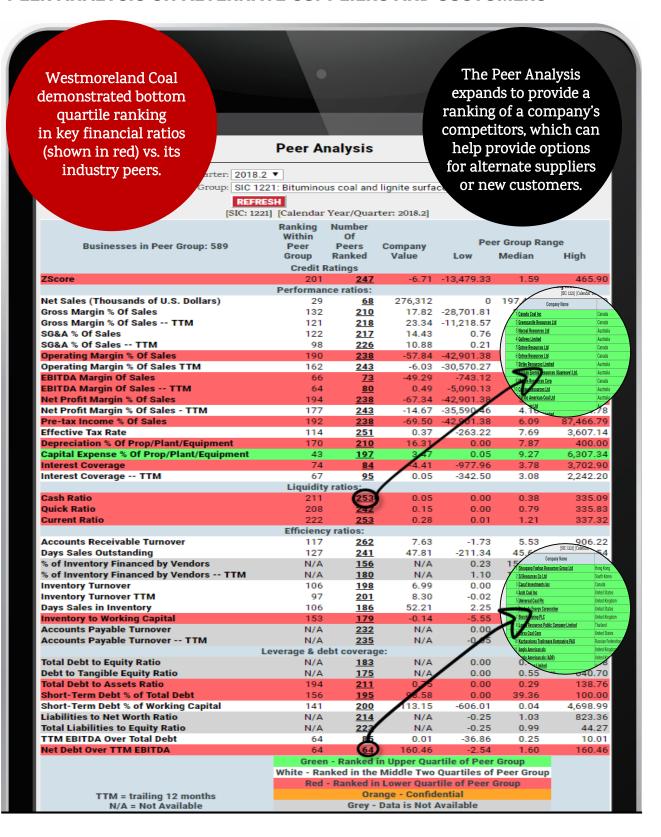


One of the inputs of the FRISK® score is a company's market cap volatility, adjusted for dividends, over the course of a year. Incorporating this information allows us to capture the "wisdom of markets" on a daily basis. This ensures our subscribers are getting the most up to date view of the risks they face since stocks tend to be more liquid and faster moving than bond prices and ratings.



The average probability of failure for SIC code 1221 (Bituminous coal and lignite surface mining) has increased 66% since 2007. Westmoreland Coal was among the weakest names in the industry as evidenced by its FRISK® score of 1.

PEER ANALYSIS ON ALTERNATE SUPPLIERS AND CUSTOMERS



QUARTERLY PERFORMANCE RATIOS

Net losses Weak in all but one free cash flow of the last five generation fiscal quarters relative to debt Performance Ratios - Sequential Quarters (Thousands of U.S. Dollars) 3 mas 3 mos 3 mns 3 mos 3 mos Period Ended 6/30/2018 3/31/2018 12/31/2017 9/30/2017 6/30/2017 Net Sales \$ \$276,312 \$295,677 \$363,796 \$358,011 \$327,314 % change -6.55% -18.72% 1.62% 9.38% -5.68% \$49,246 \$104,223 \$77,999 Gross Margin \$ \$70,518 \$54,997 % change -30.17% -32.34% 33.62% 41.82% -11.28% % of sales 17.82% 23.85% 28.65% 21.79% 16.80% change as % of incremental sales n/m n/m 453.31% 74.93% n/m SG&A \$ \$39,868 \$35,227 \$34,158 \$31,464 \$29,328 % change 13.17% 7.28% 3.13% 8.56% -0.81% 11.91% 9.39% 8.79% 8.96% % of sales 14 43% change as % of incremental sales 46.57% n/m n/m 6.96% n/m Operating margin \$ (\$159,823) \$10,427 \$57,112 \$14,255 (\$13,042)% change -1,632.78% -81.74% 300.65% 209.30% -17,765.75% % of sales -57.84% 3.53% 15.70% 3.98% -3.98% change as % of incremental sales 740.83% 88.92% n/mn/m n/m \$43,049 EBITDA \$ (\$136,198) \$32,243 \$67,286 \$22,102 % change -522.41% -52.08% 56.30% 94.77% -28.72% % of sales -49.29% 10.90% 18.50% 12.02% 6.75% change as % of incremental sales n/m n/m 418.96% 68.24% n/m EBIT \$ (\$162,594) \$6,208 \$60,363 \$4,982 (\$17,395)% change -89.72% -2,719.10% 1,111.62% 128.64% -212.97% % of sales 16.59% -58.84% 2.10% 1.39% -5.31% change as % of incremental sales 957.32% 72.90% n/m n/m n/m (\$192,039) Pre-tax income \$ (\$19,740)(\$46,684) (\$20,346)\$29,505 % change -843.87% -168.96% 249.47% 57.72% -53.12% % of sales -69.50% -6.88% 8.11% -5.51% -14.26% change as % of incremental sales 851.25% 87.77% n/m n/m Net income (loss) \$ (\$186,067) (\$19,589) \$35,069 (\$46,144)(\$19,222) % change -849.85% -155.86% 282.44% 58.34% -55.80% % of sales -67.34% -6.63% 9.64% -5.37% 14.10% change as % of incremental sales 938.48% n/m n/m Tax expense \$ (\$712)(\$35)\$34,516 Effective tax rate 116.98% 0.37% 0.17% Interest coverage Depreciation expense \$ \$26,396 \$26,035 \$6,923 ratio signaled % of sales 9.55% 8.81% 1.90% % of capital expenses 470.60% 422.37% 71.73% heightened % of PP&E, net (annualized) 16.31% 14.32% 3.67% default risk Capital expenditures \$ \$6,164 \$9,651 \$5,609 % change -9.00% -36.13% -21.29% % of PP&E, net (annualized) 3.47% 3.39% 5.12% 648.13 % of working capital (annualized) 5.34% -2.47% -2.86% -9.19% Interest coverage ratio (4.41)1.07 2.08 1.40 0.73 -30.95% % change -511.47% -48.55% 48.78% 91.36% Free cash flow \$ (\$36,773) (\$15,082) \$83,358 (\$1,261) \$4.970 % change -143.82% -118.09% 6,710.47% -125.37% 162.75% Source: 10-Q 10-0 10-K 10-Q 10-0 8/6/2018 5/4/2018 4/2/2018 10/31/2017 8/6/2018

QUARTERLY LEVERAGE RATIOS

Negative tangible net worth suggested loanable collateral had been exhausted

Rapid increase in short-term debt was due to the possible 'event of default' of a subsidiary

Leverage Ratios - Sequential Quarters (Thousands of U.S. Dollars)

	(Thousands of	U.S. Dollars)			
Period Ended	6/30/2018	3/31/2018	12/31/2017	9/30/2017	6/30/2017
Total debt \$	\$1,086,949	\$1,043,015	\$1,048,407	\$1,071,148	\$1,075,562
% change	4.21%	-0.51%	-2.12%	-0.41%	-1.52%
Stockholders' equity \$	(\$675,696)	(\$484,450)	(\$460,280)	(\$770,895)	(\$763,516)
% change	-39.48%	-5.25%	40.29%	-0.97%	-6.05%
Tangible net worth \$	(\$675,696)	(\$484,450)	(\$460,280)	(\$770,895)	(\$763,516)
% change	-39.48%	-5.25%	40.29%	-0.97%	-6.05%
Total assets \$	\$1,457,595	\$1,636,796	\$1,663,918	\$1,434,512	\$1,459,471
% change	-10.95%	-1.63%	15.99%	-1.71%	-3.40%
Total debt to assets ratio	0.75	0.64	0.63	0.75	0.74
% change	17.03%	1.13%	-15.62%	1.32%	1.95%
Tangible assets \$	\$1,457,595	\$1,636,796	\$1,663,918	\$1,434,512	\$1,459,471
% change	-10.95%	-1.63%	15.99%	-1.71%	-3.40%
Short-term debt \$	\$1,071,533	\$985,352	\$983,427	\$49,712	\$54,494
% change	8.75%	0.20%	1,878.25%	-8.78%	-25.05%
Short-term debt % of total debt	98.58%	94.47%	93.80%	4.64%	5.07%
% change	4.35%	0.71%	1,921.16%	-8.40%	-23.90%
Short-term debt % of working capital	-113.15%	-113.03%	-115.32%	385.87%	2,420.88%
% change	-0.11%	1.98%	-129.89%	-84.06%	720.39%
Total liabilities \$	\$2,133,291	\$2,121,246	\$2,124,198	\$2,205,407	\$2,222,987
% change Inadequate	0.57%	-0.14%	-3.68%	-0.79%	-0.35%
Total debt to working capital to	n/a	8.09	3.90	6.22	12.17
% change meet short-term	n/a	107.61%	-37.38%	-48.87%	38.17%
Source: liabilities	10-Q	10-Q	10-Q	10-Q	10-Q
	8/6/2018	5/4/2018	5/4/2018	10/31/2017	8/4/2017

QUARTERLY LIQUIDITY RATIOS AND RATES OF RETURN

Working capital drastically decreased	Liquidity Rati	os - Sequei		ca: &	Meager sh, quick, current ratios	
Period Ended	6/30/2018	3/31/2018	12/31/2017	9/30/2017	6/30/2017	
Current assets \$	\$376,771	\$385,567	\$392,441	\$343,041	\$345,461	
% change	-2.28%	-1.75%	14.40%	-0.70%	-4.77%	
% of short-term debt	35.16%	39.13%	39.91%	690.06%	633.94%	
Current liabilities \$	\$1,323,743	\$1,257,307	\$1,245,209	\$330,158	\$343,210	
% change	5.28%	0.97%	277.16%	-3.80%	1.51%	
Working capital \$	(\$946,972)	(\$871,740)	(\$852,768)	\$12,883	\$2,251	
% change	-8.63%	-2.22%	-6,719.33%	472.32%	-90.86%	
% of sales (annualized)	-85.68%	-73.71%	-58.60%	0.90%	0.17%	
Cash \$	\$63,187	\$78,794	\$103,247	\$44,143	\$57,620	
% change	-19.81%	-23.68%	133.89%	-23.39%	-23.62%	
% of short-term debt	5.90%	8.00%	10.50%	88.80%	105.74%	
Cash ratio	0.05	0.06	0.08	0.13	0.17	
% change	-23.92%	-24.37%	-38.00%	-20.37%	-24.74%	
Quick assets \$	\$199,251	\$232,275	\$256,432	\$190,555	\$190,335	
% change	-14.22%	-9.42%	34.57%	0.12%	-7.86%	
% of short-term debt	18.59%	23.57%	26.08%	383.32%	349.28%	
Quick ratio	0.15	0.18	0.21	0.58	0.55	
% change	-18.52%	-10.30%	-64.33%	4.08%	-9.22%	
Current ratio	0.28	0.31	0.32	1.04	1.01	
% change	-7.21%	-2.70%	-69.66%	3.22%	-6.18%	
Source:	10-Q 8/6/2018	10-Q 5/4/2018	10-Q 5/4/2018	10-Q 10/31/2017	10-Q 8/4/2017	

nsufficient es of return	Rate of Retur	n - Sequent sands of U.S. Dol			
Period Ended	3 mos 6/30/2018	3 mos 3/31/2018	3 mos 12/31/2017	3 mos 9/30/2017	3 mos 6/30/2017
Return on total assets	-12.03%	-1.19%	2.26%	-1.33%	-3.11%
% change	-913.15%	-152.44%	270.41%	57.24%	-62.37%
Return on tangible assets	-12.03%	-1.19%	2.26%	-1.33%	-3.11%
% change	-913.15%	-152.44%	270.41%	57.24%	-60.89%
Source:	10-Q 8/6/2018	10-Q 5/4/2018	10-K 4/2/2018	10-Q 10/31/2017	10-Q 8/6/2018

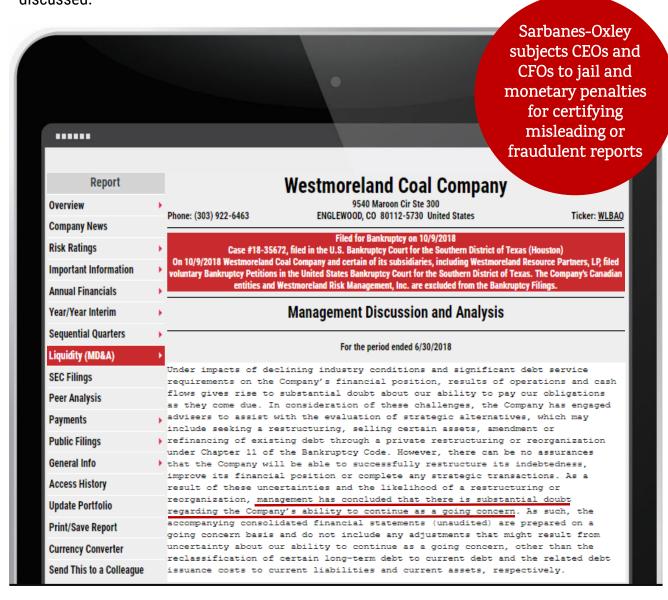
NEWS ALERTS: A TIMELINE OF CONCERNING HEADLINES

vestmoreiana Co	oal's President and Unlef (Operating Officer separated from the Company.
10/19/2017	CRMZ News Service	WESTMORELAND COAL CO FILES (8-K) Disclosing Change in Directors or Principal Officers, Regulation FD Disclosure, Financial Statements and Exhibit
or the nine mon	ths ended 9/30/17, net los	s increased 444% over the prior year's period to \$106MM.
11/2/2017	CRMZ News Service	Westmoreland Coal Company updated financials available
Vestmoreland Co	oal announced CEO leader	ship changes; appointed interim CEO.
12/1/2017	CRMZ News Service	WESTMORELAND COAL CO FILES (8-K) Disclosing Change in Directors or Principal Officers, Financial Statements and Exhibits
		ebt service requirements, results of operations, and cash flows gave ris Coal's ability to pay its obligations as they become due.
4/2/2018	CRMZ News Service	Westmoreland Coal Company Receives Going Concern Opinion
	oal officials hired advisers to address the Company's	s to explore financial options. The advisers were to look into refinancing liquidity.
4/9/2018	CRMZ News Service	Westmoreland Coal Says It Could Declare Bankruptcy
\ debtor-in-poss	ession loan was sought o	ut by the Company.
4/13/2018	CRMZ News Service	Westmoreland Coal Shops For \$100 Million Bankruptcy Loan
The Company's s	tock is delisted by Nasda	1.
6/6/2018	CRMZ News Service	WESTMORELAND COAL Co: a Form 25-NSE has been Filed with the SEC
Vestmoreland Co	oal failed to meet debt ser	vice obligations outlined in their original debt agreements.
7/11/2018	CRMZ News Service	Moody's says Westmoreland's delayed interest payment will be considered limited default
		86MM versus net loss of \$46MM for the same period last year; net loss I versus net loss of \$76MM over the prior year's period.
8/8/2018	CRMZ News Service	Westmoreland Coal Company updated financials available
Vestmoreland Co	oal Company filed for banl	kruptcy.

MANAGEMENT DISCUSSION AND ANALYSIS

One of the CreditRiskMonitor service's features is the ability to quickly access a Company's Management Discussion and Analysis (MD&A) history.

The MD&A represents the thoughts and opinions of management, and provides a forecast of future operations, and therefore these statements can't typically be falsified. According to the Financial Accounting Standards Board (FASB), "MD&A should provide a balanced presentation that includes both positive and negative information about the topics discussed."



ABOUT THIS REPORT/CONTACT CREDITRISKMONITOR



CreditRiskMonitor is a financial risk analysis and news service that helps credit, supply chain and financial professionals stay ahead of and manage risk quickly, accurately and cost effectively. More than 35% of the Fortune 1000, plus over a thousand other large corporations worldwide, rely on our financial risk coverage of over 58,000 global public companies.

CreditRiskMonitor Bankruptcy Case Studies provide post-filing analyses of public company bankruptcies. Our case studies educate subscribers about methods they can apply to assess bankruptcy risk using CreditRiskMonitor's proprietary FRISK® score, robust financial database and timely news alerts.

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Read more Bankruptcy Case Studies, High Risk Reports and other resources

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