

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549**

FORM 10-Q

(Mark One)

QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934
For the quarterly period ended July 31, 2018

OR

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from _____ to _____

Commission File Number 001-09097

REX AMERICAN RESOURCES CORPORATION
(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction of
incorporation or organization)

31-1095548
(I.R.S. Employer
Identification Number)

7720 Paragon Road, Dayton, Ohio
(Address of principal executive offices)

45459
(Zip Code)

(937) 276-3931

(Registrant's telephone number, including area code)

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes No

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes No

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company or an emerging growth company. See definition of "large accelerated filer", "accelerated filer", "smaller reporting company" and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer
Non-accelerated filer (Do not check if a smaller reporting company)

Accelerated filer
Smaller reporting company
Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act).
Yes No

At the close of business on September 4, 2018 the registrant had 6,351,739 shares of Common Stock, par value \$.01 per share, outstanding.

REX AMERICAN RESOURCES CORPORATION AND SUBSIDIARIES

INDEX

	Page	
<u>PART I.</u>	<u>FINANCIAL INFORMATION</u>	
<u>Item 1.</u>	<u>Financial Statements</u>	
	<u>Consolidated Condensed Balance Sheets</u>	3
	<u>Consolidated Condensed Statements of Operations</u>	4
	<u>Consolidated Condensed Statements of Equity</u>	5
	<u>Consolidated Condensed Statements of Cash Flows</u>	6
	<u>Notes to Consolidated Condensed Financial Statements</u>	7
<u>Item 2.</u>	<u>Management's Discussion and Analysis of Financial Condition and Results of Operations</u>	24
<u>Item 3.</u>	<u>Quantitative and Qualitative Disclosures About Market Risk</u>	37
<u>Item 4.</u>	<u>Controls and Procedures</u>	38
<u>PART II.</u>	<u>OTHER INFORMATION</u>	
<u>Item 1.</u>	<u>Legal Proceedings</u>	38
<u>Item 1A.</u>	<u>Risk Factors</u>	38
<u>Item 2.</u>	<u>Unregistered Sales of Equity Securities and Use of Proceeds</u>	38
<u>Item 3.</u>	<u>Defaults upon Senior Securities</u>	39
<u>Item 4.</u>	<u>Mine Safety Disclosures</u>	39
<u>Item 5.</u>	<u>Other Information</u>	39
<u>Item 6.</u>	<u>Exhibits</u>	39

PART I. FINANCIAL INFORMATION

Item 1. Financial Statements

REX AMERICAN RESOURCES CORPORATION AND SUBSIDIARIES

Consolidated Condensed Balance Sheets

Unaudited

(In Thousands)	July 31, 2018	January 31, 2018
Assets		
Current assets:		
Cash and cash equivalents	\$ 73,761	\$ 190,988
Short-term investments	111,969	—
Restricted cash	778	354
Accounts receivable	14,648	12,913
Inventory	25,171	20,755
Refundable income taxes	8,371	6,612
Prepaid expenses and other	7,716	7,412
Total current assets	242,414	239,034
Property and equipment, net	190,823	197,827
Other assets	7,816	7,454
Equity method investments	35,117	34,549
Total assets	\$ 476,170	\$ 478,864
Liabilities and equity:		
Current liabilities:		
Accounts payable, trade	\$ 11,595	\$ 8,149
Accrued expenses and other current liabilities	10,555	13,716
Total current liabilities	22,150	21,865
Long-term liabilities:		
Deferred taxes	13,768	21,706
Other long-term liabilities	4,004	3,367
Total long-term liabilities	17,772	25,073
Equity:		
REX shareholders' equity:		
Common stock	299	299
Paid-in capital	148,212	146,923
Retained earnings	566,626	547,913
Treasury stock	(329,999)	(313,643)
Total REX shareholders' equity	385,138	381,492
Noncontrolling interests	51,110	50,434
Total equity	436,248	431,926
Total liabilities and equity	\$ 476,170	\$ 478,864

The accompanying notes are an integral part of these unaudited consolidated condensed financial statements.

REX AMERICAN RESOURCES CORPORATION AND SUBSIDIARIES
Consolidated Condensed Statements of Operations
Unaudited

	Three Months Ended July 31,		Six Months Ended July 31,	
	2018	2017	2018	2017
(In Thousands, Except Per Share Amounts)				
Net sales and revenue	\$ 128,757	\$ 108,744	\$ 249,577	\$ 221,887
Cost of sales	119,358	97,963	229,327	198,617
Gross profit	9,399	10,781	20,250	23,270
Selling, general and administrative expenses	(6,110)	(4,779)	(10,663)	(10,181)
Equity in income of unconsolidated affiliates	874	137	1,571	837
Interest and other income	696	334	1,350	549
Income before income taxes	4,859	6,473	12,508	14,475
Benefit (provision) for income taxes	5,631	(2,302)	8,334	(4,692)
Net income	10,490	4,171	20,842	9,783
Net income attributable to noncontrolling interests	(1,273)	(1,230)	(2,129)	(2,298)
Net income attributable to REX common shareholders	<u>\$ 9,217</u>	<u>\$ 2,941</u>	<u>\$ 18,713</u>	<u>\$ 7,485</u>
Weighted average shares outstanding – basic and diluted	<u>6,466</u>	<u>6,593</u>	<u>6,517</u>	<u>6,592</u>
Basic and diluted net income per share attributable to REX common shareholders	<u>\$ 1.43</u>	<u>\$ 0.45</u>	<u>\$ 2.87</u>	<u>\$ 1.14</u>

The accompanying notes are an integral part of these unaudited consolidated condensed financial statements.

REX AMERICAN RESOURCES CORPORATION AND SUBSIDIARIES
Consolidated Condensed Statements of Equity
Unaudited

(In Thousands)

	REX Shareholders								Total Equity
	Common Shares Issued		Treasury		Paid-in Capital	Retained Earnings	Noncontrolling Interests		
	Shares	Amount	Shares	Amount					
Balance at January 31, 2018	29,853	\$ 299	23,287	\$ (313,643)	\$ 146,923	\$ 547,913	\$ 50,434	\$ 431,926	
Net income						18,713	2,129	20,842	
Treasury stock acquired			228	(16,648)				(16,648)	
Capital contributions							246	246	
Issuance of equity awards and stock based compensation expense			(13)	292	1,289			1,581	
Noncontrolling interests distribution and other	—	—	—	—	—	—	(1,699)	(1,699)	
Balance at July 31, 2018	<u>29,853</u>	<u>\$ 299</u>	<u>23,502</u>	<u>\$ (329,999)</u>	<u>\$ 148,212</u>	<u>\$ 566,626</u>	<u>\$ 51,110</u>	<u>\$ 436,248</u>	
Balance at January 31, 2017	29,853	\$ 299	23,292	\$ (313,838)	\$ 145,767	\$ 508,207	\$ 47,839	\$ 388,274	
Net income						7,485	2,298	9,783	
Issuance of equity awards and stock based compensation expense			(5)	180	1,084			1,264	
Noncontrolling interests distribution and other	—	—	—	—	—	—	(1,725)	(1,725)	
Balance at July 31, 2017	<u>29,853</u>	<u>\$ 299</u>	<u>23,287</u>	<u>\$ (313,658)</u>	<u>\$ 146,851</u>	<u>\$ 515,692</u>	<u>\$ 48,412</u>	<u>\$ 397,596</u>	

The accompanying notes are an integral part of these unaudited consolidated condensed financial statements.

REX AMERICAN RESOURCES CORPORATION AND SUBSIDIARIES
Consolidated Condensed Statements of Cash Flows
Unaudited

(In Thousands)

	Six Months Ended July 31,	
	2018	2017
Cash flows from operating activities:		
Net income including noncontrolling interests	\$ 20,842	\$ 9,783
Adjustments to reconcile net income to net cash provided by operating activities:		
Depreciation	12,033	9,955
Income from equity method investments	(1,571)	(837)
Dividends received from equity method investee	1,003	2,005
Accrued interest income	(815)	—
Deferred income tax	(7,938)	537
Stock based compensation expense	443	350
Loss (gain) on disposal of property and equipment	104	(13)
Loss on sale of investment	—	13
Changes in assets and liabilities:		
Accounts receivable	(1,735)	886
Inventories	(4,416)	(5,034)
Other assets	(2,443)	(953)
Accounts payable, trade	4,002	1,678
Other liabilities	(1,262)	(4,828)
Net cash provided by operating activities	<u>18,247</u>	<u>13,542</u>
Cash flows from investing activities:		
Capital expenditures	(5,813)	(14,366)
Purchase of short-term investments	(111,154)	—
Other	18	219
Net cash used in investing activities	<u>(116,949)</u>	<u>(14,147)</u>
Cash flows from financing activities:		
Treasury stock acquired	(16,648)	—
Dividend payments to and purchases of stock from noncontrolling interests holders	(1,699)	(1,725)
Capital contributions from minority investor	246	—
Net cash used in financing activities	<u>(18,101)</u>	<u>(1,725)</u>
Net decrease in cash, cash equivalents and restricted cash	<u>(116,803)</u>	<u>(2,330)</u>
Cash, cash equivalents and restricted cash, beginning of period	191,342	188,706
Cash, cash equivalents and restricted cash, end of period	<u>\$ 74,539</u>	<u>\$ 186,376</u>
Non cash investing activities – Accrued capital expenditures	<u>\$ 469</u>	<u>\$ 744</u>
Non cash financing activities – Stock awards accrued	<u>\$ 335</u>	<u>\$ 281</u>
Non cash financing activities – Stock awards issued	<u>\$ 1,473</u>	<u>\$ 1,195</u>
Reconciliation of total cash, cash equivalents and restricted cash:		
Cash and cash equivalents	\$ 73,761	\$ 185,997
Restricted cash	778	379
Total cash, cash equivalents and restricted cash	<u>\$ 74,539</u>	<u>\$ 186,376</u>

The accompanying notes are an integral part of these unaudited consolidated condensed financial statements.

REX AMERICAN RESOURCES CORPORATION AND SUBSIDIARIES
NOTES TO UNAUDITED CONSOLIDATED CONDENSED FINANCIAL STATEMENTS
July 31, 2018

Note 1. Consolidated Condensed Financial Statements

The consolidated condensed financial statements included in this report have been prepared by the Company, without audit, pursuant to the rules and regulations of the Securities and Exchange Commission and include, in the opinion of management, all adjustments necessary to state fairly the information set forth therein. Any such adjustments were of a normal recurring nature. Certain information and footnote disclosures normally included in financial statements prepared in accordance with accounting principles generally accepted in the United States of America have been omitted pursuant to such rules and regulations, although the Company believes that the disclosures are adequate to make the information presented not misleading. Financial information as of January 31, 2018 included in these financial statements has been derived from the audited consolidated financial statements included in the Company's Annual Report on Form 10-K for the year ended January 31, 2018 (fiscal year 2017). It is suggested that these unaudited consolidated condensed financial statements be read in conjunction with the consolidated financial statements and the notes thereto included in the Company's Annual Report on Form 10-K for the year ended January 31, 2018. The results of operations for the interim periods are not necessarily indicative of the results to be expected for the year.

Basis of Consolidation – The consolidated condensed financial statements in this report include the operating results and financial position of REX American Resources Corporation and its wholly and majority owned subsidiaries. All intercompany balances and transactions have been eliminated. The Company consolidates the results of its four majority owned subsidiaries. The Company includes the results of operations of One Earth Energy, LLC (“One Earth”) in its Consolidated Condensed Statements of Operations on a delayed basis of one month as One Earth has a fiscal year end of December 31.

Nature of Operations – In the third quarter of fiscal year 2017, the Company began reporting the results of its refined coal operation as a new segment as a result of the August 10, 2017 acquisition of an entity that operates a refined coal facility (see Note 4). Prior to the acquisition, the Company had one reportable segment, ethanol. Beginning with the third quarter of fiscal year 2017, the Company has two reportable segments: i) ethanol and by-products and ii) refined coal. Within the ethanol and by-products segment, the Company has equity investments in three ethanol limited liability companies, two of which are majority ownership interests. Within the refined coal segment, the Company has a majority equity interest in one refined coal limited liability company.

Note 2. Accounting Policies

The interim consolidated condensed financial statements have been prepared in accordance with the accounting policies described in the notes to the consolidated financial statements included in the Company's fiscal year 2017 Annual Report on Form 10-K and the adoption of new accounting standards described at the end of this footnote. While management believes that the procedures followed in the preparation of interim financial information are reasonable, the accuracy of some estimated amounts is dependent upon facts that will exist or calculations that will be accomplished at fiscal year-end. Examples of such estimates include accrued liabilities, such as management bonuses, and the provision for income taxes. Any adjustments pursuant to such estimates during the quarter were of a normal recurring nature. Actual results could differ from those estimates.

Cash and Cash Equivalents

Cash and cash equivalents includes bank deposits as well as short-term, highly liquid investments with original maturities of three months or less.

Revenue Recognition

For ethanol and by-products segment sales, the Company recognizes sales of ethanol, distillers grains and non-food grade corn oil when obligations under the terms of the respective contracts with customers are satisfied; this occurs with the transfer of control of products, generally upon shipment from the ethanol plant or upon loading of the rail car used to transport the products. For refined coal segment sales, the Company recognizes sales of refined coal when obligations under the term of the contract with its customer are satisfied; this occurs when title and control of the product transfers to its customer, generally upon the coal leaving the refined coal plant. Refined coal sales are recorded net of the cost of coal as the Company purchases the coal feedstock from the customer to which the processed refined coal is sold.

Cost of Sales

Cost of sales includes depreciation, costs of raw materials, inbound freight charges, purchasing and receiving costs, inspection costs, other distribution expenses, warehousing costs, plant management, certain compensations costs, and general facility overhead charges.

Selling, General and Administrative Expenses

The Company includes non-production related costs such as professional fees, selling charges and certain payroll in selling, general and administrative expenses.

Financial Instruments

Certain of the forward grain purchase and ethanol, distillers grains and non-food grade corn oil sale contracts are accounted for under the “normal purchases and normal sales” scope exemption of Accounting Standards Codification (“ASC”) 815, “*Derivatives and Hedging*” (“ASC 815”) because these arrangements are for purchases of grain that will be delivered in quantities expected to be used by the Company and sales of ethanol, distillers grains and non-food grade corn oil quantities expected to be produced by the Company over a reasonable period of time in the normal course of business.

The Company uses derivative financial instruments (exchange-traded futures contracts) to manage a portion of the risk associated with changes in commodity prices, primarily related to corn. The Company monitors and manages this exposure as part of its overall risk management policy. As such, the Company seeks to reduce the potentially adverse effects that the volatility of these markets may have on its operating results. The Company may take hedging positions in these commodities as one way to mitigate risk. While the Company attempts to link its hedging activities to purchase and sales activities, there are situations in which these hedging activities can themselves result in losses. The Company does not hold or issue

derivative financial instruments for trading or speculative purposes. The changes in fair value of these derivative financial instruments are recognized in current period earnings as the Company does not use hedge accounting.

Income Taxes

The Company applies an effective tax rate to interim periods that is consistent with the Company's estimated annual effective tax rate as adjusted for discrete items impacting the interim periods. The Company's estimated annual effective tax rate includes the impact of its refined coal operation and the expected federal income tax credits to be earned, beginning August 10, 2017, the date of the refined coal acquisition (see Note 4). The Company provides for deferred tax liabilities and assets for the future tax consequences attributable to differences between the financial statement carrying amounts of existing assets and liabilities and their respective tax basis and operating loss and tax credit carryforwards. The Company provides for a valuation allowance if, based on the weight of available evidence, it is more likely than not that some or all of the deferred tax assets will not be realized. The Company paid income taxes of approximately \$0.5 million and approximately \$6.5 million during the six months ended July 31, 2018 and 2017, respectively. The company did not receive any refunds of income taxes during the six months ended July 31, 2018 and 2017.

As of July 31, 2018 and January 31, 2018, total unrecognized tax benefits were approximately \$2.8 million and \$2.0 million, respectively. Accrued penalties and interest were approximately \$0.4 million at July 31, 2018 and January 31, 2018. If the Company were to prevail on all unrecognized tax benefits recorded, the provision for income taxes would be reduced by approximately \$2.8 million. In addition, the impact of penalties and interest would also benefit the effective tax rate. Interest and penalties associated with unrecognized tax benefits are recorded within income tax expense. On a quarterly basis, the Company accrues for the effects of open uncertain tax positions and the related potential penalties and interest.

Inventories

Inventories are carried at the lower of cost or market on a first-in, first-out basis. Inventory includes direct production costs and certain overhead costs such as depreciation, property taxes and utilities related to producing ethanol and related by-products and refined coal. Inventory is permanently written down for instances when cost exceeds estimated net realizable value; such write-downs are based primarily upon commodity prices as the market value of inventory is often dependent upon changes in commodity prices. There were no significant permanent write-downs of inventory at July 31, 2018 and January 31, 2018. Fluctuations in the write-down of inventory generally relate to the levels and composition of such inventory at a given point in time. The components of inventory are as follows as of the dates presented (amounts in thousands):

	July 31, 2018	January 31, 2018
Ethanol and other finished goods	\$ 8,193	\$ 8,402
Work in process	2,975	2,824
Grain and other raw materials	14,003	9,529
Total	<u>\$ 25,171</u>	<u>\$ 20,755</u>

Property and Equipment

Property and equipment is recorded at cost or the fair value on the date of acquisition (for property and equipment acquired in a business combination). Depreciation is computed using the straight-line method. Estimated useful lives are 5 to 40 years for buildings and improvements, and 2 to 20 years for fixtures and equipment.

In accordance with ASC 360-10 "*Impairment or Disposal of Long-Lived Assets*", the carrying value of long-lived assets is assessed for recoverability by management when changes in circumstances indicate that the carrying amount may not be recoverable, based on an analysis of undiscounted future expected cash flows from the use and ultimate disposition of the asset. There were no impairment charges in the first six months of fiscal years 2018 or 2017. Impairment charges have historically resulted from the Company's management performing cash flow analysis and have represented management's estimate of the excess of net book value over fair value.

The Company tests for recoverability of an asset group by comparing its carrying amount to its estimated undiscounted future cash flows. If the carrying amount of an asset group exceeds its estimated undiscounted future cash flows, the Company recognizes an impairment charge for the amount by which the asset group's carrying amount exceeds its fair value, if any. The Company generally determines the fair value of the asset group using a discounted cash flow model based on market participant assumptions (for income producing asset groups) or by obtaining appraisals based on the market approach and comparable market transactions (for non-income producing asset groups).

Investments

The method of accounting applied to long-term investments, whether consolidated, equity or cost, involves an evaluation of the significant terms of each investment that explicitly grant or suggest evidence of control or influence over the operations of the investee and also includes the identification of any variable interests in which the Company is the primary beneficiary. The Company accounts for investments in a limited liability company in which it has a less than 20% ownership interest using the equity method of accounting when the factors discussed in ASC 323, "*Investments-Equity Method and Joint Ventures*" are met. The excess of the carrying value over the underlying equity in the net assets of equity method investees is allocated to specific assets and liabilities. Any unallocated excess is treated as goodwill and is recorded as a component of the carrying value of the equity method investee. Investments in businesses that the Company does not control but for which it has the ability to exercise significant influence over operating and financial matters are accounted for using the equity method. The Company accounts for its investment in Big River Resources, LLC ("Big River") using the equity method of accounting and includes the results on a delayed basis of one month as Big River has a fiscal year end of December 31.

The Company periodically evaluates its investments for impairment due to declines in market value considered to be other than temporary. Such impairment evaluations include general economic and company-specific evaluations. If the Company determines that a decline in market value is other than temporary, then a charge to earnings is recorded in the Consolidated Condensed Statements of Operations and a new cost basis in the investment is established.

Short-term investments are considered held to maturity, and, therefore are carried at amortized historical cost.

Comprehensive Income

The Company has no components of other comprehensive income, and therefore, comprehensive income equals net income.

Accounting Changes and Recently Issued Accounting Standards

Effective February 1, 2018, the Company adopted the amended guidance in ASC Topic 606 “*Revenue from Contracts with Customers*”, which requires revenue recognition to reflect the transfer of promised goods or services to customers and replaces existing revenue recognition guidance. See Note 3 for a further discussion of adopting this amended guidance.

Effective February 1, 2018, the Company prospectively adopted Accounting Standards Update “ASU” 2016-15 “*Statement of Cash Flows (Topic 230), Classification of Certain Cash Receipts and Cash Payments*”. This standard provides guidance on eight specific cash flow issues. The cash flow issues covered by this ASU are: 1) debt prepayment or debt extinguishment costs; 2) settlement of zero-coupon debt instruments or other debt instruments with coupon interest rates that are insignificant in relation to the effective interest rate of the borrowing; 3) contingent consideration payments made after a business combination; 4) proceeds from the settlement of insurance claims; 5) proceeds from the settlement of corporate-owned life insurance policies, including bank-owned life insurance policies; 6) distributions received from equity method investees; 7) beneficial interests in securitization transactions; and 8) separately identifiable cash flows and application of the predominance principle for distributions received from equity method investees in the Statement of Cash Flows. The adoption of this standard did not affect the consolidated condensed financial statements and related disclosures.

Effective February 1, 2018, the Company adopted ASU 2016-18 “*Statement of Cash Flows (Topic 230), Restricted Cash*”. This standard requires that the statements of cash flows explain the changes in the combined total of restricted and unrestricted cash balances. Amounts generally described as restricted cash will be combined with unrestricted cash and cash equivalents when reconciling the beginning and end of period balances on the statements of cash flows. The Company adopted this standard retrospectively. Therefore, the beginning period balance of cash and cash equivalents as of January 31, 2017 was increased by \$130,000, the end of period balance of cash and cash equivalents as of July 31, 2017 was increased by \$379,000 and the beginning period balance of cash and cash equivalents as of January 31, 2018 was increased by \$354,000 to reflect the respective restricted cash amounts.

In February 2016, the FASB issued ASU 2016-02 “*Leases*”. This standard requires that virtually all leases will be recognized by lessees on their balance sheet as a right-of-use asset and a corresponding lease liability, including leases currently accounted for as operating leases. The Company will be required to adopt this standard effective February 1, 2019. The related leases are currently accounted for as operating leases (see Note 5). This standard requires a modified retrospective transition approach and allows for early adoption. In July 2018, FASB issued Accounting Standards Update, *Leases (Topic 842): Targeted Improvements*, which provides an option to apply the transition provisions of the new standard at the adoption date instead of the earliest comparative period presented in the financial statements.

The Company has not completed its analysis of the effect of adopting this guidance but it does expect the adoption of this guidance to have a material impact on its Consolidated Balance Sheet related to the right-of-use asset and lease obligation liability to be recognized upon adoption of this guidance in addition to requiring expanded disclosures in the Company's consolidated financial statements. The Company expects to complete its analysis of the impact of adopting this guidance during the second half of fiscal year 2018.

Note 3. Net Sales and Revenue

On February 1, 2018, the Company adopted the amended guidance in ASC Topic 606, "*Revenue from Contracts with Customers*", and all related amendments and applied it to all contracts utilizing the modified retrospective method. There were no adjustments to the Consolidated Condensed Balance Sheet as of February 1, 2018 as a result of the adoption of this accounting guidance. Therefore, comparative information has not been restated and continues to be reported under the accounting standards in effect for those periods. Furthermore, there was no impact related to the adoption of this accounting guidance on the Consolidated Condensed Statements of Operations or Balance Sheets for the three and six months ended July 31, 2018. The Company expects the impact of adopting this accounting guidance to be immaterial on an ongoing basis.

The Company recognizes sales of products when obligations under the terms of the respective contracts with customers are satisfied. This occurs with the transfer of control of products, generally upon shipment from the ethanol plant or upon loading of the rail car used to transport the products. Revenue is measured as the amount of consideration expected to be received in exchange for transferring goods. Sales, value add and other taxes the Company collects concurrent with revenue producing activities are excluded from net sales and revenue.

The majority of the Company's sales have payment terms ranging from 5 to 10 days after transfer of control. The Company has determined that sales contracts do not generally include a significant financing component. The Company has not historically, and does not intend to, enter into sales contracts in which payment is due from a customer prior to transferring product to the customer. Thus, the Company does not record unearned revenue.

The Company elected, pursuant to the new accounting guidance, to recognize the cost for shipping and handling activities that occur after the customer obtains control of the promised goods as fulfillment activities and not when performance obligations are met.

See Note 17 for disaggregation of net sales and revenue by operating segment and by product.

Note 4. Business Combinations

On August 10, 2017, the Company, through a 95.35% owned subsidiary, purchased the entire ownership interest of an entity that owns a refined coal facility. The Company began operating its refined coal facility immediately after the acquisition. The Company expects that the revenues from the sale of refined coal produced in the facility will be subsidized by federal production tax credits through November 2021, subject to meeting qualified emissions reductions as governed by Section 45 of the Internal Revenue Code.

The impact on the combined results of operations of the Company and the refined coal entity, on a pro forma basis, as though the companies had been combined as of the beginning of fiscal year 2017, is as follows:

Cost of sales would have increased by approximately \$692,000 and approximately \$1,385,000 for the quarter and six months ended July 31, 2017, respectively. This pro forma increase is a result of increased depreciation expense as if the refined coal entity was consolidated during the six months ended July 31, 2017. Selling, general and administrative expenses would have increased by approximately \$2,510,000 for the six months ended July 31, 2017. These pro forma adjustments are a result of transaction costs occurring (on a pro forma basis) during the first quarter of fiscal year 2017. The provision for income taxes would have decreased by approximately \$263,000 for the quarter ended July 31, 2017 and approximately \$1,480,000 for the six months ended July 31, 2017. Net income attributable to REX common shareholders would have decreased by approximately \$409,000 and approximately \$2,303,000 for the quarter and six months ended July 31, 2017, respectively. Basic and diluted net income per share attributable to REX common shareholders would have decreased by approximately \$0.06 per share and approximately \$0.35 for the quarter and six months ended July 31, 2017, respectively.

The results of the Company's refined coal operations (approximately \$0.8 million of net sales and revenue and approximately \$9.9 million of net income attributable to REX common shareholders, including the income tax benefit of estimated Section 45 credits to be earned) have been included in the consolidated financial statements subsequent to the acquisition date and are included in the Company's refined coal segment.

The purchase price was \$12,049,000, which was paid in cash. The acquisition was recorded by allocating the total purchase price to the assets acquired, based on their estimated fair values at the acquisition date. The purchase price allocation is based on the final fair value assessment results of a valuation analysis. The income approach was used to determine the fair values of assets acquired. The following table summarizes the estimated fair values of the assets acquired at the acquisition date (amounts in thousands):

Inventory	\$ 49
Property, plant and equipment	12,000
Total assets acquired and purchase price	<u>\$ 12,049</u>

Transaction costs totaled approximately \$2.5 million during fiscal year 2017. The Company does not expect to incur additional transaction costs from this acquisition.

Note 5. Leases

At July 31, 2018, the Company has lease agreements, as lessee, for rail cars and a natural gas pipeline. All of the leases are accounted for as operating leases. The following table is a summary of future minimum rentals on such leases (amounts in thousands):

<u>Years Ended January 31,</u>	<u>Minimum Rentals</u>
Remainder of 2019	\$ 3,919
2020	6,873
2021	4,817
2022	4,164
2023	2,582
Thereafter	5,532
Total	<u>\$ 27,887</u>

Note 6. Fair Value

The Company applies ASC 820, “*Fair Value Measurements and Disclosures*” (“ASC 820”), which provides a framework for measuring fair value under accounting principles generally accepted in the United States of America. This accounting standard defines fair value as the exchange price that would be received for an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date.

The Company determines the fair market values of its financial instruments based on the fair value hierarchy established by ASC 820 which requires an entity to maximize the use of observable inputs and minimize the use of unobservable inputs when measuring fair value. The standard describes three levels of inputs that may be used to measure fair values which are provided below. The Company carries certain cash equivalents, investments and derivative instruments at fair value.

The fair values of derivative assets and liabilities traded in the over-the-counter market are determined using quantitative models that require the use of multiple market inputs including interest rates, prices and indices to generate pricing and volatility factors, which are used to value the position. The predominance of market inputs are actively quoted and can be validated through external sources, including brokers, market transactions and third-party pricing services. Estimation risk is greater for derivative asset and liability positions that are either option-based or have longer maturity dates where observable market inputs are less readily available or are unobservable, in which case interest rate, price or index scenarios are extrapolated in order to determine the fair value. The fair values of derivative assets and liabilities include adjustments for market liquidity, counterparty credit quality, the Company’s own credit standing and other specific factors, where appropriate.

To ensure the prudent application of estimates and management judgment in determining the fair value of derivative assets and liabilities, investments and property and equipment, various processes and controls have been adopted, which include: (i) model validation that requires a review and approval for pricing, financial statement fair value determination and risk quantification; and (ii) periodic review and substantiation of profit and loss reporting for all derivative instruments. Financial assets and liabilities measured at fair value on a recurring basis at July 31, 2018 are summarized below (amounts in thousands):

	<u>Level 1</u>	<u>Level 2</u>	<u>Level 3</u>	<u>Fair Value</u>
Investment in cooperative (2)	\$ —	\$ —	\$ 333	\$ 333
Total assets	<u>\$ —</u>	<u>\$ —</u>	<u>\$ 333</u>	<u>\$ 333</u>
Commodity futures (3)	\$ —	\$ 152	\$ —	\$ 152
Forward purchase contract liability (4)	—	1,724	—	1,724
Total liabilities	<u>\$ —</u>	<u>\$ 1,876</u>	<u>\$ —</u>	<u>\$ 1,876</u>

Financial assets and liabilities measured at fair value on a recurring basis at January 31, 2018 are summarized below (amounts in thousands):

	<u>Level 1</u>	<u>Level 2</u>	<u>Level 3</u>	<u>Fair Value</u>
Forward purchase contracts asset (1)	\$ —	\$ 72	\$ —	\$ 72
Investment in cooperative (2)	—	—	333	333
Total assets	<u>\$ —</u>	<u>\$ 72</u>	<u>\$ 333</u>	<u>\$ 405</u>
Commodity futures (3)	\$ —	\$ 87	\$ —	\$ 87
Forward purchase contract liability (4)	—	34	—	34
Total liabilities	<u>\$ —</u>	<u>\$ 121</u>	<u>\$ —</u>	<u>\$ 121</u>

(1) The forward purchase contract asset is included in “Prepaid expenses and other current assets” on the accompanying Consolidated Condensed Balance Sheets.

(2) The investment in cooperative is included in “Other assets” on the accompanying Consolidated Condensed Balance Sheets.

(3) Commodity futures are included in “Accrued expenses and other current liabilities” on the accompanying Consolidated Condensed Balance Sheets.

(4) The forward purchase contract liability is included in “Accrued expenses and other current liabilities” on the accompanying Consolidated Condensed Balance Sheets.

The Company determined the fair value of the investment in cooperative by using a discounted cash flow analysis on the expected cash flows. Inputs used in the analysis include the face value of the allocated equity amount, the projected term for repayment based upon a historical trend and a risk adjusted discount rate based on the expected compensation participants would demand because of the uncertainty of the future cash flows. The inherent risk and uncertainty associated with unobservable inputs could have a significant effect on the actual fair value of the investment.

There were no assets measured at fair value on a non-recurring basis at July 31, 2018 or January 31, 2018. As discussed in Note 4, the Company estimated the fair values of refined coal assets acquired using the income approach. This estimated fair value is a level 3 measurement.

Note 7. Property and Equipment

The components of property and equipment are as follows for the periods presented (amounts in thousands):

	July 31, 2018	January 31, 2018
Land and improvements	\$ 21,095	\$ 21,074
Buildings and improvements	23,598	23,272
Machinery, equipment and fixtures	293,509	288,832
Construction in progress	2,589	3,155
	<u>340,791</u>	<u>336,333</u>
Less: accumulated depreciation	(149,968)	(138,506)
Total	<u>\$ 190,823</u>	<u>\$ 197,827</u>

Note 8. Other Assets

The components of other assets are as follows for the periods presented (amounts in thousands):

	July 31, 2018	January 31, 2018
Real estate taxes refundable	\$ 7,099	\$ 6,719
Deposits	—	5
Other	717	730
Total	<u>\$ 7,816</u>	<u>\$ 7,454</u>

Real estate taxes refundable represent amounts due One Earth associated with refunds of previously paid taxes in connection with a tax increment financing arrangement with local taxing authorities. Deposits are with utility and other vendors.

Note 9. Accrued Expenses and Other Current Liabilities

The components of accrued expenses and other current liabilities are as follows for the periods presented (amounts in thousands):

	July 31, 2018	January 31, 2018
Accrued payroll and related items	\$ 1,543	\$ 5,108
Accrued utility charges	2,162	2,639
Accrued real estate taxes	1,570	2,678
Accrued income taxes	47	61
Other	5,233	3,230
Total	<u>\$ 10,555</u>	<u>\$ 13,716</u>

Note 10. Revolving Lines of Credit

Effective April 1, 2016, One Earth and NuGen Energy, LLC (“NuGen”) each entered into \$10.0 million revolving loan facilities that mature June 1, 2019 as extended. Neither One Earth nor NuGen had outstanding borrowings on the revolving loans during the six months ended July 31, 2018 and 2017.

Note 11. Derivative Financial Instruments

The Company is exposed to various market risks, including changes in commodity prices (raw materials and finished goods). To manage risks associated with the volatility of these natural business exposures, the Company enters into commodity agreements and forward purchase (corn) and sale (ethanol, distillers grains and non-food grade corn oil) contracts. The Company does not purchase or sell derivative financial instruments for trading or speculative purposes. The Company does not purchase or sell derivative financial instruments for which a lack of marketplace quotations would require the use of fair value estimation techniques.

The following table provides information about the fair values of the Company’s derivative financial instruments (that are not accounted for under the “normal purchases and normal sales” scope exemption of ASC 815) and the line items on the Consolidated Condensed Balance Sheets in which the fair values are reflected (in thousands):

	Asset Derivatives Fair Value		Liability Derivatives Fair Value	
	July 31, 2018	January 31, 2018	July 31, 2018	January 31, 2018
Commodity futures (1)	\$ —	\$ —	\$ 152	\$ 87
Forward purchase contracts (2)	—	72	1,724	34
Total	<u>\$ —</u>	<u>\$ 72</u>	<u>\$ 1,876</u>	<u>\$ 121</u>

(1) Commodity futures are included in accrued expenses and other current liabilities. These contracts are short/sell positions for approximately 4.9 million and 2.5 million bushels of corn at July 31, 2018 and January 31, 2018, respectively.

(2) Forward purchase contracts assets are included in prepaid expenses and other current assets while forward purchase contracts liabilities are included in accrued expenses and other current liabilities. These contracts are for purchases of approximately 11.5 million and 11.7 million bushels of corn at July 31, 2018 and January 31, 2018, respectively.

As of July 31, 2018, all of the derivative financial instruments held by the Company were subject to enforceable master netting arrangements. The Company’s accounting policy is to offset positions and amounts owed or owing with the same counterparty. As of July 31, 2018, the gross positions of the enforceable master netting agreements are not significantly different from the net positions presented in the table above. Depending on the amount of an unrealized loss on a derivative contract held by the Company, the counterparty may require collateral to secure the Company’s derivative contract position. As of July 31, 2018, the Company was required to maintain collateral in the amount of approximately \$778,000 to secure the Company’s derivative position.

See Note 6 which contains fair value information related to derivative financial instruments.

(Losses) or gains on the Company's derivative financial instruments of approximately \$(405,000) and approximately \$853,000 for the second quarters of fiscal years 2018 and 2017, respectively, were included in cost of sales on the Consolidated Condensed Statements of Operations. Gains on the Company's derivative financial instruments of approximately \$160,000 and approximately \$977,000 for the first six months of fiscal years 2018 and 2017, respectively, were included in cost of sales on the Consolidated Condensed Statements of Operations.

Note 12. Investments

The following table summarizes the Company's equity method investment at July 31, 2018 and January 31, 2018 (dollars in thousands):

Entity	Ownership Percentage	Carrying Amount July 31, 2018	Carrying Amount January 31, 2018
Big River	10.3%	\$ 35,117	\$ 34,549

Undistributed earnings of the Company's equity method investee totaled approximately \$15.1 million and \$14.5 million at July 31, 2018 and January 31, 2018, respectively. The Company received dividends from its equity method investee of approximately \$1.0 million and approximately \$2.0 million during the first six months of fiscal years 2018 and 2017, respectively.

Summarized financial information for the Company's equity method investee is presented in the following table for the periods presented (amounts in thousands):

	Three Months Ended July 31,		Six Months Ended July 31,	
	2018	2017	2018	2017
Net sales and revenue	\$ 212,092	\$ 212,070	\$ 404,035	\$ 404,569
Gross profit	\$ 10,648	\$ 11,582	\$ 24,339	\$ 19,764
Income from continuing operations	\$ 8,468	\$ 1,411	\$ 15,232	\$ 8,618
Net income	\$ 8,468	\$ 1,411	\$ 15,232	\$ 8,618

The following table summarizes the Company's held-to-maturity securities at July 31, 2018 (dollars in thousands):

	<u>Amortized Cost</u>	<u>Gross Unrealized Losses</u>	<u>Estimated Fair Value</u>
United States Treasury Bills	\$ 111,969	\$ 36	\$ 111,933

As of July 31, 2018, the contractual maturities of these investments were less than one year. Yield to maturity rates vary between 1.6% and 1.8%.

The Company had no held-to-maturity investments as of January 31, 2018.

Note 13. Employee Benefits

The Company maintains the REX 2015 Incentive Plan, approved by its shareholders, which reserves a total of 550,000 shares of common stock for issuance pursuant to its terms. The plan provides for the granting of shares of stock, including options to purchase shares of common stock, stock appreciation rights tied to the value of common stock, restricted stock, and restricted stock unit awards to eligible employees, non-employee directors and consultants. Since plan inception, the Company has only granted restricted stock awards. The Company measures share-based compensation grants at fair value on the grant date, adjusted for estimated forfeitures. The Company records noncash compensation expense related to liability and equity awards in its consolidated financial statements over the requisite service period on a straight-line basis. At July 31, 2018, 489,430 shares remain available for issuance under the Plan. As a component of their compensation, restricted stock has been granted to directors at the closing market price of REX common stock on the predetermined grant date. In addition one third of executives' incentive compensation is payable by an award of restricted stock based on the then closing market price of REX common stock on the predetermined grant date.

At July 31, 2018 and January 31, 2018, unrecognized compensation cost related to nonvested restricted stock was approximately \$275,000 and \$233,000, respectively. The following tables summarize non-vested restricted stock award activity for the six months ended July 31, 2018 and 2017:

Six Months Ended July 31, 2018

	Non-Vested Shares	Weighted Average Grant Date Fair Value (000's)	Weighted Average Remaining Vesting Term (in years)
Non-Vested at January 31, 2018	29,415	\$ 2,275	2
Granted	21,745	1,622	
Forfeited	—	—	
Vested	<u>13,124</u>	<u>963</u>	
Non-Vested at July 31, 2018	<u>38,036</u>	<u>\$ 2,934</u>	2

Six Months Ended July 31, 2017

	Non-Vested Shares	Weighted Average Grant Date Fair Value (000's)	Weighted Average Remaining Vesting Term (in years)
Non-Vested at January 31, 2017	23,350	\$ 1,386	2
Granted	14,156	1,370	
Forfeited	—	—	
Vested	<u>8,091</u>	<u>481</u>	
Non-Vested at July 31, 2017	<u>29,415</u>	<u>2,275</u>	2

The above tables include 34,148 and 24,711 non-vested shares at July 31, 2018 and 2017, respectively, which are included in the number of weighted average shares outstanding used to determine basic and diluted earnings per share attributable to REX common shareholders. Such shares are treated, for accounting purposes, as being fully vested at the grant date as they were granted to recipients who were retirement eligible at the time of grant.

Note 14. Income Taxes

The effective tax rate on consolidated pre-tax income was (115.9)% and 35.6% for the three months ended July 31, 2018 and 2017, respectively. The effective tax rate on consolidated pre-tax income was (66.6) % and 32.4% for the six months ended July 31, 2018 and 2017, respectively. The fluctuation in the rate results primarily from the production tax credits the Company expects to receive associated with its refined coal segment, lower tax rates as a result of the Tax Cuts and Jobs Act of 2017 ("the Tax Act") and expected research and experimentation federal tax credits to be claimed and earned in fiscal year 2018.

The Company records its tax provision/benefit based on an estimated annual effective rate adjusted for items recorded discretely. The estimated annual effective tax rate includes the impact of the refined coal operation and the expected federal income tax credits to be earned in fiscal year 2018.

The Tax Act signed into law on December 22, 2017, reduced the federal corporate income tax rate to 21% effective January 1, 2018. The Tax Act also made numerous other changes to the U.S. tax code, including, but not limited to, permitting full expensing of qualified property acquired after September 27, 2017, expanding prior limitations of the deductibility of certain executive compensation and eliminating the corporate alternative minimum tax.

The SEC issued Staff Accounting Bulletin 118 (“SAB 118”), which provides guidance on accounting for the tax effects of the Tax Act. In recognition of the inherent complexities associated with accounting for the effects of the Tax Act, SAB 118 provides a measurement period of up to one year from enactment of the Tax Act for companies to complete the accounting for the tax effects of the Tax Act. Although the Company’s accounting for the tax effects of the Tax Act are not yet complete, at January 31, 2018, the Company made a preliminary estimate of the effect of the tax rate reduction on the existing deferred tax balances and recorded a tax benefit of approximately \$14,362,000 to remeasure the deferred tax liability at the new 21% rate. The Company will continue to refine the calculation as additional analysis is completed, which will include a final determination of the deferred tax balances at January 31, 2018 after the Company’s federal income tax return is filed, and as further guidance is provided by the Internal Revenue Service.

Through its refined coal operation, the Company earns production tax credits pursuant to IRC Section 45. The credits can be used to reduce future income tax liabilities for up to 20 years.

The Company files a U.S. federal income tax return and various state income tax returns. In general, the Company is no longer subject to U.S. federal, state or local income tax examinations by tax authorities for years ended January 31, 2013 and prior. A reconciliation of the beginning and ending amount of unrecognized tax benefits, including interest and penalties, is as follows (amounts in thousands):

	Six Months Ended July 31,	
	2018	2017
Unrecognized tax benefits, beginning of period	\$ 2,325	\$ 2,096
Changes for prior years’ tax positions	832	164
Changes for current year tax positions	—	—
Unrecognized tax benefits, end of period	<u>\$ 3,157</u>	<u>\$ 2,260</u>

The Company expects to claim research and experimentation credits in the current year and certain prior years. In connection with this, the Company has increased the amount of unrecognized tax benefits.

Note 15. Commitments and Contingencies

The Company is involved in various legal actions arising in the normal course of business. After taking into consideration legal counsels’ evaluations of such actions, management is of the opinion that their outcome will not have a material adverse effect on the Company’s Consolidated Condensed Financial Statements.

One Earth and NuGen have combined forward purchase contracts for approximately 11.5 million bushels of corn, the principal raw material for their ethanol plants. They expect to take delivery of the grain through December 2018.

One Earth and NuGen have combined forward purchase contracts for approximately 1,936,000 Mmbtu (million british thermal units) of natural gas. They expect to take delivery of the natural gas through March 2019.

One Earth and NuGen have combined sales commitments for approximately 17.9 million gallons of ethanol, approximately 62,000 tons of distillers grains and approximately 10.2 million pounds of non-food grade corn oil. They expect to deliver a majority of the ethanol, distillers grains and non-food grade corn oil through September 2018.

The refined coal entity has various agreements (site license, operating agreements, etc.) containing payment terms based upon production of refined coal under which the Company is required to pay various fees. These fees totaled approximately \$5.1 million in the first six months of fiscal year 2018.

Note 16. Related-Party Transactions

During the second quarters of fiscal years 2018 and 2017, One Earth and NuGen purchased approximately \$45.2 million and approximately \$36.5 million, respectively, of corn from minority equity investors and board members of those subsidiaries. Such purchases totaled approximately \$91.4 million and approximately \$78.7 million for the six months ended July 31, 2018 and 2017, respectively. One Earth purchases all of its corn from an equity investor which acts as a grain origination agent for One Earth. The Company had amounts payable to related parties for corn purchases of approximately \$1.4 million and \$0.9 million at July 31, 2018 and January 31, 2018, respectively.

During the three months and six months ended July 31, 2018, the Company recognized commission expense of approximately \$0.2 million and \$0.3 million, respectively, payable to the minority investor in the refined coal entity. The Company did not recognize any commission expense during the first six months of fiscal year 2017. The commission expense is associated with the refined coal acquisition. The Company had accrued liabilities and accounts payable related to the commission expense of approximately \$1.5 million at July 31, 2018 and January 31, 2018, respectively.

Note 17. Segment Reporting

In the third quarter of fiscal year 2017, the Company began reporting the results of its refined coal operations as a new segment as a result of the refined coal acquisition (see Note 4.) The Company has two segments: ethanol and by-products and refined coal. Historical amounts have been reclassified to conform to the current year segment reporting presentation. The Company evaluates the performance of each reportable segment based on net income attributable to REX common shareholders.

The following table summarizes segment and other results and assets (amounts in thousands):

	Three Months Ended July 31,		Six Months Ended July 31,	
	2018	2017	2018	2017
Net sales and revenue:				
Ethanol and by-products	\$ 128,491	\$ 108,744	\$ 249,171	\$ 221,887
Refined coal ¹	266	—	406	—
Total net sales and revenue	<u>\$ 128,757</u>	<u>\$ 108,744</u>	<u>\$ 249,577</u>	<u>\$ 221,887</u>
¹ The Company records sales in the refined coal segment net of the cost of coal as the Company purchases the coal feedstock from the customer to which refined coal is sold.				
Segment gross profit (loss):				
Ethanol and by-products	\$ 13,669	\$ 10,781	\$ 27,215	\$ 23,270
Refined coal	(4,270)	—	(6,965)	—
Total gross profit	<u>\$ 9,399</u>	<u>\$ 10,781</u>	<u>\$ 20,250</u>	<u>\$ 23,270</u>
Income (loss) before income taxes:				
Ethanol and by-products	\$ 10,077	\$ 7,330	\$ 21,086	\$ 16,253
Refined coal	(4,788)	—	(7,647)	—
Corporate and other	(430)	(857)	(931)	(1,778)
Total income (loss) before income taxes	<u>\$ 4,859</u>	<u>\$ 6,473</u>	<u>\$ 12,508</u>	<u>\$ 14,475</u>
Benefit (provision) for income taxes:				
Ethanol and by-products	\$ (2,029)	\$ (2,675)	\$ (3,449)	\$ (5,380)
Refined coal	7,597	—	11,596	—
Corporate and other	63	373	187	688
Total benefit (provision) for income taxes	<u>\$ 5,631</u>	<u>\$ (2,302)</u>	<u>\$ 8,334</u>	<u>\$ (4,692)</u>
Segment profit (loss):				
Ethanol and by-products	\$ 6,561	\$ 3,419	\$ 15,150	\$ 8,561
Refined coal	3,018	—	4,289	—
Corporate and other	(362)	(478)	(726)	(1,076)
Net income attributable to REX common shareholders	<u>\$ 9,217</u>	<u>\$ 2,941</u>	<u>\$ 18,713</u>	<u>\$ 7,485</u>
Assets:				
	July 31, 2018	January 31, 2018		
Ethanol and by-products	\$ 402,728	\$ 384,997		
Refined coal	10,052	12,165		
Corporate and other	63,390	81,702		
Total assets	<u>\$ 476,170</u>	<u>\$ 478,864</u>		

	Three Months Ended July 31,		Six Months Ended July 31,	
	2018	2017	2018	2017
Sales of products, ethanol and by-products segment:				
Ethanol	\$ 100,289	\$ 88,785	\$ 192,182	\$ 180,257
Dried distillers grains	21,059	13,472	41,143	28,622
Non-food grade corn oil	5,075	4,726	10,055	9,318
Modified distillers grains	2,043	1,748	5,760	3,667
Other	25	13	31	23
Total	\$ 128,491	\$ 108,744	\$ 249,171	\$ 221,887

Sales of products, refined coal segment:

Refined coal	\$ 266	\$ —	\$ 406	\$ —
--------------	--------	------	--------	------

Item 2. Management's Discussion and Analysis of Financial Condition and Results of Operations

Ethanol and By-Products

At July 31, 2018, investments in our ethanol business include equity investments in three ethanol limited liability companies, in two of which we have a majority ownership interest. The following table is a summary of ethanol gallons shipped at our plants:

Entity	Trailing 12 Months Ethanol Gallons Shipped	REX's Current Effective Ownership Interest	Current Effective Ownership of Trailing 12 Months Ethanol Gallons Shipped
One Earth Energy, LLC	134.8 M	75.1%	101.2 M
NuGen Energy, LLC	138.4 M	99.5%	137.7 M
Big River Resources, LLC:			
Big River Resources W Burlington, LLC	108.6 M	10.3%	11.2 M
Big River Resources Galva, LLC	128.5 M	10.3%	13.2 M
Big River United Energy, LLC	129.8 M	5.7%	7.4 M
Big River Resources Boyceville, LLC	57.3 M	10.3%	5.9 M
Total	697.4 M		276.6 M

Our ethanol operations and the results thereof are highly dependent on commodity prices, especially prices for corn, ethanol, distillers grains, non-food grade corn oil and natural gas. As a result of price volatility for these commodities, our operating results can fluctuate substantially. The price and availability of corn is subject to significant fluctuations depending upon a number of factors that affect commodity prices in general, including crop conditions, weather, federal policy and foreign trade. Because the market price of ethanol is not always directly related to corn prices (for example, crude and other energy prices, the export market demand for ethanol and the results of federal policy decisions can impact ethanol prices), at times ethanol prices may not follow movements in corn prices and, in an environment of

higher corn prices or lower ethanol prices, reduce the overall margin structure at the plants. As a result, at times, we may operate our plants at negative or minimally positive operating margins.

We expect our ethanol plants to produce approximately 2.8 gallons of denatured ethanol for each bushel of grain processed in the production cycle. We refer to the actual gallons of denatured ethanol produced per bushel of grain processed as the realized yield. We refer to the difference between the price per gallon of ethanol and the price per bushel of grain (divided by the realized yield) as the “crush spread”. Should the crush spread decline, it is possible that our ethanol plants will generate operating results that do not provide adequate cash flows for sustained periods of time. In such cases, production at the ethanol plants may be reduced or stopped altogether in order to minimize variable costs at individual plants. We also expect our ethanol plants to produce approximately 15.0 pounds of distillers grains and 0.8 pounds of non-food grade corn oil for each bushel of grain processed.

We attempt to manage the risk related to the volatility of commodity prices by utilizing forward grain purchase, forward ethanol, distillers grains and corn oil sale contracts and commodity futures agreements as management deems appropriate. We attempt to match quantities of these sale contracts with an appropriate quantity of grain purchase contracts over a given period of time when we can obtain an adequate gross margin resulting from the crush spread inherent in the contracts we have executed. However, the market for future ethanol sales contracts generally lags the spot market with respect to ethanol price. Consequently, we generally execute fixed price contracts for no more than four months into the future at any given time and we may lock in our corn or ethanol price without having a corresponding locked in ethanol or corn price for short durations of time. As a result of the relatively short period of time our fixed price contracts cover, we generally cannot predict the future movements in the crush spread for more than four months; thus, we are unable to predict the likelihood or amounts of future income or loss from the operations of our ethanol facilities. We utilize derivative financial instruments, primarily exchange traded commodity future contracts, in conjunction with certain of our grain procurement activities.

Refined Coal

On August 10, 2017, we purchased the entire ownership interest of an entity that owns a refined coal facility, through a 95.35% owned subsidiary, for approximately \$12.0 million. We began operating the refined coal facility immediately after the acquisition. We expect that the revenues from the sale of refined coal produced in the facility will be subsidized by federal production tax credits through November 2021, subject to meeting qualified emissions reductions as governed by Section 45 of the Internal Revenue Code. In order to maintain compliance with Section 45 of the Internal Revenue Code, we are required to test every six months, through an independent laboratory, the effectiveness of our operations with respect to emissions reductions. Annually, the IRS publishes the amount of federal income tax credit earned per ton of refined coal produced and sold. We expect to earn credits at the rate of \$7.03 per ton of refined coal produced and sold during calendar year 2018.

The refined coal facility is located at the site of a utility-owned electrical generating power station, which is our refined coal operation’s sole customer. We expect refined coal production and sales amounts to vary with the demand requirements of the utility company, increasing during periods of colder and hotter weather conditions in the areas the utility company serves. We have contracted with an experienced third party to operate and maintain the refined coal facility and to provide us with management reporting and operating data as required. We do not have any employees on site at the refined coal facility.

Future Energy

During fiscal year 2013, we entered into a joint venture with Hytken HPGP, LLC (“Hytken”) to file and defend patents for eSteam technology relating to heavy oil and oil sands production methods, and to commercially exploit the technology to generate license fees, royalty income and development opportunities. The patented technology is an enhanced method of heavy oil recovery involving zero emissions downhole steam generation. We own 60% and Hytken owns 40% of the entity named Future Energy, LLC (“Future Energy”).

We have agreed to fund direct patent expenses relating to patent applications and defense, annual annuity fees and maintenance on a country by country basis, with the right to terminate funding and transfer related patent rights to Hytken. We may also fund, through loans, all costs relating to new intellectual property, consultants, and future research and development, pilot field tests and equipment purchases for commercialization stage of the patents. To date, we have paid approximately \$1.9 million cumulatively for our ownership interest, patent and other expenses. We have not yet tested or proven the commercial feasibility of the technology.

Critical Accounting Policies and Estimates

During the three months ended July 31, 2018, we did not change any of our critical accounting policies as disclosed in our 2017 Annual Report on Form 10-K as filed with the Securities and Exchange Commission on March 29, 2018.

Fiscal Year

All references in this report to a particular fiscal year are to REX’s fiscal year ended January 31. For example, “fiscal year 2018” means the period February 1, 2018 to January 31, 2019.

Results of Operations

For a detailed analysis of period to period changes, see the segment discussion that follows this section as that discussion reflects how management views and monitors our business.

Comparison of Three and Six Months Ended July 31, 2018 and 2017

Net sales and revenue in the quarter ended July 31, 2018 were approximately \$128.8 million compared to approximately \$108.7 million in the prior year’s second quarter, representing an increase of approximately \$20.1 million. The increase was primarily caused by higher sales in our ethanol and by-products segment of approximately \$19.7 million. Net sales and revenue in the first six months of fiscal year 2018 were approximately \$249.6 million compared to approximately \$221.9 million in the first six months of fiscal year 2017, representing an increase of approximately \$27.7 million. The increase was primarily caused by higher sales in our ethanol and by-products segment of approximately \$27.3 million.

Gross profit for the second quarter of fiscal year 2018 was approximately \$9.4 million (7.3% of net sales and revenue) which was approximately \$1.4 million lower compared to approximately \$10.8 million of gross profit (9.9% of net sales and revenue) for the second quarter of fiscal year 2017. Gross profit for the second quarter of fiscal year 2018 increased by approximately \$2.9 million compared to the prior year second quarter as a result of operations in the ethanol and by-products segment and decreased by approximately \$4.3 million as a result of operations in the refined coal segment. Gross profit for the first six months of fiscal year 2018 was approximately \$20.3 million (8.1% of net sales and revenue) which was approximately \$3.0 million lower compared to approximately \$23.3 million of gross profit (10.5% of net sales and revenue) for the first six months of fiscal year 2017. Gross profit for the first six months of fiscal year 2018 increased by approximately \$3.9 million compared to the first six months of fiscal year 2017 as a result of operations in the ethanol and by-products segment and decreased by approximately \$7.0 million as a result of operations in the refined coal segment.

Selling, general and administrative (“SG&A”) expenses were approximately \$6.1 million for the second quarter of fiscal year 2018, which was approximately \$1.3 million higher compared to approximately \$4.8 million for the second quarter of fiscal year 2017. The increase was primarily related to an increase in incentive compensation expenses associated with higher quarterly profitability in fiscal year 2018 and freight related charges. SG&A expenses were approximately \$10.7 million for the first six months of fiscal year 2018, which was approximately \$0.5 million higher compared to approximately \$10.2 million for the first six months of fiscal year 2017. The increase was primarily related to an increase in freight related charges in fiscal year 2018.

During the second quarters of fiscal years 2018 and 2017, we recognized income of approximately \$0.9 million and \$0.1 million, respectively, from our equity investment in Big River, which is included in our ethanol and by-products segment results. Such income was approximately \$1.6 million and \$0.8 million during the first six months of fiscal year 2018 and 2017, respectively. Big River’s results in fiscal year 2017 were negatively impacted by an asset impairment charge which reduced our equity method income by approximately \$0.5 million. Big River has interests in four ethanol production plants that shipped approximately 424 million gallons in the trailing twelve months ended July 31, 2018 and has an effective ownership of ethanol gallons shipped for the same period of approximately 366 million gallons. Big River’s operations also include agricultural elevators. Due to the inherent volatility of commodity prices within the ethanol industry, we cannot predict the likelihood of future operating results from Big River being similar to historical results.

Interest and other income was approximately \$0.7 million for the second quarter of fiscal year 2018 versus approximately \$0.3 million for the second quarter of fiscal year 2017. Interest and other income was approximately \$1.4 million for the first six months of fiscal year 2018 versus approximately \$0.5 million for the first six months of fiscal year 2017. Income has increased as yields on our excess cash have improved compared to fiscal year 2017.

As a result of the foregoing, income before income taxes was approximately \$4.9 million for the second quarter of fiscal year 2018 versus approximately \$6.5 million for the second quarter of fiscal year 2017. Income before income taxes was approximately \$12.5 million for the first six months of fiscal year 2018 versus approximately \$14.5 million for the first six months of fiscal year 2017.

Our effective tax rate was approximately (115.9)% and 35.6% for the second quarters of fiscal years 2018 and 2017, respectively, and approximately (66.6)% and 32.4% for the first six months of fiscal years 2018 and 2017, respectively. The fluctuation in the rate results primarily from the production tax credits we expect to receive associated with our refined coal segment and from the research and experimentation credits we expect to receive associated with our ethanol and by-products segment. In addition the fluctuation in the rate also was impacted by the Tax Act, which reduced the federal income tax rate on corporations from 35% to 21% effective January 1, 2018. We record our tax provision/benefit based on an estimated annual effective rate adjusted for items recorded discretely.

As a result of the foregoing, net income was approximately \$10.5 million for the second quarter of fiscal year 2018 compared to approximately \$4.2 million for the second quarter of fiscal year 2017. Net income was approximately \$20.8 million for the first six months of fiscal year 2018 compared to approximately \$9.8 million for the first six months of fiscal year 2017.

Income related to noncontrolling interests was approximately \$1.3 million and approximately \$1.2 million during the second quarters of fiscal years 2018 and 2017, respectively, and was approximately \$2.1 million and approximately \$2.3 million during the first six months of fiscal years 2018 and 2017, respectively. These amounts represent the other owners' share of the income or loss of NuGen, One Earth, the refined coal entity and Future Energy.

As a result of the foregoing, net income attributable to REX common shareholders for the second quarter of fiscal year 2018 was approximately \$9.2 million, an increase of approximately \$6.3 million from approximately \$2.9 million for the second quarter of fiscal year 2017. Net income attributable to REX common shareholders for the first six months of fiscal year 2018 was approximately \$18.7 million, an increase of approximately \$11.2 million from approximately \$7.5 million for the first six months of fiscal year 2017.

Business Segment Results

In the third quarter of fiscal year 2017, we began reporting the results of our refined coal operations as a new segment as a result of the acquisition of a refined coal entity (see Note 3.) We have two segments: ethanol and by-products and refined coal. Historical amounts have been reclassified to conform to the current year segment reporting presentation. We evaluate the performance of each reportable segment based on segment profit. Segment profit excludes indirect interest income and certain other items that are included in net income determined in accordance with accounting principles generally accepted in the United States of America. Segment profit includes realized and unrealized gains and losses on derivative financial instruments and the provision/benefit for income taxes.

The following sections discuss the results of operations for each of our business segments and corporate and other. Amounts in the corporate and other category include activities that are not separately reportable or related to a segment.

The following table summarizes segment and other results (amounts in thousands):

	Three Months Ended July 31,		Six Months Ended July 31,	
	2018	2017	2018	2017
Net sales and revenue:				
Ethanol and by-products	\$ 128,491	\$ 108,744	\$ 249,171	\$ 221,887
Refined coal ¹	266	—	406	—
Total net sales and revenue	<u>\$ 128,757</u>	<u>\$ 108,744</u>	<u>\$ 249,577</u>	<u>\$ 221,887</u>
1 We record sales in the refined coal segment net of the cost of coal as we purchase the coal feedstock from the customer to which refined coal is sold.				
Segment gross profit (loss):				
Ethanol and by-products	\$ 13,669	\$ 10,781	\$ 27,215	\$ 23,270
Refined coal	(4,270)	—	(6,965)	—
Total gross profit	<u>\$ 9,399</u>	<u>\$ 10,781</u>	<u>\$ 20,250</u>	<u>\$ 23,270</u>
Income (loss) before income taxes:				
Ethanol and by-products	\$ 10,077	\$ 7,330	\$ 21,086	\$ 16,253
Refined coal	(4,788)	—	(7,647)	—
Corporate and other	(430)	(857)	(931)	(1,778)
Total income (loss) before income taxes	<u>\$ 4,859</u>	<u>\$ 6,473</u>	<u>\$ 12,508</u>	<u>\$ 14,475</u>
Benefit (provision) for income taxes:				
Ethanol and by-products	\$ (2,029)	\$ (2,675)	\$ (3,449)	\$ (5,380)
Refined coal	7,597	—	11,596	—
Corporate and other	63	373	187	688
Total benefit (provision) for income taxes	<u>\$ 5,631</u>	<u>\$ (2,302)</u>	<u>\$ 8,334</u>	<u>\$ (4,692)</u>
Segment profit (loss):				
Ethanol and by-products	\$ 6,561	\$ 3,419	\$ 15,150	\$ 8,561
Refined coal	3,018	—	4,289	—
Corporate and other	(362)	(478)	(726)	(1,076)
Net income attributable to REX common shareholders	<u>\$ 9,217</u>	<u>\$ 2,941</u>	<u>\$ 18,713</u>	<u>\$ 7,485</u>

Ethanol and by-Products

The ethanol and by-products segment includes the consolidated financial results of One Earth and NuGen, our equity investment in Big River and certain administrative expenses.

The following table summarizes sales from One Earth and NuGen by product group (amounts in thousands):

	Three Months Ended July 31,		Six Months Ended July 31,	
	2018	2017	2018	2017
Sales of products, ethanol and by-products segment:				
Ethanol	\$ 100,289	\$ 88,785	\$ 192,182	\$ 180,257
Dried distillers grains	21,059	13,472	41,143	28,622
Non-food grade corn oil	5,075	4,726	10,055	9,318
Modified distillers grains	2,043	1,748	5,760	3,667
Other	25	13	31	23
Total	<u>\$ 128,491</u>	<u>\$ 108,744</u>	<u>\$ 249,171</u>	<u>\$ 221,887</u>

The following table summarizes selected operating data from One Earth and NuGen:

	Three Months Ended July 31,		Six Months Ended July 31,	
	2018	2017	2018	2017
Average selling price per gallon of ethanol	\$ 1.38	\$ 1.45	\$ 1.35	\$ 1.45
Gallons of ethanol sold (in millions)	72.7	61.3	141.9	124.7
Average selling price per ton of dried distillers grains	\$ 148.98	\$ 95.39	\$ 143.28	\$ 97.81
Tons of dried distillers grains sold	141,354	141,233	287,148	292,635
Average selling price per pound of non-food grade corn oil	\$ 0.24	\$ 0.29	\$ 0.24	\$ 0.28
Pounds of non-food grade corn oil sold (in millions)	21.2	16.5	41.4	33.1
Average selling price per ton of modified distillers grains	\$ 63.72	\$ 41.00	\$ 67.81	\$ 41.47
Tons of modified distillers grains sold	32,053	42,632	84,939	88,434
Average cost per bushel of grain	\$ 3.60	\$ 3.38	\$ 3.55	\$ 3.47
Average cost of natural gas (per mmbtu)	\$ 2.86	\$ 3.30	\$ 3.16	\$ 3.52

Ethanol sales increased from approximately \$88.8 million in the second quarter of fiscal year 2017 to approximately \$100.3 million in the second quarter of fiscal year 2018, primarily a result of a 19% increase in gallons sold, which was partially offset by a \$0.07 decline in the price per gallon sold. The volume increase was a result of our recent capacity expansion efforts. Dried distillers grains sales increased from approximately \$13.5 million in the second quarter of fiscal year 2017 to approximately \$21.1 million in the second quarter of fiscal year 2018, primarily a result of a \$53.59 increase in the price per ton sold. Non-food grade corn oil sales increased from approximately \$4.7 million in the second quarter of fiscal year 2017 to approximately \$5.1 million in the second quarter of fiscal year 2018, primarily a result of a 28% increase in pounds sold, which was partially offset by a \$0.05 decline in the price per pound sold. Modified distillers grains sales increased from approximately \$1.7 million in the second quarter of fiscal year 2017 to approximately \$2.0 million in the second quarter of fiscal year 2018, primarily a result of a \$22.72 increase in the price per ton sold, which was partially offset by a 25% decrease in tons sold.

Ethanol sales increased from approximately \$180.3 million in the first six months of fiscal year 2017 to approximately \$192.2 million in the first six months of fiscal year 2018, primarily a result of an increase of 17.2 million gallons sold, which was partially offset by a \$0.10 decrease in the price per gallon sold. The volume increase was a result of our recent capacity expansion efforts. Dried distillers grains sales increased from approximately \$28.6 million in the first six months of fiscal year 2017 to approximately \$41.1 million in the first six months of fiscal year 2018, primarily a result of a \$45.47 increase in the price per ton sold. Non-food grade corn oil sales increased from approximately \$9.3 million in the first six months of fiscal year 2017 to approximately \$10.1 million in the first six months of fiscal year 2018, primarily a result of a 25% increase in pounds sold, which was partially offset by a \$0.04 decline in the price per pound sold. Modified distillers grains sales increased from approximately \$3.7 million in the first six months of fiscal year 2017 to approximately \$5.8 million in the first six months of fiscal year 2018, primarily a result of a \$26.34 increase in the price per ton sold, which was partially offset by a 4% decrease in tons sold.

We expect that sales in future periods will be based upon the following (One Earth and NuGen only):

Product	Annual Sales Quantity
Ethanol	260 million to 300 million gallons
Dried distillers grains	590,000 to 630,000 tons
Non-food grade corn oil	70 million to 90 million pounds
Modified distillers grains	170,000 to 225,000 tons

This expectation assumes that One Earth and NuGen will operate at slightly above historical production levels, as we seek to benefit from our recently completed plant expansion projects, which is dependent upon market conditions, plant profitability and efficient plant operations. We may vary the amounts of ethanol, dried and modified distillers grains and corn oil production, and thus, the resulting sales, based upon market conditions. NuGen and One Earth have received the EPA pathway approval and have permits to increase each of their production levels to 150 million gallons annually.

Gross profit for the second quarter of fiscal year 2018 was approximately \$13.7 million (10.6% of net sales and revenue), which was approximately \$2.9 million higher compared to approximately \$10.8 million of gross profit (9.9% of net sales and revenue) for the second quarter of fiscal year 2017. The crush spread for the second quarter of fiscal year 2018 was approximately \$0.13 per gallon of ethanol sold compared to the second quarter of fiscal year 2017 which was approximately \$0.24 per gallon of ethanol sold. The increase of approximately \$7.6 million in sales of dried distillers grains compared to the second quarter of fiscal year 2017 positively affected gross profit. The volume of ethanol sold during the second quarter of fiscal year 2018 compared to the second quarter of fiscal year 2017 positively impacted gross profit by approximately \$1.5 million. Grain accounted for approximately 77% (\$88.5 million) of our cost of sales during the second quarter of fiscal year 2018 compared to approximately 75% (\$73.2 million) during the second quarter of fiscal year 2017. Natural gas accounted for approximately 5% (\$5.2 million) of our cost of sales during the second quarter of fiscal year 2018 compared to approximately 5% (\$5.3 million) during the second quarter of fiscal year 2017.

Gross profit for the first six months of fiscal year 2018 was approximately \$27.2 million (10.9% of net sales and revenue), which was approximately \$3.9 million higher compared to approximately \$23.3 million of gross profit (10.5% of net sales and revenue) for the first six months of fiscal year 2017. The crush spread for the first six months of fiscal year 2018 was approximately \$0.13 per gallon of ethanol sold compared to the first six months of fiscal year 2017 which was approximately \$0.23 per gallon of ethanol sold. The increase of approximately \$12.5 million in sales of dried distillers grains compared to the first six months of fiscal year 2017 positively affected gross profit. The increase of approximately \$2.1 million in sales of modified distillers grains compared to the first six months of fiscal year 2017 positively affected gross profit. The volume of ethanol sold during the first six months of fiscal year 2018 compared to the first six months of fiscal year 2017 positively impacted gross profit by approximately \$2.2 million. In addition, corn oil sales positively impacted gross profit in the first six months of fiscal year 2018 by approximately \$0.7 million compared to the first six months of fiscal year 2017. Grain accounted for approximately 77% (\$171.7 million) of our cost of sales during the first six months of fiscal year 2018 compared to approximately 76% (\$150.9 million) during the first six months of fiscal year 2017. Natural gas accounted for approximately 5% (\$11.5 million) of our cost of sales during the first six months of fiscal year 2018 compared to approximately 6% (\$11.3 million) during the first six months of fiscal year 2017.

We attempt to match quantities of ethanol, distillers grains and non-food grade corn oil sales contracts with an appropriate quantity of grain purchase contracts over a given period of time when we can obtain a satisfactory margin resulting from the crush spread inherent in the contracts we have executed. However, the market for future ethanol sales contracts generally lags the spot market with respect to ethanol price. Consequently, we generally execute fixed price sales contracts for no more than four months into the future at any given time and we may lock in our corn or ethanol price without having a corresponding locked in ethanol or corn price for short durations of time. As a result of the relatively short period of time our contracts cover, we generally cannot predict the future movements in the crush spread for more than four months. Based on existing contracts at the end of the second quarter of fiscal year 2018, approximately 5% of our forecasted ethanol, approximately 8% of our forecasted distillers grains and approximately 13% of our forecasted non-food grade corn oil production for the next 12 months have been sold under fixed-price contracts. The effect of a 10% adverse change in the price of ethanol, distillers grains and non-food grade corn oil from the current pricing would result in a decrease in annual revenues of approximately \$47.7 million for the remaining forecasted sales. Similarly, approximately 9% of our estimated corn usage for the next 12 months was subject to fixed-price contracts at the end of the second quarter of fiscal year 2018. The effect of a 10% adverse change in the price of corn from the current pricing would result in an increase in annual cost of goods sold of approximately \$32.8 million for the remaining forecasted grain purchases. At the end of the second quarter, approximately 28% of our estimated natural gas usage for the next 12 months was subject to fixed-price contracts. The effect of a 10% adverse change in the price of natural gas from the current pricing would result in an increase in annual cost of goods sold of approximately \$1.4 million for the remaining forecasted natural gas purchases.

SG&A expenses for the second quarter of fiscal year 2018 were approximately \$4.9 million, which were approximately \$1.2 million higher compared to the second quarter of fiscal year 2017 amount of \$3.7 million. A majority of the increase was related to an increase in incentive compensation expenses

associated with higher quarterly profitability in fiscal year 2018 and freight related charges. SG&A expenses were approximately \$8.5 million for the first six months of fiscal year 2018, which were approximately \$0.4 million higher compared to the first six months of fiscal year 2017 amount of \$8.1 million. A majority of the increase results from higher freight related charges in fiscal year 2018 compared to fiscal year 2017.

During the second quarters of fiscal years 2018 and 2017, we recognized income of approximately \$0.9 million and \$0.1 million, respectively, from our equity investment in Big River, which is included in our ethanol and by-products segment results. Such income was approximately \$1.6 million and \$0.8 million during the first six months of fiscal year 2018 and 2017, respectively. Big River's results in fiscal year 2017 were negatively impacted by an asset impairment charge which reduced our equity method income by approximately \$0.5 million. Big River has interests in four ethanol production plants that shipped approximately 424 million gallons in the trailing twelve months ended July 31, 2018 and has an effective ownership of ethanol gallons shipped for the same period of approximately 366 million gallons. Big River's operations also include agricultural elevators. Due to the inherent volatility of commodity prices within the ethanol industry, we cannot predict the likelihood of future operating results from Big River being similar to historical results.

Interest and other income was approximately \$0.4 million for the second quarter of fiscal year 2018 versus approximately \$0.1 million for the second quarter of fiscal year 2017. Interest and other income was approximately \$0.8 million for the first six months of fiscal year 2018 versus approximately \$0.2 million for the first six months of fiscal year 2017. The income has increased as yields on our excess cash have improved compared to fiscal year 2017.

The provision for income taxes was approximately \$2.0 million in the second quarter of fiscal year 2018 compared to approximately \$2.7 million in the second quarter of fiscal year 2017. The provision for income taxes was approximately \$3.4 million in the first six months of fiscal year 2018 compared to approximately \$5.4 million in the first six months of fiscal year 2017. The segment tax rate in the second quarter and first six months of fiscal year 2018 was lower compared to the second quarter and first six months of fiscal year 2017 as a result of the reduction in corporate tax rates in connection with the Tax Act and from the research and experimentation credits we expect to earn in fiscal year 2018 (and claim by filing amended returns for prior years).

Income related to noncontrolling interests was approximately \$1.5 million and approximately \$1.2 million during the second quarters of fiscal years 2018 and 2017, respectively. Income related to noncontrolling interests was approximately \$2.5 million and approximately \$2.3 million during the first six months of fiscal years 2018 and 2017, respectively. These amounts represent the other owners' share of the income of NuGen and One Earth.

Segment profit for the second quarter of fiscal year 2018 was approximately \$6.6 million, which was approximately \$3.2 million higher compared to the prior year second quarter profit of approximately \$3.4 million. Segment profit for the first six months of fiscal year 2018 was approximately \$15.2 million, which was approximately \$6.6 million higher compared to the first six months of fiscal year 2017 profit of approximately \$8.6 million. The increase from fiscal year 2017 results is primarily related to increased gross profit and a lower provision for income taxes.

Refined Coal

The refined coal segment includes the consolidated financial results of our refined coal entity and certain administrative expenses. We acquired the refined coal entity during the third quarter of fiscal year 2017.

The following table summarizes sales from refined coal operations by product group (amounts in thousands):

Sales of products, refined coal segment:	Three Months Ended July 31,		Six Months Ended July 31,	
	2018	2017	2018	2017
Refined coal	<u>\$ 266</u>	<u>\$ —</u>	<u>\$ 406</u>	<u>\$ —</u>

¹ We record sales in the refined coal segment net of the cost of coal as we purchase the coal feedstock from the customer to which refined coal is sold.

Refined coal sales were approximately \$0.3 million and approximately \$0.4 million in the second quarter and first six months of fiscal year 2018, respectively. We expect future period sales to vary depending on fluctuations in demand from the site host utility which generally change based upon weather conditions in the geographic markets the utility serves.

Gross loss was approximately \$4.3 million and approximately \$7.0 million in the second quarter and first six months of fiscal year 2018, respectively. We expect future period gross loss to vary similar to the sales fluctuations described above. Based on the agreements in place that govern the operation, sales and purchasing activities of the refined coal plant, we expect the refined coal operation to continue operating at a gross loss. We expect that the ongoing losses will be subsidized by federal production income tax credits.

Selling, general and administrative expenses were approximately \$0.5 million and approximately \$0.7 million in the second quarter and first six months of fiscal year 2018, respectively. We expect future period expenses to be less than \$1.0 million per quarter.

Loss related to noncontrolling interests was approximately \$0.2 million and approximately \$0.3 million in the second quarter and first six months of fiscal year 2018, respectively. This amount represents the other owners' share of the pre-tax loss of refined coal operations.

The benefit for income taxes was approximately \$7.6 million in the second quarter of fiscal year and was approximately \$11.6 million in the first six months of fiscal year 2018. The refined coal segment tax benefit is comprised of an estimated statutory benefit of its pre-tax losses and an estimated benefit from the Section 45 tax credits we expect to earn from producing and selling refined coal.

As a result of the foregoing, including the benefit of federal tax credits associated with refined coal production and sales, segment profit for the second quarter and first six months of fiscal year 2018 was approximately \$3.0 million and approximately \$4.3 million, respectively.

Corporate and Other

Selling, general and administrative expenses for the second quarter of fiscal year 2018 were approximately \$0.7 million, which was approximately \$0.3 million lower compared to approximately \$1.0 million of expenses for the second quarter of fiscal year 2017. These expenses for the first six months of fiscal year 2018 were approximately \$1.5 million, which was approximately \$0.6 million lower compared to approximately \$2.1 million of expenses for the first six months quarter of fiscal year 2017. The decrease is primarily related to higher professional expenses incurred during the second quarter and first six months of fiscal year 2017 associated with due diligence and other efforts related to researching the refined coal operations prior to our refined coal acquisition.

Interest and other income was approximately \$0.3 million for the second quarter of fiscal year 2018 versus approximately \$0.2 million for the second quarter of fiscal year 2017. Such income was approximately \$0.5 million for the first six months of fiscal year 2018 versus approximately \$0.3 million for the first six months of fiscal year 2017. The income has increased as yields on our excess cash have improved compared to fiscal year 2017.

Liquidity and Capital Resources

Net cash provided by operating activities was approximately \$18.2 million for the first six months of fiscal year 2018, compared to net cash provided of approximately \$13.5 million for the first six months of fiscal year 2017. For the first six months of fiscal year 2018, cash was provided by net income of approximately \$20.8 million, adjusted for non-cash items of approximately \$2.2 million, which consisted of depreciation, income from equity method investments, accrued interest income, the deferred income tax provision and stock based compensation expense. An increase in the balance of accounts receivable used cash of approximately \$1.7 million, which was primarily a result of the timing of customer shipments and payments. An increase in the balance of inventories used cash of approximately \$4.4 million, which was primarily a result of the timing of receipt of raw materials as we took advantage of purchasing opportunities that existed during the first six months of fiscal year 2018. An increase in refundable income taxes used cash of approximately \$1.8 million, which was primarily a result of recognizing the benefit of an expected filing of an amended income tax return to claim a refund for prior years. An increase in the balance of accounts payable provided cash of approximately \$4.0 million, which was primarily a result of the timing of inventory receipts and vendor payments. A decrease in the balance of other liabilities used cash of approximately \$1.3 million which was primarily a result of payments of incentive compensation and real estate taxes.

Net cash provided by operating activities was approximately \$13.5 million for the first six months of fiscal year 2017. For the first six months of fiscal year 2017, cash was provided by net income of approximately \$9.8 million, adjusted for non-cash items of approximately \$10.0 million, which consisted of depreciation and amortization, income from equity method investments, the deferred income tax provision and stock based compensation expense. Big River paid dividends to REX of approximately \$2.0 million during the first six months of fiscal year 2017. A decrease in the balance of accounts receivable provided cash of approximately \$0.9 million, which was primarily a result of the timing of customer shipments and payments. An increase in the balance of inventories used cash of approximately \$5.0 million, which was primarily a result of the timing of receipt of raw materials as we took advantage of purchasing opportunities that existed during the first six months of fiscal year 2017. An increase in the

balance of other assets used cash of approximately \$1.0 million, which was primarily a result of income tax payments and normal variations in various asset balances. An increase in the balance of accounts payable provided cash of approximately \$1.7 million, which was primarily a result of the timing of inventory receipts and vendor payments. A decrease in the balance of other current liabilities used cash of approximately \$4.8 million which was primarily a result of payments of incentive compensation and real estate taxes.

At July 31, 2018, working capital was approximately \$220.3 million, compared to approximately \$217.2 million at January 31, 2018. The ratio of current assets to current liabilities was 10.9 to 1 at July 31, 2018 and January 31, 2018.

Cash of approximately \$116.9 million was used in investing activities for the first six months of fiscal year 2018, compared to approximately \$14.1 million during the first six months of fiscal year 2017. During the first six months of fiscal year 2018, we had capital expenditures of approximately \$5.8 million, the majority of which were plant capacity expansion projects at the One Earth and NuGen ethanol plants. We expect to spend between \$4.0 million and \$6.0 million during the remainder of fiscal year 2018 on various capital projects. During the first six months of fiscal year 2018, we used cash of approximately \$111.2 million for the purchase of United States treasury bills to increase the interest income we receive on our excess cash balances. The treasury bills mature during the third quarter of fiscal year 2018. Depending on investment options available, we may elect to retain the funds, or a portion thereof, in cash investments, short-term investments or long-term investments.

Cash of approximately \$14.1 million was used in investing activities for the first six months of fiscal year 2017. During the first six months of fiscal year 2017, we had capital expenditures of approximately \$14.4 million, the majority of which was plant capacity expansion projects at the One Earth and NuGen ethanol plants.

Cash used in financing activities totaled approximately \$18.1 million for the first six months of fiscal year 2018 compared to approximately \$1.7 million for the first six months of fiscal year 2017. During the first six months of fiscal year 2018, we used cash of approximately \$16.6 million to purchase approximately 228,000 shares of our common stock in open market transactions. We will continue to monitor opportunities to purchase our common stock based upon our stock price performance. During the first six months of fiscal year 2018, we used cash of approximately \$1.7 million to purchase shares from and pay dividends to noncontrolling members of One Earth. During the first six months of fiscal year 2018, we received approximately \$0.2 million in capital contributions from the minority investor in the refined coal entity. We expect to continue to receive these capital contributions in the future as we expect the minority investor to continue funding its proportionate share of refined coal operating losses.

Cash used in financing activities totaled approximately \$1.7 million for the first six months of fiscal year 2017 which was used to purchase shares from and pay dividends to noncontrolling members of One Earth.

We are investigating various uses for our excess cash and short-term investments. We have a stock buyback program, and given our current authorization level, can repurchase a total of approximately 427,000 shares. We also plan to seek and evaluate investment opportunities including energy related, agricultural or other ventures we believe fit our investment criteria in addition to investing in highly liquid short-term securities.

Effective April 1, 2016, One Earth and NuGen each entered into \$10.0 million revolving loan facilities that mature June 1, 2019 as extended. Neither One Earth nor NuGen had outstanding borrowings on the revolving loans during the six months ended July 31, 2018. These agreements do not contain any financial covenants.

Forward-Looking Statements

This Form 10-Q contains or may contain forward-looking statements as defined in the Private Securities Litigation Reform Act of 1995. Such statements can be identified by use of forward-looking terminology such as “may,” “expect,” “believe,” “estimate,” “anticipate” or “continue” or the negative thereof or other variations thereon or comparable terminology. Readers are cautioned that there are risks and uncertainties that could cause actual events or results to differ materially from those referred to in such forward-looking statements. These risks and uncertainties include the risk factors set forth from time to time in the Company’s filings with the Securities and Exchange Commission and include among other things: the impact of legislative changes, the price volatility and availability of corn, distillers grains, ethanol, non-food grade corn oil, gasoline, natural gas, our ethanol and refined coal plants operating efficiently and according to forecasts and projections, changes in the international, national or regional economies, weather, results of income tax audits, changes in income tax laws or regulations and the effects of terrorism or acts of war. The Company does not intend to update publicly any forward-looking statements except as required by law. Other factors that could cause actual results to differ materially from those in the forward-looking statements are set forth in Item 1A of the Company’s Annual Report on Form 10-K for the fiscal year ended January 31, 2018 (File No. 001-09097).

Item 3. Quantitative and Qualitative Disclosures About Market Risk

We are exposed to the impact of market fluctuations associated with commodity prices as discussed below.

We manage a portion of our risk with respect to the volatility of commodity prices inherent in the ethanol industry by using forward purchase and sale contracts. At July 31, 2018, One Earth and NuGen combined have forward purchase contracts for approximately 11.5 million bushels of corn, the principal raw material for their ethanol plants. One Earth and NuGen expect to take delivery of the corn through December 2018. At July 31, 2018, One Earth and NuGen have combined sales commitments for approximately 17.9 million gallons of ethanol, approximately 62,000 tons of distillers grains and approximately 10.2 million pounds of non-food grade corn oil. One Earth and NuGen expect to deliver the majority of the ethanol, distillers grains and non-food grade corn oil through September 2018. Approximately 5% of our forecasted ethanol sales for the next 12 months have been sold under fixed-price contracts. The effect of a 10% adverse move in the price of ethanol from the current pricing would result in a decrease in annual revenues of approximately \$37.0 million. Approximately 8% of our forecasted distillers grains sales for the next 12 months have been sold under fixed-price contracts. The effect of a 10% adverse move in the price of distillers grains from the current pricing would result in a decrease in annual revenues of approximately \$9.0 million. Approximately 13% of our forecasted non-food grade corn oil sales for the next 12 months have been sold under fixed-price contracts. The effect of a 10% adverse

move in the price of non-food grade corn oil from the current pricing would result in a decrease in annual revenues of approximately \$1.7 million. Similarly, approximately 9% of our estimated corn usage for the next 12 months was subject to fixed-price contracts. The effect of a 10% adverse move in the price of corn from the current pricing would result in an increase in annual cost of goods sold of approximately \$32.8 million. Approximately 28% of our estimated natural gas usage for the next 12 months was subject to fixed-price contracts. The effect of a 10% adverse move in the price of natural gas from the current pricing would result in an increase in annual cost of goods sold of approximately \$1.4 million.

Item 4. Controls and Procedures

Our management evaluated, with the participation of our Chief Executive Officer and Chief Financial Officer, the effectiveness of our disclosure controls and procedures, as of the end of the period covered by this report. Based on that evaluation, the Chief Executive Officer and Chief Financial Officer concluded that our disclosure controls and procedures are effective to ensure that information required to be disclosed by us in the reports that we file or submit under the Securities Exchange Act of 1934 is recorded, processed, summarized and reported within the time periods specified in the Securities and Exchange Commission's rules and forms and is accumulated and communicated to our management, including our Chief Executive Officer and Chief Financial Officer, as appropriate, to allow timely decisions regarding required disclosure.

There were no changes in our internal control over financial reporting that occurred during our last fiscal quarter that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

PART II. OTHER INFORMATION

Item 1. Legal Proceedings

We are not party to any legal proceedings that we believe would, individually or in the aggregate, have a material adverse effect on our financial condition, results of operations or cash flows.

Item 1A. Risk Factors

During the six months ended July 31, 2018, there have been no material changes to the risk factors discussed in our Annual Report on Form 10-K for the year ended January 31, 2018.

Item 2. Unregistered Sales of Equity Securities and Use of Proceeds

Dividend Policy

REX did not pay dividends in the current or prior years. We currently have no restrictions on the payment of dividends. None of our consolidated subsidiaries have restrictions on their ability to pay dividends to us. During the first six months of fiscal year 2018, One Earth paid dividends to REX of approximately \$5.1 million. During the first six months of fiscal year 2018, NuGen did not pay dividends.

Issuer Purchases of Equity Securities

Period	Total Number of Shares Purchased	Average Price Paid per Share	Total Number of Shares Purchased as Part of Publicly Announced Plans or Programs	Maximum Number of Shares that May Yet Be Purchased Under the Plans or Programs (1)
May 1-31, 2018	6,884	\$ 73.41	6,884	522,309
June 1-30, 2018	7,126	72.78	7,126	515,183
July 1-31, 2018	88,002	73.82	88,002	427,181
Total	102,012	\$ 73.72	102,012	427,181

(1) On March 20, 2018, our Board of Directors increased our share repurchase authorization by an additional 500,000 shares. At July 31, 2018, a total of 427,181 shares remained available to purchase under this authorization.

Item 3. Defaults upon Senior Securities

Not Applicable

Item 4. Mine Safety Disclosures

Not Applicable

Item 5. Other Information

None

Item 6. Exhibits

The following exhibits are filed with this report:

31 [Rule 13a-14\(a\)/15d-14\(a\) Certifications](#)

32 [Section 1350 Certifications](#)

101 The following information from REX American Resources Corporation Quarterly Report on Form 10-Q for the quarter ended July 31, 2018, formatted in XBRL: (i) Consolidated Condensed Balance Sheets, (ii) Consolidated Condensed Statements of Operations, (iii) Consolidated Condensed Statements of Equity, (iv) Consolidated Condensed Statements of Cash Flows and (v) Notes to Consolidated Condensed Financial Statements.

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

REX American Resources Corporation
Registrant

<u>Signature</u>	<u>Title</u>	<u>Date</u>
<u>/s/ Zafar Rizvi</u> (Zafar Rizvi)	Chief Executive Officer and President (Chief Executive Officer)	September 5, 2018
<u>/s/ Douglas L. Bruggeman</u> (Douglas L. Bruggeman)	Vice President, Finance and Treasurer (Chief Financial Officer)	September 5, 2018

CERTIFICATIONS

I, Zafar Rizvi, certify that:

1. I have reviewed this quarterly report on Form 10-Q of REX American Resources Corporation;
 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
 4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rule 13a-15(f) and 15d-15(f)) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
-

5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):

(a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and

(b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: September 5, 2018

/s/ Zafar Rizvi

Zafar Rizvi

Chief Executive Officer and President

CERTIFICATIONS

I, Douglas L. Bruggeman, certify that:

1. I have reviewed this quarterly report on Form 10-Q of REX American Resources Corporation;
 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
 4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rule 13a-15(f) and 15d-15(f)) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
-

5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):

(a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and

(b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: September 5, 2018

/s/ Douglas L. Bruggeman
Douglas L. Bruggeman
*Vice President, Finance, Treasurer and
Chief Financial Officer*

REX American Resources Corporation
CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED BY SECTION 906
OF THE SARBANES-OXLEY ACT OF 2002

The undersigned officers of REX American Resources Corporation (the "Company") hereby certify, to their knowledge, that the Company's Quarterly Report on Form 10-Q for the period ended July 31, 2018 which this certificate accompanies, fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934 and that the information contained therein fairly presents, in all material respects, the financial condition and results of operations of the Company.

A signed original of this written statement required by Section 906, or other document authenticating, acknowledging, or otherwise adopting the signature that appears in typed form within the electronic version of this written statement required by Section 906, has been provided to the Company and will be retained by the Company and furnished to the Securities and Exchange Commission or its staff upon request.

/s/Zafar Rizvi
Zafar Rizvi
Chief Executive Officer and President

/s/ Douglas L. Bruggeman
Douglas L. Bruggeman
*Vice President, Finance, Treasurer and
Chief Financial Officer*

Date: September 5, 2018
